

JRC TECHNICAL REPORT

Country report for SELFIE WBL piloting

France

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2021



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EU Science Hub

<https://ec.europa.eu/jrc>

JRC125789

EUR 30933 EN

PDF ISBN 978-92-76-45988-0 ISSN 1831-9424 doi:10.2760/424070

Luxembourg: Publications Office of the European Union, 2021

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How to cite this report: Proença, M. J., Zimšek, M., Goltnik Urnaut, A., Sauli Miklavčič, A. L., and Hippe, R., *Country report for SELFIE WBL piloting – France*, EUR 30933 EN, Publications Office of the European Union, Luxembourg, 2021, ISBN 978-92-76-45988-0, doi:10.2760/424070, JRC125789.

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Acknowledgements

We would like to thank all vocational education and training (VET) schools and companies that, on a voluntary basis, have participated in the SELFIE for work-based learning (WBL) piloting experience during the most challenging period of the last century. A word of appreciation goes to the national coordination team who, tirelessly, assured the engagement with and continuous support to participating schools and companies and provided the valuable information without which the pilot experience and the report would not have been possible.

We would also like to thank DG Employment, Social Affairs and Inclusion and the European Training Foundation (ETF) for the effective collaboration throughout the piloting phase and DG Education and Culture for the support. In addition, we would like to thank the national coordinators of all nine piloting countries for the fruitful exchanges and opportunities of mutual learning that have facilitated the piloting process. Lastly, the active involvement and support of national VET and WBL stakeholders has been crucial in this endeavour to pilot SELFIE WBL during the COVID-19 crisis.

Disclaimer

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The views expressed in this report are purely those of the authors and may not in any circumstances be regarded as stating an official position of the European Commission.

Note: This report was produced within the framework of contract agreement 939680 – 2020 BE European Forum of Technical and Vocational Education and Training (EfVET) and the European Commission's Joint Research Centre (JRC) – 'Piloting SELFIE for work-based learning contexts in VET (SELFIE WBL), Lot 2: France'.

Abstract

This report presents the results of the pilot study of SELFIE for work-based learning carried out in France between September and December 2020. The study aimed at testing the tool and quality of the questionnaires before its launch online. In total, 15 VET colleges and 18 companies (operating in different sectors) were engaged in the pilot, involving 3 365 users (teachers, students, school leaders and in-company trainers). In addition, 192 individuals (students, teachers, school leaders, school coordinators and in-company trainers) participated in the qualitative research carried out after the pilot. This research included interviews and focus groups, with the purpose of collecting further feedback. The overall results indicate that the SELFIE WBL tool is user-friendly and easy to understand, well designed and inclusive with its 360-degree reflection, as it engaged all those involved in WBL activities in the French WBL system. Nevertheless, respondents also requested a variety of changes to the questionnaires and made recommendations on how to improve the tool. The SELFIE WBL tool and the report were seen as providing support to school leaders in the development and monitoring of the school's digital strategy as well as providing relevant information to all stakeholders in the SELFIE WBL pilot, contributing to increasing the effectiveness of learning in VET schools and companies.

Executive summary

SELFIE is an online self-reflection tool developed to support schools, including VET, to assess their digital capacity and preparedness by looking at different dimensions such as school strategies, teaching and learning practices, equipment and infrastructure and student competences.

The tool was developed in 2018 by the JRC and the Directorate-General for Education, Youth, Sport and Culture. In early 2020, in cooperation with the Directorate-General for Employment, Social Affairs and Inclusion, it was adapted to include a module on work-based learning which adds the views of in-company trainers. The aim has been to help improve coordination between VET schools and training companies, and to discuss how they could jointly embed digital technology in their training and apprenticeship programmes. This also means bringing VET trainers¹ and in-company trainers closer together.

Throughout 2020, the JRC launched a pilot experience of SELFIE for work-based learning contexts in VET (SELFIE WBL) in nine different countries. The EfVET in collaboration with the JRC organised this in France, Poland, Hungary, Germany. In addition, the JRC managed the pilot in Romania. Four additional non-EU countries (Georgia, Montenegro, the Republic of Serbia and Turkey) piloted SELFIE WBL managed by the ETF and JRC. The aim of the pilot was to test the WBL extension of the tool, which first meant an extended questionnaire for the existing groups but also a new questionnaire for a new respondent group. Ensuring the high quality of the new questionnaires was a key objective of the piloting. In addition, a range of technical changes to the tool were piloted. In particular, involving companies in the SELFIE self-reflection exercise in addition to schools was a new and important endeavour, and it was important to test its concrete practical implementation.

The piloting of SELFIE WBL in France was launched in July 2020 and effectively rolled out in September 2020. It entailed three main phases: the first related to the translation of all supporting documents and the tool itself; the second to the selection and engagement of stakeholders (including VET schools and companies); and the third related to the piloting of the SELFIE WBL in the selected VET schools and companies and the qualitative research consisting of the organisation of focus groups with learners² and trainers in each one of the VET schools, in-depth interviews with school directors and in-company trainers and additional desk research on similar self-reflection and other digital tools in use in the country.

The main emphasis of the piloting experience was on the qualitative research as it allowed quality information to be collected with the view to contributing to practice development and improving the SELFIE WBL tool and its further development. 13 schools were involved in the qualitative research, 21 focus groups (totalling 84 trainers and 86 learners) and 18 semi-structured interviews were organised with 14 school leaders and 4 in-company trainers which allowed the collection of relevant feedback regarding the tool.

The pilot process was disturbed by the COVID-19 pandemic with the confinement measures taken by the government, impacting on the data collection process and requiring great efforts from the national team and the school coordinators to assure the delivery, as planned, of all activities. This also had a massive impact on the educational community's state of mind, making it difficult to motivate and engage participants to fill out the SELFIE WBL tool.

The overall feedback received was that the SELFIE WBL tool is user-friendly and easy to understand, well designed and inclusive with its 360-degree reflection, as it engaged all those involved in WBL activities in the French WBL system (learners, trainers, school leaders and in-company trainers). Nevertheless, respondents

¹ In France, VET school teaching staff are addressed as trainers and not teachers, therefore the term 'trainers' is the term used in this report related to the results provided during the SELFIE WBL survey under the term 'teachers'.

² In France, VET school students are addressed as learners and not students, therefore the term 'learners' is the term used in this report related to the results provided during the SELFIE WBL survey under the term 'students'.

also requested a variety of changes to the questionnaires (for example, a lower total number of questions) and made recommendations on how to improve and increase the scope of the tool, such as providing the possibility to network with other schools. Additional materials such as guides for learners were also mentioned.

The main challenges identified through the quantitative and qualitative research by school leaders, trainers and learners proved to be pedagogical support and resources with the digital competences and knowledge of trainers, the digital learning skills of learners, the overall implementation of digital technologies in the classroom and the infrastructure and equipment. Likewise, for in-company trainers, the biggest challenges mentioned were the infrastructure and equipment.

The SELFIE WBL tool and the report provided support to school leaders in the development and monitoring of the school's digital strategy as well as providing relevant information to all stakeholders in the SELFIE WBL pilot, contributing to increasing the effectiveness of learning. School leaders and trainers have also expressed their intention to use it on a regular basis.

School leaders have also expressed their interest in the next steps of SELFIE WBL and exploring further opportunities of SELFIE WBL to facilitate engagement of and impact on all stakeholders. In addition to the technological aspect and competences, trainers' attitudes towards the 'digital world' and digitalisation in general also have to be taken into consideration.

School leaders shared their perspectives regarding the importance of digitalisation not only as a result of the pandemic, but rather as a means to encourage all stakeholders (schools, companies) to increase the effectiveness of teaching and learning.

Feedback provided was that the SELFIE WBL pilot came at the right time, not only for schools and their leaders, but also for trainers, learners and in-company trainers. The next challenge will be to act based on the SELFIE WBL report results.

1. Introduction

SELFIE is a self-reflection tool supporting the use of digital technologies for teaching and learning in schools. It was launched by the European Commission in October 2018 as part of its Digital Education Action Plan and is available in more than 30 languages. After the successful start of SELFIE, a feasibility study (Broek and Buiskool 2020) was conducted that explored how the tool could be adapted to the needs of work-based learning (WBL) contexts, in which a student is learning both in a school and in a company. Following the positive results of this study, the extension of the tool was developed.

The aim of the SELFIE WBL pilot was to test this WBL extension of the tool, which first meant an extended questionnaire for the existing groups (school leaders, teachers and students) but also a new questionnaire for a new respondent group (in-company trainers). Ensuring the high quality of the new questionnaires was a key objective of the piloting. In addition, a range of technical changes to the tool were piloted. In particular, involving companies in the SELFIE self-reflection exercise in addition to schools was a new endeavour, and it was crucial to test its concrete practical implementation before the final release of SELFIE WBL.

The pilot experience of SELFIE WBL was launched in nine countries. The European Forum of Technical and Vocational Education and Training (EfVET), in collaboration with the European Commission's Joint Research Centre (JRC), organised this in France, Poland, Hungary and Germany. The JRC managed the pilot in Romania. In addition, the European Training Foundation (ETF), in collaboration with the JRC, piloted the tool in four non-EU countries, namely Georgia, Montenegro, the Republic of Serbia and Turkey.

The overall management of the SELFIE WBL pilot in Germany was carried out by the EfVET in collaboration with the JRC. The pilot was coordinated at national level by the Société d'Enseignement Professionnelle du Rhône (SEPR), one of EfVET's members in France. The qualitative research and reporting of the pilot was led by an EfVET member in Slovenia – Skupnost višjih strokovnih šol Republike Slovenije (Skupnost VSŠ).

Overall management of SELFIE WBL in France – specific responsibilities allocated to each organisation were as follows.

EfVET – The European Forum of Technical and Vocational Education and Training was the project coordinator and responsible for the overall project management, quality and reporting. More specifically, the project manager was responsible for the implementation of the work plan and for all administrative and financial management of the proposal and for assuring each member of the team was provided with the support needed to implement the tasks. The EfVET had one member of the governance responsible for overseeing the piloting process and one project manager responsible for the operations and ongoing support to the national coordinators and the liaison with the JRC.

Skupnost VSŠ – Skupnost višjih strokovnih šol Republike Slovenije was a research partner and, as such, responsible for the qualitative research including the conducting of the case studies as well as the final report summarising the process of and lessons learnt from the piloting of SELFIE WBL in VET schools and companies, and compiling the list of digital tools used in the work-based learning (WBL) sector for each country. Skupnost VSŠ had three members who were part of the research team (one senior and one junior researcher, and a senior WBL expert), working directly with the EfVET and national coordinators.

SEPR – The Société d'Enseignement Professionnelle du Rhône was the national coordinator for France and, as such, responsible for the translation and adaptation of SELFIE WBL and supporting materials into French; for reaching out and engaging the stakeholders, VET schools and companies; and for overseeing the piloting of the SELFIE WBL tool and supporting the research component. The national coordinator worked very closely with school coordinators, providing ongoing support. The national coordinator had a pivotal role in the piloting process for the ongoing support to VET schools and companies. The SEPR had two members of staff

dedicated to the SELFIE WBL pilot – one senior VET expert supporting and one additional member of the team responsible for overseeing the operations at national level.

Management at national level – responsibilities were defined as follows.

The national coordinator had a pivotal role in the SELFIE WBL piloting process and the selection of VET schools and companies at national level. The national team was responsible for the ongoing support to VET schools, the engagement of national stakeholders, the preparation and delivery of planned webinars, acting as a liaison between Skupnost VSŠ and VET schools in everything related to the research component, including the translation of support materials developed for that purpose. The national team was responsible for the conducting of the interviews with school leaders and company representatives.

The school coordinators were the main organisational force at institutional level engaging and mobilising companies, school leaders, trainers and learners and offering them ongoing support during the pilot process. The school coordinator was also responsible for the organisation of the focus groups that took place in schools – one with trainers and the other with learners. The school coordinators were also responsible for the management of the relationship with companies and the eventual support that might have been required throughout the SELFIE WBL pilot.

2. Digital education and WBL policies

Work-based learning (WBL) refers to knowledge and skills acquired through carrying out – and reflecting on – tasks in a vocational context, either in the workplace or in a VET institution. In France, there are two different pathways for work-based learning, namely (Ministry of Labour, 2017):

- full-time study in a vocational school with placements in a company (from 4 to 10 weeks, depending on the qualification level). There are public and private vocational schools, both delivering diplomas from the State;
- apprenticeship in an apprenticeship training centre (ATC). Most ATCs are private as the legal status is non-profit organisation, but the National Board of Education created some public ATCs that are integrated into public training centres.

In any case, the same diplomas are awarded at the end of the training. The only difference is the method of training and the time spent at school and in a company.

The recognition of the value of apprenticeships in France has increased over the years, currently being seen as a way to gain work experience and excellence.

The apprenticeships programmes and curricula are set by the certifier, which may be (Ministry of Labour, 2017):

- for the most part, the Ministry of National Education, Youth and Sport
- the Ministry of Labour
- the Chambers of Trades and Crafts
- the Chamber of Commerce
- professional unions.

An apprenticeship is a very efficient way to enter the labour market with lasting effect: 70% of apprentices have found a job 7 months after the apprenticeship contract ends, and 60% have a permanent contract. Companies confirm that an apprenticeship is a great opportunity: 80% are satisfied with their apprentices and they hire a new one at the end of the previous contract (Ministry of Labour, 2017).

DIGITALISATION STRATEGY FOR VET AND APPRENTICESHIPS IN FRANCE

The topic of digitalisation of education falls under the responsibility of the French Digital Plan for Education established in 2015, responsible for the implementation and deployment of the digital services in the Education sector. This is part of a bigger initiative of the French Government related to the digitalisation of the public services in recognition of the need to keep up with the latest technological trends contributing to the economic development of the country (French Government, 2017).

The digital strategy for the education sector (L'Ecole Numérique) was officially launched in 2015, after an extensive consultation carried out by the Ministry of Education in articulation with other Ministries as it aims to bring schools into the digital age (French Government, 2017).

Its implementation relies on the coordinated mobilisation and action of different stakeholders (schools, teachers, apprentices, managers, ministries and local, regional and other national authorities, universities, research centres, industry) to put in place the optimal conditions for an efficient development and deployment of resources, including access to training. The ambition is to create an e-Education ecosystem so as to enable proper use of resources and effective development of skills and services (French Government, 2017).

Renewed in 2018, the strategy is organised around five main axes: place school data at the heart of the ministry's digital strategy; teach in the 21st century with digital; support and strengthen the professional development of teachers; develop apprentices' digital skills and create new links with the school's actors and partners.

- The strategy envisions the continued and renewed support for the establishment of digital (educational) workplaces across the national territory.
- Schools have the resources (equipment and materials) to provide digital services to expand and enrich the educational offer and to customise the support to apprentices.
- Teachers have access to diversified educational resources that can be used on a daily basis, as well as to initial and continued training and tools, allowing them to monitor their apprentices and communicate with families.

The French Government approved the deployment of 1 billion euros for the period from 2016 to 2019 to support the different initiatives and project development related to the digitalisation of education. Since 2016, several different initiatives and projects have been launched by the Ministry of Education. A very brief overview of the diversity landscape of these projects is shared as follows (French Government, 2017):

- equipping schools. Huge investment was made by national, local and regional authorities to support schools with digital equipment and services (individual materials for apprentices, teachers such as cabling, internet connections, tablets, digital workspaces, access to digital resources and training) including support to schools on how to use this equipment and resources;
- digital platforms. Integrated set of digital services made available to the educational community of schools. It constitutes a unified entry point allowing users to access (according to their profile and level of authorisation) their digital content. It is also a platform for exchange and collaboration between users (from the same school or other schools). This platform offers services such as digital textbooks, common workspaces and storage for apprentices and teachers, access to digital resources, collaborative tools, blogs, forums, virtual classrooms, etc.; support to school management – notes, absences, timetables, agendas, etc.; and communication, messaging, staff and family information, videoconferencing, etc. These digital workplaces can be accessed by apprentices, parents, teachers, administrative staff. This initiative is also related to one of the strategy goals of simplifying administrative formalities and facilitating the communication with the broader educational community;
- training resources for teachers and trainers. Several online platforms have been developed with different purposes such as: providing digital training to teachers, managers, trainers on different areas; sharing resources that can be used daily; disseminating information on existing practices and research carried out at national level on the topic of digitalisation. Some of these platforms are fully dedicated to the topic of inclusiveness;
- the Digital Competence Reference Framework (CRCN). Digital skills reference framework applicable to all EQF levels, inspired by the European framework (DigComp) and launched at the start of 2019 school year;
- data protection and safety. Appointment in August 2018 of a data protection officer (DPD) for the Ministry of National Education and for the Ministry of Higher Education, Research and Innovation to assure compliance with the European guidelines and support the educational community in understanding how personal data should be collected, processed and stored. In addition, an ethics committee on digital data was set up to advise and support on issues related to the use of data collected and processed in the school context. In this context, training targeting school's management and teachers related to the challenges of using digital data were also developed and part of the portfolio of online courses were available to teachers on the different platforms.

For more details on French WBL policies and digital education, see Annex 1.

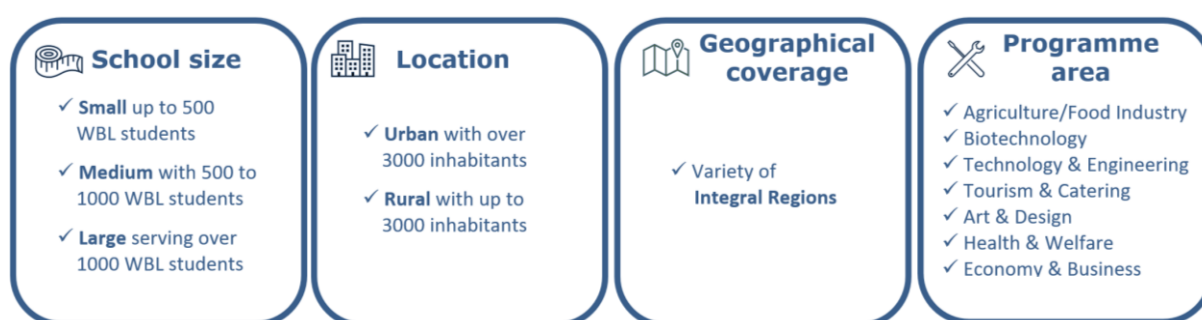
3. Setting up the pilot

3.1 Methodology for selecting the pilot schools and companies

Selection criteria for VET schools were set to capture and reflect the diversity of VET schools (see Figure 1) and their environment according to:

- size of VET schools (as defined in the SELFIE WBL tool),
- location (as defined in the SELFIE WBL tool),
- geographical coverage (result of agreement within the SELFIE WBL pilot team),
- programme area coverage (result of agreement within the SELFIE WBL pilot team), and
- number of VET schools (at least 12 VET schools).

Figure 1. Selection criteria for VET schools



Source: Skupnost VSŠ (2020).

With regard to the school size and location, the decision was to apply the same criteria as defined by the JRC in the SELFIE WBL tool. In terms of the different programmes offered by the different VET schools, this was the result of a consultation with the SELFIE WBL pilot team in the four countries where the pilot has been overseen by the EFVET. It does not intend to be an exhaustive list of all the programmes in the country but rather reflect the common areas identified by the SELFIE WBL pilot team. The agreed minimum number of VET schools to be engaged in the SELFIE WBL pilot was 12. One important consideration was the voluntary participation of schools in the pilots which meant, on a practical level, that the ultimate criteria would be the school's availability and willingness to participate in the pilot and its commitment to the proposed responsibilities.

Mapping VET Schools in France was achieved by the national coordinator, the SEPR, with the support of:

- the Fédération Nationale des Directeurs de Centres de Formation d'Apprentis FNADIR (National Federation of the Apprenticeship Training Centres Leaders) which has advertised the opportunity to participate in the piloting process among its members (600 training centres);
- the Services de l'automobile et de la mobilité ANFA (National Association for Training in the Automotive Sector), which supported the dissemination among its members, encouraging them to engage in the piloting;
- the Association Filière Formation de l'industrie papier carton AFIFOR (French Union Organisation for Vocational Training and Apprenticeship in the Sector of Paper and Cardboard), which supported the dissemination among its members, encouraging them to engage in the piloting. The SEPR exclusively presented the SELFIE WBL pilot during an annual meeting of the AFIFOR Steering Committee with school leaders and also at an additional meeting focusing on technology-enhanced learning with the coordinators of the training centres responsible for digitalisation.

Even though a public list of VET schools in France³ exists, the above-mentioned approach – consisting of reaching out to existing national networks of VET schools – was considered as best given the limited timeline of the SELFIE WBL pilot. The registration process was managed by the national team in close communication with the above stakeholders. The ultimate decision to participate was made by VET schools.

Outreach and engagement – the SEPR has established one-to-one communication with each VET school that expressed interest and availability to participate in the SELFIE WBL pilot, providing additional information regarding the piloting process and the qualitative research, explaining the advantages and benefits of the SELFIE WBL pilot and also providing information on the type of support available should VET schools decide to participate. This ongoing communication was critical to ensure VET schools' engagement and commitment to participate in the SELFIE WBL pilot. A Memorandum of Understanding was sent to all VET schools to be signed, to formalise the cooperation between the EFVET, SEPR and each of the VET schools.

Overall, 15 VET schools from 7 different regions have been engaged in the SELFIE WBL pilot, covering all sizes of VET schools. While most of them are located in urban areas, there is diversity in terms of geography and also in terms of programme areas. The summary of VET schools engaged in the SELFIE WBL pilot and the diversity of coverage according to above set criteria can be seen in Figures 2 and 3.

Figure 2. The diversity of selected VET schools according to size, location and programme area

Source: Skupnost VSŠ (2021).

³ The public list of VET schools in France is available at <https://www.lapprenti.com/>.

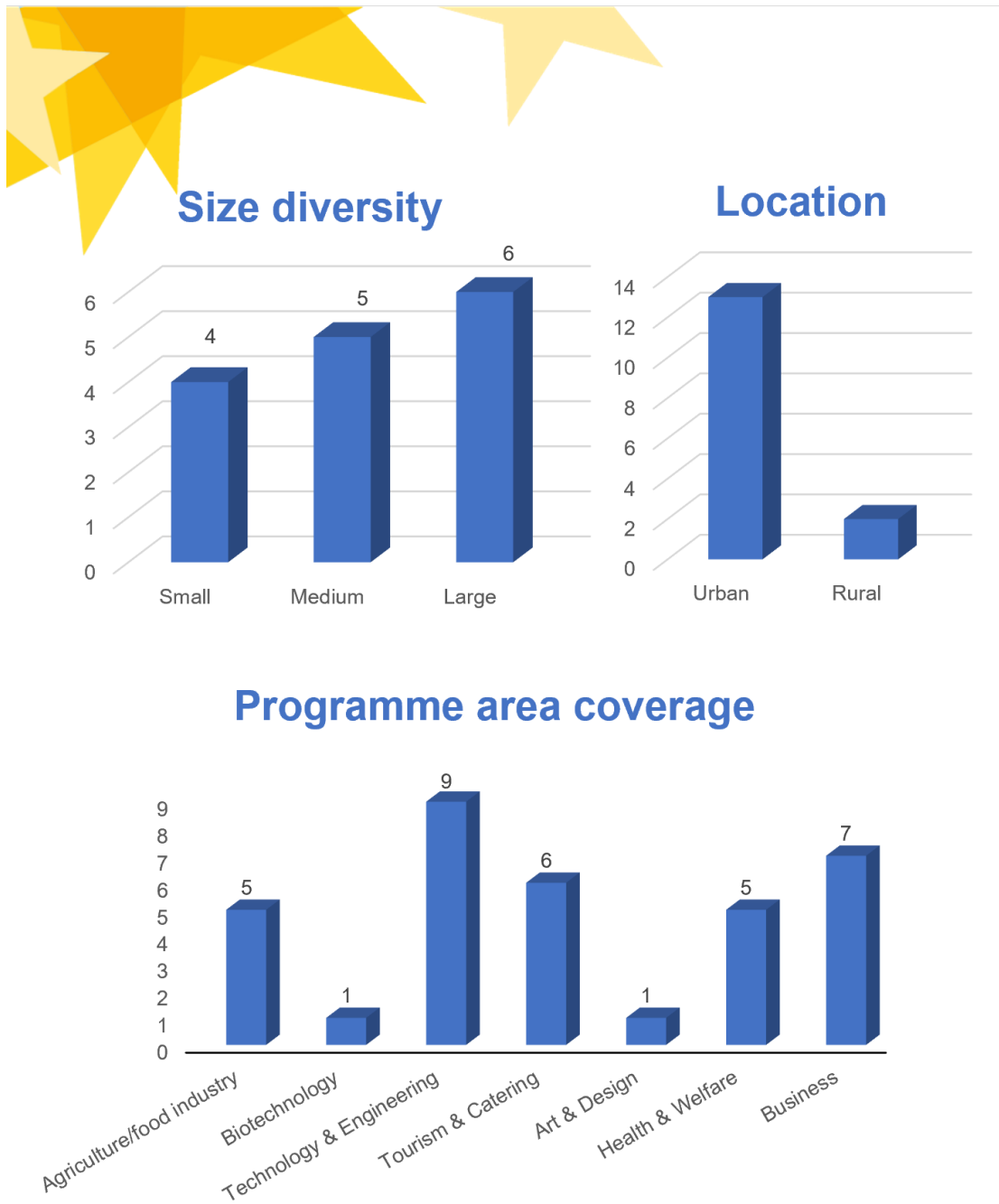
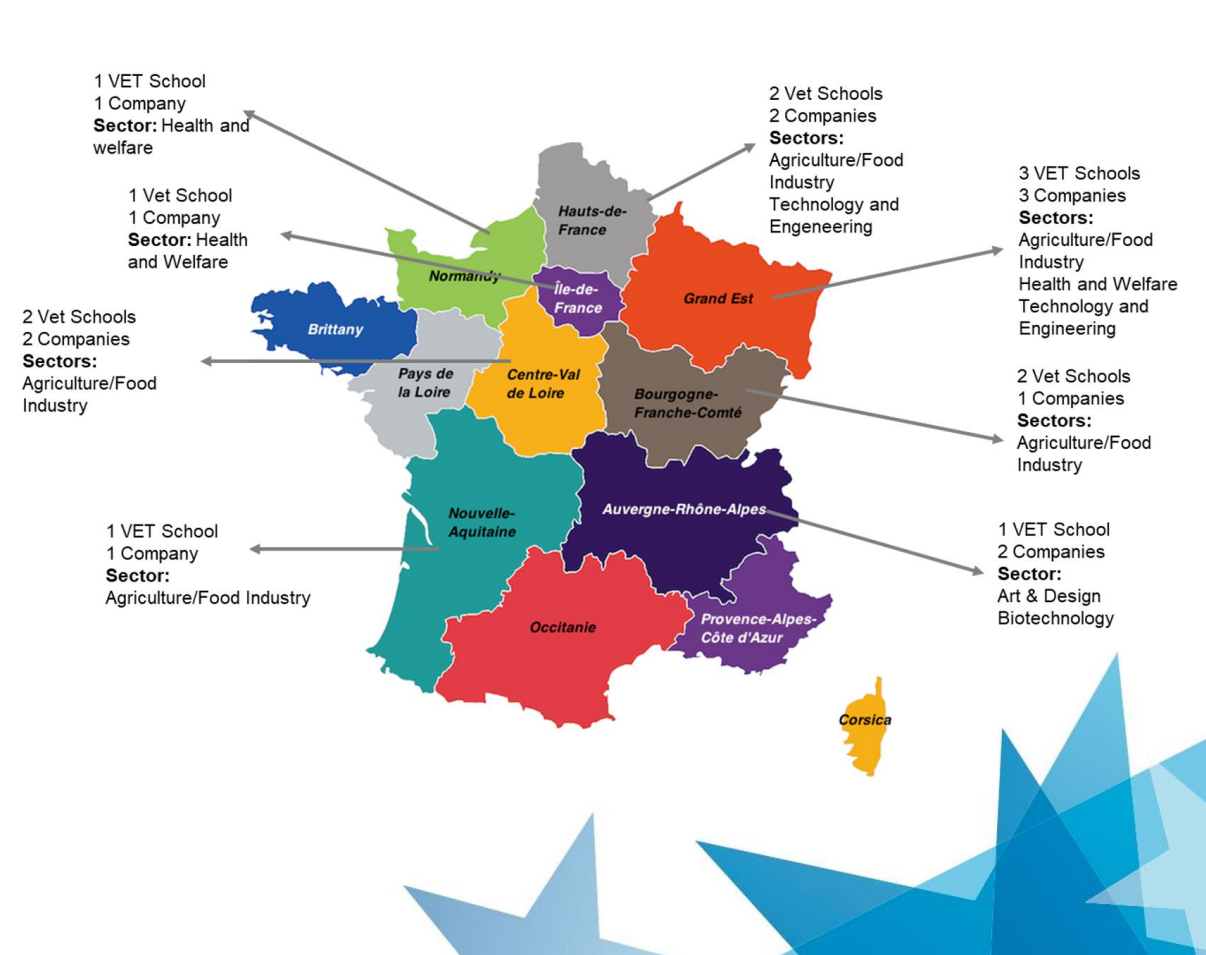


Figure 3. The diversity of selected VET schools and companies according to geographical coverage



Source: Skupnost VSŠ (2021).

Selection criteria for companies were set to cover and reflect the diversity of companies prioritising the relevant national economic areas (see Annex 2) and the diversity thereof. The selection criteria for the diversity of companies (see Figure 4) were set to:

- company size (Commission Recommendation of 6 May 2003), and
- economic sector coverage (result of an agreement within the SELFIE WBL pilot team).

Figure 4. Selection criteria for companies

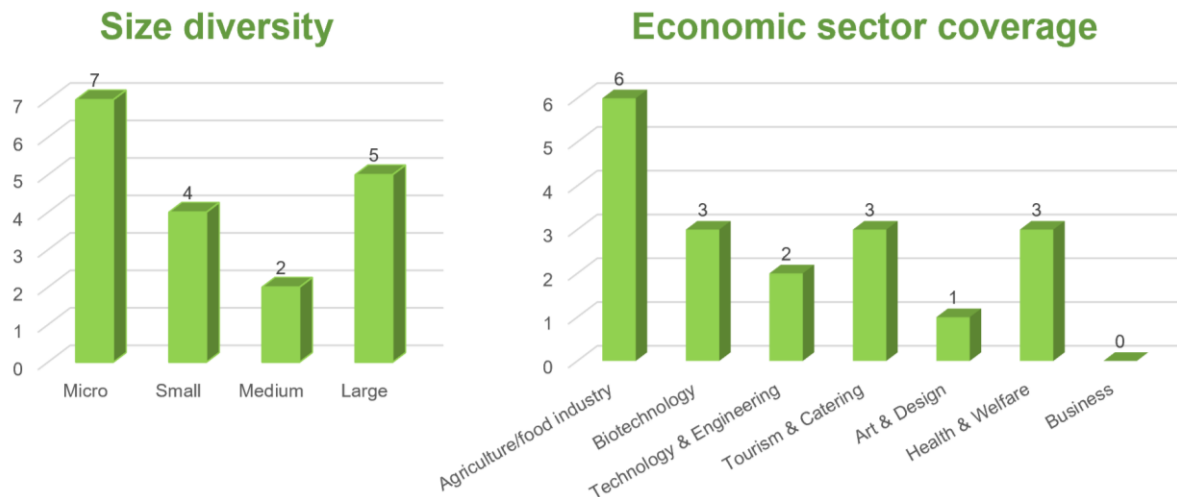


Source: Skupnost VSŠ (2020).

Company engagement was managed by selected VET schools from the pool of companies each VET school works with. The above criteria were presented to each VET school by the SEPR. The minimum requirement set for the SELFIE WBL pilot was to engage at least one company per VET school involved. Their engagement was based on their availability and willingness to participate and aligned with criteria set above, despite the

additional measures taken as a result of the COVID-19 pandemic. The number of companies engaged was 18 and the diversity of coverage according to the above criteria set can be seen in Figure 5.

Figure 5. Selected companies per selection criteria



Source: Skupnost VSŠ (2021).

Overall, there was an effort at national level to be as diverse as possible regarding the economic sectors. As Figure 5 reflects, great diversity was achieved regarding the companies' size but rather moderate diversity regarding economic sectors. Nevertheless, the most dominant sectors such as agriculture, tourism, telecommunications, electronics and automotives are represented (see Annex 2).

Each VET school engaged at least one company resulting in 18 companies from seven different regions (see Figure 3). Initially, it had been planned to have companies' representatives signing a Memorandum of Understanding. Given the feedback received by the national coordinator regarding the challenges the process of having companies signing this document would represent, and the wish of VET schools to take responsibility for the management of the communication and relationship with the companies engaged in the SELFIE WBL pilot, the EfVET decided not to proceed with this formalisation on the basis that it was not needed, and it was adding an unnecessary administrative burden.

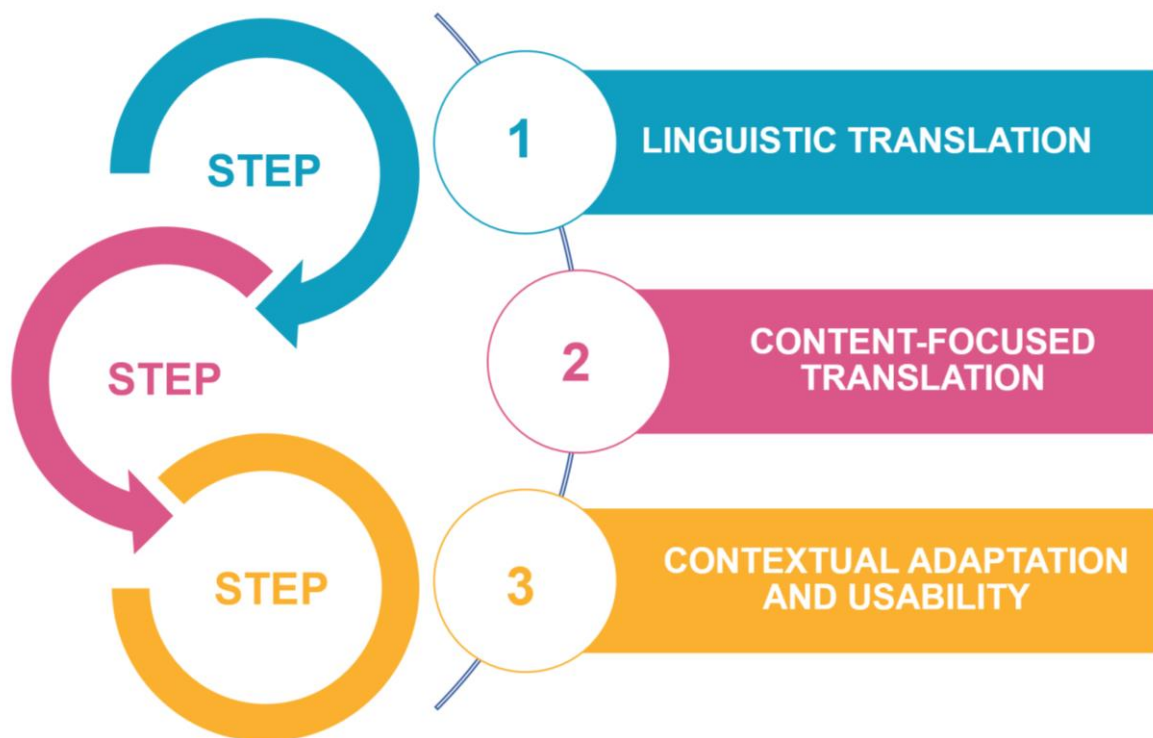
3.2 Methodology for translating and adapting SELFIE materials

The translation and adjustment of SELFIE WBL consisted of 3 main actions, namely: (1) linguistic translation, (2) content-focused translation and (3) contextual adaptation and usability. The first refers to the translation of the documents provided by the JRC and was carried out by an external company (Kern Lyon) and the national team from the SEPR. The second and third actions related to the translation were carried out simultaneously and brought together VET and WBL experts from three different VET schools.

The involvement of external VET and WBL experts was done to ensure that the language and the terminology used were clear and understandable by all those involved and in line with the official language and terminology used in the country.

The linguistic translation took place in the first 2 months of the project. There was an initial misunderstanding regarding the deadlines set for the different actions and some delays were observed in steps 2 and 3.

Figure 6. Translation process



Source: Skupnost VSŠ (2020).

4. Pilot implementation

The SELFIE WBL pilot was implemented in the following steps (see Figure 7).



Source: Skupnost VSŠ (2020).

Step 1) Translation of SELFIE WBL materials was completed from August to September 2020 (see Chapter 3.2 Methodology for translating and adapting SELFIE materials).

Step 2) Mobilisation of VET schools and companies took place from July to September 2020 (see Chapter 3.1 Methodology for selecting the pilot schools and companies).

Step 3) Selections of VET schools and companies were conducted from July to September 2020 (see Chapter 3.1 Methodology for selecting the pilot schools and companies) and the Memorandums of Understanding were signed with each selected VET school defining the roles and commitments of each VET school to formalise this cooperation after the selection in September 2020.

Step 4) A preparatory webinar was organised by the national coordinator to bring together all national stakeholders, the EfVET, JRC, European Commission as well as VET schools, companies and the research team on 14 September 2020. The main objective was to present the aim of the SELFIE WBL, provide an overview of implementation steps, school self-reflection report, personalised certificates and digital badges, schools' and companies' commitments and the timeline. Furthermore, feedback from each representative on possible concerns and expectations was discussed as well as the mapping of digital tools for WBL used in the country, schools and companies.

Step 5) Piloting of the SELFIE WBL self-reflection exercise began by VET schools registering with the SELFIE tool, planning the activation period, announcing the SELFIE WBL pilot within the school and among partner companies, motivating them to participate by explaining the benefits of their participation. When activating the SELFIE WBL self-reflection exercise, school coordinators monitored and reported the participation rate (40% of WBL learners, 40% of VET trainers and at least 1 in-company trainer) and further motivated and promoted the participation within the target groups needed. In-company trainers proved to be the most difficult to motivate as they are not in school and under the management of the school. The SELFIE WBL process took place from September until December 2020, and the feedback from the exercise is presented in Chapter 5.2 Quantitative results.

Step 6) A follow-up and guidance webinar was organised by the national coordinator addressing only VET schools and company representatives on 20 October 2020. The aim was to follow-up the piloting experience, gather initial feedback from school coordinators, address eventual challenges that may have arisen during the process, confirm the overall figures in terms of completion of the questionnaires and prepare school coordinators for the conducting of focus groups for learners and trainers and semi-structured interviews for school leaders and company representatives. The school coordinators were asked to provide feedback on their experience during the implementation process through the list of challenges provided by the research team. The research team also provided the guidelines and reporting templates for focus group implementation as well as the list of challenges to school coordinators, guidelines and reporting templates for semi-structured interview implementation to the national coordinator. The guidelines, report templates, and the list of challenges can be found in Annex 3.

Step 7) Focus groups were coordinated by school coordinators in November 2020 and January 2021. Two focus groups were organised per VET school: one with learners and one with teaching staff to reflect and discuss their interpretation and in-depth understanding of the relevant report results. Due to the COVID-19 pandemic, the school coordinators struggled to organise focus groups and reach the agreed participation rate of 10 learners/trainers per focus group (see Chapter 7. Implications of COVID-19). In total, 21 focus groups were organised involving 86 learners and 84 trainers. The feedback from the focus groups is integrated into Chapter 5.3 Qualitative results.

Step 8) In-depth semi-structured interviews were managed by national coordinators from November 2020 to February 2021. The aim was to conduct 16 interviews with 4 in-company trainers and decision-making staff in VET schools (4 pedagogical managers/directors, 4 sector heads/managers, 4 board heads/directors) to reflect and discuss their interpretation and in-depth understanding of the report results and to plan improvements based on those results. Interviews were conducted online. Due to the COVID-19

pandemic, the national coordinators struggled to engage in-company trainers (see Chapter 7. Implications of COVID-19). In total, 18 interviews were conducted involving 14 decision-making staff in VET schools and 4 in-company trainers. The feedback from the interviews is integrated into Chapter 5.3 Qualitative results.

Step 9) An evaluation webinar brought together all national stakeholders, the EfVET, JRC and the research team on 11 January 2021. The main purpose was to evaluate the experience, collect information and recommendations regarding the SELFIE WBL tool from policy-makers and other institutional representatives at national level, the opportunities they see for the broader use of the tool in the WBL sector and identify possible dissemination actions that could take place. The research team presented the preliminary results and discussed those with the participants. The feedback from the webinar is integrated into Chapter 5.3 Qualitative results.

Step 10) Quantitative and qualitative research was conducted simultaneously and upon the receipt of feedback from all above activities from September 2020 to February 2021. The research team prepared the quantitative analysis based on the results of the SELFIE WBL self-reflection exercise provided by the JRC and the qualitative analysis based on the feedback from focus groups (trainers and learners), semi-structured interviews (school leaders and in-company trainers), the list of challenges (school coordinators), the follow-up and evaluation webinars (for details see Chapter 5 Follow up – quantitative and qualitative analyses).

The timeline of the SELFIE WBL pilot was severely affected by the COVID-19 pandemic and the October 2020 terrorist attack in France, which delayed the implementation of focus groups, semi-structured interviews, the evaluation webinar and as a consequence the qualitative and quantitative research. It also affected participants' engagement (see Chapter 7. Implications of COVID-19).

5. Follow up – quantitative and qualitative analyses

5.1 Methodology

This project aimed to explore a broad scope of aspects of the SELFIE WBL tool to contribute to practice development and to improve the SELFIE WBL tool and its further development. To reach these aims and to increase the internal and external validity of the research results, the research design is based on the methodological triangulation of using several different methods. The research team and its project partners used this as an approach to integrate the quantitative and qualitative methodology. Therefore, the following methods and techniques were used (Majchrzak, 1990):

- analysis of primary sources – analysis of anonymised data provided by the JRC;
- analysis of secondary sources prepared by the JRC – 4 reports showing aggregated graphs of SELFIE WBL pilot data which were: ‘Participation’ (numerus and percentage according to different demographic variables), ‘Satisfaction’ (percentage and mean for values of overall score and further recommendations), ‘Main Areas’ (percentage of positive responses for area and each variable) and ‘Additional Information’ (percentage of answers);
- analysis of school reports generated by school coordinators involved in the SELFIE WBL pilot;
- semi-structured interview reports, involving 2 respondent groups (school leaders and in-company trainers) provided by the national coordinator;
- focus group reports, involving the 2 other respondent groups (trainers and learners).

The **quantitative data** were collected through the SELFIE WBL questionnaires, which were answered by school leaders, trainers, learners and in-company trainers. The SELFIE WBL tool provides state-of-the-art information as perceived by the respondent groups. Respondents were selected in a manner so that it is possible to make a representative conclusion (Ragin, 2007) at institutional level.

The quantitative results provide detailed information on the number of respondents, their distribution and the differences in the responses of the different groups (school leaders, teachers, students and in-company trainers).

We used univariate methods in this study. They are primarily intended to present the distribution of variables’ values; hence, the tables in Chapter 5.2 and Annex 6 display the number of values and additional statistics that we selected: mean (the average value) and standard deviation. In our database, the number of responses varied between the variables. When answering the questions for which the quantitative analysis is presented, the respondents had a help text and mostly answered on a 5-level scale with the additional option ‘prefer not to say’ or ‘not applicable’ (and in two cases on a 10-level scale, one question being for all respondent groups and another for two respondent groups). For some questions they had the possibility to select or not select the answer (multiple choice).

In the following quantitative part (see Chapter 5.2) we present frequency tables and descriptive statistics. The tables with descriptive statistics display:

- N = number of valid responses from the respondents
- mean (M) = the average value of the data points or numbers
- standard deviation (SD) = a measure of the dispersion of a dataset relative to its mean.

The **qualitative research** component of the SELFIE WBL pilot had a goal to collect feedback in view of improving the SELFIE WBL tool before it is launched online. The qualitative data were collected through desk research, feedback from school coordinators, focus groups and in-depth semi-structured interviews.

The main goal of the desk research was to map out existing similar self-reflection tools in the country used in WBL contexts and to identify other existing digital tools. This mapping and listing was done in two different ways: on the one hand, the research team conducted comprehensive online desk research on all official and available websites from governmental institutions responsible for overseeing WBL in the country; on the other hand, by collecting this information from the different respondent groups engaged in the pilot (see Annex 8).

Focus groups brought groups of people together with the main purpose of collecting feedback regarding the SELFIE WBL tool from the users' perspective. The proposal was to conduct two separate focus groups in each VET school, one with trainers involved in the pilot and the other with learners (each gathering 10 persons). The selection of the learners and trainers did not follow any criteria. The selection was left to the school coordinators according to the guidelines; they invited the first 10 trainers/learners who applied. Facilitators of focus groups were given guidelines (how to conduct focus groups, how and what to report) and templates for reporting the feedback from the focus groups (see Annex 3).

The qualitative research method of in-depth semi-structured interviews consisted in posing a series of open and closed questions to targeted individuals – i.e. pedagogical managers/directors, sector heads/managers, board heads/directors and in-company trainers – with the aim of gaining some insight regarding their perspective on the topic of digitalisation, their willingness to further explore SELFIE WBL and to integrate the tool into their current work, as well as gathering recommendations regarding possible ways to improve it (see Annex 3).

There were two open questions in SELFIE WBL for learners (digital technology they find useful for learning and ideas and suggestions to further improve SELFIE WBL). We analysed them using thematic analyses. Thematic analysis is a method for examining the content of responses from data collected from open-ended questions, focus group discussions or interviews. It allows emergent topics not explicitly stated in SELFIE WBL questions to be identified. It is based on organising key issues in data and grouping them under themes reflecting important relations in the research questions (Braun and Clarke, 2006). Results of the thematic analysis were included in the qualitative part of the report (see Annex 4).

The qualitative research method of analysis of school reports generated by school coordinators consists of gathering challenges, advantages of the implementation of SELFIE WBL and further feedback on the SELFIE WBL process from the perspective of school coordinators, who organised and monitored the SELFIE WBL process within their institutions. To collect feedback, a template was prepared and provided to the school coordinators (see Annex 3).

Data collection took place from September 2020 until February 2021. The analyses started in December 2020. All responses to the SELFIE WBL self-reflection exercise, focus groups, semi-structured interviews and analysis of school reports generated by school coordinators remained anonymous and separate from contact details to ensure confidentiality.

The outcomes of the pilot are not representative of the national education and training systems. However, they provide useful insights for schools and companies participating in the pilot and, overall, for schools and companies providing similar WBL programmes and belonging to the specific economic sectors covered by the pilot.

5.2 Quantitative results

Participants in the quantitative analysis were from 13 VET schools. There were 3 365 respondents in the database. The participation of school leaders, trainers, learners and in-company trainers was as follows:

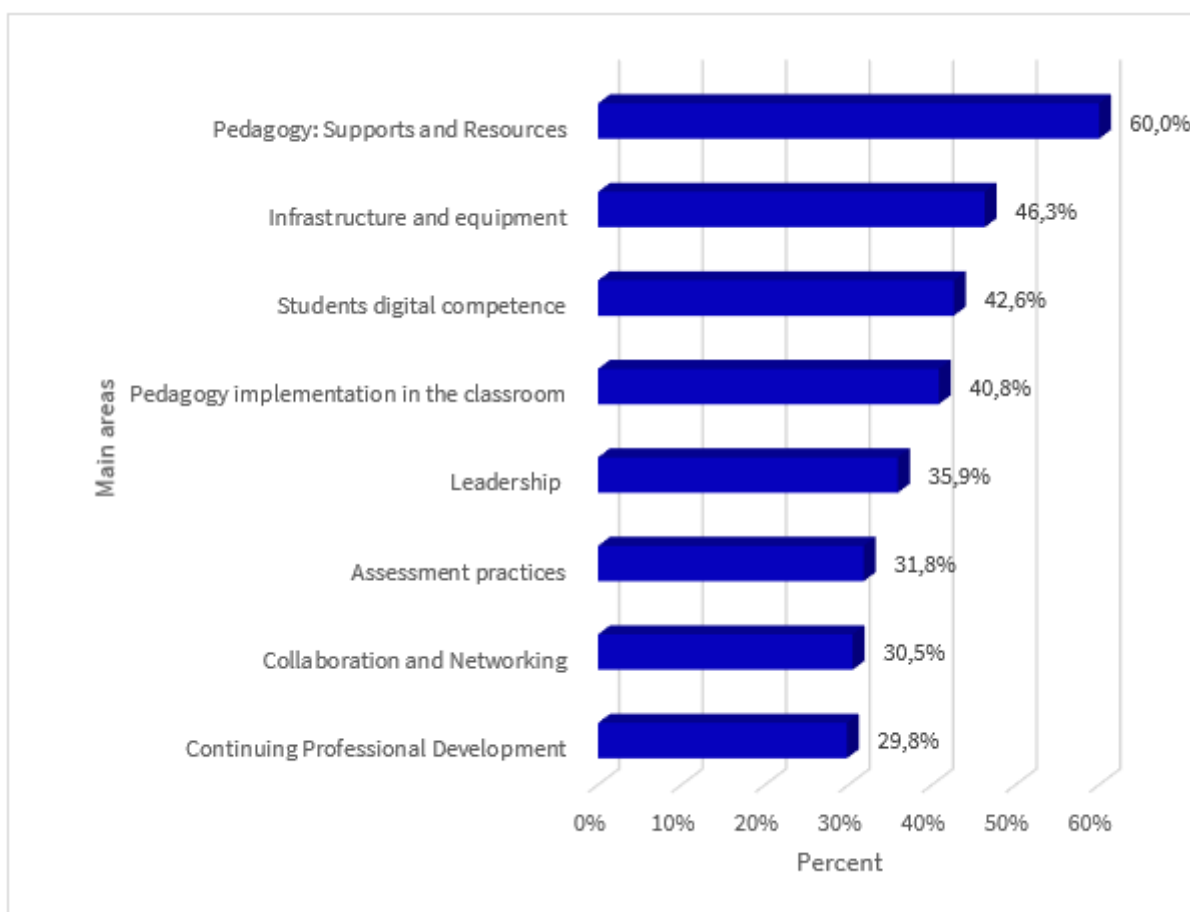
- 53 school leaders
- 262 trainers
- 3 033 learners
- 17 in-company trainers.

In the SELFIE WBL pilot, the sample of respondents from private schools prevails at 77.9%; 11.2% of respondents originated from public VET schools and 10.9% identified themselves as 'not applicable'. The respondents' sample is comparable to the national rate of public (20.5%) and private (79.5%) apprenticeship VET centres in France (Ministry of Education, 2019).

53% of respondents were from schools located in cities (100 001-1 000 000 inhabitants), 20.1% of respondents from towns (15 001-100 000 inhabitants), 7.9% of respondents from small towns (3 001-15 000 inhabitants), 7.8% from rural areas (1 000 inhabitants or fewer), 7.5% from large cities (more than 1 000 000 inhabitants) and 3.7% from villages (1 001-3 000 inhabitants).

The SELFIE WBL self-reflection questionnaire consists of eight areas scored on a 5-point Likert scale (1-5). Figure 8 displays the percentage of positive responses (i.e. responses on 4 and 5) by main areas. The most positive responses are in the area 'Pedagogy – Supports and resources' (60.0%), which is followed by the area 'Infrastructure and equipment' (46.3%) and 'Students' digital competence' (42.6%). On the other hand, the least positive responses from the respondents are seen in the area 'Continuing professional development' (29.8%).

Figure 8. Percentage of positive responses by area



Source: European Commission (2020). SELFIE database, special extraction for SELFIE WBL national coordinators.

Table 1 displays average values for main areas per respondent group. The number of questions in the areas differ between the respondent groups.

There are some differences in the areas in which different respondent groups rated the highest. The area with the highest mean in the group of school leaders and in-company trainers is 'Infrastructure and networking' (M=3.7 for both groups). Trainers and learners rated 'Pedagogy – Supports and resources' the highest (trainers M=4.3, learners M=3.6). The lowest mean is in the area 'Assessment practices' for all groups (school leaders M=2.6, trainers M=2.7, learners M=2.8 and in-company trainers M=2.5).

Average values per respondent groups for all variables are the highest for school leaders (3.3) and the lowest for trainers (3.1).

Table 1. Descriptive statistics for main areas per respondent group

Main area	School leaders N=53		Trainers N=262		Learners N=2 789		In-company trainers N=17	
	M	SD	M	SD	M	SD	M	SD
Leadership	3.5	1.3	2.9	1.4	/	/	2.9	1.1
Collaboration and networking	3.2	1.1	2.8	1.3	2.8	1.4	3.3	1.1

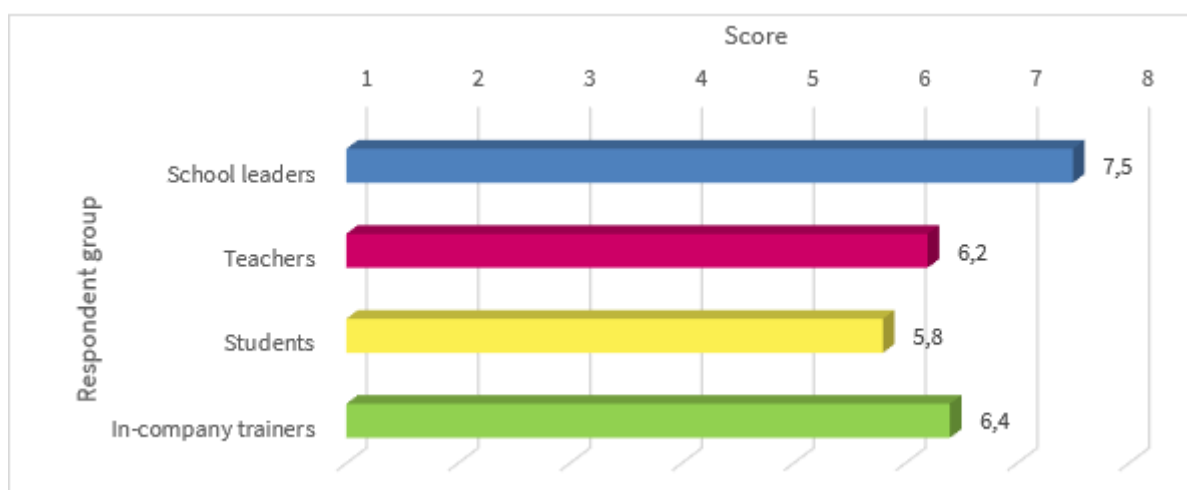
Infrastructure and equipment	3.7	1.2	3.3	1.3	3.2	1.6	3.7	1.2
Continuing professional development	3.4	1.2	3.0	1.8	/	/	2.8	1.3
Pedagogy – Supports and resources	3.6	0.9	3.7	1.3	3.6	1.4	2.6	1.3
Pedagogy implementation in the classroom	3.0	1.0	3.1	1.5	3.1	1.8	3.1	1.1
Assessment practices	2.6	1.0	2.7	1.5	2.8	1.5	2.5	1.4
Students' digital competence	3.2	0.9	3.0	1.4	3.1	1.6	3.3	2.8
All areas	3.3	1.1	3.1	1.6	3.1	1.6	3.1	1.3

Source: European Commission (2020). SELFIE database, special extraction for SELFIE WBL national coordinators.

Note: M=mean, SD=standard deviation; green: the highest score, grey: the lowest score.

Figure 9 displays means for overall satisfaction with SELFIE WBL on a 10-level scale per respondent group. The highest satisfaction is indicated by school leaders (7.5) and the lowest, yet still above the middle of the 10-level scale, is given by learners (5.8).

Figure 9. Mean overall score for overall satisfaction with SELFIE WBL per respondent group



Source: European Commission (2020). SELFIE database, special extraction for SELFIE WBL national coordinators.

The likelihood of further recommendation of the SELFIE WBL on a 5-level scale was the highest among school leaders (M=4.1) and the lowest among trainers (M=2.9) (see Table 5 in annex 6). The percentage of positive responses ('Very likely' and 'Extremely likely') in the group of school leaders was 84.9%. On the other hand, the highest percentage of negative responses ('Not at all likely' and 'Not very likely') was given by trainers (22.1%). The percentage of answer 'Prefer not to say' was the highest among trainers (14.9%).

Learners and in-company trainers were asked about their opinion on the questions included in SELFIE WBL (see Table 3 in Annex 6). They rated the relevance of questions on a 10-level scale. Learners' average score is low (M=5.4); in-company trainers rated questions a little higher (M=6.1).

The SELFIE WBL self-reflection exercise also included questions about respondents. Trainers indicated the usefulness of 'Continuing professional development' (CPD) activities on the pedagogical use of digital technologies. The percentage of positive responses (i.e. responses on 4 and 5) was the highest for 'Learning through collaborating' (57.2%), followed by 'Other in-house training' (56.8%) and 'Online professional learning' (56.2%). 'Study visit' was chosen with the lowest percentage (31.3%). The answer 'Did not participate' was most often used for 'Study visits' (68.3%).

Trainers and in-company trainers were also asked about their confidence in the use of digital technologies⁴. Trainers (73.2% positive responses) and in-company trainers (62.5%) feel the most confident in using technology for 'preparing lessons'. Trainers (56.4%) and in-company trainers (52.9%) are least confident in using digital technology for 'Feedback and support'.

Trainers and in-company trainers also answered the question 'For what percentage of teaching/training time have you used digital technologies in class in the past 3 months?'⁵. They had five possible answers. The highest percentage of trainers (21.4%) chose answer '11-25%' and the highest percentage of in-company trainers (64.7%) chose answer '0-10%'. 37.2% trainers and only 6.3% of in-company trainers chose answer '51-75%' or '76-100%'.

The learners reported that they most frequently used technology in and outside of school for fun (76.4%). Most of them had access to technology outside the school (62.2%). Only 27.9% report using technology at home for school.

Answers to the question 'Is teaching/training with digital technologies in your school/company negatively affected by the following factors?'⁶ displays some differences in the evaluation of factors. School leaders rated 'Low digital competence of teachers' (21.1%) and trainers 'Lack of funding' (18.4%) as the most influential negative factors, and in-company trainers 'Lack of time for trainers' (30.8%). The negative factor that all school leaders (3.5%) and trainers (5.7%) rated lowest is 'Limited or no technical support'. Three factors are least effective according to in-company trainers ('Lack of funding', 'Unreliable or slow internet connection' and 'Low digital competence of students') with 5.1%.

Answers to the question 'Is remote teaching and learning/training with digital technology negatively affected by the following factors?'⁷ display that remote teaching and learning is most often negatively affected by 'Limited student access to digital devices' (school leaders 19.7%, trainers 19.7% and 24.3% in-company trainers) and 'Limited student access to reliable internet connection' (school leaders 20.8%, trainers 16.3% and in-company trainers 13.5%). In-company trainers rated 'Trainers lacking time to develop material for remote training' as the second most negative factor (19.9%).

The percentage of chosen positive factors for remote teaching, learning or training⁸ displays agreement between groups. The most positive factor is 'Teachers collaborating within the school on digital technology use and creation of resources' (school leaders 16.1%, trainers 17.5%) and 'Trainers collaborating within the company on digital technology use and creation of resources' (in-company trainers 17.1%).

⁴ Trainers responded to the question regarding the situation in their school (teaching), in-company trainers regarding the situation in their company (training).

⁵ Answers: 0-10%; 11-25%; 26-50%; 51-75%; 76-100%; Prefer not to say.

⁶ School leaders and trainers responded to the question regarding the situation in their school (trainers), in-company trainers regarding the situation in their company (in-company trainers).

⁷ School leaders and trainers responded to the question regarding the situation at their school (trainers, teaching), in-company trainers regarding the situation in their company (in-company trainers, training).

⁸ School leaders and trainers responded to the question regarding the situation in their school and teaching, in-company trainers regarding the situation in their company and training.

For more information on figures, tables and data, see Annex 6.

5.3 Qualitative results

Thirteen pilot schools were included in the qualitative part of the SELFIE WBL pilot in France. The qualitative analysis was based on feedback from 21 focus groups, 18 semi-structured interviews, 13 school reports, the final evaluation webinar, constant communication (emails, zoom calls) with national coordinators as well as answers to open questions in the SELFIE WBL self-reflection exercise (see Chapter 5.2 Quantitative results). Focus groups, in which 84 trainers and 86 learners participated, were moderated by national coordinators. The latter also conducted 18 semi-structured interviews with stakeholders: 14 with school leaders and 4 with in-company trainers (see Table 2). Additionally, we received 4 reports of school coordinators identifying advantages of and positive reflections on the SELFIE WBL tool, but also challenges and possible improvements.

The COVID-19 pandemic influenced and disturbed the process as lockdown made it hard to reach out to participants. School leaders believe that deviations in answers were caused by the fact that the SELFIE WBL pilot was conducted during the lockdown in France, which forced trainers and learners to implement distance learning. Consequently, some participants, especially trainers, are worried and wonder what their job will look like in the near future. Moreover, school coordinators also mention an impact of terrorist attacks (teacher Samuel Paty was beheaded) on learners and their fear of returning to the school.

Based on the results of the SELFIE WBL self-reflection exercise, it was not possible to determine, by deviation, the best and worst performing school as the results were quite similar or differed only in individual parameters. Therefore, we decided to present the results of all schools covered as study cases in this qualitative part.

Table 2. Number of learners, trainers, school leaders, in-company trainers and school coordinators involved in the qualitative analysis

School	Focus groups with learners	Focus groups with trainers	Semi-structured interviews with school leaders	Semi-structured interviews with in-company trainers	School coordinators (list of challenges)
School 1	10	5	1	1	
School 2	7	3	1	1	
School 3	11	10	1		1
School 4	5	6	1		
School 5			1		
School 6	5	6	1		1
School 7	10	9	1		
School 8		10	1		
School 9	11	12	2	1	1
School 10	11	9	2		

School 11	8	7	1	1	1
School 12			1		
School 13					
School 14					
School 15	8	7			
TOTAL	86	84	14	4	4

Source: Own analysis.

For details on focus groups, semi-structured interviews and challenges, see Annex 3.

5.3.1 Initial motivation from participants

Learners were generally happy to be consulted and understood the importance of results to see where they stand in the use of digital technologies. It is difficult to comment on learners' **expectations**, as trainers and school leaders asked them to fill out the SELFIE WBL survey. Almost half of learners did not receive clear information on survey objectives and goals, which had a negative impact. They would welcome a meeting before filling out the SELFIE WBL survey to be better prepared.

Likewise, **trainers** participated because their school leaders asked them to, although some were glad to be consulted and saw the SELFIE WBL self-reflexion exercise important for the future. Trainers' prior expectations were primarily to gain an overview of established practices, an overview of the digital 'situation' in their school and to improve the use of digital tools and practices. The SELFIE WBL pilot was therefore seen as a way to meet these expectations and move forward together to improve teaching practices.

On the other hand, **school leaders** expected to see how the use of digital technology for teaching and learning was running in other VET schools (and abroad), to share good practices and experiences with peers (at national and European level) and to benefit from an overview of their use of digital practices.

In-company trainers also expected to identify, better understand and learn new teaching methods at national and European level.

Some participants could not imagine that such tools exist and see the added value of the SELFIE WBL in the inclusion of multiple stakeholders, especially learners. What participants would like to see is how the survey results will be processed and used for future improvements at school level.

5.3.2 Strengths and weaknesses of the SELFIE WBL tool

Participants filled out the SELFIE WBL tool on various devices (computers, smartphones and tablets). Generally, they did not report technical problems when connecting and completing the questionnaire. What **works particularly well** is that participants are able to complete the survey on their smartphones, especially since many learners do not own a personal computer.

Participants further mention that the SELFIE WBL **tool** is easy to understand, complete, allows smooth navigation and has an advantage of being anonymous. The 'help text' feature is useful to help participants understand more complex questions. The SELFIE WBL self-reflection exercise is a good basis for an inventory – opening the debate, provoking internal exchanges and opening up a dialogue between trainers, learners, in-company trainers and the school leaders on the use of digital technology for teaching and learning. As such, it has a unifying effect. Moreover, the SELFIE WBL report offers school leaders an overview of strengths and weaknesses in the use of digital technologies.

On the other hand, some questions are too general and lack details according to participants⁹. Some trainers believe the current assessment scale (1-5) directs the participant to choose option 3 in case of a doubt and does not require that participants clearly express their position. That could also explain the survey results around the median. For more precision, they propose a Likert scale from 0 to 10. A group of learners wished that the interface of the SELFIE WBL tool was more dynamic and modern.

⁹ The participants were asked to provide concrete details of such questions, but they could not indicate them.

The participants also had some **recommendations** to improve the **SELFIE WBL tool**:

- since some learners do not own a computer or smartphone, it would also be good to have a 'paper questionnaire' enabling equal opportunities for all learners;
- clearly differentiate the questions for teachers of general subjects and for trainers of vocational/professional subjects. One group cannot answer the questions related to the other group and vice versa;
- add an option of providing a descriptive answer, allowing participants to explain their given answer. If a participant disagrees with the statement, there should be an option to justify and clarify their choice.

5.3.3 Questionnaire, content and SELFIE WBL report

The **SELFIE WBL survey** is seen as comprehensive. Learners and trainers envisage that no other topic or question shall be added to the questionnaire. On the other hand, school leaders suggested that questions regarding blended learning should be included in the survey as **an independent additional section**. Participants (around half of learners and trainers) find the SELFIE WBL self-reflection exercise too long. Some of them would rather at least half the number of questions, which would – according to them – make the survey results more meaningful as people would not lose focus during the self-reflection exercise. Furthermore, participants had the feeling that the questions were redundant and that they were filling out 'the same thing twice'.

A minority group of learners mention that questions are not always easy to understand and that they would not be able to complete the questionnaire without explanation from the trainers. Their trainers confirm that questions are often complex, terminology and vocabulary difficult and in parts not appropriate for learners. Each of the six trainers and school leaders think the translation and the vocabulary used were not adapted to the apprenticeship system. A few learners, trainers and school leaders reveal that some statements are not clear enough and it is not always easy to understand to which topic they relate. Hence, participants believe the questions and the questionnaire should be shorter and the vocabulary simple.

It was difficult for some school leaders to understand and interpret the **SELFIE WBL school report** with all the figures and bars. They claim that the averages are not so relevant and do not mean much when presenting the survey results to the colleagues. It takes time to go deeper into each question or statement and really understand the answers. There are some learners who have the impression that school leaders overestimated the equipment they have at the school ('or maybe they have it, but learners cannot see it'). A few trainers also believe some averages are overestimated.

5.3.4 Current and future use of SELFIE WBL

Learners and trainers have generally not seen the SELFIE WBL school report yet but are very interested to see the results and the actions that will follow. Their main expectation is to use conclusions and findings from the report. For some school leaders, the SELFIE WBL pilot occurred at the right moment as they wanted to write a digital strategy but had no specific tools to do so. Therefore, some school leaders plan to distribute the SELFIE WBL school report to co-workers in order to identify the problems and jointly determine the action plan. Some schools already have digital strategies formalised and written, and a separate digital committee that assesses the strategy in order to continuously improve it. Some schools regularly review their strategies; thus, the SELFIE WBL report will be taken into consideration when discussing digital transformation. However, school leaders admit the resources allocated for these improvements are not yet sufficient.

On the other hand, the questions and statements in the SELFIE WBL tool made trainers reflect on their practice and subsequently (revealed) their training needs. While they did not expect much at the beginning,

they hoped for an evolution in the **future**. Based on the **SELFIE WBL results**, school leaders anticipate awareness-raising regarding the lack of digital tools for learners and trainers at the school. For some schools, the results highlighted a need to upgrade the skills of trainers and other employees (e.g. contract staff). Therefore, several school leaders state training of trainers (e.g. basic software) and learners (e.g. use of social networks, digital tools and data exchange) as their priority. They are aware that the following steps will not always be easy as some participants will have to step out of their comfort zones. One school leader has already contacted the project manager regarding digital training, while other school leaders proposed 10 concrete actions that will be implemented in the short and medium term (e.g. trainer training, use of tools, support for learners, improved internet speed). Another school leader decided to elect three digital delegates (representative of learners, trainers and companies) to identify the needs and report to them directly without an intermediary. Like other school leaders, they believe the lack of dialogue between the school and companies could also be improved thanks to digital technology.

Several trainers and school leaders would like to know how they compare to other schools with some sort of ranking. Moreover, they would like to share practical information and good practices with other schools at national and European level, and benefit from advice on important levers as well as pitfalls and dangers to avoid.

The digital transformation of schools and companies is seen as an effective way to better respond to the specificities of the most vulnerable and can therefore lead to better employability. Nevertheless, many school leaders point out that remote learning can broaden inequalities between learners as they do not have a comparable level of equipment and work environment. In addition, the dropout rate seems to be increasing with the transition to remote learning. In this regard, one school leader provides in-class teaching at least once a week, so that the 'social link' makes it possible to avoid dropping out of school.

5.4 Overall findings

This chapter presents reflections and main findings from the pilot, gathered from both quantitative and qualitative analyses and the reflections from the participants.

School coordinators confirm that school **registration process** was considered very easy and clear, but they admit they had to go through and read the instructions very carefully. For some, the number of learners and trainers they have to insert upon registration in SELFIE WBL pilot was not clear: 40% (the expected respondent rate) or 100% (the total number of learners and trainers at the VET school) of learners and trainers. Namely, upon registration some schools entered 40% of learners and trainers which resulted in respondent rates of over 100%. Additional confusion was whether to include 40% of all learners or 40% of WBL learners. Furthermore, there was a difference between the recommendations written in the SELFIE WBL tool where it is recommended to reach 20-30% of the learner population, and the recommendations of the SELFIE WBL pilot where the percentage was set at 40%.

Inputting the school and company data was also easy to understand. One school coordinator had a problem in that the link was not generated for in-company trainers (for trainers, learners and school leaders it was), so they could not ask them to fill out the SELFIE WBL survey. Other school coordinators did not report problems when **generating links** and claimed that it was very easy. Even though they believe that the SELFIE WBL is already very complete, some school coordinators decided to add two questions for the learners and two questions for the trainers in order to focus more on topics important to their school.

Customising the surveys (i.e. adding the questions) was easy. However, school coordinators recommend adding the 'help text' here as well, to make sure everybody understands the question. Additionally, schools have problems with the limit of the 3-week timeslot for the SELFIE WBL survey, because learners are out of

school at the company for 2 or 3 weeks, so the school cannot reach them. If VET learners are not at school, they do not tend to answer emails and are unreachable.

School coordinators report several problems when **reaching out to participants and motivating them** to fill out the SELFIE WBL survey. The four biggest barriers were holidays, start of the new school year, the terrorist attack in France and the COVID-19 pandemic. Due to the summer holidays, there was not enough time for prior information and promotion of the SELFIE WBL. Some VET schools were closed during last week of October as it was the autumn holidays, so they only had 2 weeks to pilot SELFIE WBL. The COVID-19 pandemic brought ordinances with restrictions and a shift in priorities to solve the COVID-19 situation, so the SELFIE WBL pilot was no longer seen as a priority. Considering these circumstances, participants felt under pressure which could have influenced the overall data gathered. Moreover, spending additional time on SELFIE WBL in such circumstances might have led to participants' demotivation and even potential funding would likely not have helped in motivating them. The trainers and learners saw SELFIE WBL as an additional burden in difficult times when the focus was on how to start remote learning. Although the trainers were happy to be asked and to give their opinion, they were mostly focused on how to deal with the COVID-19 crisis and remote learning. On the contrary, the SELFIE WBL pilot came 'at the right time' for the management of the schools. School leaders were therefore **motivated**, convinced by the interest in having a state-of-the-art school digital practices, and saw the added-value of the SELFIE WBL and its process.

School coordinators organised meetings to explain to learners and trainers the aim of SELFIE WBL and its importance regarding schools' digital strategy and practices. While learners were very glad and interested in giving their opinion, it was later shown that the explanation was not so clear for everyone. Moreover, it is difficult for school coordinators to reach learners when they are not in the classrooms, as not all learners have (adequate) equipment at home.

Due to the lockdown, there was also a problem for school coordinators to include companies. School coordinators did not manage to get in contact with all in-company trainers to ask them to fill out the survey. Additionally, in-company trainers had to be reminded several times to fill out the survey. **Monitoring participants** was very time-consuming for school coordinators, but it was not difficult to follow and monitor the participation rates. Some school coordinators were monitoring the completion rate daily and were regularly sending emails to trainers, school leaders and the pedagogical team to encourage the participants. Other school coordinators went to the classrooms to meet the learners and motivate them.

Participants find the **SELFIE WBL school report** in PDF very useful and exhaustive. It opens up new perspectives like the necessity to improve learners' and trainers' digital skills and the need to help and train the trainers who do not feel comfortable enough. The report is furthermore described as clear, instructive, informative and a good starting point for discussion with all stakeholders (learners, trainers, management team and companies). Participants agree that the SELFIE WBL tool generally highlighted strengths and weaknesses and is a relevant basis for schools to introduce their digital strategies. The divergent answers between trainers and school leaders are very informative as well, even if it is not so easy for school leaders to realise that something is not going as well as they expected. During the next SELFIE WBL exercise, they will add more questions to get more precise information from respondents.

There was also a consensus within schools on the stimulative role of **personalised certificates and digital badges**. School coordinators do not report problems regarding personalised certificates and open badges. **Certificates** were downloaded in volumes; all trainers in particular have downloaded their participation certificates according to school coordinators. Some schools have already downloaded **open badge** and they are going to insert it in their electronic signature. Others have not done it yet but are also planning to insert the badge in their digital signature, on their school website and on their social networks.

Participants mostly praised the **SELFIE WBL tool** as being very **useful** and would recommend it as a powerful self-reflection tool to all schools that need their digital practices to be state-of-the-art. One very

positive aspect of the SELFIE WBL tool is that they can use it again and thus assess their progress. Some school coordinators report that they have to discuss the usefulness of the SELFIE WBL with the companies as well (they could not do it yet as companies are currently closed due to the COVID-19 situation).

As a result of the SELFIE WBL report, some school leaders decided to invest in new equipment and infrastructure; they are planning training modules on basic digital skills for learners and trainers and beginning to introduce their digital strategy. According to many participants, the challenge of the SELFIE WBL remains to include a comparison component between schools.

There was a question mark around the usefulness of the SELFIE WBL tool for small schools (e.g. less than 50 learners) that are very specific and have their own specialities. In such schools, discussion and open conversation with learners might be better than the survey.

Participants see the SELFIE WBL as an approach quite similar to the quality approach advocated by QUALIOP1¹⁰. Schools are audited in order to get the national QUALIOP1 certification, which certifies that a school complies with quality processes implemented and thus receives public funds. As such, the SELFIE WBL tool could serve as a basis in discussion with decision-makers who are financing schools, bearing in mind that after all it is a self-reflection tool, not an auditing tool. Moreover, the SELFIE WBL report is very useful for schools as both the SELFIE WBL and QUALIOP1 are continuous improvement processes. In that sense, the SELFIE WBL could be the 'armed wing' of schools' digital policy, rather than its redundancy.

The SELFIE WBL tool is a good basis for the start of this **ecosystem**. While SELFIE WBL already provides many things, more is needed. Participants (school leaders, trainers, in-company trainers) would like to integrate SELFIE WBL into other national initiatives and processes that already exist. They would also appreciate direct links with other schools to share practical information, good practices and create partnerships in technology-enhanced learning. What they would particularly like to know is what kind of experiments (in the use of digital technologies) have been implemented, what works and what does not. Based on that, they would ideally like to start new projects, also with other European partners.

¹⁰ QUALIOP1 is quality certification for training providers (la Certification des Organismes de Formation).

6. Lessons learnt and suggestions for future development

The SELFIE WBL pilot strengthens the opinion that it is absolutely necessary to involve trainers and learners in such self-reflection exercises because they have many things to say, ideas to bring forward and can help gain better results. Besides, people are willing to give their opinion, participate in writing the strategy and like to feel integrated in the school community. Hence, participants believe that the SELFIE WBL pilot confirms that the more you involve your staff and school community, the more relevant the work done will be.

Schools have problems with the 3-week timeslot for the SELFIE WBL survey, because learners are out of school at the company for 2 or 3 weeks, so the school cannot reach them. VET specifics shall be acknowledged: VET learners are not like high-school students as they come to VET school only around once a month (depending on their study), which is a crucial aspect to take into consideration. Additionally, the COVID-19 pandemic influenced the **process** because learners were even less present at their VET school than usual. It is very time-consuming to motivate participants each week and it was also stressful because the SELFIE WBL pilot took place during the second lockdown and the priority of the school leaders and the trainers was to organise remote learning and deal with the pandemic. Some learners also suggest that SELFIE WBL should take place later in the school year, rather than at the very beginning.

Generally, participants had no problems and/or technical issues with **SELFIE WBL**. It was very practical for them to be able to complete the questionnaire online, either on a smartphone or personal computer. They mostly stated smooth and easy navigation, the importance of 'help text' to better understand the question and the fact that SELFIE WBL offers a good basis for opening up the debate and internal exchanges of opinion regarding the use of digital technology for teaching and learning. The fact that SELFIE WBL also includes companies and considers the opinion of the learners is a positive point, as is its anonymity.

Some participants propose the 'save function' when filling out the survey, having the option to save and return to the previous page without having to re-enter all the answers¹¹. Some learners also reported to the school coordinator that they could not activate the link on their smartphone, so they had to come to the school's library and use a computer. A school coordinator further mentions a problem of 'a need to disconnect before leaving the page, otherwise you have to wait 12 to 24 hours to be able to connect again'¹². There were also some comments regarding the scale. The current scale from 1 to 5 is not optimal because when participants did not know what to answer, they chose 3. They suggest it would be more useful to have a scale from 1 to 4, because it stimulates the participant to take a stand.

Participants lack an option to compare with other schools at a national and European level. They would also like an option to add a descriptive answer, allowing participants to comment on their choice (especially where they disagree with the statement). As the texts in the drop-down menus are not fully visible on mobile devices, the learners propose that the SELFIE WBL tool to adopt non-uniform memory access (NUMA) to enable access to all the data¹³.

The participants find the **content** of the SELFIE WBL survey exhaustive and complete. The majority would not add any topic or question. The majority also did not have any problem understanding the questions. On the other hand, participants believe the questions and the questionnaire should be shorter and less repetitive. They believe the SELFIE WBL questionnaire is too long at the moment, especially for learners. They report a feeling of many similar questions. Moreover, the questions are sometimes too general and lack details (e.g.

¹¹ It shall be noted that the SELFIE team has long been aware of this issue which is technically currently not possible to solve and at the same time still safeguard anonymity.

¹² Unfortunately, we did not receive more information on the problem.

¹³ NUMA (non-uniform memory access) is a method of configuring a cluster of microprocessors in a multiprocessing system so that they can share memory locally, improving performance and the ability of the system to be expanded. The suggestion was identified when analysing answers in the database, received by the JRC.

two school leaders understood the same question differently). Each of the six trainers and school leader think that the translation and the vocabulary used were not adapted to the French national apprenticeship context¹⁴.

Trainers who teach vocational/professional school subjects would have liked the SELFIE WBL to focus more precisely on their subject, as they felt the SELFIE WBL is a bit too general. Some participants suggest adding new topics, i.e. prevention of digital addiction, social media, dark side of technology, well-being of learners and online assessment of learners.

Participants predominantly believe that the **SELFIE WBL school report** is a great way to see their strengths and weaknesses and, on that basis, improve their practices. Results are encouraging, informative and can also be surprising for some stakeholders. In some schools, surprising results led to interesting discussions at collective meetings where participants could debate the divergence of opinions. For some school leaders, it was not very easy to understand and interpret the SELFIE WBL school report with all the figures and charts. They claim charts without explanations are not always useful. Some participants also state that survey results in the report are generally median (due to the 1-5 scale, see also explanation above), which does not mean much. These 'average scores' disable clear decision-making. What is also missing from the report is an option to compare themselves with other VET schools to see where they stand.

School coordinators indicate that the certificates were downloaded in volumes. Other than that, participants did not comment on **features of SELFIE WBL** (badge and certificate) or any possible suggestion for other features.

School coordinators state that **data** were clearer and better understood when discussed during the focus groups. Data comprised no unexpected results; they rather confirmed participants' thoughts that the state of the art was as they expected. In some schools, results highlighted divergences between school leaders and trainers, and this allowed them to reflect on why the results differed so much.

According to participants, SELFIE WBL represents an added value to better identify the directions to take, seek funding and support schools. The survey results are generally considered interesting. For some school leaders the results will act as a springboard for a (digital) strategy. Others are already discussing the best ways to use the SELFIE WBL school report and are setting up a digital committee, involving trainers and companies (in some cases also learners).

One very positive aspect of the SELFIE WBL tool is that it can be used again and thus assess a school's progress. But trainers would also like support in concrete examples of uses of tools in other schools. Furthermore, trainers would like to discuss the report with other schools, create partnerships and share practical information with them.

¹⁴ The participants were asked to provide concrete details of questions with spelling errors and outdated vocabulary, but they could not indicate specific items, words or questions.

7. Implications of the COVID-19 pandemic

Before the COVID-19 crisis, schools generally did not have a common strategy for using technology for teaching and learning. It depended on the trainer's sensibility and ability to use digital tools, but it was not officially formalised. The situation was heterogeneous¹⁵, and even the use of smartphones during the courses for pedagogical purposes was a source of conflict. However, the COVID-19 crisis has been a real accelerator to initiate the digital approach¹⁶. The lockdown made people realise that they have to adapt extremely quickly and move forward even faster.

During the COVID-19 crisis, some schools could not have learners in the classroom and all courses had to be done remotely. It highlighted the fact that there is a lot of disparity regarding digital practices between trainers and between learners within the same school. Trainers in particular had to adapt themselves to digital tools. The situation and implementation of remote learning was (is) very disturbing for the trainers who have to change their way of teaching. In some schools, a multimedia library played a key role to demonstrate to trainers how to use digital tools, and meetings were organised to share good practices among trainers. Some schools also implemented a training module to give learners basic digital knowledge. They also had hybrid training and projects for teaching and learning, fostered teamwork to improve practices and offered a strong digital service. Other schools are searching for tools and methodologies to share all of these experiences, while some, thanks to the SELFIE WBL report, are starting to write their own digital strategy. Some schools are going to buy computers that will be lent to learners who do not have any and who cannot afford to buy one¹⁷. They are also planning to set up a databank with both free digital resources they can use and specific resources they would like to create and will be adapted to their own school subjects.

At the moment, some schools do approximately 70% remote teaching and are constantly implementing and updating digital resources. They feel remote learning has its limits as participants report more work (overload) because of remote teaching and learning. Because of the COVID-19 crisis, remote teaching and learning will probably remain for some time in the future. There is still a very important discussion on how to deal with it and how to balance all of these experiences. For some, blended learning will become a standard, while others would like to take a step back as they were forced to rush into it during the crisis.

¹⁵ To some extent it still is as learners (and trainers) state that there are a lot of different tools, which causes confusion and problems.

¹⁶ According to participants, other accelerators were the 2018 vocational training reform in France and the QUALIOPI certification, which support distance learning.

¹⁷ More schools report that there is significant economic and social disparity in access to digital technologies (computer equipment, internet, etc.) as well as in the handling of the digital tools by learners.

8. Conclusions and recommendations

The SELFIE WBL pilot came at the right time, as the SELFIE WBL school reports highlight the strengths and areas for improvement. Participants believe the advantage of the SELFIE WBL tool is that it opens up the discussion between stakeholders (also trainers and learners). It was very interesting to see that trainers and learners felt very concerned, are generally very interested to know the SELFIE WBL results and would like to further explore the use of digital technologies. However, they do not want to get involved in the SELFIE WBL tool in the future unless they see a considerable improvement at their school based on these results.

Participants are also interested in the SELFIE WBL results from other countries. The majority expressed their interest in having a global reflection involving learners, companies and school leaders. More than ever, they remain interested in comparing the results, exchanging good practices with other schools (and countries), receiving regular updates on each other's practices and proposing learners' meetings to discuss the use of digital technologies. In that sense, learners could be 'digital ambassadors'.

One of the findings of the SELFIE WBL school report is that trainers need to be better skilled to use digital technology for teaching and learning. On this basis, some schools will organise trainer training. Despite the urgency felt, the idea is not to go too fast and not to skip steps. Maybe they will focus on a few issues at the time, as involvement in SELFIE WBL can be seen as a long-term activity including follow-up meetings, actions taken based on the results and a SELFIE WBL self-reflection exercise over the years. For now, schools are discovering SELFIE WBL and are learning to use it.

Recommendations

- SELFIE WBL shall have fewer and shorter questions.
- SELFIE WBL shall allow benchmarking – school leaders and trainers want to compare themselves with other schools in France and other countries and see where they are positioned.
- SELFIE WBL shall enable the possibility of networking with other schools in France (and other countries) to compare practices, methods and tools used, share examples and have regular updates.
- SELFIE WBL shall be more adapted to professions, because the differences in studies and practices cannot be highlighted in the current SELFIE WBL (e.g. digital needs are very different for professions such as florist, computer scientist, car mechanic).
- Customising the surveys in the SELFIE WBL (adding the questions) is easy, but schools did not realise the possibility of adding a help text to their own questions and statements as well to make sure everybody understands the question. This should be made clearer in the guidelines.
- SELFIE WBL shall have an option to also provide a descriptive answer, allowing participants to explain their given answer. If a participant disagrees with a statement, there should be an option to justify and clarify the decision.
- There shall be a short guide on the SELFIE WBL tool for learners, to help them understand the tool before they use it.
- The SELFIE WBL certificate/badge could also be integrated into the Europass Digital Credentials (digital file to store in a wallet in the Europass Library).

The results of the French pilot are very useful inputs for the SELFIE team in the finalisation of the tool and the questionnaires, which reviews all content and recommendations of all pilots in view of releasing an enhanced and final version to the public.

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List of abbreviations and definitions

ATC	Apprenticeship training centre
CEDEFOP	The European Centre for the Development of Vocational Training
CPD	Continuing professional development
CRCN	The Digital Competence Reference Framework
CVET	Continuing vocational education and training
DigComp	A framework for developing and understanding Digital Competence in Europe
EfVET	European Forum of Technical and Vocational Education and Training
EQF	European Qualifications Framework
ETF	European Training Foundation
ISCED	International Standard Classification of Education
IVET	Initial vocational education and training
JRC	Joint Research Centre, European Commission
N	Number of valid responses from the respondents
M	Mean - the average/central value of the data points or numbers
OPCO	Opérateur de Compétences
SD	Standard deviation – a measure of the dispersion of a dataset relative to its mean
SEPR	Société d'Enseignement Professionnelle du Rhône
Skupnost VSŠ	Skupnost višjih strokovnih šol Republike Slovenije / Association of Slovene Higher Vocational Colleges
SME	Small and medium-sized enterprises
STEM	Science, technology, engineering and mathematics
TEL	Technology-enhanced learning
VET	Vocational education and training
WBL	Work-based learning

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Annex 1. Key information on the WBL system

WORK-BASED LEARNING IN FRANCE

In France, apprenticeship training centres were created in 1971; 2 laws gave a legal and a financial framework to apprenticeships to make it a 'modern training pathway'. Since 1971, many important reforms have been implemented. In 1983, apprenticeships were transferred from national/state level to regional level. In 1987, a law stipulated that all qualification levels (from basic level to university level) are eligible for apprenticeships.

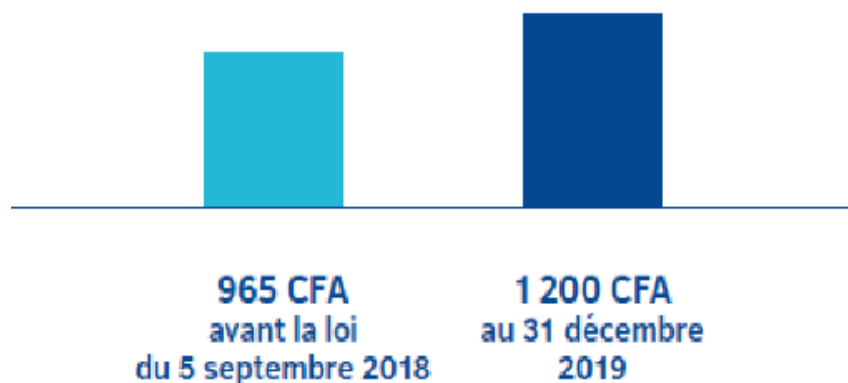
The latest key reform took place in 2018 (French Government, 2018), with two main goals:

- developing a training supply in apprenticeships;
- making apprenticeships more attractive for learners, families and companies and showing this training pathway as a reliable and excellent one.

This was a substantial reform as:

- new legal and financial rules were set up. The regional authorities are no longer responsible for financing apprenticeships. A new financial and governance system has been set up and new actors have emerged such as Opérateur de Compétences (OPCO)¹⁸;
- new opportunities were introduced for companies that lack a qualified workforce. Now they have the right to create their own apprenticeship training centre, without asking for any specific and previous authorisations on educational or administrative matters;
- apprenticeships are growing as people can sign an apprenticeship contract between the ages of 16 and 29 (vs 16 and 25 before 2018);
- the value of apprenticeships is reasserted through:
 - o increase in apprentices' wages;
 - o financial support for apprentices older than 18 who want to take their driving test;
 - o financial support for companies with less than 250 employees that sign an apprenticeship contract with a learner to prepare for a diploma for EQF levels up to 4.

Figure 10. Increase in number of training centres



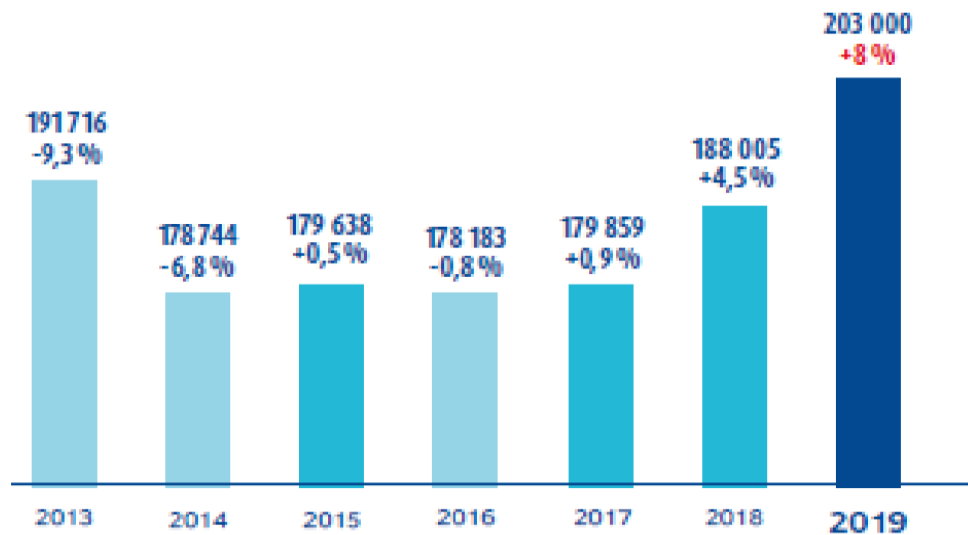
Source: Ministry of Labour (2020).

Figure 10 displays the increase in training centres before the reform in 2018 (with a total of 965 training centres and on 31 December of 2019 a total of 1 200 training centres).

¹⁸ OPCO = Opérateur de Compétences whose mission is to finance the apprenticeship and support the professional branches to set up their curricula and support SMEs defining their required training. More information at <https://www.francecompetences.fr/la-formation-professionnelle/qui-fait-quoi/>.

Apprenticeships strongly progress in France. Since 1990, the number of apprentices has more than doubled in France. In February 2020, there were 491 000 apprentices in France vs 220 000 in 1991. Figure 11 reflects the apprenticeship trend over the last 7 years and highlights the increase in apprenticeships at EQF Level 3 and Level 4. After the decline observed in 2013 (-9.3%) and 2014 (-6.8%), the number of learners who took the apprenticeship path and signed an apprenticeship contract rapidly increased in 2019 (+8% in comparison to 2018).

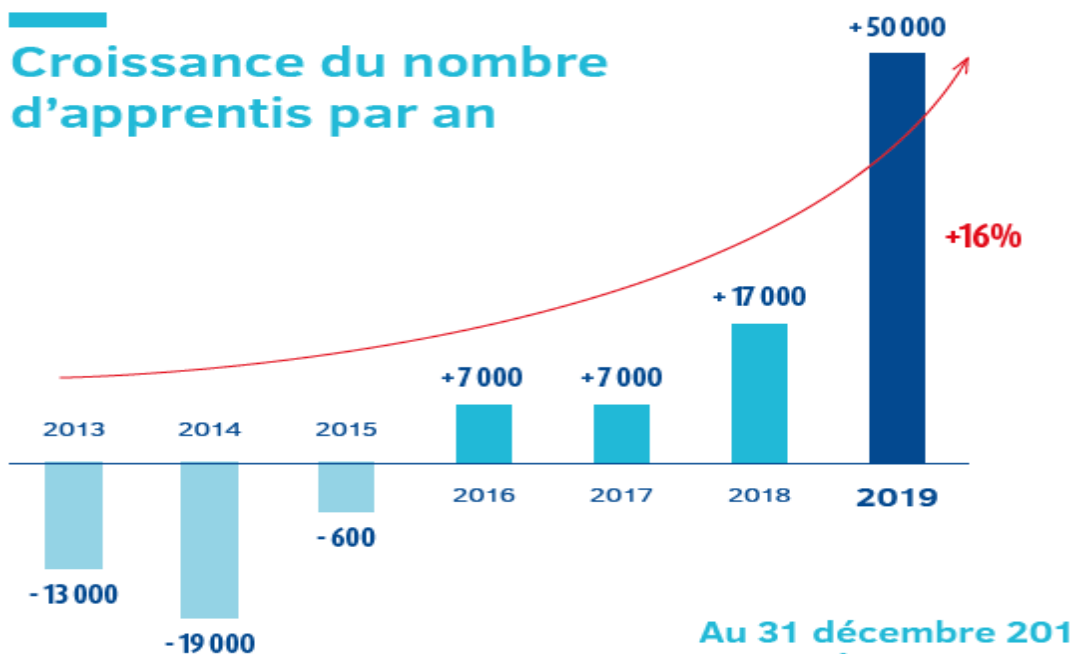
Figure 11. The trend of enrolment onto apprenticeships at EQF Levels 3 and 4



Source: Ministry of Labour (2020).

Figure 12 shows the increase of the apprenticeship pathway at all EQF levels displaying a double-digit increase rate (+16%) in 2019. In 2019 there were 491 000 apprentices in France, and 368 000 new apprenticeship contracts were signed. This trend benefits all the regions with very high rates in some of them (+78.3% in French Guiana, +55.8% in Guadeloupe, +27.3% in Corsica and +23.8% in Auvergne-Rhône-Alpes) and economic sectors (+3% in trades and crafts, + 13% in construction industry, + 11% in metal industry).

Figure 12. Increase in apprenticeships across all EQF levels



Source : Ministry of Labour (2020).

The apprentices split their learning time between the company and the apprenticeship training centre. The apprenticeship training centre is freely chosen by the company and the apprentice. Most of the time is spent in the company. During the time at the apprenticeship training centre, the apprentices are considered as employees of the company and are paid for their apprenticeship.

Vocational education and training consist of two elements, which are relatively independent of one another:

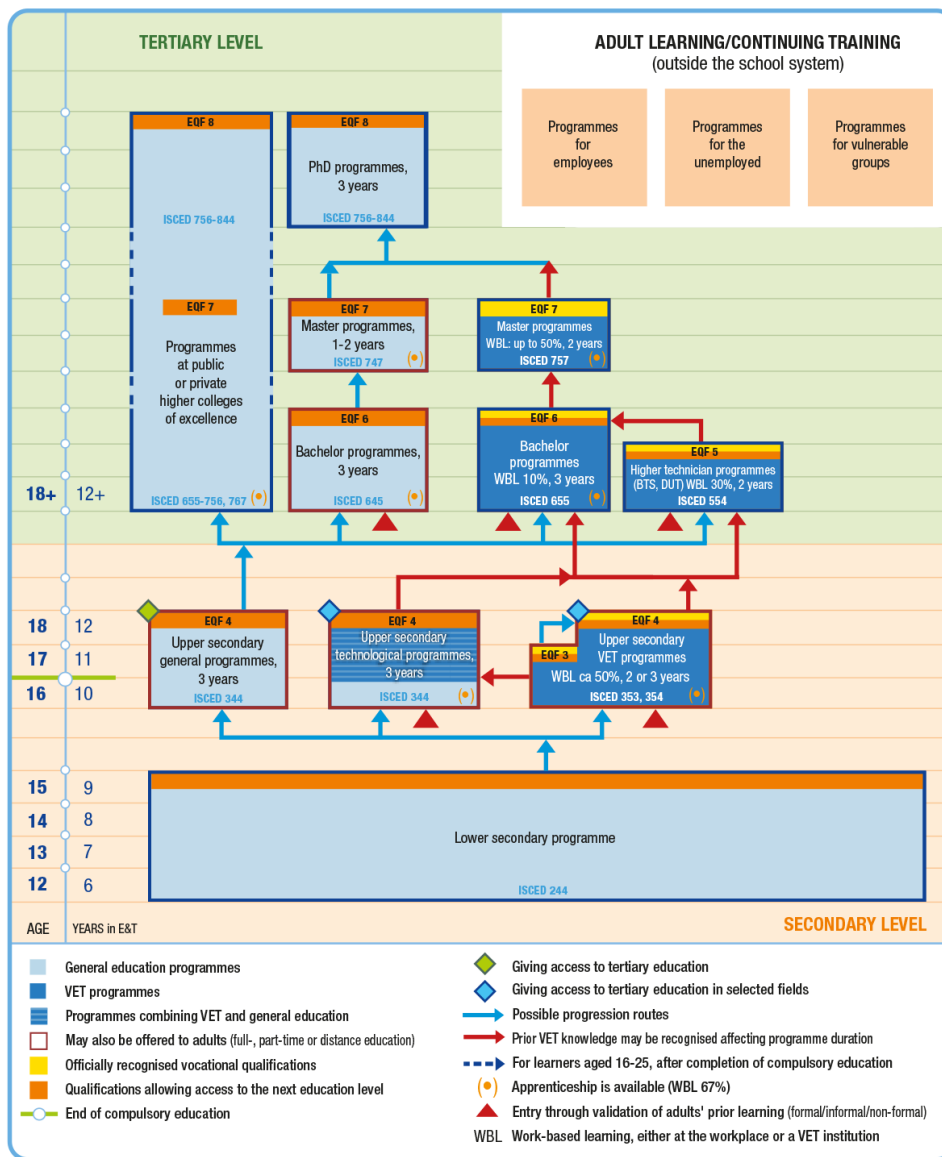
- initial vocational education and training (IVET) for young people within a school context (full-time education) or under an employment contract (apprenticeship);
- continuing vocational education and training (CVET) for young people who have left or completed initial education and for adults on the labour market.

Among the factors that distinguish IVET and CVET are the difference between the certifier, the sources of funding and even the objectives. IVET includes various levels of training from lower secondary up to the higher level. There are more than 600 vocational diplomas in France that are managed by the National Board of Education. They are classified from EQF Level 3 to EQF Level 5.

Vocational qualifications are developed and awarded by:

- Ministries
 - o the Ministry of National Education, Youth and Sport
 - o the Ministry of Higher Education, Research and Innovation
 - o the Ministry of Labour
- Professional unions
- Chamber of Trades and Crafts and Chamber of Commerce.

Figure 13. French vocational education and training.



Source: Centre Inffo (2019).

Work-based learning refers to knowledge and skills acquired through carrying out – and reflecting on – tasks in a vocational context, either at the workplace or in a VET institution.

In France, there are two different pathways for work-based learning, namely:

- full-time study in a vocational school with placements in a company (from 4 to 10 weeks, depending on the qualification level). There are public and private vocational schools, they both grant diplomas from the State;
- apprenticeship at an apprenticeship training centre (ATC). Most ATCs are private and their legal status is that of a non-profit organisation, but the National Board of Education created some public ATCs that are integrated into public training centres.

In any case, the same diplomas are awarded at the end of the training. The only difference is the training method and the time spent at school and at the company.

The recognition of the value of apprenticeships in France has increased over the years, currently being seen as a way to gain work experience and excellence.

The apprenticeships programmes and curricula are set by the certifier, that can be:

- for the most part the Ministry of Education, Youth and Sport
- Ministry of Labour
- Chamber of Trades and Crafts
- Chamber of Commerce
- professional unions.

An apprenticeship is a very efficient way to enter the labour market with lasting effect: 70% of apprentices have found a job 7 months after the apprenticeship contract ended, and 60% have a permanent contract. Companies confirm that apprenticeships are a great opportunity (80% are satisfied with their apprentices and they hire a new one at the end of the previous contract) (Ministry of Labour, 2017).

DIGITALISATION STRATEGY FOR VET AND APPRENTICESHIPS IN FRANCE

The topic of digitalisation of education falls under the responsibility of the French Digital Plan for Education established in 2015. It is responsible for the implementation and deployment of the digital services in the education sector. This is part of a bigger initiative by the French Government related to the digitalisation of the public services in recognition of the need to keep up with the latest technological trends contributing to the economic development of the country.

The digital strategy for the education sector (L'Ecole Numerique) was officially launched in 2015, after an extensive consultation carried out by the Ministry of Education in articulation with other ministries at it aimed at bringing schools into the digital age. Its implementation relies on a coordinated mobilisation and action of different stakeholders (schools, teachers, apprentices, managers, ministries and local, regional and other national authorities, universities, research centres, industry) to put in place the optimal conditions for efficient development and deployment of resources, including access to training. The ambition is to create an e-education eco-system to enable proper use of resources and the effective development of skills and services.

Renewed in 2018, the strategy is organised around 5 main pillars, namely:

- place school data at the heart of the ministry's digital strategy;
- teach digital in the 21st century;
- support and strengthen the professional development of teachers;
- develop apprentices' digital skills;
- create new links with the school's actors and partners.

The strategy envisions the continued and renewed support to the establishment of digital (educational) workplaces across the national territory, ensuring that:

- **schools** have the resources (equipment and materials) to provide digital services to expand and enrich the educational offer and to customise the support to apprentices;
- **teachers** have access to diversified educational resources that can be used on a daily basis, as well as initial and continued training and tools allowing them to monitor their apprentices and communicate with families;
- **apprentices with special needs, and in particular apprentices with disabilities**, are offered customised solutions that will allow them to benefit from education and educational services in the exact same way as other apprentices.

The French Government approved the deployment of 1 billion euros for the period of 2016-2019 to support the different initiatives and project development related to the digitalisation of education. Since 2016, several

different initiatives and projects have been launched by the Ministry of Education. A very brief overview of the diversity landscape of these projects is shared as follows:

- **equipping schools.** Huge investment was made by national, local and regional authorities to support schools with digital equipment and services (individual materials for apprentices and teachers such as cabling, internet connections, tablets, digital workspaces, access to digital resources and training) including support to schools on how to use equipment and resources;
- **digital platforms.** Integrated set of digital services made available to the educational school community. It constitutes a unified entry point allowing users to access (according to their profile and level of authorisation) digital content. It is also a platform for exchange and collaboration between users (from the same school or within schools). This platform offers services such as digital textbooks, common workspaces and storage for apprentices and teachers, access to digital resources, collaborative tools, blogs, forum, virtual classroom, etc.; support to school management – notes, absences, timetables, agendas, etc.; and communication, messaging, staff and family information, videoconferencing, etc. These digital workplaces can be accessed by apprentices, parents, teachers and administrative staff. This initiative is also related to one of the strategy goals for simplifying administrative formalities and facilitating the communication with the broader educational community;
- **training resources for teachers and trainers.** Several online platforms have been developed with different purposes, such as providing digital training to teachers, managers, trainers on different areas; sharing resources that can be used on a daily basis; disseminating information on existing practices and research carried out at national level on the topic of digitalisation. Some of these platforms are fully dedicated to the topic of inclusiveness.
- **The Digital Competence Reference Framework (CRCN)** – the digital skills reference framework applicable to all EQF levels, inspired by the European Framework (DigComp) and launched at the start of the 2019 school year.
- **Data protection and safety – appointment in August 2018 of a data protection officer** for the Ministry of National Education and for the Ministry of Higher Education, Research and Innovation to ensure compliance with the European guidelines and support the educational community in understanding how personal data should be collected, processed and stored. In addition, [an ethics committee on digital data](#) was set up to advise on and support issues related to the use of data collected and processed in the school context. In this context, training targeting school's management and teachers related to the challenges of using digital data were also developed and part of the portfolio of online courses available to teachers on the different platforms.

Specifically focused on the VET sector and acknowledging that, currently, the attractiveness of training centres largely depends on the ability to build a quality digital educational offer adapted to the challenges and needs of the labour market, a new digital space was created within the existing ONISEP platform dedicated to the trends in terms of professional paths. In addition, and to understand the changes that automation and digitalisation will have in current professions, different research studies were conducted and will be made available to training centres in the e-Fran projects platform.

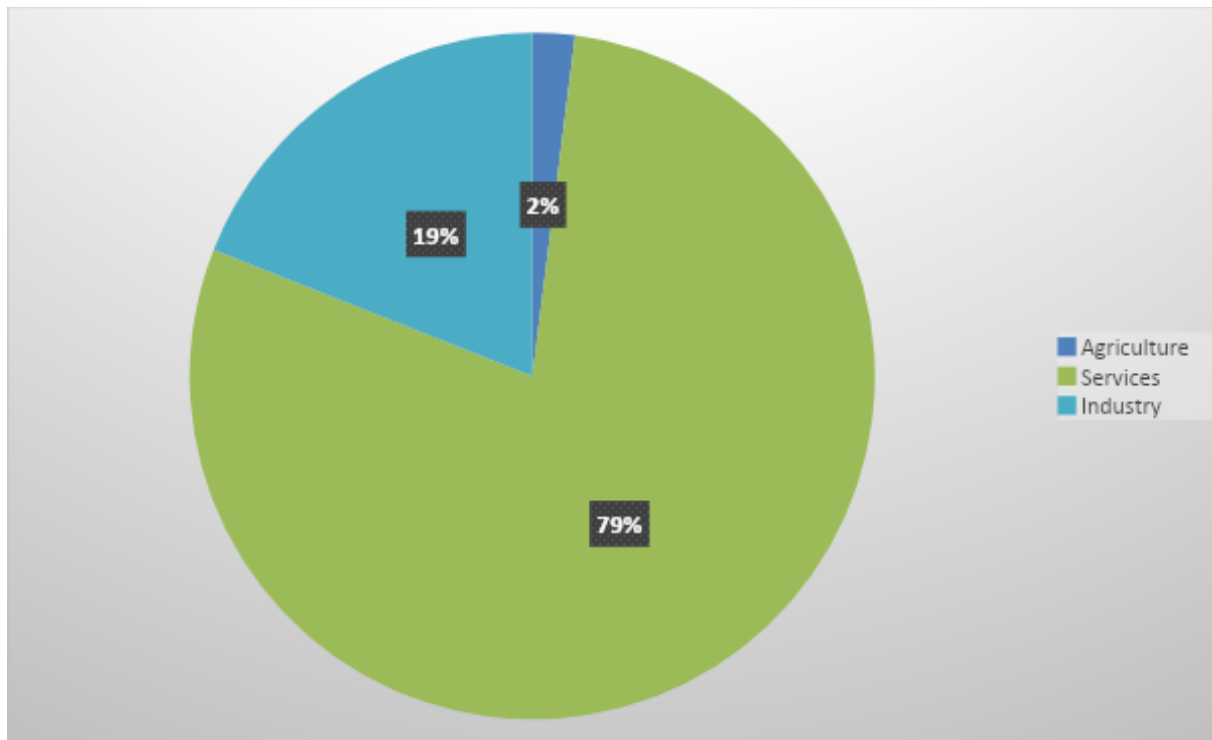
As mentioned earlier, the approach to all of the above initiatives was to ensure the engagement of all key educational stakeholders, of which local authorities. The establishment of a public e-educational service required the review of the existing governance approach, ensuring concertation and sharing between all levels of public authorities.

To achieve this, a '**committee of digital partners for education**' was set up aiming at structuring and systematising exchanges between all representatives, allowing them to be involved in the definition of a global and shared strategy to deploy digital education within the territories. The partners' committee contributes to the national digital education strategy at several levels: calls for projects, repositories and guides, forward thinking.

Annex 2. Dominant economic sectors in France

Gross domestic product (GDP) structure

Figure 14. Distribution of economic sectors in France



Source: SPIRIT Slovenija (2020).

Agricultural sector

France is the largest agricultural power in the European Union and accounts for a quarter of its total agricultural production. Nevertheless, the agricultural sector accounts for only 2% of the country's GDP and employs 2.6% of the population. The French agricultural sector receives significant subsidies from the European Union. The main agricultural products are wheat, corn, meat and wine.

Service sector

The service sector accounts for 79% of the GDP and employs 77.3% of the workforce. The most important segment in the service sector is tourism.

Industrial sector

The industrial sector accounts for 19% of the GDP and employs 20.1% of the active workforce. The French manufacturing industry is very diverse. The country is currently in the process of de-industrialisation, which has led to the outsourcing of many activities. The key industries in France are telecommunications, electronics and the automotive, aerospace and military industries. In 2019, industrial production grew by 0.4%. For 2020, analysts predict a decline in industrial production by -13%, followed by 9.2% growth in 2021 and 2.3% growth in industrial production in 2022.

Source: SPIRIT Slovenija. 2020.

Annex 3. Guidelines and templates for focus groups, semi-structured interviews and a list of challenges

Focus group guidelines

Objective

The main objective of the focus groups is to spend some time with each of the two key target groups for the SELFIE WBL project – learners and trainers – and discuss the ‘how’ and ‘why’ behind the main questions and answers in the survey.

We want participants to elaborate further on the key questions in the survey (SELFIE WBL tool pilot) and explore participants’ views about the tool, the main challenges they faced in using the SELFIE tool and whether it helps them assess where they stand with regards to learning in the digital age. We want them to speak freely and not be swayed by pre-conceived notions they may have about what are deemed desirable answers as there are no wrong answers.

Moderators

The focus group for teaching staff should be moderated by a peer trainer and the focus group for learners should be moderated by a tutor to create a comfortable and trusting atmosphere which enables open reflection and discussion. We advise that a note-taker is also assigned to each moderator to enable fluent moderation.

Participants

Each VET school organises two focus groups: one exclusively with trainers as participants and the other with learners. Diversity in terms of a school’s size shall be taken into account. The only pre-condition to become a participant is that they have taken part in the SELFIE WBL pilot survey.

The optimal size of each focus group is 10 participants which allows all members to participate, and enables the moderator, i.e. institutional coordinator or learners’ tutor, time to be able to tease out the nuances behind participants’ answers.

For online focus groups where plenary discussions/interactions are less straightforward, a slightly smaller number of participants (minimum of 5) is acceptable to ensure there is an opportunity for all participants to have their say, remain engaged and reduce strain on the moderator.

Duration

Typically, a focus group lasts between 60–90 minutes. This gives enough time to allow for deeper conversations to take place but does not run for too long, which can lead to participant fatigue. In the case of online focus groups, it is advisable to keep the session time to a maximum of 60 minutes as it is just that little bit harder for people to stay focused.

Moderation

The focus group will need to be well moderated in order to guide the discussion, using a combination of questions and further probes. The participants should be encouraged to interact with each other as well as to generate deeper insights about the different sub-topics. With an online focus group, it is probably not possible to get the same type of feedback or interplay between participants as with face-to-face focus groups, so the role of the moderator is even more important here. The moderator will provide an overview of the project and its purpose, ask questions, follow up with more questions and keep the conversation on track and on subject.

Make sure to keep it relaxed, that participants are at ease and feel comfortable and safe in opening and sharing their thoughts. Reminding participants that there are no right or wrong answers is a good way to

make sure they are not self-censoring. Make sure that the moderator also takes enough time for introductions and for participants to become comfortable in the session to ensure individuals engage with one another.

Normally, all discussions can take place in a normal plenary form, but if the moderator feels the need for it, they might use small exercises like brainstorm activities in which the participants write down ideas on (virtual) post-it notes, plotting these post-it notes in a matrix or map to prioritise items, or simply keeping track of inspiration and solutions that come up during the session in a visual way.

Topics/questions

Based on experience with similar focus groups, we should have time to address three to four different topics with open-ended questions, follow-up questions and, in particular, discussion between participants. The topics that we would suggest are as follows.

The strengths and weaknesses of the SELFIE WBL tool

Questions to the participants can include:

- what works particularly well in the SELFIE tool? What does not?
- what would you see as the most important challenges for optimal functioning of SELFIE tool?

Discussion should be encouraged comparing different situations, shared experiences regarding strengths and weaknesses, concrete tips & tricks on how to make improvements.

Discussion on relevant survey results

Participants shall reflect and discuss their interpretation and in-depth understanding of the relevant survey results, for example going into different elements of the SELFIE tool (e.g. Leadership, Infrastructure and Equipment, Teaching and Learning, etc.).

Further follow-up questions can be asked about the reasons why they took part in the SELFIE survey if it is optimal or more out of necessity and if there are intentions to become either more or less involved in the SELFIE tool in the future.

Areas where further support is needed/useful

Questions to the participants can include:

- what are the areas of the SELFIE tool where more information, knowledge, guidance, training, etc. would be welcomed by you and/or colleagues in similar roles?
- what potential changes do you anticipate based on the survey results?

Again, discussion should be encouraged comparing different situations, experiences and visions.

Equipment/facilities

Chairs set up in a circular pattern around a table is the most ideal setup for a focus group as you want all the participants to be able to see each other easily. In case of an online focus group, a Zoom room can be set up by the Research Team (contact us¹⁹ at least 1 week prior to the event providing an exact date and timeslot).

The amount of information that is shared in focus groups is not easily captured by a note-taker, as there are numerous side conversations that occur. The best way to scrutinise data at a later date is to audio and video record the focus group sessions. Please do not forget to get consent from the participants to be recorded and let them know that their responses will remain anonymous and no names will be mentioned in the report.

¹⁹ Research Team contacts: miha.zimšek@skupnost-vss.si and/or alicia.miklavcic@skupnost-vss.si.

Focus group report

Date	
Country	
School	
Moderator(s)	

Participant	Name and surname	Trainer/Learners	Subject/Programme
1			
2			
3			
4			
5			
6			
7			
8			
9			
10			

Discussion topics

Discussion 1 – Icebreakers
Discussion 2 – The strengths and weaknesses of the SELFIE WBL tool
Discussion 3 – Discussion on relevant survey results
Discussion 4 – Areas where further support is needed/useful

Topic 1 – Icebreakers

Suggestions for discussion

Questions to the participants can include:

- what were your expectations of Selfie WBL?
- do you think your expectations were met?

Common responses / general consensus

Areas of disagreement / lack of consensus

Other notes & observations

Topic 2 – The strengths and weaknesses of the SELFIE WBL tool

Suggestions for discussion

Questions to the participants can include:

- what works particularly well in the SELFIE WBL tool? What does not?
- what would you see as most the important challenges for an optimal functioning SELFIE WBL tool?

Discussion should be encouraged comparing different situations, shared experiences regarding strengths and weaknesses, concrete tips & tricks on how to make improvements.

Common responses / general consensus

Areas of disagreement / lack of consensus

Other notes & observations

Topic 3 – Discussion on relevant survey results

Suggestions for discussion

Participants shall reflect and discuss their interpretation and in-depth understanding of the relevant survey results, for example going into different elements of the SELFIE WBL tool (e.g. Leadership, Infrastructure and Equipment, Teaching and Learning etc.).

Further follow-up questions can be asked about the reasons why they took part in the SELFIE survey, if it is optimal or more out of necessity and if there are intentions to become either more or less involved in

the SELFIE WBL tool in the future.

Common responses / general consensus

Areas of disagreement / lack of consensus

Other notes & observations

Topic 4 – Areas where further support is needed/useful

Suggestions for discussion

Questions to the participants can include:

- what are the areas of the SELFIE WBL tool where more information, knowledge, guidance, training etc. would be welcomed by you and/or colleagues in similar roles?
- what potential changes do you anticipate based on the survey results?
- what kind of technology are you using when you are working in the company? (state specific examples about the use of technology in company and in school)
- did you start with digital learning because of COVID-19?
- what problems did you face because of COVID-19?
- did you include blended learning?
- did you perform apprenticeships during lockdown (remote mode / distance mode)?
- will you use SELFIE WBL in the future?

Again, discussion should be encouraged comparing different situations, experiences and visions.

Common responses / general consensus

Areas of disagreement / lack of consensus

Other notes & observations

Additional topics/discussions/ideas/observations

(Only if the content does not fall into any previous categories/topics above)

Notes & observations

In-depth semi-structured interview guidelines

Objective

In-depth, semi-structured interviews intend to elaborate further on the report results and foreseen improvements based on those results. The interviews are verbal interchanges where the national coordinator attempts to elicit information from 4 in-company trainers and decision-making staff in a VET school by asking questions.

Even though the national coordinator prepares a list of predetermined questions, in-depth, semi-structured interviews usually unfold in a conversational manner, offering participants the chance to pursue issues they feel are important. In-depth interviews are conducted in order to gain a thorough insight into a particular issue, in our case future improvements.

Interviews are conducted individually and focused on each organisation separately.

Interviewer

The interview shall be carried out by a national coordinator. People will talk more when they feel more relaxed and at ease, so the questions are not asked in any given order, rather they are asked in a way that develops the conversation.

Interviewee

In-depth semi-structured interviews are carried out with 4 in-company trainers and decision-making staff in a VET school (4 pedagogical managers/directors, 4 sector heads/managers, 4 board heads/directors). The pre-condition to become an interviewee is that they have taken part in the SELFIE WBL pilot survey.

Duration

Typically, a semi-structured interview lasts between 30–60 minutes. This gives enough time to allow for deeper conversations to take place but does not run too long which can lead to interviewee fatigue.

Before the interview

When recruiting interviewees, indicate that you would be happy to conduct the interview at a time and place which best suits them. Do not forget to remind the interviewee of the time, date and location of the interview (online).

Before the interview commences, the national coordinator should ask the interviewee if they consent to the interview being digitally recorded. Informed consent can be confirmed by the interviewer reading the consent form and the interviewee verbally indicating that they agree.

During the interview

You need to listen carefully to what the interviewee is saying, for their response might not actually answer the question. Alternatively, the interviewee may give you a vague response, to which you might have to ask for clarification or further explanation. The most important thing to remember when conducting an interview is not to rush through the questioning. Additionally, do not interrupt participants when they are in the middle of a sentence or when they stop in order to collect their thoughts. 'Could you tell me' is always a good way of starting an interview or asking an interviewee to explain a particular point of view.

Do not disclose the details or discuss the comments of another interviewee during an interview. This not only breaches past interviewees' confidentiality, but the present interviewee will doubt your ability to maintain their confidence. This is not to say that you cannot talk in generalities (e.g. if an interviewee asks you 'what have other people said' in relation to particular point, you could say 'well, a lot of interviewees have indicated that' etc.).

Have your notepad and pen ready because sometimes interviewees can say the most insightful things when the digital recorder has been switched off.

After the interview

It is extremely important that you write the report immediately after the interview, whilst you can still vividly remember all of the aspects of the interview. The recorded audio of the interview should help you to prepare an accurate report. Use your experience from each interview to improve the next interview.

Topics/questions

A semi-structured in-depth interview is usually one in which the interviewer has a checklist of topic areas or questions. The topics that we would suggest are the following.

- Icebreakers

Questions to the interviewees can include:

- what were your expectations of the participation in the survey?
- do you think your expectations were met?
- discussion on relevant survey results.

Interviewees shall reflect and discuss their interpretation and in-depth understanding of the relevant survey results, for example, going into different elements of the SELFIE tool (e.g. Leadership, Infrastructure and Equipment, Teaching and Learning, etc.).

Further follow-up questions can be asked about the reasons why they took part in the SELFIE survey if it is optimal or more out of necessity and if there are intentions to become either more or less involved in the SELFIE tool in the future and/or use its results.

- Future improvements

After interviewees discuss pilot results, they should consider implementing proposed solutions. This means that they (plan to) improve the process/WBL and continue to look for ways to make it even better for their organisation. Questions to the interviewees can include:

- what would be your potential reactions based on the survey results?
- is there an action plan to support the implementation of the proposed solutions?
- how will you prioritise your reactions to the results? Will resources (e.g. financial capacity, etc.) play a role in the prioritisation process?

Equipment/facilities

In case of an online interview, a Zoom room can be set up by the Research Team (contact us²⁰ at least 1 week prior to the event providing exact date and timeslot).

²⁰ Research Team contacts: miha.zimsek@skupnost-vss.si and/or alicia.miklavcic@skupnost-vss.si.

In-depth semi-structured interviews report

Date	
Country	
School	
Facilitator(s)	
Interviewee	

Discussion Topics

Discussion 1 – Icebreakers
 Discussion 2 – Discussion on relevant survey results
 Discussion 3 – Areas where further support is needed/useful

Topic 1 – Icebreakers

Suggestions for discussion

Questions to the interviewees can include:

- what were your expectations of the participation in the survey?
- do you think your expectations were met?

Common responses / general consensus

Areas of disagreement / lack of consensus

Notes & observations

Topic 2 – Discussion on relevant survey results

Suggestions for discussion

- What kind of technology are you using when you are working in the company? (state specific examples about the use of technology in company and in school)
- Did you start with digital learning because of COVID-19?
- What problems did you face because of COVID-19?
- Did you include blended learning?
- Did you perform apprenticeships during the lockdown (remote mode / distance mode)?
- Will you use SELFIE WBL in the future?
- What are the things you liked about SELFIE WBL? What could be improved?

Interviewees shall reflect and discuss their interpretation and in-depth understanding of the relevant survey results, for example going into different elements of the SELFIE tool (e.g. Leadership, Infrastructure and Equipment, Teaching and Learning, etc.).

Further follow-up questions can be asked about the reasons why they took part in the SELFIE survey, if it is optimal or more out of necessity and if there are intentions to become either more or less involved in

the SELFIE tool in the future and/or use its results.

Common responses / general consensus

Areas of disagreement / lack of consensus

Notes & observations

Topic 3 – Future improvements

Suggestions for discussion

Questions to the participants can include:

what would be your potential reactions based on the survey results?

- is there an action plan to support the implementation of the proposed solutions?
- how will you prioritise your reactions to the results? Will resources (e.g., financial, capacity, etc.) play a role in prioritisation process?

Again, discussion should be encouraged comparing different situations, experiences and visions.

Common responses / general consensus

Areas of disagreement / lack of consensus

Notes & observations

Additional topics/discussions/ideas/observations

(Fill in only if the content does not fall into any previous categories/topics above)

Notes & observations

List of challenges

The following tables are to be filled in by the corresponding participants in the pilot process from the beginning of their engagement until 15 November 2020. They will serve the research team in identifying advantages of and positive reflections on SELFIE WBL but, foremost, identify challenges and possibilities of improvement.

School Coordinator/Leadership

Country:

School:

Process	Advantages	Challenges
<i>School registration process</i>		
<i>Supporting materials and info</i>		
<i>Input of school data</i>		
<i>Customising survey</i>		
<i>Motivating participants</i> <ul style="list-style-type: none"> - Learners - Trainers - Leaders - Companies 		
<i>Generating links</i>		
<i>Survey content</i>		
<i>Survey technical issues</i>		
<i>Monitoring participation</i> <ul style="list-style-type: none"> - Learners - Trainers - Leaders - Companies 		
<i>SELFIE WBL Report</i> <ul style="list-style-type: none"> - Usefulness - Features lacking 		
<i>Reaching objectives (40% of learners and 40% of trainers)</i>		
<i>Certificates / Digital badges</i> <ul style="list-style-type: none"> - Participants - School 		
<i>Findings (unexpected issues)</i>		
<i>Lessons learnt</i>		

<i>COVID-19 impact</i>	<i>How COVID-19 was affected /experienced with blended learning, description of the profile of school, remote teaching and learning</i>
<i>Other</i>	

Add rows, as necessary.

Source: Skupnost VSŠ, 2020.

Annex 4. Analysis of open question ‘*Suggestions for improvement*’ and examples of questions

Thematic analyses, defined as a method for identifying, analysing and reporting patterns (themes) within data (Braun and Clarke, 2006) was used for analysing an open-ended question on ‘Suggestions for improvement’ provided by learners.

Description of the process

We read all answers from learners to open question: ‘How can we improve SELFIE further? Share your ideas and suggestions with us.’ We have become familiarised with the data and prepared a list of key issues/themes and codes. Text answers of learners was tabulated, and each answer was classified in themes (code). Then we counted the number of answers with the same code and prepared the Table 3.

Categories/themes

S – about SELFIE TOOL (satisfaction, critics, missing themes, items to add)

Q – opinion about questions (length, repeating, complicated)

A – opinion about answers (number of answers, option of others...)

L – language (terminology, understandable, more languages)

D – devices – problems with using different devices for SELFIE

T – timing of involvement

I – design

W – internet connection

DT – digital technology

P – praises

O – nothing to change

K – critics

N - prefer not to answer

C – linked with COVID-19

X – not classified.

Table 3. Thematic analysis of open question responded to by learners.

Code	Key words and answers summary	Frequency
S	SELFIE (too many questions, make less questions/issues, too long, provide short tutorial for learners, adapt to professions, add explanation and examples) Provide training before use	71
Q	Questions (improve the question sentences / the issue, too long, clarify, simplify, some unnecessary, too similar, better connection to school profile, expand the questions, add open questions, open-ended questions, more detailed, precise, focused questions, easily to understand), Add: ‘about availability of our trainers’, ‘if we were following the course / exercises online for	112

	our learning'	
A	Answers – add more answers, adoption other, option to write own answer, add box for comment, even scale, add more options about profession, not 5-level scale, not numbers, add 0	16
L	Language (vocabulary, do not write in English)	2
D	Devices (we do not see all the proposals on the mobile version in the drop- down menus; transform website for mobile application, adopt for NUMA)	7
T	Timing	0
I	Design (new layout, make course in video, better brightness, add pictures, improve visual)	10
W	Wi-Fi (bad)	2
Dt	Digital technology (we use little DT in school/practice, equip the school, digital training, bad quality of computer)	11
P	Praises (good, very good, perfect, main there is, well asked, efficient, fair)	13
O	No ideas, no proposals/suggestions, nothing, nothing to add, I don't know, nothing to change	90
K	Critiques (useless, boring, stop it)	12
N	Do not wish to answer	2
C	Linked to COVID-19	0
X	Not sorted – not understandable, poor translation	61

Source: Own analysis.

Examples of questions considered repetitive

In our school, I have access to the internet for learning

In my company, I have access to the internet for learning

In our school, there are computers or tablets for me to use

In my company, I can learn about operating the relevant (digital) equipment

In our school, I use technology in different subjects

In our school, we use technology for projects that combine different subjects

Examples of questions considered too long and complex

In our school, I have access to a database of companies providing traineeships, apprenticeships and other opportunities

In our school, trainers give us different activities to do using technology that suits our needs

In our company, in-company trainers use digital technologies to tailor the training to our individual needs

In our company, I gain experience in using digital technologies, which makes me more prepared for my future profession

In our school, we talk with trainers about the advantages and disadvantages of using technology for learning

In our school, I use technology to understand my strengths and weaknesses as a learner

In our company, I use digital technology to understand my strengths and weaknesses as a learner

In our school, I use technology to keep a record of what I have learned relevant to my field of study

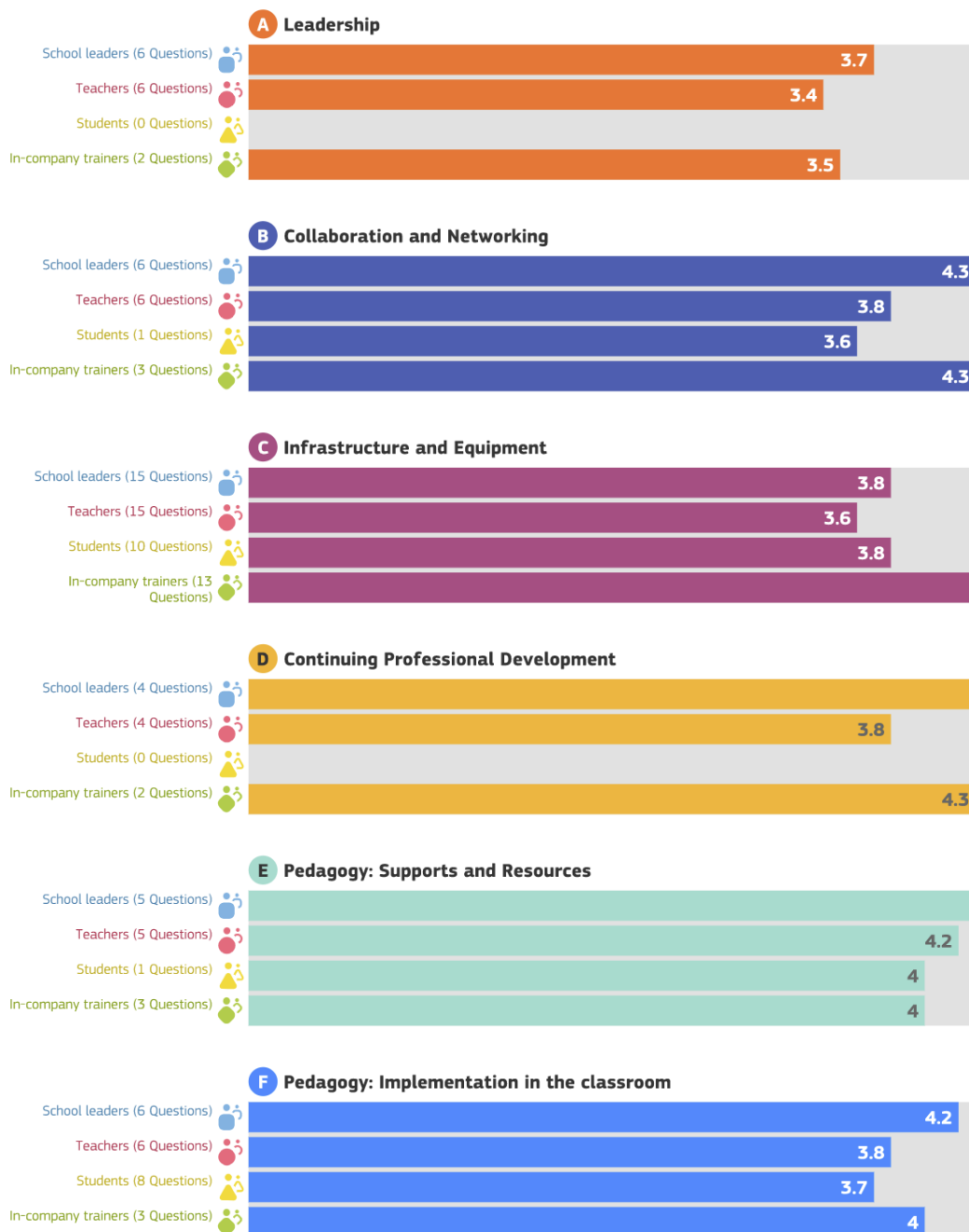
Annex 5. School report 'Overview of areas'

Figure 15. Overview of areas snapshot from an anonymous SELFIE WBL school report



Overview of areas

Average responses for each group (school leaders, teachers and students) for each of the 8 areas.

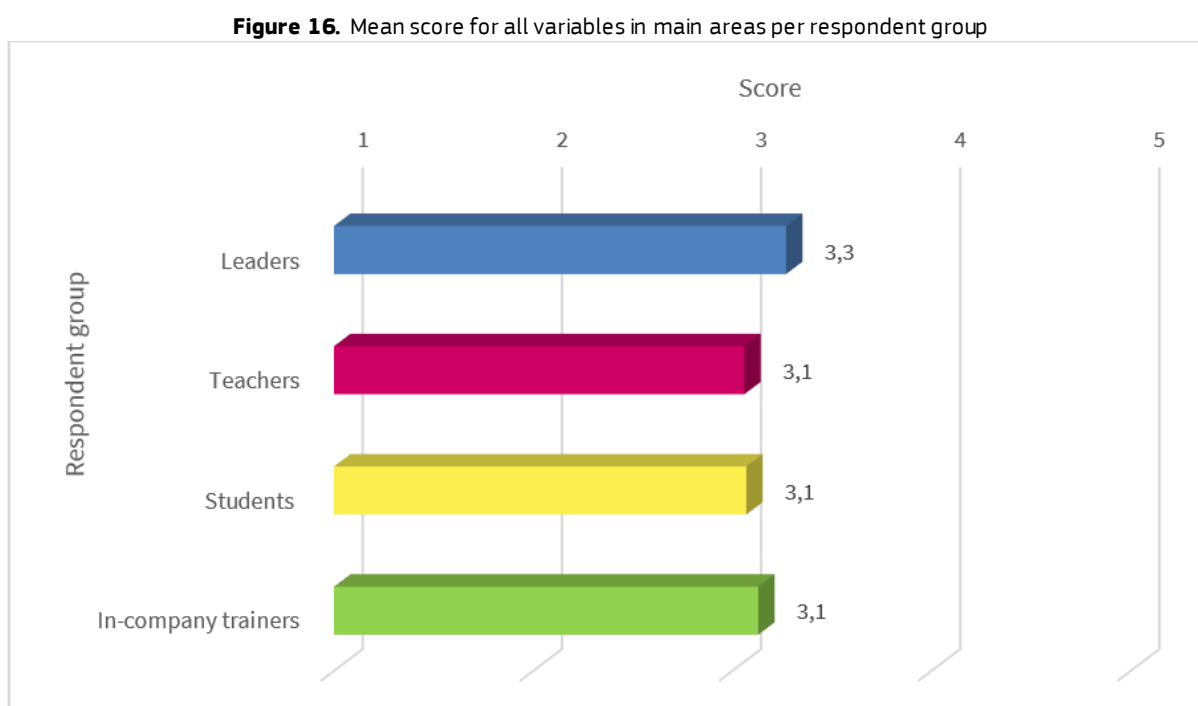




Source: Anonymous SELFIE WBL school report (2020).

Annex 6. Figures and tables with results of SELFIE WBL piloting quantitative data

Figure 16 displays average values per respondent group for all variables. The mean on a 5-point Likert scale (1-5) was the highest for school leaders (M=3.3), and equal for trainers, learners and in-company trainers (M=3.1).



Source: European Commission (2020). SELFIE database, special extraction for SELFIE WBL national coordinators.

Table 4 displays the percentage of answers concerning the overall satisfaction with SELFIE WBL on 10-level scale per respondent group and means for satisfaction with SELFIE WBL per respondent group. The percentage of scores above the middle of the scale is the highest in the group of school leaders (90.6%) and the lowest in the group of learners (56.4%). The highest satisfaction is in the group of school leaders (M=7.5) and the lowest, still above the middle of the 10-level scale, is in the group of learners (M=5.8).

Table 4. Overall satisfaction with SELFIE – percentage distribution per respondent group

Overall satisfaction with SELFIE	School leaders N=53	Trainers N=252	Learners N=2 939	In-company trainers N=16	Total N=3 260
1	0.0%	2.0%	8.6%	6.3%	7.9%
2	0.0%	4.0%	2.9%	0.0%	2.9%
3	0.0%	4.0%	5.5%	12.5%	5.3%
4	0.0%	4.0%	7.1%	6.3%	6.7%
5	9.4%	18.7%	19.6%	6.3%	19.3%
6	11.3%	15.5%	12.0%	12.5%	12.2%

7	24.5%	23.0%	19.5%	18.8%	19.9%
8	34.0%	21.0%	15.2%	6.3%	15.9%
9	17.0%	4.8%	3.6%	25.0%	4.0%
10	3.8%	3.2%	6.1%	6.3%	5.8%
Summary 1-5	9.4%	32.7%	43.7%	31.4%	42.1%
Summary 6-10	90.6%	67.5%	56.4%	68.9%	57.8%
Mean	7.5	6.2	5.8	6.4	5.9

Source: European Commission (2020). SELFIE database, special extraction for SELFIE WBL national coordinators.

Learners and in-company trainers were asked about their opinion of the questions included in the SELFIE WBL self-reflection exercise (Table 5). They rated the relevance of questions on a 10-level scale. Learners provided 50.8% of responses in the range of 6-10 (M=5.4), and in-company trainers in 62.5% of responses in the range of 6-10 (M=6.1).

Table 5. Relevance of questions per respondent group

Score	Learners N=2 578		In-company trainers N=16	
	Frequency	Percent	Frequency	Percent
1	260	10.1%	0	0.0%
2	147	5.7%	1	6.3%
3	179	6.9%	1	6.3%
4	243	9.4%	2	12.5%
5	440	17.1%	2	12.5%
6	363	14.1%	2	12.5%
7	401	15.6%	4	25.0%
8	325	12.6%	3	18.8%
9	91	3.5%	0	0.0%
10	129	5.0%	1	6.3%
Summary 1-5	1 269	49.2%	6	37.5%
Summary 6-10	1 309	50.8%	10	62.5%
Mean	5.4		6.1	

Source: European Commission (2020). SELFIE database, special extraction for SELFIE WBL national coordinators.

Table 6 presents the percentage of answers concerning the likelihood of further recommendation of SELFIE WBL per respondent group on a 5-level scale. The highest percentage of positive responses ('Very likely' and 'Extremely likely') is in the group of school leaders (84.9%). In the group of trainers, the share of positive responses is 28.3% and in the group of in-company trainers it is 29.4%. There are 23.5% negative responses of 'Not at all likely' and 'Not very likely' in the group of in-company trainers. The percentage of answer 'Prefer not to say' is the highest among in-company trainers (14.9%).

The average likelihood for further recommendation of the SELFIE WBL self-reflection exercise is the highest for school leaders (M=4.1) and the lowest for trainers (M=2.9).

Table 6. Likelihood of further recommendation of SELFIE tool – percentage per respondent group.

Recommending SELFIE	School leaders N=53	Trainers N=262	In-company trainers N=17	Total N=332
Not at all likely	0.0%	3.4%	5.9%	3.0%
Not very likely	3.8%	18.7%	17.6%	16.3%
Somewhat likely	7.5%	17.9%	11.8%	16.0%
Very likely	49.1%	31.7%	35.3%	34.6%
Extremely likely	35.8%	13.4%	17.6%	17.2%
Prefer not to say	3.8%	14.9%	11.8%	13.0%
Mean	4.1	2.9	3.1	3.1

Source: European Commission (2020). SELFIE database, special extraction for SELFIE WBL national coordinators.

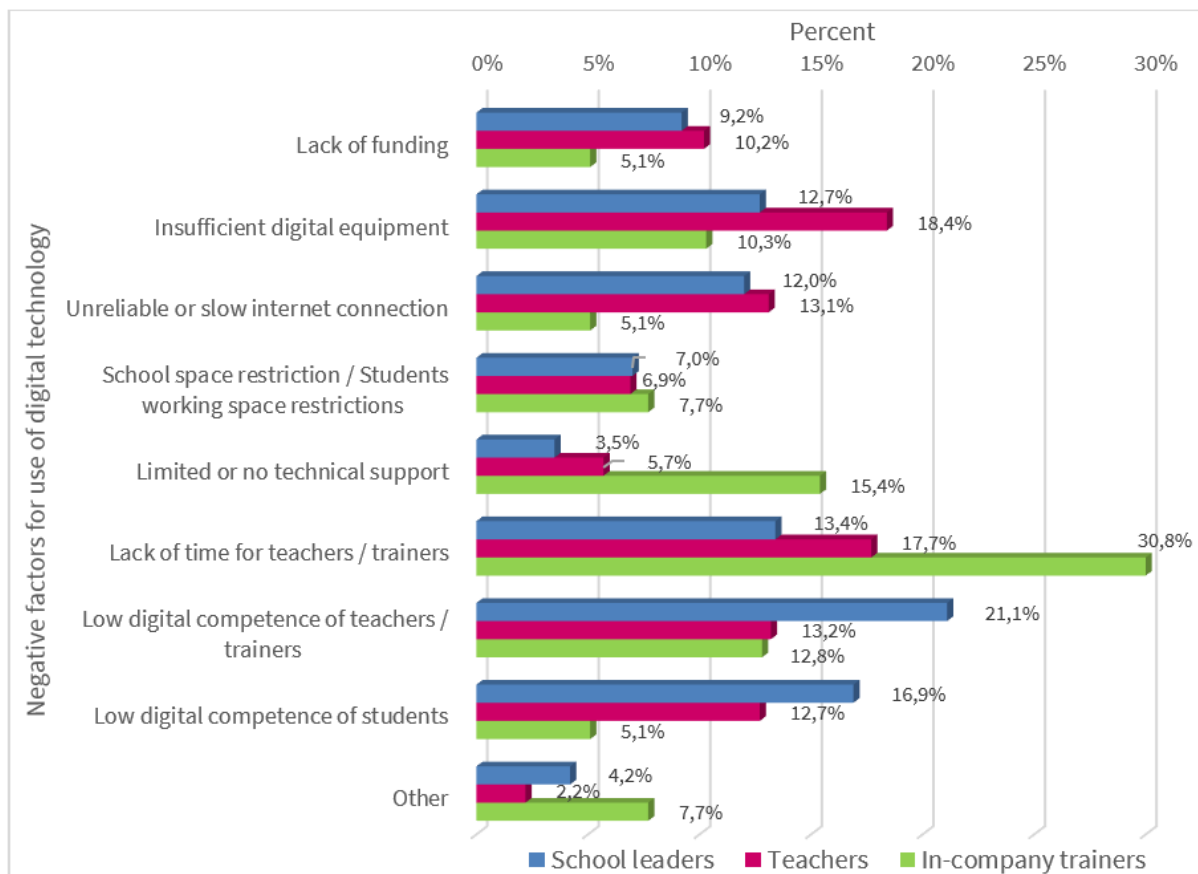
Figure 17 displays the likelihood of further recommendation of the SELFIE WBL self-reflection exercise. Means in all groups are above the middle of the 5-level scale. School leaders have the highest mean (3.7) and trainers the lowest (3.2).



Source: European Commission (2020). SELFIE database, special extraction for SELFIE WBL national coordinators.

Figure 18 displays shares of factors which negatively affect digital technology use in schools and companies. There is disagreement between respondent groups. School leaders chose 'Low digital competence of teachers' most frequently (21.1%). Trainers think that 'Insufficient digital equipment' is the main affective factor (18.4%) and in-company trainers chose 'Lack of time for trainers' most frequently (30.8%).

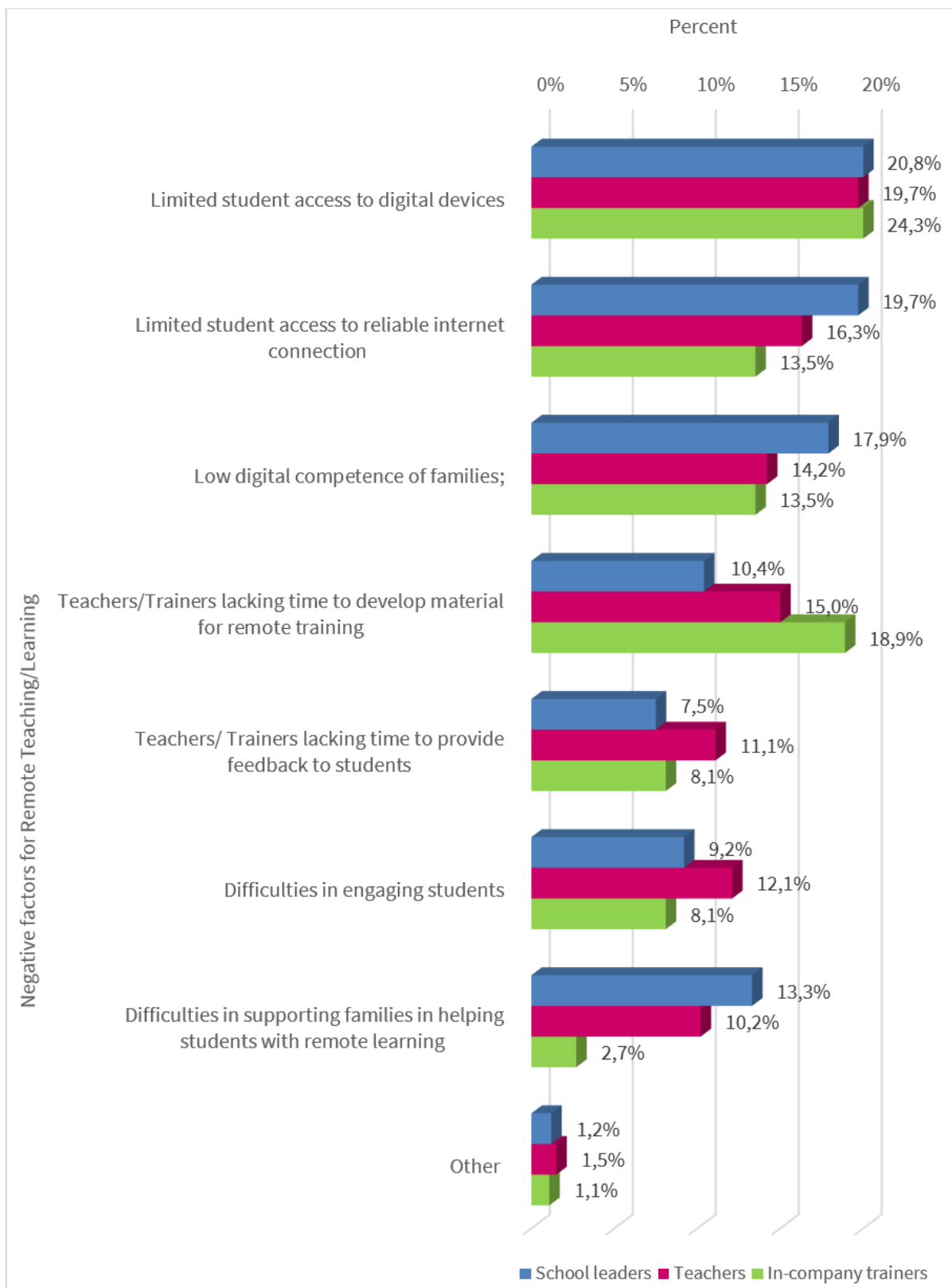
Figure 18. Negative factors for technology use in school and company – percentage per respondent group



Source: European Commission (2020). SELFIE database, special extraction for SELFIE WBL national coordinators.

Figure 19 displays shares of factors which negatively affect remote teaching, learning or training. There was agreement between school leaders and trainers that the most affective factor is ‘Limited student access to digital devices’.

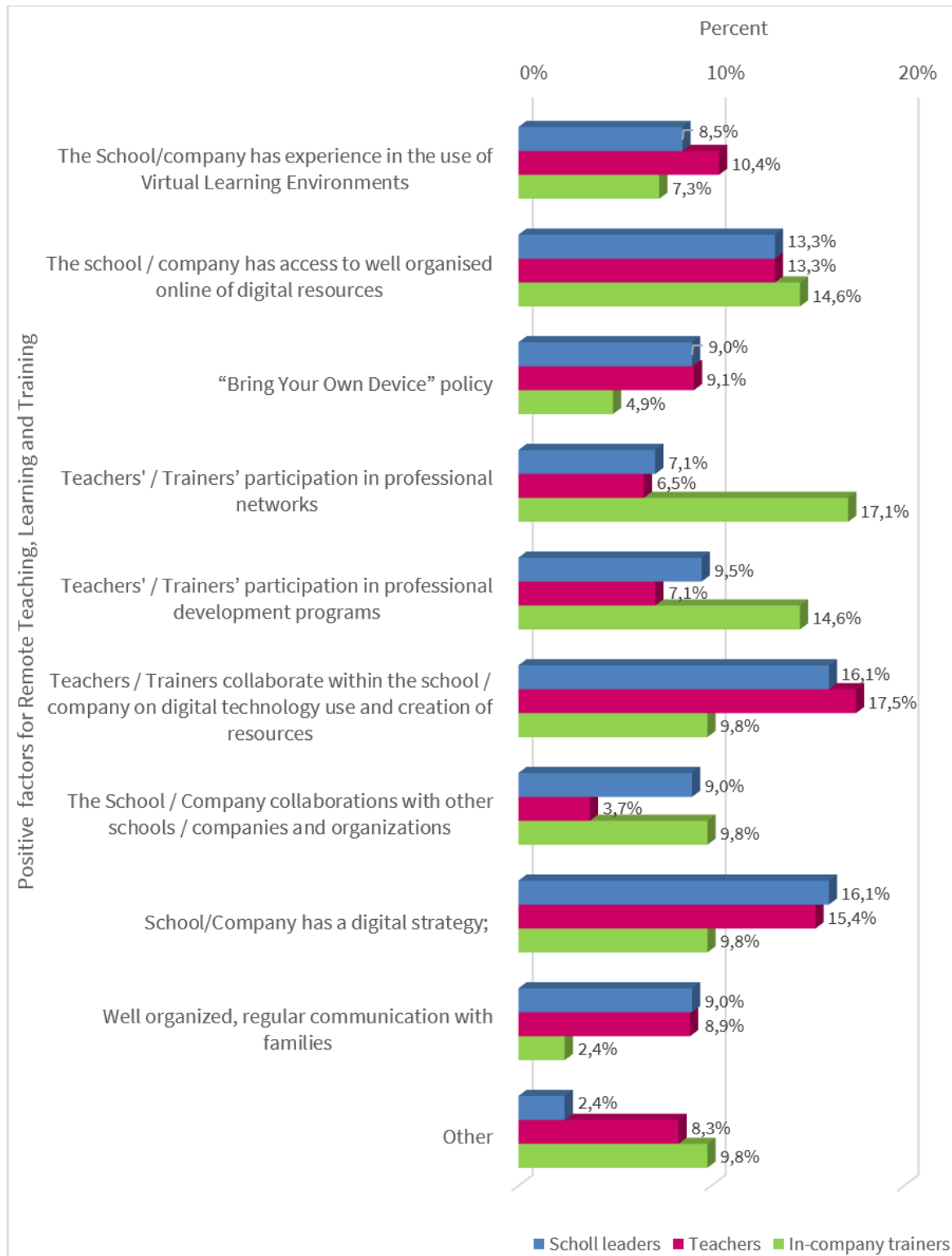
Figure 19. Negative factors for technology use for remote teaching, learning and training – percentage per respondent group



Source: European Commission (2020). SELFIE database, special extraction for SELFIE WBL national coordinators.

Figure 20 displays shares of factors which negatively affect remote teaching, learning or training. Results show that school leaders and trainers share the opinion that the most influential positive factor for remote teaching and learning and training with digital technology is 'Teachers collaborate within the school/company on digital technology use and creation of resources' (school leaders 16.1%, trainers 17.5%). In-company trainers chose 'Trainers' participation in professional networks' most frequently (17.1%).

Figure 20. Positive factors for remote teaching, learning and training - percentage per respondent group



Source: European Commission (2020). SELFIE database, special extraction for SELFIE WBL national coordinators.

Annex 7. Overview of SELFIE WBL results in France

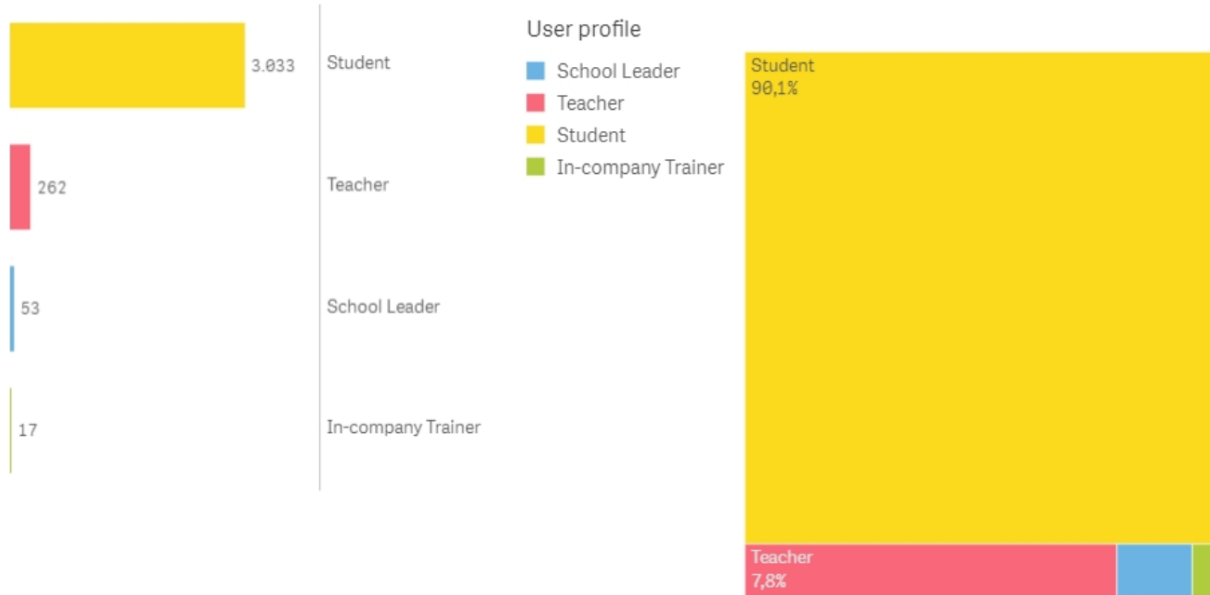
The outcomes of the pilot are not representative of the national education and training systems. They provide useful insights for schools and companies participating in the pilot and, overall, for schools and companies providing similar WBL programmes and belonging to the specific economic sectors covered by the pilot.

Details on all questions can be found in the questionnaires on the SELFIE tool website.

User participation

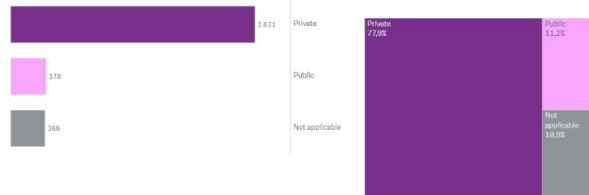
Participation by user profile

Number of users



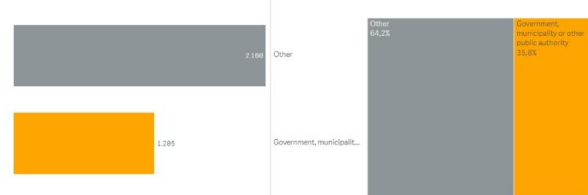
Participation by school management

Number of users



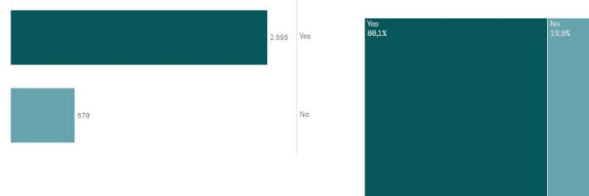
Participation by type of funding

Number of users



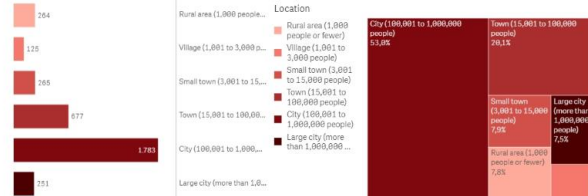
Participation by ICT coordinator

Number of users



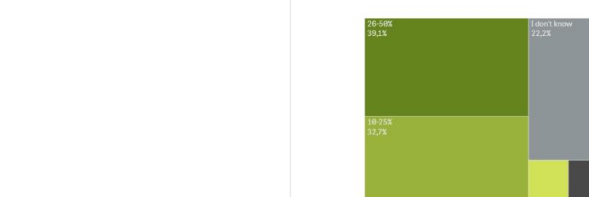
Participation by location

Number of users



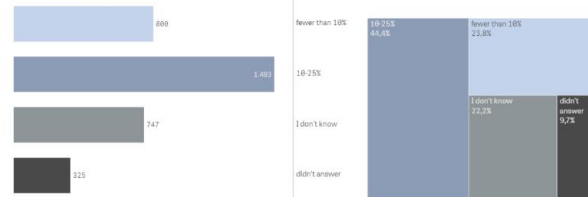
Participation by disadvantaged homes

Number of users



Participation by different language

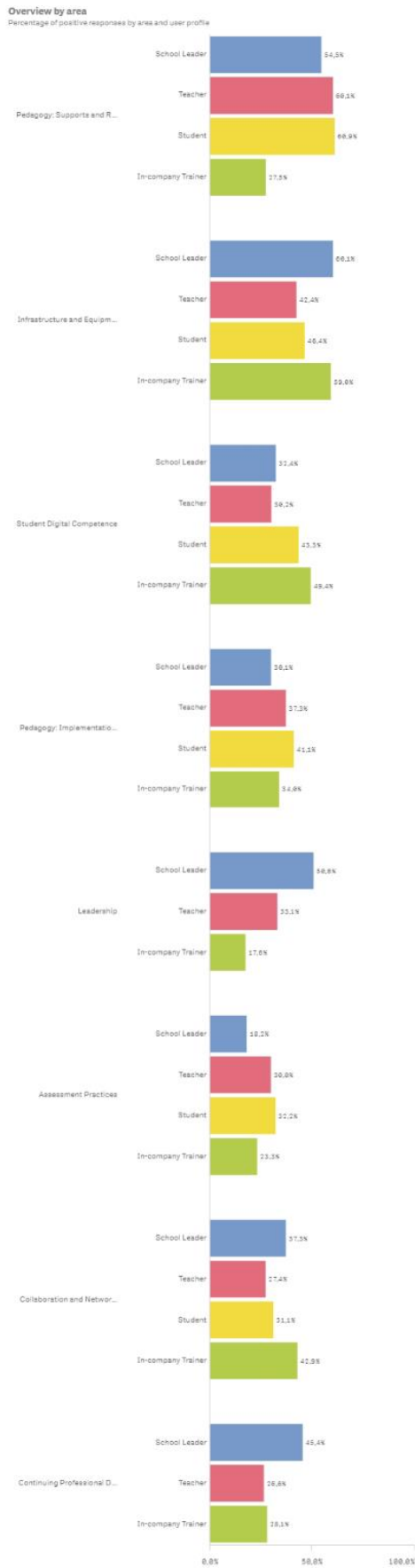
Number of users



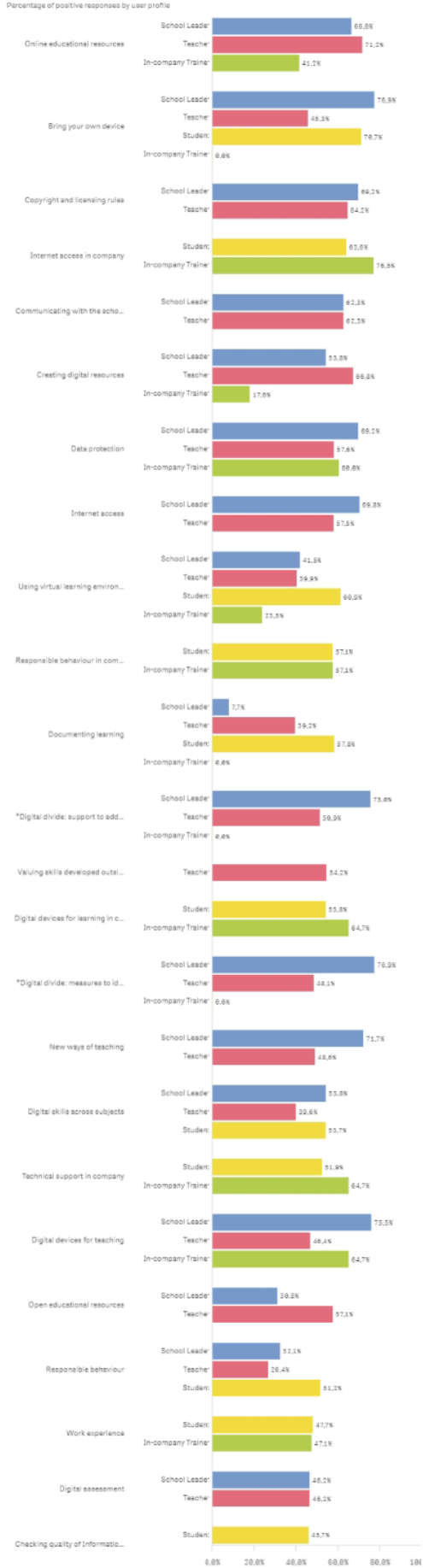
Note: The six participation categories were answered by school coordinators during school registration. The categories for 'disadvantaged homes' and 'different language' are: less than 10%, 10-25%, 26-50%, above 50%, I don't know. 'Didn't answer' is also possible, as the questions were optional.

SELFIE WBL - Main areas

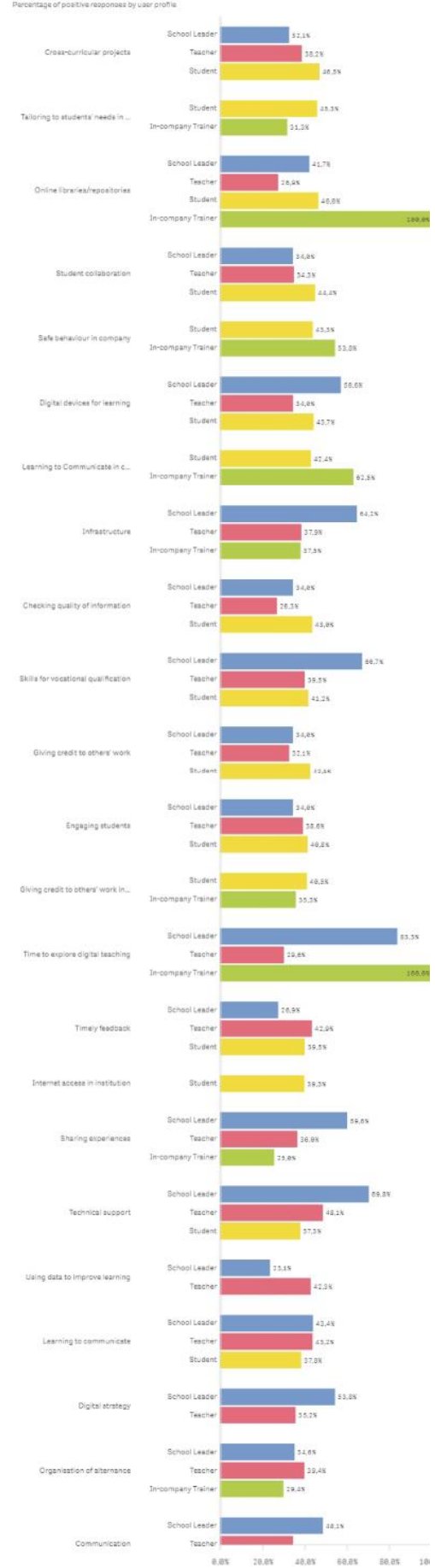
Note: positive responses = answers on 4 or 5 on a five-point scale



Question ranking.

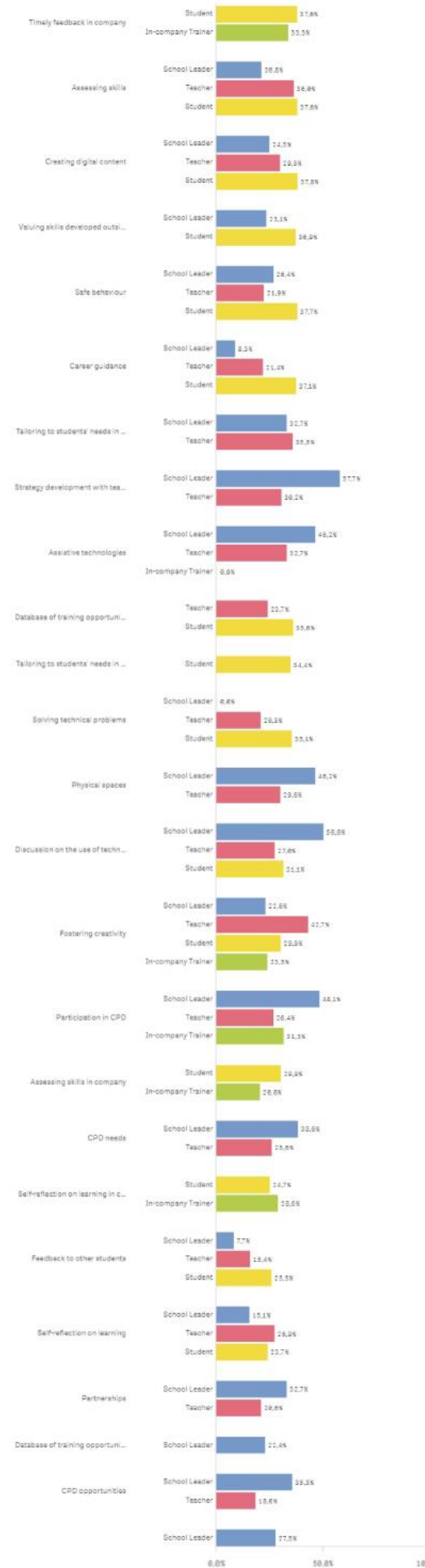


Question ranking.



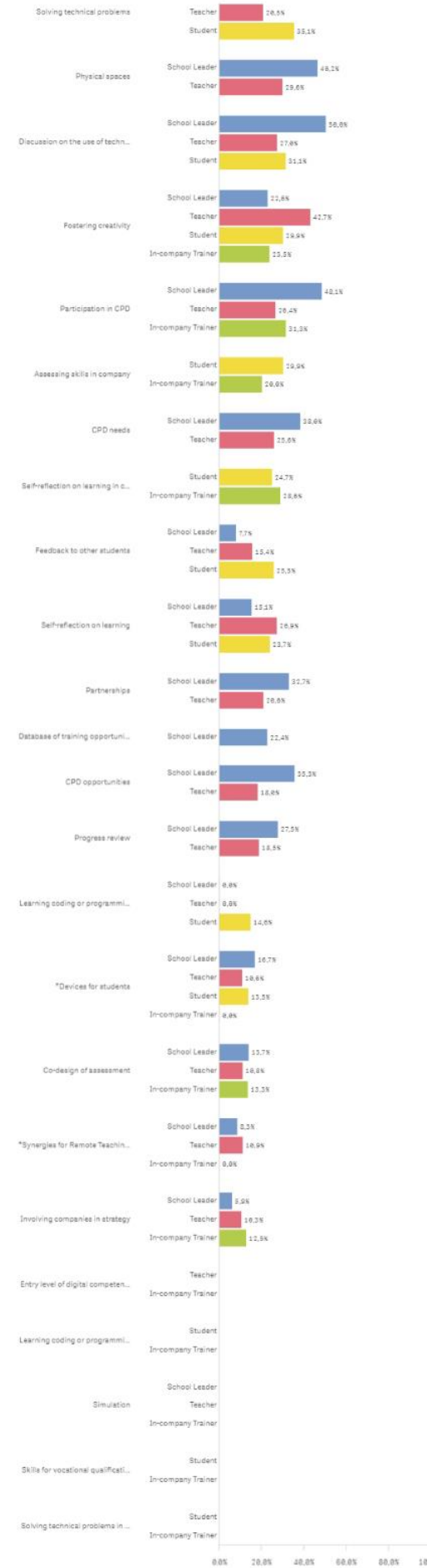
Question ranking.

Percentage of positive responses by user profile



Question ranking.

Percentage of positive responses by user profile



SELFIE WBL – Additional areas

Note: Positive responses = answers on 4 or 5 on a five-point scale

What do your teachers think about the usefulness of the CPD activities in which they participated in the last year?

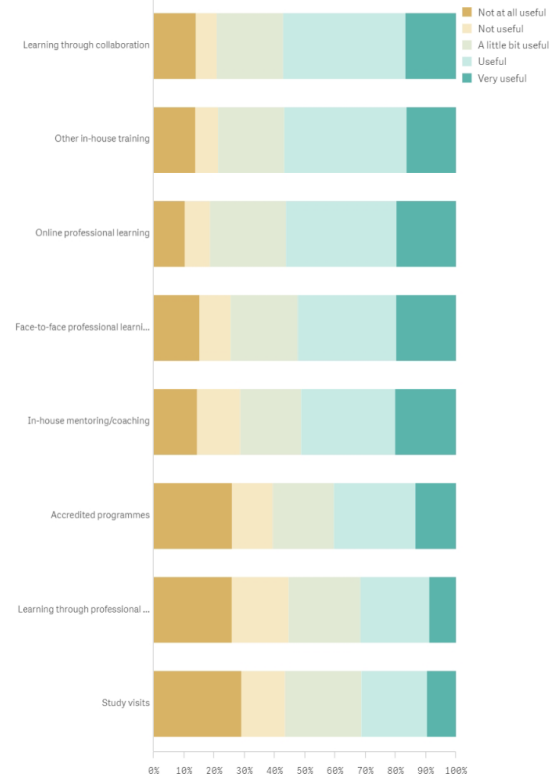
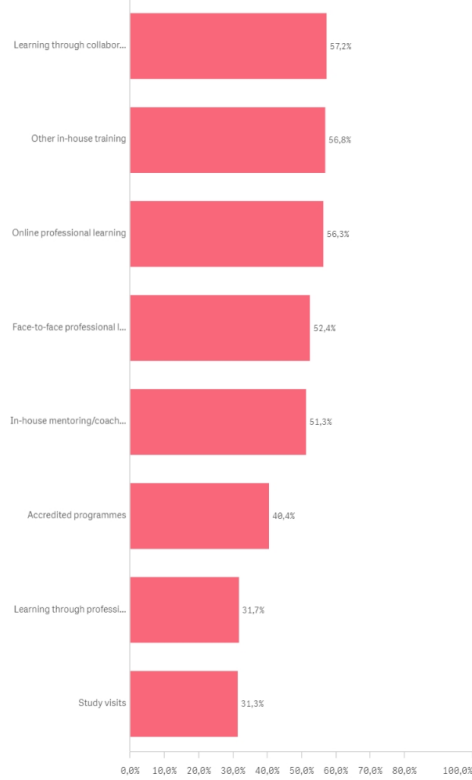
Participation

262

Percentage of positive responses



Percentage of each response option



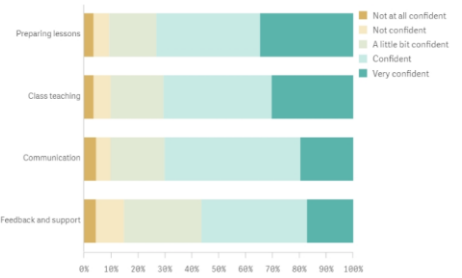
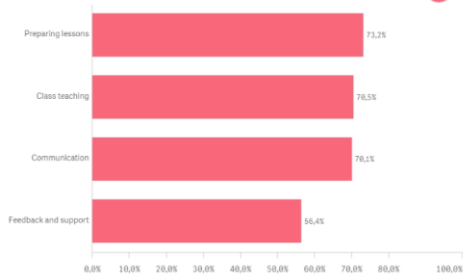
How confident do your teachers feel in using technology for the following tasks?

Participation

262



Percentage of each response option



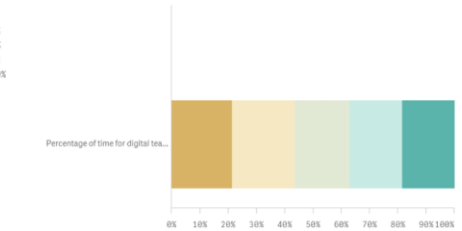
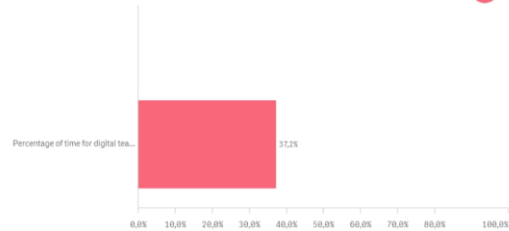
For what percentage of teaching time have your teachers used digital technologies in class in the past 3 months?

Participation

262



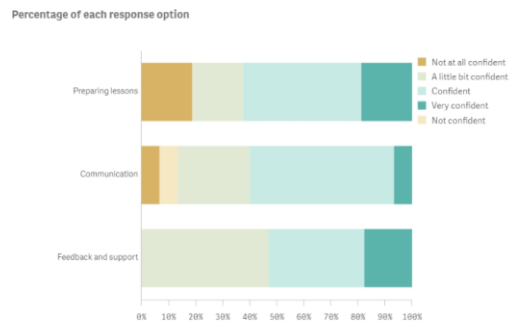
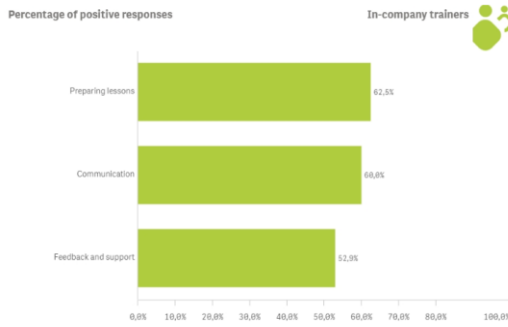
Percentage of each response option



How confident do your teachers feel in using technology for the following tasks?

Participation

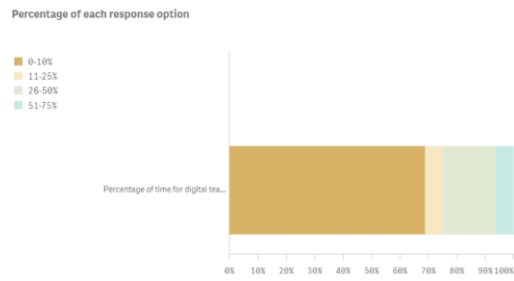
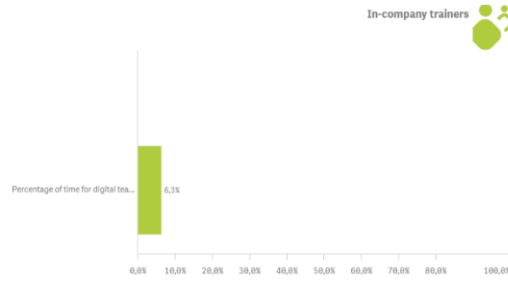
17



For what percentage of teaching time have your teachers used digital technologies in class in the past 3 months?

Participation

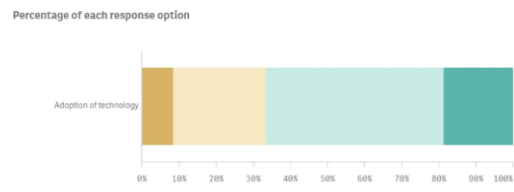
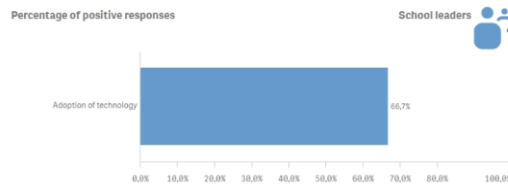
17



Which best describes the approach to using digital technologies for teaching and learning by your school leaders and teachers?

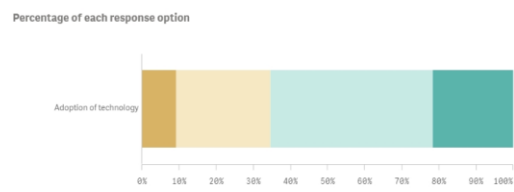
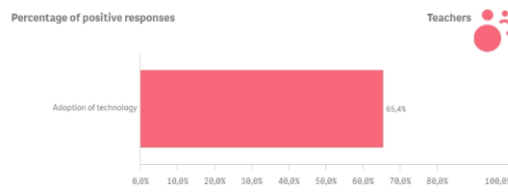
Participation

53



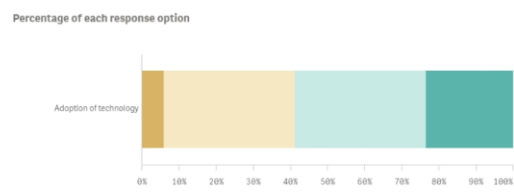
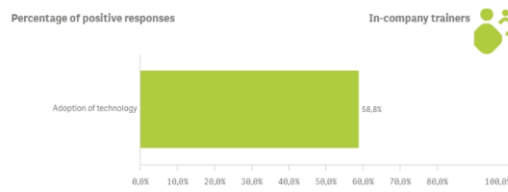
Participation

262



Participation

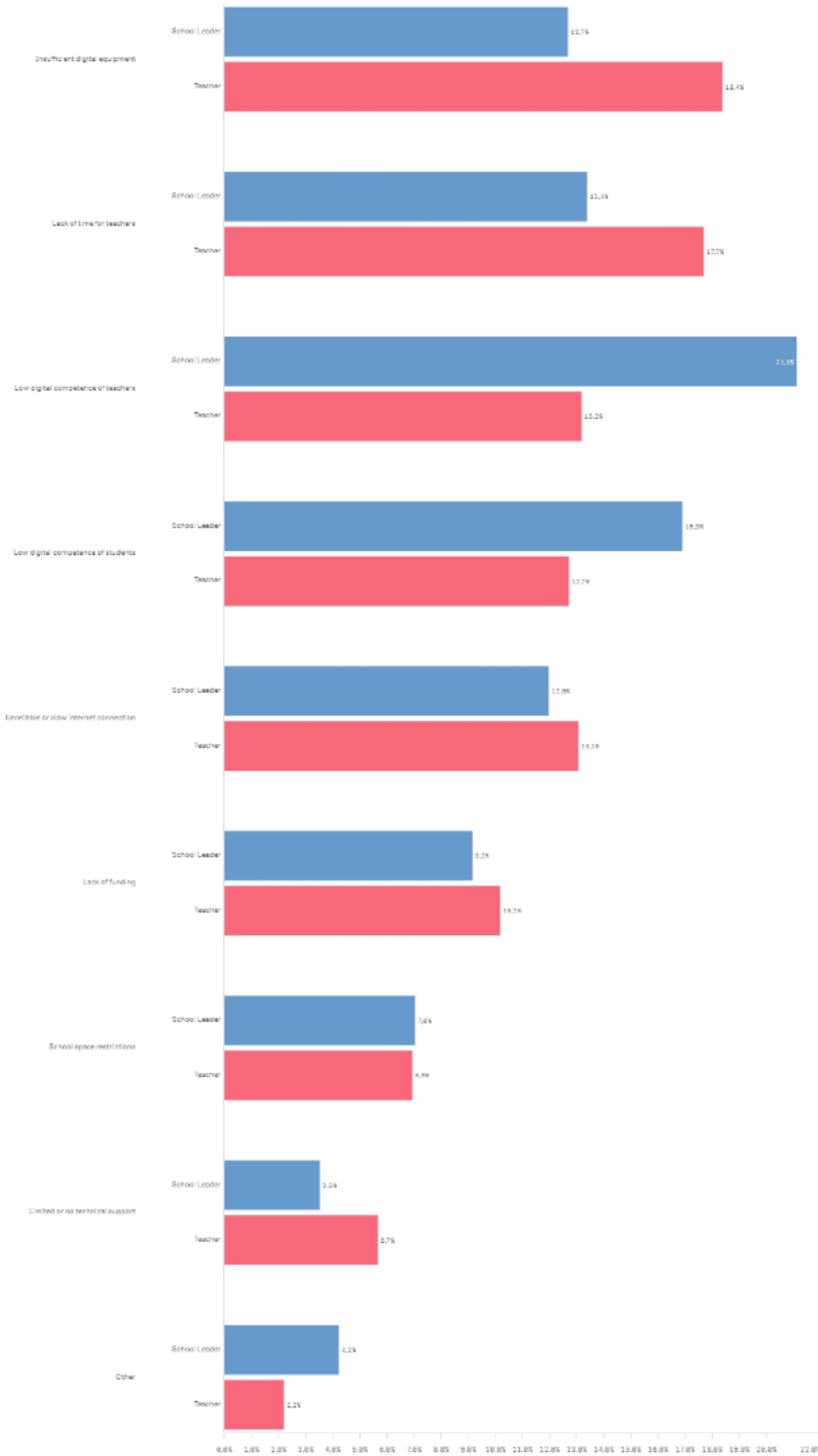
17



Is teaching and learning with digital technologies in your school negatively affected by the following factors?
 Percentage of each response option by user profile

School leaders
 Participation

53

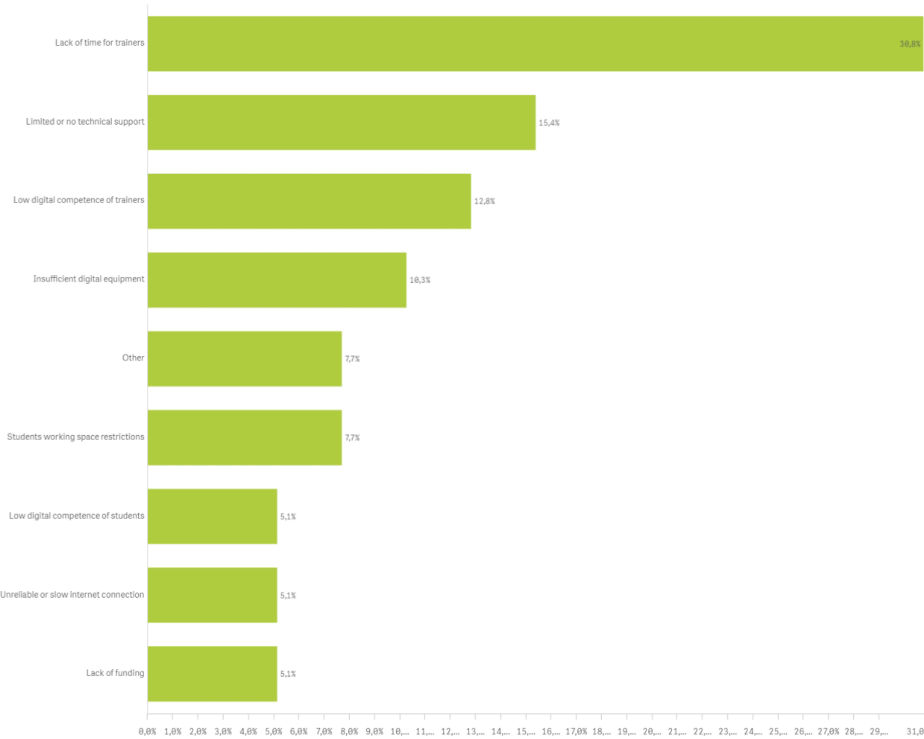


Teachers
 Participation

262

Is training with digital technologies in your company negatively affected by the following factors?
Percentage of each response option by user profile

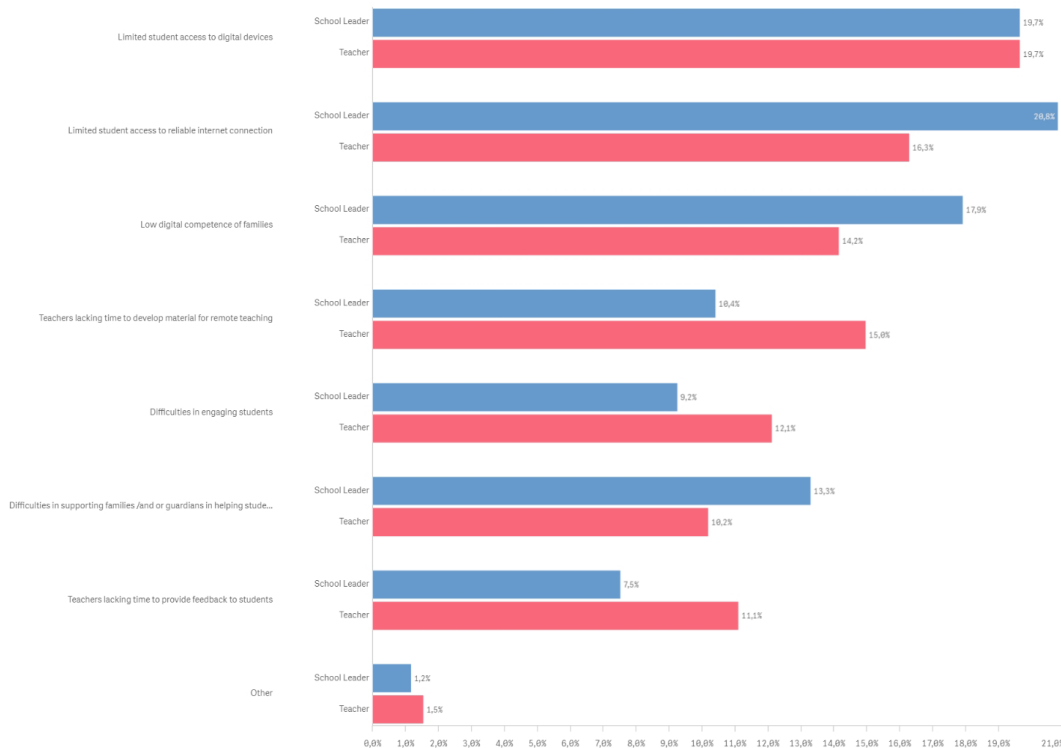
In-company trainers
Participation
In-company trainers



17

Is remote teaching and learning with digital technologies, negatively affected by the following factors?
Percentage of each response option by user profile

School Leaders
Participation



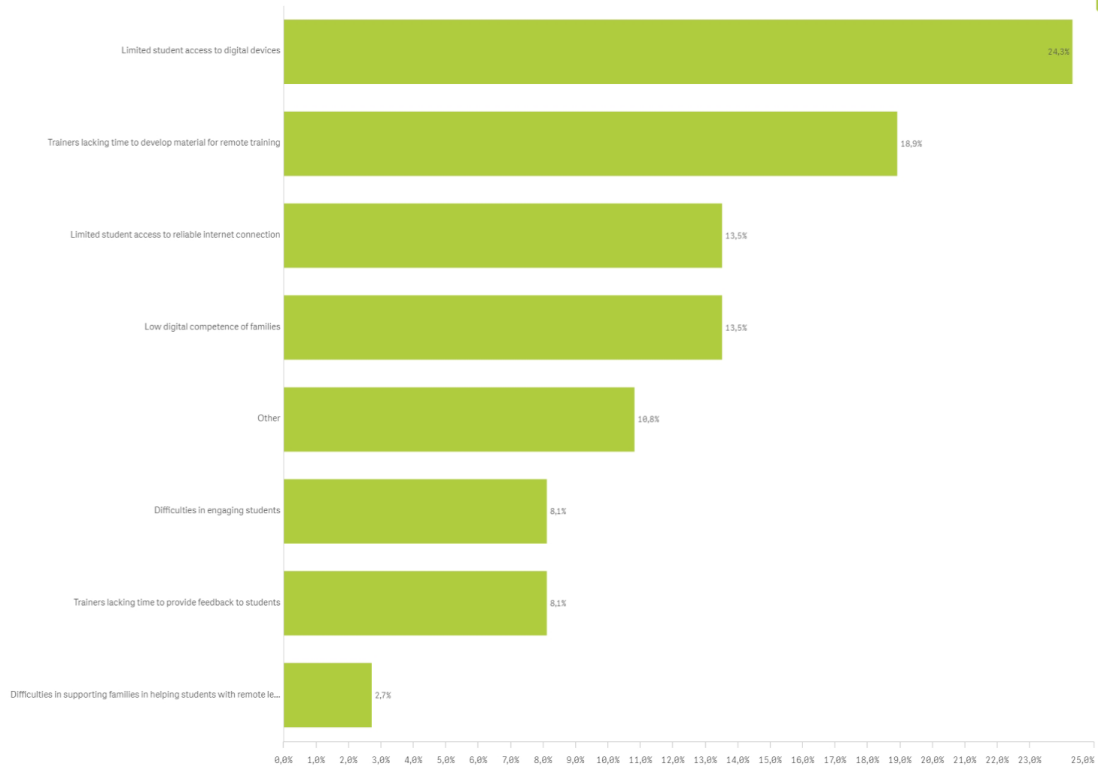
Teachers
Participation

262

Is remote training with digital technologies negatively affected by the following factors?
Percentage of each response option by user profile



17

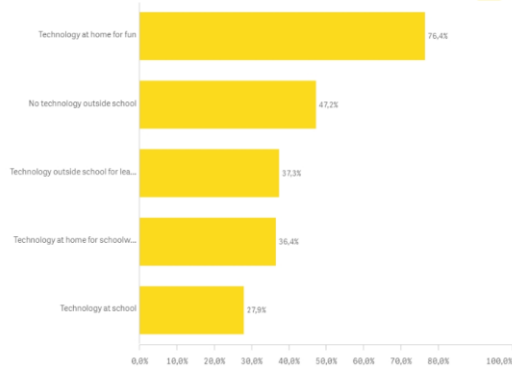


How do your students use technology in and out of school?

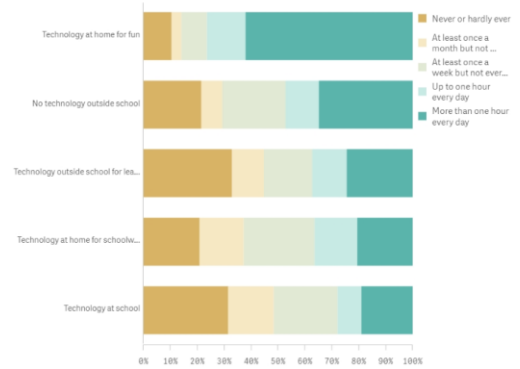
Participation

3.033

Percentage of positive responses



Percentage of each response option



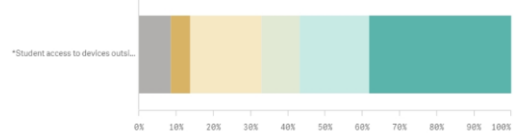
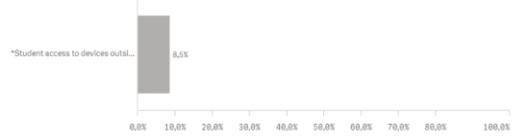
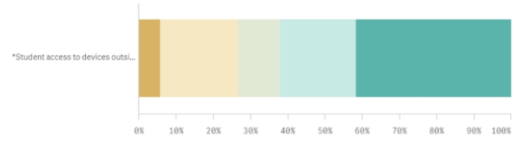
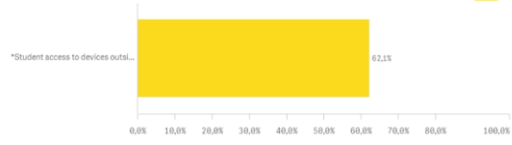
Are you able to access digital devices (computer, laptop, tablet, mobile phone) at home?

Participation

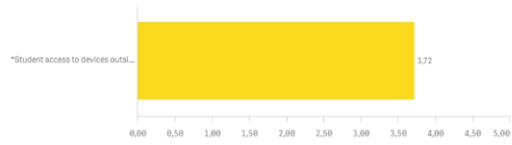
3.033

Percentage of positive responses

Students 



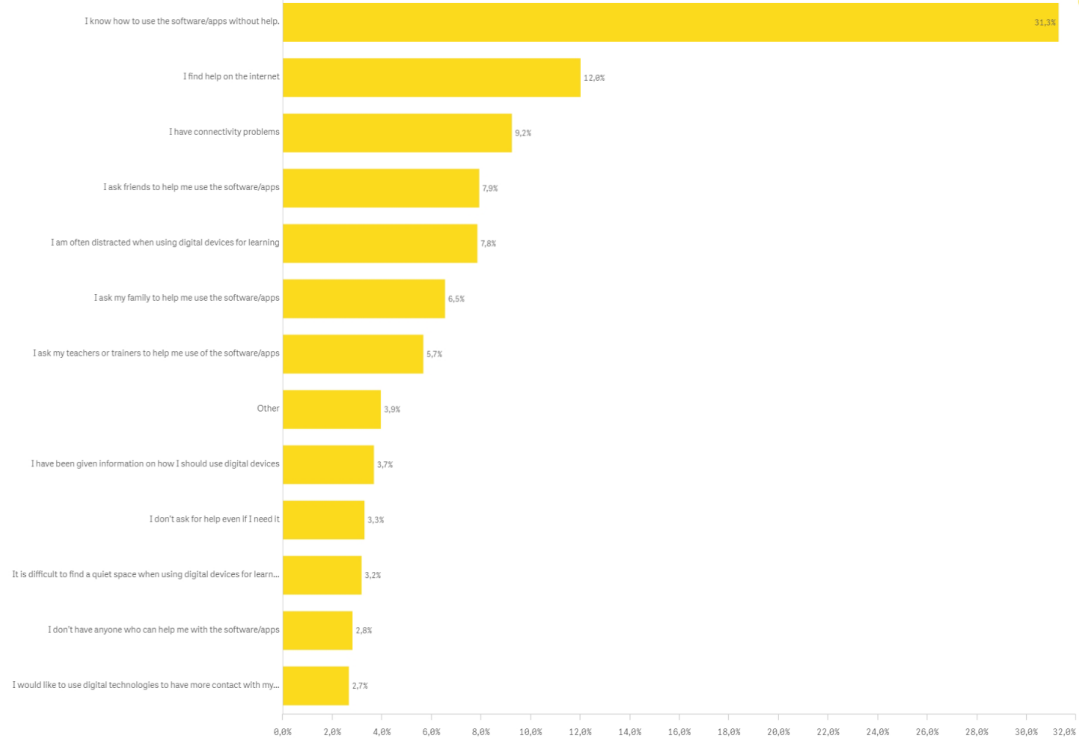
Average



Is remote training with digital technologies positively affected by the following factors?
Percentage of each response option by user profile

Students 
Participation

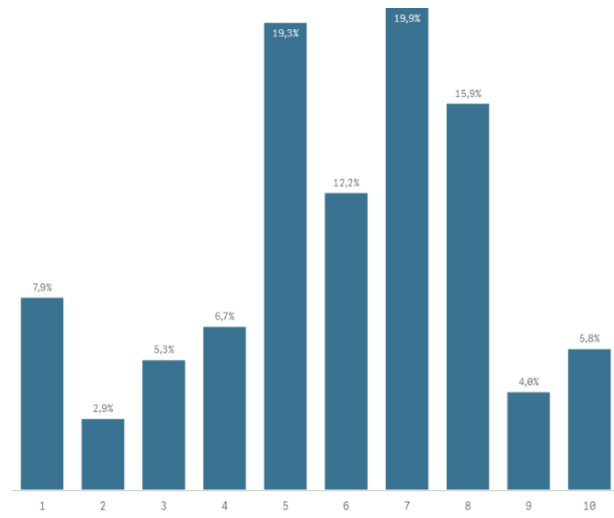
3.033



Satisfaction

Note: Satisfaction with SELFIE WBL, on a scale from 1 to 10.

Percentage frequency distribution
Percentage of each score over the total



Percentage frequency distribution by user profile



Participation
53
Average
7,49

Participation
252
Average
6,28

Participation
2.939
Average
5,80

Participation
Number of users

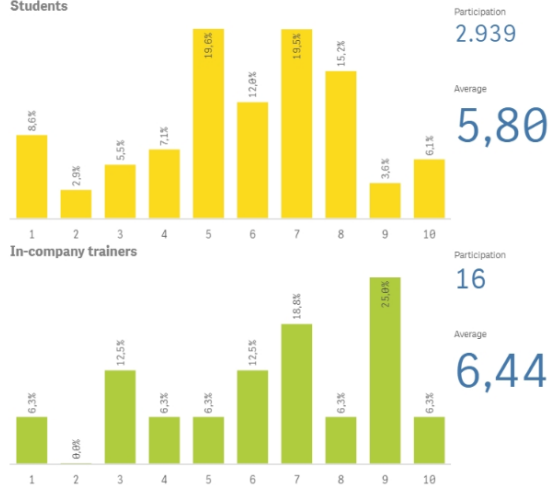
3.260

Number of countries

1

Number of schools and education levels

13

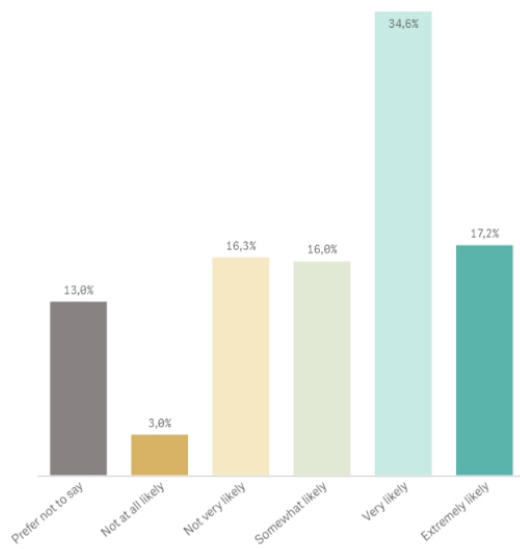


Participation
16
Average
6,44

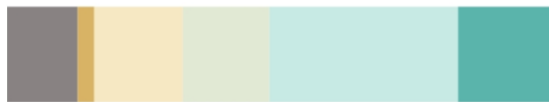
Likelihood of recommending SELFIE

Note: On a scale from 1 to 5

Frequency distribution
Frequency distribution



Percentage frequency distribution



Participation
Number of users

332

Number of countries

1

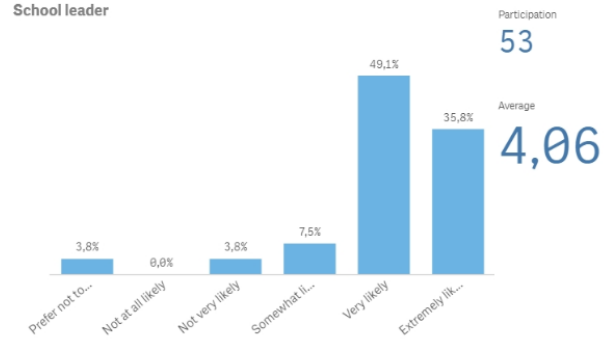
Average
Average score

3,08

Number of schools and education levels

13

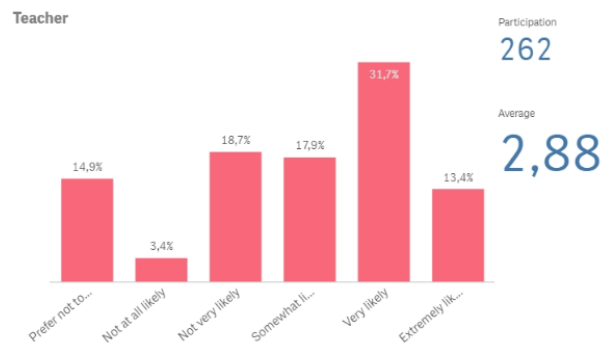
School leader



Participation
53

Average
4,06

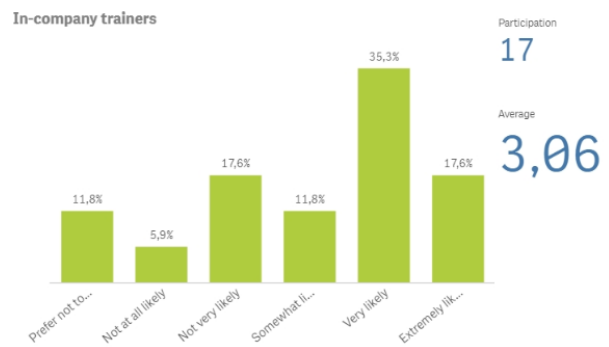
Teacher



Participation
262

Average
2,88

In-company trainers



Participation
17

Average
3,06

Annex 8. Country fiche



SELFIE WBL pilot implementation in FRANCE

March 2021

SELFIE team

Overall Management: Stefano Tirati, Maria João Proença (EFVET)

National Coordination: Claire Challande (SEPR)

Research Team: dr. Anita Goltnik Urnaut, Miha Zimšek, Alicia Leonor Sauli Miklavčič (Skupnost VSŠ)

Motivation and support measures

- Provided ongoing support to partners, VET schools and companies
- Developed guidelines and templates for webinars, focus groups, semi-structured interviews and challenges feedback
- Organized regular meetings
- Provided regular information on state-of-the-art of participation
- Supported and contributed to preparatory, follow-up and evaluation webinars
- Discussed approaches to cope with impact of COVID -19 to participation of stakeholders
- Promoted SELFIE WBL digital badges and personalized certificates

Participating actors and case studies

- 15 VET schools & 18 companies
- 53 school leaders, 262 teachers, 3033 students & 17 in-company trainers
- 21 focus groups (86 students/84 teachers), 22 interviews (14 school leaders/4 in-company trainer/4 school coordinators).

Key info on WBL system

- 39.9% of upper-secondary students are enrolled in VET.
- 33.3% of VET students participate in apprenticeships.
- Over 660.000 students are included in upper-secondary vocational education.

Preparation

Methodology of selection

VET Schools' diversity according to:

- **Size:** small (up to 500 WBL students), medium (up to 1000), large (over 1000)
- **Location:** urban (over 3000 inhabitants), rural (up to 3000 inhabitants)
- **Geographical coverage:** diversity of Integral Regions
- **Programme areas:** Agriculture/Food Industry, Biotechnology, Technology & Engineering, Tourism & Catering, Art & Design, Health & Welfare, Economy & Business

Companies' diversity according to:

- **Size:** small (up to 49 employees), medium (up to 249), large (over 250)
- **Economic areas:** Agriculture/Food Industry, Biotechnology, Technology & Engineering, Tourism & Catering, Art & Design, Health & Welfare, Economy & Business

Ultimate criterion: willingness and availability to participate.

Methodology of translation

- **Linguistic translation** focused on general language and terminology done by an external company and SEPR
- **Content-Focused Translation** focused on refining key concepts and terminology done by SEPR with the support of VET and WBL experts from 2 different VET schools
- **Contextual adaptation and usability** focused on clarity, contextual relevance, and ease of use done by SEPR with the support of VET and WBL experts from 2 different VET schools

Preparation of the pilot implementation

- Set organisational structure on project consortium and national level
- Established communication and language flow structures
- Created a joint repository for documents
- Defined tasks and provided guidelines for those
- Determined selection criteria for VET schools and companies
- Developed supporting project guidelines
- Prepared guidelines and templates for webinars, focus groups, semi-structured interviews and challenges feedback
- Arranged Preparatory Webinar: bringing together all stakeholders

Implementation

Process

- SELFIE WBL registration process very easy and clear.
- Limited activation period of SELFIE WBL survey to 3 weeks, digital badges.
- Allow VET schools to compare and position themselves compared to other national and European schools.
- The SELFIE WBL is very easy to use, complete, allows smooth navigation, anonymous.

Content

- Relevant subject areas of the SELFIE WBL are exhaustive and complete.
- The content of the SELFIE WBL self-reflection exercise is extensive, time consuming, and tiresome.
- Students were confused by questions that seemed repetitive although they were not.
- Some questions were too long and difficult to comprehend for students.
- School leaders appreciate the possibility have a state-of-the-art overview of school's digital practices.
- The translation and the vocabulary used shall be adapted to the national context.









Platform

- SELFIE WBL works on various devices, no technical problems reported.
- The supporting explanations to questions are useful for participants to understand more complex questions.
- No option of descriptive answer, allowing participants to further explain their answer.
- The SELFIE WBL acts as a trigger facilitating internal dialogue between stakeholders.
- Benchmarking – school leaders and teachers would like to compare results with other schools in France and other countries to understand their position.

<https://ec.europa.eu/education/schools-go-digital>






Ecosystem measures



-  The SELFIE WBL ecosystem is not operational yet.
-  Users (school leaders, teachers, in-company trainers) would like to integrate SELFIE WBL into other national initiatives and processes that already exist (e.g. QUALIOPI certification).
-  Users would appreciate direct links with other schools to share practical information, good practices and create partnerships in technology enhanced learning.
-  School leaders and teachers would particularly like to know what kind of practices in the use of digital technologies have been implemented by other schools, what works and what does not work.
-  The SELFIE WBL pilot came at the right time: as the SELFIE WBL school reports highlight the strengths and areas for improvement. Users believe the advantage of the SELFIE WBL is that it facilitates the discussion between stakeholders.
-  Users do not want to get involved in the SELFIE WBL tool in the future, unless they see a substantial improvements.
-  Participants are interested in the SELFIE WBL results in other countries. The majority expressed the interest of having a global reflection involving students, companies and school leaders. More than ever they remain interested in comparing the results, exchanging good practices with other schools (and countries), receive regular updates on each other's practices.
-  **Good practice:**
A school leader decided to elect 3 digital delegates (representative of students, teachers, and companies) to identify the needs and report them directly without an intermediary.










Other



-  Very positive aspect of the SELFIE WBL tool is that it can be used again and follow school's progress.
-  The SELFIE WBL school report in PDF is very useful and exhaustive. It opens new perspectives like the necessity to improve students' and teachers' digital skills and the need to support and train teachers who do not feel comfortable enough.
-  School coordinators report that they have to discuss the usefulness of the SELFIE WBL self-reflection tool with the companies as well.
-  **Impact:**
As a result of the SELFIE WBL report, some school leaders decided to invest into new equipment and infrastructure.
-  Stakeholders are willing to provide their opinion, participate in the preparation of the digital strategy and would like to feel included in the school action plan to address digital transformation.







Overall evaluation and future directions



-  The SELFIE WBL pilot is considered to have come "just in time" due to the pandemic experience.
-  Participants were highly motivated to establish the state-of-the-art of school's digital status, practices and recognized the added value of the SELFIE WBL self-reflection exercise in this process.
-  **Increased motivation:**
Participants are still very interested to know the SELFIE WBL self-reflection exercise and would like to further explore the use of digital technologies.
-  The maximum activation time of SELFIE WBL self-reflection exercise of 3 weeks was unanimously considered too short due to limited time vocational students are at school and is considered a weakness.
-  The answer scaling had a tendency towards the "middle" answer.
-  The SELFIE WBL report offers extensive, useful, clear feedback and is exclusively available only to the school.
-  Follow-up focus groups and interviews were considered a great advantage for additional clarification to the interpretation of SELFIE WBL results.
-  Possible integration of the SELFIE WBL personalised certificates and digital badges into the Europass Digital Credentials (digital file stored in a wallet of the Europass Library).
-  Teachers and school leaders would like to share practical information and good practices with other schools on national and European level, and also benefit from advices on important levers as well as pitfalls and dangers to avoid.

Implications of COVID-19



-  The pandemic has been a real accelerator to initiate the digital approach. The lockdown made all stakeholders realize they have to adapt extremely quickly and move forward even faster.
-  Before the pandemic, schools generally did not have a common strategy for using technology for teaching and learning. Because of to SELFIE WBL, some schools started to prepare their digital strategy.
-  Remote learning has its limits: participants report more work (overload) because of remote teaching and learning.
-  There was mostly no uniform approach in how to approach remote learning overnight.
-  Teachers' skills of using technology and software proved to be insufficient.
-  Some schools implemented a training module to offer teachers and students basic digital knowledge (how to use digital tools, share good practices among peers).

Annex 9. List of tools similar to SELFIE and other tools used in WBL

The goal was to map out existing self-reflection tools and other existing digital tools in the country and schools used in WBL contexts. This mapping and listing shall include official and available websites from governmental institutions responsible for overseeing WBL in the country and with different stakeholders engaged in the pilot.

Name of WBL tool	Link	Aim	Advantages
SELFIE WBL	https://ec.europa.eu/education/schools-go-digital_en	SELFIE is a free, online tool to help schools assess how they use digital technologies for innovative and effective learning.	SELFIE allows a school to monitor its progress over time and can help start a dialogue within the school on potential areas for improvement.
PIX	https://pix.fr/	PIX is the online public service for assessing, developing and certifying digital skills and basic digital knowledge and is included in the French Digital Competence Reference Framework (CRCN= Cadre de référence des compétences numériques).	The tool supports assessment in 5 areas, including 16 skills at 6 levels. Areas covered – information and data, communication and collaboration, content creation, protection and security, digital environment.

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Kataložni zapis o publikaciji (CIP) pripravili v Narodni in univerzitetni knjižnici v Ljubljani
COBISS.SI-ID 89685763
ISBN 978-92-76-45988-0 (PDF)



Publications Office
of the European Union

doi:10.2760/424070

ISBN 978-92-76-45988-0