

The Digital Competence Framework for Citizens

With eight proficiency levels and examples of use

Authors: Stephanie Carretero, Riina Vuorikari and Yves Punie

DigComp 2.1

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Title

DigComp 2.1: The Digital Competence Framework for Citizens with eight proficiency levels and examples of use

Abstract

DigComp 2.1 is a further development of the Digital Competence Framework for Citizens. Based on the reference conceptual model published in DigComp 2.0, we present now eight proficiency levels and examples of use applied to the learning and employment field.



The Digital Competence Framework for Citizens

With eight proficiency levels and examples of use

Preface

JRC research on Learning and Skills for the Digital Era started in 2005 with the aim to provide evidence-based policy support to the European Commission and the Member States on harnessing the potential of digital technologies to innovate education and training practices, improve access to lifelong learning and to deal with the rise of new (digital) skills and competences needed for employment, personal development and social inclusion. More than 20 major studies have been undertaken on these issues with more than 100 different publications.

The European Digital Competence Framework for Citizens¹, also known as DigComp, offers a tool to improve citizens' digital competence. DigComp was developed by the JRC as a scientific project and with intensive consultation of stakeholders, initially on behalf of DG EAC and, more recently, on behalf of DG EMPL. First published in 2013, DigComp has become a reference for the development and strategic planning of digital competence initiatives both at European and Member State level. In June 2016 JRC published DigComp 2.0, updating the terminology and conceptual model, as well as showcasing examples of its implementation at the European, national and regional level.

The current version is labelled DigComp 2.1 and it focuses on expanding the initial three proficiency levels to a more fine-grained eight level description as well as providing examples of use for these eight levels. Its aim is to support stakeholders with the further implementation of DigComp.

Other related JRC works on capacity building for the digital transformation of education and learning and for changing requirements on skills and competences has focussed on the development of:

¹ More information on: https://ec.europa.eu/jrc/en/digcomp

digital competence frameworks for educators (DigCompEdu),

educational organisations (DigCompOrg),

• consumers (DigCompConsumers).

A framework for opening-up Higher Education Institutions (OpenEdu) was also published

in 2016, as well as a competence framework for entrepreneurship (EntreComp). Some

of these frameworks are accompanied by (self-)assessment instruments. Additional

research has been undertaken on computational thinking (CompuThink), Learning Ana-

lytics, MOOC learners (MOOCKnowledge) and MOOCs and free digital learning opportu-

nities for migrants and refugees (MOOCs4inclusion).

More information from all our studies can be found on the JRC Science hub:

https://ec.europa.eu/jrc/en/research-topic/learning-and-skills

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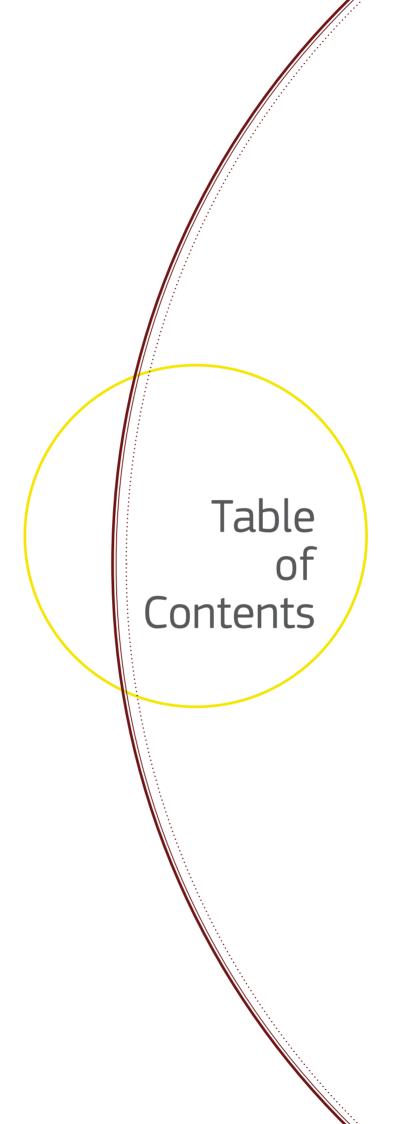
DigCompEdu: https://ec.europa.eu/jrc/en/digcompedu DigCompOrg: https://ec.europa.eu/jrc/en/digcomporg

DigCompConsumers: https://ec.europa.eu/jrc/en/digcompconsumers

OpenEdu: https://ec.europa.eu/jrc/en/open-education

EntreComp: https://ec.europa.eu/jrc/en/entrecomp

CompuThink: https://ec.europa.eu/jrc/en/computational-thinking



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Introduction

The report presents the latest version of the Digital Competence Framework for Citizens (DigComp)² which was elaborated by the Human Capital and Employment Unit (Joint Research Centre) on behalf of the Directorate General for Employment, Social Affairs and Inclusion of the European Commission.

The DigComp Framework has 5 dimensions:

Dimension 1: Competence areas identified to be part of digital competence

Dimension 2: Competence descriptors and titles that are pertinent to each area

Dimension 3: Proficiency levels for each competence

Dimension 4: Knowledge, skills and attitudes applicable to each competence

Dimension 5: Examples of use, on the applicability of the competence to

different purposes

Two of the dimensions in the earliest version of the Framework (DigComp 1.0 published in 2013) were updated in 2016, namely Dimension 1 (the competence areas) and Dimension 2 (the descriptors and titles). The updated version became DigComp 2.0³. This report presents the latest version of the Framework – DigComp 2.1 – which includes further updates. Dimension 3 now has eight proficiency levels and Dimension 5 has new examples of use⁴.

Section 2 of this report explains the eight proficiency levels and describes the examples of use. Section 3 presents the new Framework in detail. Significant effort has been dedicated to the lay-out and graphical representation of DigComp 2.1 to increase readability for all stakeholders interested in implementing the framework. As a reminder, in the next page an overview of DigComp 2.0 is presented, indicating the changes for DigComp 2.1.

² Information on DigComp: https://ec.europa.eu/jrc/en/digcomp

 $^{^3\,\}text{DigComp}$ 2.0 is available at: http://europa.eu/!HV34YF

⁴ DigComp 2.1 does not include an update of dimension 4, we prefer focusing on proving examples of use applied to the field of employment and learning due to their policy relevance.

DigComp 2.0) (year 2016)	DigComp 2.	1 (year 2017)	
Competence areas (dimension 1)	Competences (dimension 2)	Proficiency levels (dimension 3)	Examples of use (dimension 5)	
1. Information and data literacy	1.1 Browsing, searching and filtering data, information and digital content 1.2 Evaluating data, information and digital content 1.3 Managing data, information and digital content			
2. Communication and collaboration	2.1 Interacting through digital technologies 2.2 Sharing through digital technologies 2.3 Engaging in citizenship through digital technologies 2.4 Collaborating through digital technologies 2.5 Netiquette 2.6 Managing digital identity		Examples of use of the	
3. Digital content creation	3.1 Developing digital content 3.2 Integrating and re-elaborating digital content 3.3 Copyright and licences 3.4 Programming	Eight proficiency levels for each of the 21 competences	eight proficiency levels applied to learning and employment scenario ir the 21 competences	
4. Safety	4.1 Protecting devices 4.2 Protecting personal data and privacy 4.3 Protecting health and well-being 4.4 Protecting the environment			
5. Problem solving	5.1 Solving technical problems 5.2 Identifying needs and technological responses 5.3 Creatively using digital technologies 5.4 Identifying digital competence gaps			

The eight proficiency levels and examples of use

DigComp 1.0 Framework had three proficiency levels in Dimension 3 (foundation, intermediate and advanced). These have now been increased to **eight levels** in DigComp 2.1. A wider and more detailed range of proficiency levels supports the development of learning and training materials. It also helps in the design of instruments for assessing the development of citizens' competence, career guidance and promotion at work.

Eight proficiency levels for each competence have been defined through learning outcomes (using action verbs, following Bloom's taxonomy) and inspired by the structure and vocabulary of the European Qualification Framework (EQF). Moreover, each level description contains knowledge, skills and attitudes, described in one single descriptor for each level of each competence; this equals to 168 descriptors (8 x 21 learning outcomes). An online validation survey helped to revise a first version of the levels, and to produce a final version.

As shown in Table 1 on the following page, each level represents a step up in citizens' acquisition of the competence according to its cognitive challenge, the complexity of the tasks they can handle and their autonomy in completing the task. To illustrate this point, we could say that a citizen at level 2 is able to remember and to carry out a simple task with help from somebody with digital competence only when she/he needs it. A citizen at level 5, however, can apply the knowledge, carry out different tasks and solve problems and also helps others to do so. We can also see that the first six proficiency levels of the new Framework are linked to the three levels originally identified in DigComp 1.0. A new highly-specialised level has been added to the latest version of the Framework which includes levels seven and eight. The information in Table 1 (page 13) is graphically represented on the infographics on page 14 and 15.

Table 1: Main keywords that feature the proficiency levels

Levels in DigComp 1.0	Levels in DigComp 2.1	Complexity of tasks	Autonomy	Cognitive domain
	1	Simple tasks	With guidance	Remembering
Foundation	2	Simple tasks	Autonomy and with guidance where needed	Remembering
	3	Well-defined and routine tasks, and straightforward problems	On my own	Understanding
Intermediate	4	Tasks, and well-defined and non-routine problems	Independent and according to my needs	Understanding
Advanced	5	Different tasks and problems	Guiding others	Applying
Auvanceu	6	Most appropriate tasks	Able to adapt to others in a complex context	Evaluating
Highly	7	Resolve complex problems with limited solutions	Integrate to contribute to the professional prac- tice and to guide others	Creating
specialised	8	Resolve complex problems with many interacting factors	Propose new ideas and processes to the field	Creating



The Figure 1 below gives a detailed explanation of how the competences are presented in the Section 3 of this report.

- The Competence Areas (dimension 1) and their Competence title and Competence descriptor (dimension 2) appear on the vertical banner, which colour changes depending on the Competence area.
- The first row shows the names of the **8 Proficiency Levels** (dimension 3) according to the version 2.1 (level 1, level 2, etc). In parallel, the name of the levels according to DigComp 1.0 is stated (Foundation, Intermediate, etc.).
- In the second row, we can see the description for each proficiency level related to the complexity of the tasks and problems and the level of autonomy, together with the description of the competence in terms of learning outcomes. Each bullet corresponds to one descriptor of the competence, and each action verbs and key words are in bold.

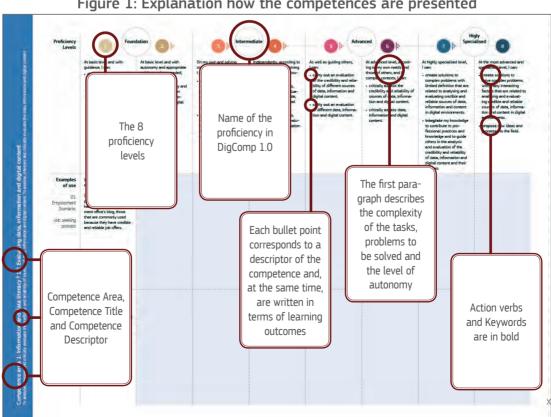


Figure 1: Explanation how the competences are presented

The **examples of use** (dimension 5 of the framework) have also been updated and contextualised in scenarios for two areas of use: **employment and learning**. These illustrate the eight proficiency levels to help future implementation of DigComp 2.1.

As we can see in the Section 3 of this report, the examples of use are presented as follows:

- We include examples of proficiency levels for two areas of use: employment and learning.
- We include scenarios for each competence area and area of use in order to contextualise the examples.
- We have elaborated examples for the two areas of use in each proficiency levels. In this version 2.1, the examples for the 8 levels are only available in the first competence (1.1), for the rest of competences we provide an example per level and area of use⁵.

In order to give examples in the same number of proficiency levels and to have the same number of examples across the levels, we have followed a "cascade" strategy: for one competence we have written the examples for one level, and in the following competence we have written the example in the following level, and so on. For example, competences 1.1 and 1.2 have has an example for level 1, competence 1.3 for level 2, competence 1.4 for level 3, etc.

The progression of the proficiency levels of the competences, their learning outcomes and practical application shown in the "Examples of use" have been made more understandable on the fold-out table (Competence 1.1) at page 19.

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⁵ We do not provide examples for all the proficiency levels, because the nature of the framework is descriptive and their aim is to illustrate the proficiency levels.

Here comic strips have been used in order to showcase one example of use for an employment scenario and one example of use for a learning scenario in competence 1.1.

Concretely, the comic strips allow the reader to easily understand the progression in the acquisition of a digital competence, and therefore it is a support for the stakeholders willing to implement the framework.

At basic level and with guidance, I can: identify my information needs, • find data, information and content through a simple search in digital environments, **find** how to access these data, information and content and navigate between them. identify simple personal search strategies. Examples With help from an employment adviser: of use I can identify, from a list, those job portals which can help me look for a job. **Employment** I can also find these job portals in my smart-Scenario: phone's app store, and access and navigate between them. Job seeking process From a list of generic keywords for job seeking available in a blog on job hunting, I can also identify the keywords that are useful for me.

Proficiency

Levels

At basic level and with autonomy and appropri-

Foundation

- ate guidance where needed, I can: • identify my information needs.
- find data, information and content through a simple search in digital environments,
- find how to access these data, information and content and navigate between them.
- · identify simple personal search strategies.

With the help if necessary of an employment

I can identify, from a list, those job portals which

I can also find these job portals in my smart-

phone's app store, and access and navigate

From a list of generic keywords for job seeking

available in a blog on job hunting, I can also

identify the keywords that are useful for me.

can help me look for a job.

between them.

On my own and solving straightforward problems. I can:

• explain my information needs.

me look for a job.

navigate between them.

and apps in my smartphone.

from portals that I routinely use.

- perform well-defined and routine searches to find data, information and content in digital environments
- explain how to access them and navigate between them.
- explain well-defined and routine personal search strategies.

I can name the job portals I routinely use to help

I can use well-defined keywords to find jobs por-

tals in my smartphone's app store, and explain

to the employment adviser how I access and

I can explain to the employment adviser why I

usually use certain keywords to find job portals

I can fix problems such as accessing to the

wrong portal or job app, or navigating away

Independently, according to my own needs, and solving well-defined and non-routine problems, I can:

- illustrate information needs,
- organise the searches of data, information and content in digital environments,
- describe how to access to these data, information and content, and navigate between
- organise personal search strategies.

I can give examples to the employment adviser of suitable job portals or apps that I use as for my job seeking needs.

I can organise my own search strategy such as using keywords and checking apps' evaluation, in order to find suitable apps on my smartphone that fit with my job seeking profile.

I can describe to the employment adviser how I access and navigate between the apps I have found through this organised search strategy.

I can organise a list of keywords that are useful for finding job portals and apps with job offers related to my job profile on my smartphone.

While I am doing these activities, I can resolve issues such as evaluate new apps that come up in my smartphone's app store as a result of my search, or add new keywords to my personal search strategy.

As well as guiding others, I can: • respond to information needs.

- apply searches to obtain data, information and content in digital environments,
- show how to access to these data, information and content and navigate between them.
- propose personal search strategies.

When job seeking, I can find job portals and

I can also show a friend how to find apps on

I can offer a friend my tips on job seeking containing the main keywords, job ads, blogs, wikis, apps and portals I use when job seeking, and share it with other job seekers.

At advanced level, according to my own needs and those of others, and in complex contexts, I

- assess information needs,
- adapt my searching strategy to find the most **appropriate** data, information and content in digital environments,
- explain how to access to these most appropriate data, information and content and navigate among them.
- vary personal search strategies.

I can assess the most appropriate job portals for job vacancies according to my job seeking needs

I can find the job apps adapted to my job seeking needs and those of a friend. I can differentiate between appropriate and inappropriate apps, and pop-up information or spam while I am accessing and navigating between apps.

I can explain to other job seekers how I perform these searches, and I can overcome unexpected situations that arise in the digital environment (spam, inappropriate job portals, problems with

the most appropriate keywords, job ads, blogs, wikis, apps and portals adapted to different job profiles, and give examples on how to overcome complex situations when job seeking (e.g. not

At highly specialised level, I can:

- create solutions to complex problems with limited definition that are related to browsing, searching and filtering of data, information and digital content.
- integrate my knowledge to contribute to professional practice and knowledge and guide others in browsing, searching and filtering data, information and digital content.

At the most advanced and specialised level, I can:

Specialised

- · create solutions to solve complex prob**lems with many interacting factors** that are related to browsing, searching and filtering data, information and digital content.
- propose new ideas and processes to the field.

I can create a digital collaborative platform I can create new apps or platforms for browsing, (blog, wiki, etc.) which can be used by other job searching and filtering job portals and offers, seekers to browse and filter job portals and according to job seekers' needs. offers according to their job seeking needs

apps related to my job profile in any digital environment, either the routine or new ones (OS, and those of a friend. apps, devices).

Advanced

her smartphone, using different keywords and evaluation criteria to select those that fit her job

I can explain to her how to access and navigate between these apps to find appropriate job

the downloading, etc.) in order to find appropriate job offers on my smartphone. I can share my tips on job seeking containing

finding appropriate job ads, fake or old job ads).









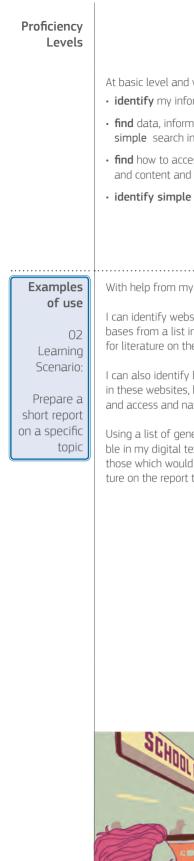








Proficiency Levels Examples of use Learning Scenario: Prepare a short report on a specific topic



























- At basic level and with guidance, I can:
- identify my information needs,
- find data, information and content through a simple search in digital environments,
- **find** how to access these data, information and content and navigate between them.
- identify simple personal search strategies
- At basic level and with autonomy and appropriate guidance where needed, I can:
- identify my information needs,
- find data, information and content through a simple search in digital environments,
- find how to access these data, information and content and navigate between them.
- identify simple personal search strategies.
- On my own and solving straightforward problems. I can:
- explain my information needs,
- perform well-defined and routine searches to find data, information and content in digital
- explain how to access them and navigate between them.
- explain well-defined and routine personal search strategies.
- Independently, according to my own needs, and solving well-defined and non-routine problems,
 - illustrate information needs,
 - **organise** the searches of data, information and content in digital environments,
 - describe how to access to these data, information and content, and navigate between
 - organise personal search strategies.

As well as guiding others, I can:

• respond to information needs.

- apply searches to obtain data, information and content in digital environments,
- show how to access to these data, information and content and navigate between them.
- propose personal search strategies.
- At advanced level, according to my own needs and those of others, and in complex contexts, I
- assess information needs,
- adapt my searching strategy to find the most appropriate data, information and content in digital environments,
- explain how to access to these most appropriate data, information and content and navigate among them.
- vary personal search strategies.

I can assess the most appropriate websites, blogs and digital databases to obtain the literature according to my need and those of a friend.

I can find websites, blogs and digital databases adapted to my needs and those of a friend, and differentiate between appropriate and inappropriate digital resources, pop-up information or spam while I am accessing and navigating among them.

I can explain to my teacher how I perform these searches, and overcome unexpected situations that arise on the digital environment (e.g. need a username to access a digital library archives) to find literature for writing the report.

I can give tips highlighting my personal strategy for finding the most appropriate literature in websites, blogs and digital databases, including examples on how I can overcome the complexity that occurs while navigating among these digital resources (e.g. not finding enough literature, junk At highly specialised level, I can:

- create solutions to complex problems with limited definition that are related to browsing, searching and filtering of data, information and digital content.
- integrate my knowledge to contribute to professional practice and knowledge and guide others in browsing, searching and filtering data, information and digital content.

At the most advanced and specialised level, I can:

- · create solutions to solve complex prob**lems with many interacting factors** that are related to browsing, searching and filtering data, information and digital content.
- propose new ideas and processes to the field.

With help from my teacher:

I can identify websites, blogs and digital databases from a list in my digital textbook to look for literature on the report topic.

I can also identify literature on the report topic in these websites, blogs and digital databases, and access and navigate among them.

Using a list of generic keywords and tags available in my digital textbook, I can also identify those which would be useful for finding literature on the report topic

In the classroom with my teacher who I can consult whenever I need:

I can identify websites, blogs and digital databases from a list in my digital textbook to look for literature on the report topic.

I can also identify literature on the report topic in these websites, blogs and digital databases, and access and navigate among them.

Using a list of generic keywords and tags available in my digital textbook, I can also identify those which would be useful for finding literature on the report topic.

I can name to my teacher websites, blogs and digital databases I routinely access on my computer in order to consult literature for my homework.

I can also use well-defined keywords to find literature resources in websites, blogs and digital databases, and explain how I access and navigate between the results I find.

I can explain to my classmates those keywords and tags I usually use to find literature in digital environments (blogs, websites, databases) to prepare my homework.

I can fix problems such as identifying that I have accessed the wrong website, or that I am navigating away from my routinely-used websites.

I can give examples to my classmates of websites, blogs and digital databases I consult to find the literature on my report topic.

I can organise my own search strategy to find these websites, blogs and digital databases containing literature related to my report topic.

I can describe to my teacher how I access and navigate between websites, blogs and digital database to find the literature I obtained through this organised search.

I can organise, with digital and online sticky notes on my tablet, a list of useful keywords and tags for finding literature related to the report topic.

I can respond to any issue while I am doing these activities. For example, I can add new keywords and tags to my personal search strategies if I don't find appropriate resources related to the report topic.

For preparing the report, I can access websites, blogs and digital databases to find literature related to the topic, using any digital environment, either the routine or new ones (OS, apps,

I can show a classmate how to find on her tablet, websites, blogs and digital databases containing the literature for the report.

I can explain her how to access and navigate between these digital resources in order to find literature for her report.

I can offer a friend my tips on how I find websites, blogs and digital database with literature related to the report using keywords and tags.

I can create a digital collaborative platform (blog, wiki, etc.) in the digital learning environment of the school, to share and filter literature I found useful on the topic of the report, guiding my classmates in writing their report.

I can develop a new app or platform for browsing, searching and filtering literature on academic topics to be used by the classroom.



















The competences

This section shows each competence of DigComp 2.1 in a table with four dimensions: dimension 1 (competence area), dimension 2 (competence title and descriptor), dimension 3 (proficiency levels), and dimension 5 (examples of use). We remind here that DigComp 2.1 does not include dimension 4 (knowledge, skills and attitudes).

Competence area 1: Information and data literacy

- 1.1 Browsing, searching, filtering data, information and digital content
- 1.2 Evaluating data, information and digital content
- 1.3 Managing data, information and digital content

Competence area 2: Communication and collaboration

- 2.1 Interacting through digital technologies
- 2.2 Sharing throught digital technologies
- 2.3 Engaging in citizenship through digital technologies
- 2.4 Collaborating through digital technologies
- 2.5 Netiquette
- 2.6 Managing digital identity

Competence area 3: Digital content creation

- 3.1 Developing digital content
- 3.2 Integrating and re-elaborating digital content
- 3.3 Copyright and licences
- 3.4 Programming

Competence area 4: Safety

- 4.1 Protecting devices
- 4.2 Protecting personal data and privacy
- 4.3 Protecting health and well-being
- 4.4 Protecting the environment

Competence area 5: Problem solving

- 5.1 Solving technical problems
- 5.2 Identifying needs and technological responses
- 5.3 Creatively using digital technologies
- 5.4 Identifying digital competence gaps





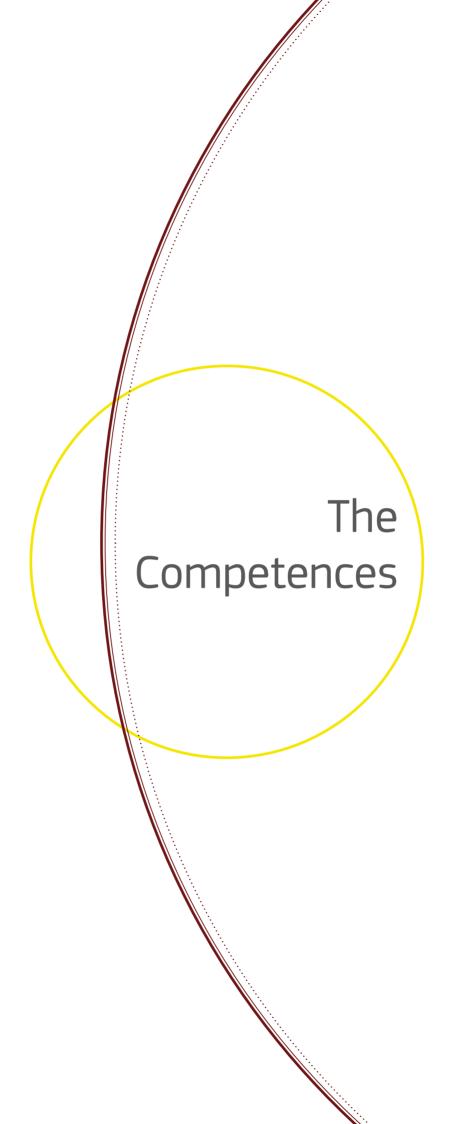












Intermediate

Advanced

Foundation

Proficiency

Higly

Specialised

Proficiency Levels	Found	dation	3 Interm	nediate 4	Adva	anced 6	Hig 7 Specia	
	At basic level and with guidance, I can: • detect the credibility and reliability of common sources of data, information and their digital content.	At basic level and with autonomy and appropriate guidance where needed, I can: • detect the credibility and reliability of common sources of data, information and their digital content.	On my own and solving straightforward problems, I can: • perform the analysis, comparison and evaluation of the credibility and reliability of well-defined sources of data, information and digital content. • perform the analysis, interpretation and evaluation of well-defined data, information and digital content	Independently, according to my own needs, and solving well-defined and non-routine problems, I can: • perform the analysis, comparison and evaluation of sources of data, information and digital content. • perform the analysis, interpretation and evaluation of data, information and digital content.	As well as guiding others, I can: • carry out an evaluation of the credibility and reliability of different sources of data, information and digital content. • carry out an evaluation of different data, information and digital content.	At advanced level, according to my own needs and those of others, and in complex contexts, I can: critically assess the credibility and reliability of sources of data, information and digital content. critically assess data, information and digital content.	At highly specialised level, I can: • create solutions to complex problems with limited definition that are related to analysing and evaluating credible and reliable sources of data, information and content in digital environments. • integrate my knowledge to contribute to professional practices and knowledge and to guide others in the analysis and evaluation of the credibility and reliability of data, information and digital content and their sources.	At the most advanced and specialised level, I can: • create solutions to solve complex problems with many interacting factors that are related to analysing and evaluating credible and reliable sources of data, information and content in digital environments. • propose new ideas and processes to the field.
Examples of use	With help from an employ- ment adviser:							
O1 Employment Scenario: Job seeking process	I can identify in a list of job portals and apps a friend has found in an employ- ment office's blog, those that are commonly used because they have credible and reliable job offers.							
Examples of use 02 Learning Scenario: Prepare a short report on a specific topic	Helped by my teacher: I can identify, from a list in my textbook of blogs and digital databases containing available literature, those that are commonly used because they are credible and reliable.							

Competence area 1: Information and data literacy : 1.3 Managing data, information and digital content To organise, store and retrieve data, information, and content in digital environments. To organise and process them in a structured environment.

Higly

Proficiency Levels	Foun	dation	Intern	nediate 4	Adva	anced 6		gly alised 8	
	At basic level and with guidance, I can: • select simple digital technologies to interact, and • identify appropriate simple communication means for a given context.	At basic level and with autonomy and appropriate guidance where needed, I can: • select simple digital technologies to interact, and • identify appropriate simple communication means for a given context.	On my own and solving straightforward problems, I can: • perform well-defined and routine interactions with digital technologies, and • select well-defined and routine appropriate digital communication means for a given context.	Independently, according to my own needs, and solving well-defined and non-routine problems, I can: • select a variety of digital technologies to interact, and • select a variety of appropriate digital communication means for a given context.	As well as guiding others, I can: • use a variety of digital technologies in order to interact, • show others the most appropriate digital communication means for a given context	At advanced level, according to my own needs and those of others, and in complex contexts, I can: • adapt a variety of digital technologies for the most appropriate interaction, and • adapt the most appropriate communication means for a given context.	At highly specialised level, I can: • create solutions to complex problems with limited definition that are related to interacting through digital technologies and digital communication means. • integrate my knowledge to contribute to professional practices and knowledge and to guide others in the interaction through digital technologies.	At the most advanced and specialised level, I can: • create solutions to solve complex problems with many interacting factors that are related to interacting through digital technologies and digital communication means • propose new ideas and processes to the field.	
Examples of use 01 Employment Scenario: Organise an event			By myself: I can interact with participants and other colleagues using my corporate email account app on my smartphone in order to organise an event for my company. I can also select options available in my email suite to organise the event, such as sending calendar invitations. I can fix problems, e.g. an incorrect email address.						
Examples of use 02 Learning Scenario: Prepare group work with my classmates			By myself: I can use a commonly-used chat on my smartphone (e.g. Facebook messenger or WhatsApp) to talk to my classmates and organise group work. I can choose other digital communication means on the classroom tablet (e.g. my classroom forum) that could be useful to talk about the details of organising group work. I can fix problems such as adding or deleting members to the chat group.						

							Higly	
Proficiency Levels	Found	dation	Interm	ediate 4	5 Adva	anced 6	7 Speci	alised 8
Leveis	· · · · · · · · · · · · · · · · · · ·		· · · · · · · · · · · · · · · · · · ·					
	At basic level and with guidance, I can: • recognise simple appropriate digital technologies to share data, information and digital content. • identify simple referencing and attribution practices.	At basic level and with autonomy and appropriate guidance where needed, I can: • recognise simple appropriate digital technologies to share data, information and digital content. • identify simple referencing and attribution practices.	On my own and solving straightforward problems, I can: • select well-defined and routine appropriate digital technologies to share data, information and digital content. • explain how to act as an intermediary for sharing information and content through well-defined and routine digital technologies, • illustrate well-defined and routine referencing and attribution practices.	Independently, according to my own needs, and solving well-defined and non-routine problems, I can: • manipulate appropriate digital technologies to share data, information and digital content. • explain how to act as an intermediary for sharing information and content through digital technologies, • illustrate referencing and attribution practices.	As well as guiding others, I can: • share data, information and digital content through a variety of appropriate digital tools, • show others how to act as an intermediary for sharing information and content through digital technologies. • apply a variety of referencing and attribution practices.	At advanced level, according to my own needs and those of others, and in complex contexts, I can: - assess the most appropriate digital technologies to share information and content. - adapt my intermediation role, - vary the use of the more appropriate referencing and attribution practices.	At highly specialised level, I can: create solutions to complex problems with limited definition that are related to sharing through digital technologies. integrate my knowledge to contribute to professional practices and knowledge and guide others in sharing through digital technologies.	At the most advanced and specialised level, I can: • create solutions to solve complex problems with many interacting factors that are related to sharing through digital technologies. • propose new ideas and processes to the field.
Examples				I can use my company's		<u>:</u>		
of use				digital storage system to share the event's agenda with the list of participants I created on my PC.				
Employment Scenario:				I can show my colleagues				
Organise an event				on their smartphones how to access and share the agenda using my organ- isation's digital storage system.				
				I can show my boss examples on her tablet of the digital sources I use to design the event's agenda.				
				I can respond to any issue while I am doing these activities, such as unexpected problems with sharing the agenda with the participants.				
Examples of use 02 Learning				I can use a cloud-based storage system (e.g. Dropbox, Google Drive) to share material with other members of my group.				
Scenario: Prepare group work with my				I can explain to other mem- bers of my group, using the class laptop, how I share the material in the digital storage system.				
classmates				I can show my teacher, on her tablet, the digital sources I use to prepare the material for group work.				
				While I am doing these activities, I can solve any issue that may arise such as solving problems to do with storage or sharing material with other members of my group.				

Proficiency	Found	dation	Intermediate		Advanced 6		Higly Specialised	
Levels		2	3	4	5	6	7	8
	At basic level and with guidance, I can: • identify simple digital services in order to participate in society. • I can recognise simple appropriate digital technologies to empower myself and to participate in society as a citizen.	At basic level and with autonomy and appropriate guidance where needed, I can: • identify simple digital services in order to participate in society. • recognise simple appropriate digital technologies to empower myself and to participate in society as a citizen.	On my own and solving straightforward problems, I can: • select well-defined and routine digital services in order to participate in society. • indicate well-defined and routine appropriate digital technologies to empower myself and to participate in society as a citizen.	Independently, according to my own needs, and solving well-defined and non-routine problems, I can: • select digital services in order to participate in society. • discuss appropriate digital technologies to empower myself and to participate in society as a citizen.	As well as guiding others, I can: • propose different digital services to participate in society. • use appropriate digital technologies to empower myself and to participate in society as a citizen.	At advanced level, according to my own needs and those of others, and in complex contexts, I can: • vary the use of the most appropriate digital services in order to participate in society. • vary the use of the most appropriate digital technologies to empower myself and to participate in society as a citizen.	At highly specialised level, I can: • create solutions to complex problems with limited definition that are related to engaging in citizenship through digital technologies. • integrate my knowledge to contribute to professional practices and knowledge and guide others in engaging in citizenship through digital technologies.	At the most advanced and specialised level, I can: • create solutions to solve complex problems with many interacting factors that are related to engaging in citizenship through digital technologies. • propose new ideas and processes to the field.
Examples of use 01 Employment Scenario: Organise an event					I can propose and use different media strategies (e.g. Survey on FaceBook, Hastags on Instagram and Twitter) to empower the citizens of my city to participate in defining the main topics of an event on the use of sugar in food production. I can inform my colleagues about these strategies and show them how to use a particular one to empower citizens to participate.			
Examples of use 02 Learning Scenario: Prepare group work with my classmates					I can propose and use different micro-blogs (e.g. Twitter), blogs and wikis, for a public consultation regarding social inclusion of migrants in my neighbour-hood to collect proposals on the topic of the group work. I can inform my classmates about these digital platforms and guide them on how to use a particular one to empower citizenship participation in their neighbourhood.			

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Proficiency Levels	Found	dation	Intern	nediate 4	Adva	anced 6		gly alised 8
	At basic level and with guidance, I can: • choose simple digital tools and technologies for collaborative processes.	At basic level and with autonomy and appropriate guidance where needed, I can: • choose simple digital tools and technologies for collaborative processes.	On my own and solving straightforward problems, I can: • select well-defined and routine digital tools and technologies for collaborative processes.	Independently, according to my own needs, and solving well-defined and non-routine problems, I can: • select digital tools and technologies for collaborative processes.	As well as guiding others, I can: • propose different digital tools and technologies for collaborative processes.	At advanced level, according to my own needs and those of others, and in complex contexts, I can: • vary the use of the most appropriate digital tools and technologies for collaborative processes. • choose the most appropriate digital tools and technologies for co-constructing and co-creating data, resources and knowledge.	At highly specialised level, I can: • create solutions to complex problems with limited definition that are related to using collaborative processes and co-construction and co-creation of data, resources and knowledge through digital tools and technologies. • integrate my knowledge to contribute to professional practice and knowledge and guide others in collaborating through digital technologies.	At the most advanced and specialised level, I can: • create solutions to solve complex problems with many interacting factors that are related to using collaborative processes and co-construction and co-creation of data, resources and knowledge through digital tools and technologies. • propose new ideas and processes to the field.
Examples of use						I can use the most appropriate digital tools at work (e.g. Dropbox, Google Drive, wiki) to create with my col- leagues a leaflet and a blog on the		
01 Employment Scenario:						event. I can also differentiate between appro-		
Organise an event						priate and inappropriate digital tools for collaborative processes. The latter are those tools that do not address the purpose and scope of the task - e.g. two people editing text simultaneously using a wiki is impractical. I can overcome unexpected situations		
						that can arise in the digital environ- ment when co-creating the leaflet and the blog (e.g. controlling access to edit documents or a colleague cannot save changes to the material).		
Examples of use 02 Learning Scenario:						I can use the most appropriate digital resources in order to create a video related to the work on my tablet with my classmates. I can also differentiate between appropriate and inappropriate digital resources to create this video and work in a digital environment		
Prepare group work with my classmates						I can overcome unexpected situations that arise on the digital environment when co-creating data and content and making a video on group work. (e.g. a file is not updating the changes made by the members, a member doesn't know how to upload a file in the digital tool).		

Proficiency Levels	Found	dation	3 interm	nediate 4	Adva	anced 6		gly alised 8
	At basic level and with guidance, I can: • differentiate simple behavioural norms and know-how while using digital technologies and interacting in digital environments. • choose simple communication modes and strategies adapted to an audience and • differentiate simple cultural and generational diversity aspects to consider in digital environments.	At basic level and with autonomy and appropriate guidance where needed, I can: • differentiate simple behavioural norms and know-how while using digital technologies and interacting in digital environments. • choose simple communication modes and strategies adapted to an audience and • differentiate simple cultural and generational diversity aspects to consider in digital environments.	On my own and solving straightforward problems, I can: • clarify well-defined and routine behavioural norms and know-how while using digital technologies and interacting in digital environments. • express well-defined and routine communication strategies adapted to an audience and • describe well-defined and routine cultural and generational diversity aspects to consider in digital environments.	Independently, according to my own needs, and solving well-defined and non-routine problems, I can: • discuss behavioural norms and know-how while using digital technologies and interacting in digital environments. • discuss communication strategies adapted to an audience and • discuss cultural and generational diversity aspects to consider in digital environments.	As well as guiding others, I can: • apply different behavioural norms and know-how while using digital technologies and interacting in digital environments. • apply different communication strategies in digital environments adapted to an audience and • apply different cultural and generational diversity aspects to consider in digital environments.	At advanced level, according to my own needs and those of others, and in complex contexts, I can: • adapt the most appropriate behavioural norms and know-how while using digital technologies and interacting in digital environments. • adapt the most appropriate communication strategies in digital environments to an audience and • apply different cultural and generational diversity aspects in digital environments.	At highly specialised level, I can: • create solutions to complex problems with limited definition that are related to digital etiquettes respectful to different audiences and cultural and generational diversity. • integrate my knowledge to contribute to professional practice and knowledge and guide others in digital etiquette.	At the most advanced and specialised level, I can: • create solutions to solve complex problems with many interacting factors that are related to digital etiquettes respectful to different audiences and cultural and generational diversity. • propose new ideas and processes to the field.
Examples of use 01 Employment Scenario: Organise an event							While organising an event for my organisation, I can solve problems that arise while writing and communicating in digital environments, (e.g. inappropriate comments about my organisation in a social network). I can create rules from this practice for my current and future colleagues to implement and use as a guide.	
Examples of use 02 Learning Scenario: Prepare group work with my classmates							I can solve problems of etiquette that arise with my classmates while using a digital collaborative platform (blog, wiki, etc.) for group work (e.g. classmates criticising each other). I can create rules for appropriate behaviour while working online as a group which can be used and shared in the school's digital learning environment. I can also guide my classmates as to what constitutes appropriate digital behaviour while working with others on a digital platform.	

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Found	dation	Interm	nediate:	Adv	anced :	Sneci	
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·						· · · · · · · · · · · · · · · · · · ·	
At basic level and with guidance, I can: • identify a digital identity, • describe simple ways to protect my reputation online, • recognise simple data I produce through digital tools, environments or services.	At basic level and with autonomy and appropriate guidance where needed, I can: • identify a digital identity, • describe simple ways to protect my reputation online, • recognise simple data I produce through digital tools, environments or services.	On my own and solving straightforward problems, I can: • discriminate a range of well-defined and routine digital identities, • explain well-defined and routine ways to protect my reputation online, • describe well-defined data I routinely produce through digital tools, environments or services.	Independently, according to my own needs, and solving well-defined and non-routine problems, I can: • display a variety of specific digital identities, • discuss specific ways to protect my reputation online, • manipulate data I produce through digital tools, environments or services.	As well as guiding others, I can: • use a variety of digital identities, • apply different ways to protect my reputation online, • use data I produce through several digital tools environment and services.	At advanced level, according to my own needs and those of others, and in complex contexts, I can: discriminate multiple digital identities, explain the more appropriate ways to protect one's own reputation, change the data produced through several tools, environments and services.	At highly specialised level, I can: • create solutions to complex problems with limited definition that are related to managing digital identities and protection of people's online reputation. • integrate my knowledge to contribute to professional practice and knowledge and guide others in managing digital identity.	At the most advanced and specialised level, I can: • create solutions to solve complex problems with many interacting factors that are related to managing digital identities and protection of people's online reputation. • propose new ideas and processes to the field.
							I can propose to my boss a
							new social media procedure that avoids actions which could harm our company's digital reputation (e.g. spam) when promoting the company's events.
			<u> </u>		<u>:</u>		
							I can propose a new procedure to my school that avoids the publication of digital content (texts, pictures, videos), that can harm the students' reputation.
	At basic level and with guidance, I can: • identify a digital identity, • describe simple ways to protect my reputation online, • recognise simple data I produce through digital tools, environments or services.	At basic level and with guidance, I can: • identify a digital identity, • describe simple ways to protect my reputation online, • recognise simple data I produce through digital tools, environments or services. At basic level and with autonomy and appropriate guidance where needed, I can: • identify a digital identity, • describe simple ways to protect my reputation online, • recognise simple data I produce through digital tools, environments or	At basic level and with guidance, I can: • identify a digital identity, • describe simple ways to protect my reputation online, • recognise simple data I produce through digital tools, environments or services. At basic level and with autonomy and appropriate guidance where needed, I can: • identify a digital identity, • describe simple ways to protect my reputation online, • recognise simple data I produce through digital tools, environments or services. • recognise simple data I produce through digital tools, environments or services. • describe well-defined and routine ways to protect my reputation online, • describe well-defined and routine ways to protect my reputation online, • describe well-defined and routine ways to protect my reputation online, • describe well-defined and routine digital tools, environments or services.	At basic level and with guidance, I can: • identify a digital identity, • describe simple ways to protect my reputation online, • recognise simple data I produce through digital tools, environments or services. At basic level and with autonomy and appropriate guidance where needed, I can: • identify a digital identity, • describe simple ways to protect my reputation online, • recognise simple data I produce through digital tools, environments or services. • recognise simple data I produce through digital tools, environments or services. • at large of well-defined and routine problems, I can: • display a variety of specific digital identities, • describe well-defined and routine problems, I can: • display a variety of specific digital identities, • display a variety of specific digital identities, • discuss specific ways to protect my reputation online, • describe well-defined data I routinely produce through digital tools, environments or services. • discribe vall-defined and routine problems, I can: • display a variety of specific digital identities, • display a variety of specific digital identities, • discribe well-defined and routine problems, I can: • display a variety of specific digital identities, • discribe well-defined and routine problems, I can: • display a variety of specific digital identities, • discribe well-defined and routine problems, I can: • display a variety of specific digital identities, • d	At basic level and with guidance, I can: - identify a digital identity, describe simple ways to protect my reputation online, - recognise simple data produce through digital tools, environments or services. - recognise simple data produce through digital tools, environments or services. - recognise simple data produce through digital tools, environments or services. - recognise simple data produce through digital tools, environments or services. - recognise simple data produce through digital tools, environments or services. - recognise simple data produce through digital tools, environments or services. - recognise simple data produce through digital tools, environments or services. - recognise simple data produce through digital tools, environments or services. - recognise simple data produce through digital tools, environments or services. - recognise simple data produce through digital tools, environments or services. - recognise simple data produce through digital tools, environments or services. - recognise simple data produce through digital tools, environments or services. - recognise simple data produce through digital tools, environments or services. - recognise simple data produce through digital tools, environments or services. - recognise simple data produce through digital tools, environments or services. - recognise simple data produce through digital tools, environments or services.	At basic level and with guidance, I care. I dentify a digital identity, describe simple ways to protect my reputation online, recognise simple data produce dimongin digital tools, environments or services. Produces, environments or services. The describe simple ways to protect my reputation online, or services. Produce dimongin digital tools, environments or services. The describe simple ways to protect my reputation online, or services. Produce dimongin digital tools, environments or services. The describe simple ways to protect my reputation online, or services. The describe simple ways to protect my reputation online, or discuss specific ways to protect my reputation online, or services. The describe simple ways to protect my reputation online, or discuss specific ways to protect my reputation online, or services. The describe simple ways to protect my reputation online, or discuss specific ways to protect my reputation online, or discuss specific ways to protect my reputation online, or services. The describe simple ways to protect my reputation online, or discuss specific ways to protect my reputation online, or was deat in routinely produce through digital tools, environments or services. The dependently, according to my own needs, and solving walded and non-out-time problems, I can: - discriminate a range of well-defined and non-out-time problems, I can: - discriminate a range of well-defined and non-out-time problems, I can: - discriminate a range of well-defined and non-out-time problems, I can: - dispatch destributes explain the more approached tools, environments or services. The destributes of the problems, I can: - dispatch destributes explain the more approached tools environment and services. The destributes of the problems, I can: - dispatch destributes explain the more approached tools environment and services. The destributes of the problems, I can: - dispatch destributes explain the more approached tools environment and services. The destributes of the problems	At basic level and with guidant (car. I detailfy a digital identity. I describe simple was to protect my requisition online. I recognise simple data produce reviews. I more dynamic and routine ways to protect my requisition online. I care dynamic individual confirmation. I care dynamic individual dentities. I care dynamic individual dentities in the dynamic individual dentities. I care dynamic individual dentities in the dynamic individual dentities. I care dynamic individual dentities in the dynamic individual dentities. I care dynamic individual dentities in the dynamic individual dentities. I care dynamic individual dentities in the dynamic individual dentities in the dynamic individual dentities. 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Competence area 3: Digital content creation : 3.1 Developing content

Higly

Competence area 3: Digital content creation : 3.4 Programming
To plan and develop a sequence of understandable instructions for a commution system to sol

Proficiency	y Foundation .		Intermediate		• Advanced		Higly Specialised	
Levels	1	2	3	4	5	6	7	8
	At basic level and with guidance, I can: • identify simple ways to protect my devices and digital content, and • differentiate simple risks and threats in digital environments, • choose simple safety and security measures, and • identify simple ways to have due regard to reliability and privacy	At basic level and with autonomy and appropriate guidance where needed, I can: • identify simple ways to protect my devices and digital content, and • differentiate simple risks and threats in digital environments, • follow simple safety and security measures. • identify simple ways to have due regard to reliability and privacy	On my own and solving straightforward problems, I can: • indicate well-defined and routine ways to protect my devices and digital content, and • differentiate well-defined and routine risks and threats in digital environments, • select well-defined and routine safety and security measures. • indicate well-defined and routine ways to have due regard to reliability and privacy	Independently, according to my own needs, and solving well-defined and non-routine problems, I can: • organise ways to protect my devices and digital content, and • differentiate risks and threats in digital environments, • select safety and security measures. • explain ways to have due regard to reliability and privacy	As well as guiding others, I can: • apply different ways to protect devices and digital content, and • differentiate a variety of risks and threats in digital environments, • apply safety and security measures. • employ different ways to have due regard to reliability and privacy	At advanced level, according to my own needs and those of others, and in complex contexts, I can: • choose the most appropriate protection for devices and digital content, and • discriminate risks and threats in digital environments, • choose the most appropriate safety and security measures. • assess the most appropriate ways to have due regard to reliability and privacy	At highly specialised level, I can: • create solutions to complex problems with limited definition that are related to protecting devices and digital content, managing risks and threats, applying safety and security measures, and reliability and privacy in digital environments. • integrate my knowledge to contribute to professional practice and knowledge and guide others in protecting devices.	At the most advanced and specialised level, I can: • create solutions to solve complex problems with many interacting factors that are related to protecting devices and digital content, managing risks and threats, applying safety and security measures, and reliability and privacy in digital environments. • propose new ideas and processes to the field.
Examples of use 01 Employment Scenario:					I can protect the corporate Twitter account using differ- ent methods (e.g. a strong password, control the recent logins) and show new col- leagues how to do it.			
Use of a Twitter account to share information on my organization					I can detect risks like receiving tweets and mes- sages from followers with false profiles or phishing attempts. I can apply measures to avoid them (e.g. control the			
					privacy settings). I can also help my colleagues to detect risks and threats while using Twitter.			
Examples of use 02 Learning Scenario:					I can protect information, data and content on my school's digital learning platform (e.g. a strong password, control the recent logins).			
Use of the school's digital learning platform to share information					I can detect different risks and threats when accessing school's digital platform and apply measures to avoid them (e.g. how to virus-check attachments before downloading).			
on interested topics					I can also help my class- mates to detect risks and threat while using the digital learning platform on their tablets (e.g. controlling who can access the files).			

Higly Specialised Foundation Proficiency Intermediate Advanced Levels At basic level and with At basic level and with On my own and solving Independently, accord-As well as guiding At the most advanced and At advanced level, according to my own needs and At highly specialised level, quidance, I can: autonomy and approstraightforward probing to my own needs. others, I can: those of others, and in complex contexts, I can: I can: specialised level. I can: priate guidance where lems. I can: and solving well-de-• **select simple** ways apply different ways • choose the more appropriate ways to protect create solutions to create solutions fined and non-routine needed, I can: · explain well-defined to solve complex to protect my personto protect my personpersonal data and privacy in digital environcomplex problems problems, I can: al data and privacy in with limited definiproblems with many al data and privacy in • select simple ways **and routine** ways to digital environments, to protect my personprotect my personal discuss ways to prodigital environments, **tion** that are related to interacting factors evaluate the most appropriate ways of using al data and privacy in data and privacy in tect my personal data and protecting personal data that are related to and sharing personally identifiable information digital environments, digital environments, and privacy in digital and privacy in digital protecting personal data apply different spe-• identify simple ways while protecting myself and others from damenvironments, and environments, using and privacy in digital to use and share cific ways to share my and sharing personally environments, using personally identifiable identify simple ways data while protecting explain well-defined **discuss** ways to use **evaluate the appropriateness** of privacy policy identifiable information and sharing personally myself and others information while to use and share and routine ways and share personally identifiable information statements on how personal data are used. protecting self and personally identifiable to use and share identifiable informafrom dangers. protecting myself and others from dangers, and protecting self and others from damages. information while personally identifiable tion while protecting others from dangers, and explain privacy policy privacy policies to use protecting myself and information while myself and others · identify simstatements of how my personal data. privacy policies to use others from damages. protecting myself and from damages. personal data is used my personal data. **ple** privacy policy others from damages. • **integrate** my knowledge statements of how identify sim- indicate privacy poliin digital services. • propose new ideas and to contribute to pro-· indicate well-depersonal data is used **ple** privacy policy cy statements of how fessional practice and processes to the field. in digital services. statements of how fined and routine personal data is used knowledge and guide personal data is used in digital services. privacy policy others in protecting perin digital services. statements of how sonal data and privacy. personal data is used in digital services. Examples I can select the most appropriate way to protect the personal data of my colleagues (e.g. address, of use phone number) when sharing digital content (e.g. a picture) on the corporate Twitter account. 01 **Employment** I can distinguish between appropriate and inappro-Scenario: priate digital content to share it on the corporate Twitter account, so that my privacy and that of my Use of a colleagues are not damaged. Twitter account I can assess whether personal data are used on to share the Corporate Twitter appropriately according to information the European Data Protection Law and Right to be on my Forgotten. organization I can deal with complex situations that can arise with personal data in my organisation while on Twitter, such as removing pictures or names to protect personal information in accordance with the European Data Protection Law and Right to be Forgotten. Examples I can select the most appropriate way to protect my personal data (e.g. address, phone number), of use before sharing it on the school's digital platform. 02 I can distinguish between appropriate and inap-Learning propriate digital content to share it on my school's Scenario: digital platform, so that my privacy and that of my classmates are not damaged. Use of the school's I can assess whether the way my personal data digital are used on the digital platform is appropriate and learning acceptable as regards my rights and privacy. platform to share I can overcome complex situations that can arise information with my personal data and those of my classon interested mates while on the digital education platform, such topics as personal data is not used in accordance to the "Privacy policy" of the platform.

and

personal data

Protecting

Safety # 4.2

4.

Proficiency Levels	1 Found	dation	Interm	nediate 4	Adva	anced 6	7 Hi Speci	gly alised 8
	At basic level and with guidance, I can: • differentiate simple ways to avoid health -risks and threats to physical and psychological well-being while using digital technologies. • select simple ways to protect myself from possible dangers in digital environments. • identify simple digital technologies for social well-being and social inclusion.	At basic level and with autonomy and appropriate guidance where needed, I can: • differentiate simple ways to avoid health -risks and threats to physical and psychological well-being while using digital technologies. • select simple ways to protect myself from possible dangers in digital environments. • identify simple digital technologies for social well-being and social inclusion.	On my own and solving straightforward problems, I can: • explain well-defined and routine ways to how to avoid health -risks and threats to physical and psychological well-being while using digital technologies. • select well-defined and routine ways to protect myself from dangers in digital environments. • indicate well-defined and routine digital technologies for social well-being and social inclusion.	Independently, according to my own needs, and solving well-defined and non-routine problems, I can: • explain ways to how to avoid threats to my physical and psychological health related with the use of technology. • select ways to protect self and others from dangers in digital environments. • discuss on digital technologies for social well-being and inclusion.	As well as guiding others, I can: • show different ways to avoid health -risks and threats to physical and psychological well-being while using digital technologies. • apply different ways to protect myself and others from dangers in digital environments. • show different digital technologies for social well-being and social inclusion.	At advanced level, according to my own needs and those of others, and in complex contexts, I can: • discriminate the most appropriate ways to avoid health -risks and threats to physical and psychological well-being while using digital technologies. • adapt the most appropriatee ways to protect myself and others from dangers in digital environments. • vary the use of digital technologies for social well-being and social inclusion.	At highly specialised level, I can: • create solutions to complex problems with limited definition that are related to avoiding health -risks and threats to well-being while using digital technologies, to protect self and others from dangers in digital environments, and to the use of digital technologies for social well-being and social inclusion. • integrate my knowledge to contribute to professional practice and knowledge and guide others in protecting health.	At the most advanced and specialised level, I can: • create solutions to solve complex problems with many interacting factors that are related to avoiding health -risks and threats to well-being while using digital technologies, to protect self and others from dangers in digital environments, and to the use of digital technologies for social well-being and social inclusion. • propose new ideas and processes to the field.
Examples of use							I can create a digital cam- paign of possible health dangers of using Twitter for professional reasons	
Employment Scenario: Use of a							(e.g. bullying, addictions, physical well-being) which can be shared and used by other colleagues and professionals on their	
Twitter account to share information on my organization							smartphones or tablets.	
Examples of use							I can create a blog on cyberbullying and social exclusion for my school's digital learning platform, which helps my classmates	
Learning Scenario: Use of the							to recognise and face up to violence in digital environments.	
school's digital learning platform to share information on interested topics								

Intermediate

Advanced

Proficiency

Levels

Foundation

Higly

Specialised

technological

and

needs

Identifying

5.2

em solving

area

Competence

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Proficiency	ciency Foundation		Intermediate		Advanced		Specialised :	
Levels	1	2	3	4	5) Adve	<u> </u>	7) 3 - Speci	, - (8)
	···	···	· · · · · · · · · · · · · · · · · · ·		·	········	·	
	At basic level and with	At basic level and with	On my own and solving	Independently, according to	As well as guiding others,	At advanced level, accord-	At highly specialised level,	At the most advanced and
	guidance, I can:	autonomy and appropriate	straightforward problems, I can:	my own needs, and solving	I can:	ing to my own needs and	I can:	specialised level, I can:
	• identify simple digital	guidance where needed,	• select digital tools and	well-defined and non-rou- tine problems, I can:	apply different digital	those of others, and in complex contexts, I can:	 create solutions to 	 create solutions
	tools and technologies	l can:	technologies that can be	*	tools and technologies		complex problems	to solve complex
	that can be used to create knowledge and to	• identify simple digital tools and technologies	used to create well-defined knowledge and well-defined	differentiate digital tools and technologies	to create knowledge and innovative processes and	• adapt the most appropriate digital tools	with limited definition using digital tools and	problems with many interacting factors
	innovate processes and	that can be used to	innovative processes and	that can be used to	products.	and technologies to	technologies.	using digital tools and
	products.	create knowledge and to	products.	create knowledge and to	• apply individually and	create knowledge and to	• integrate my knowledge	technologies.
	show interest individ-	innovate processes and	• engage individually and	innovate processes and	collectively cognitive pro-	innovate processes and	to contribute to pro-	 propose new ideas and
	ually and collectively	products	collectively in some cognitive	products.	cessing to resolve differ-	products.	fessional practice and	processes to the field.
	in simple cognitive	• follow individually and	processing to understand and	engage individually and	ent conceptual problems	• resolve individually and	knowledge and guide	
	processing to understand and resolve simple	collectively simple cognitive processing to under-	resolve well-defined and routine conceptual problems	collectively in cognitive processing to understand	and problem situations in digital environments.	collectively conceptual problems and problem	others in creatively using digital technologies.	
	conceptual problems and	stand and resolve simple	and problem situations in	and resolve conceptual	aigitat eriviroriirierits.	situations in digital	argital teer motogies.	
	problem situations in	conceptual problems and	digital environments.	problems and problem		environments.		
	digital environments.	problem situations in digital environments.		situations in digital environments.				
		ulgital enviloriments.		environiments.		•		
Examples			By myself:					
of use			1 MOOC'- f					
01			I can use a MOOC's forum to ask for well-defined infor-					
Employment			mation on the course I am					
Scenario:			following and I can use its tools					
			(e.g. blog, wiki) to create a new entry for exchanging more					
Use of a digital			information.					
learning								
platform			I can engage in a collaborative exercise with other students					
to improve			using the mind map tool of the					
my career opportunities			MOOC in order to understand a					
оррогия негез			concrete issue in a new way.					
			I can fix problems such as iden-					
			tifying that I am introducing					
			a question or comment in the wrong place.					
			wrong place.					
Examples			By myself:					
of use			I can use the MOOC's forum					
02			to ask for well-defined infor-					
Learning			mation on the course I am					
Scenario:			following, and I can use their					
			tools (e.g. blog, wiki) to create a new entry for exchanging more					
Use of a digital			information.					
learning			I can engage in exercises of the					
platform			MOOC that use simulations to					
to improve my math			practice a math problem that					
skills			I failed to solve correctly at					
			school. Discussing the exercises in chat with other students					
			helped me to approach the					
			problem differently and improved my skills.					
			וווויייייייייייייייייייייייייייייייייי					
			I can fix problems such as iden-					
			tifying that I am introducing a question or comment in the					
			wrong place.					
		:		:		:		

Higly Specialised Foundation Intermediate Proficiency Advanced Levels At advanced level, accord-At basic level and with At basic level and with On my own and solving Independently, according to my own As well as guiding others, At highly specialised level, At the most advanced and quidance, I can: autonomy and approstraightforward problems, needs, and solving well-defined and ing to my own needs and I can: specialised level. I can: priate guidance where I can: non-routine problems. I can: those of others, and in • recognise where my • demonstrate where my create solutions to create solutions needed, I can: complex contexts, I can: own digital competence • **explain** where my discuss on where my digital own digital competence complex problems with to solve complex needs to be improved or • **recognise** where my digital competence competence needs to be improved needs to be improved or • **decide** which are the **limited definition** that problems with many updated. own digital competence needs to be improved or or updated. updated. most appropriate ways are related to improving interacting factors that needs to be improved or updated, to improve or update digital competence, and are related to improving **identify** where to • **indicate** how to support of others · illustrate different updated, one's own digital competo find opportunities for digital competence, and • indicate where to seek seek opportunities for to develop their digital compeways to support others in tence needs, self-development and to find opportunities for self-developments and identify where to well-defined opporthe development of their to keep up-to-date with self-development and to tunities for self-develto keep up-to-date with seek opportunities for • assess the development digital competence. keep up-to-date with the • indicate where to seek opportunew developments. the digital evolution. self-developments and opments and to keep of others' digital compedigital evolution. nities for self-developments and propose different to keep up-to-date with up-to-date with the • integrate my knowltence. to keep up-to-date with the digital opportunities found for the digital evolution. digital evolution. edge to contribute to propose new ideas and evolution. self-development and to · choose the most approfessional practice processes to the field. keep up-to-date with the **propriate** opportunities and knowledge and to digital evolution. for self-development and **quide others** in identito keep up-to date with fying digital competence new developments. Examples I can discuss the digital competence I need to be able to use MOOCs of use for my professional career with an employment adviser. 01 **Employment** I can tell her where I find and use Scenario: MOOCs to develop and update my proficiency level of digital competences to improve my professional Use of a career digital learning I can deal with any issue while I platform am doing these activities, e.g. I can to improve evaluate whether new digital enmy career vironments that I find while surfing opportunities are appropriate means of improving my digital competence' proficiency level. Examples I can discuss with a friend the digital competence I need to use the tools of use of a MOOC for my studies in math. 02 I can show my teacher where I find Learning and use MOOCs according to my Scenario: learning needs. I can tell her which digital activities Use of a and pages I surf in order to keep my digital digital competence updated so that learning I can profit the most from digital platform learning platforms for my learning to improve needs. my math skills I can deal with any issue while I am doing these activities, such as evaluate whether new digital environments that appear while surfing are appropriate for improving my digital competence and getting the most profit from the MOOC.

digital of Identifying 5.4

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