

The European Commission's science and knowledge service

Joint Research Centre

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*Unit B.4 Human Capital & Employment
Bilbao, Spain, 19-20th June 2019*



Developing digital competences for employability: How to engage and support stakeholders and the potential role of DigComp

- Stakeholders' consultation workshop –

Research context & Workshop Objectives

EU Policies

Council Recommendation on Key Competences for Lifelong Learning (2018)

- 1) Literacy competence
- 2) Multilingual competence
- 3) Mathematical competence and competence in science, technology and engineering
- 4) **Digital competence**
- 5) **Personal, social and learning to learn competence**
- 6) Citizenship competence
- 7) **Entrepreneurship competence**
- 8) Cultural awareness and expression competence

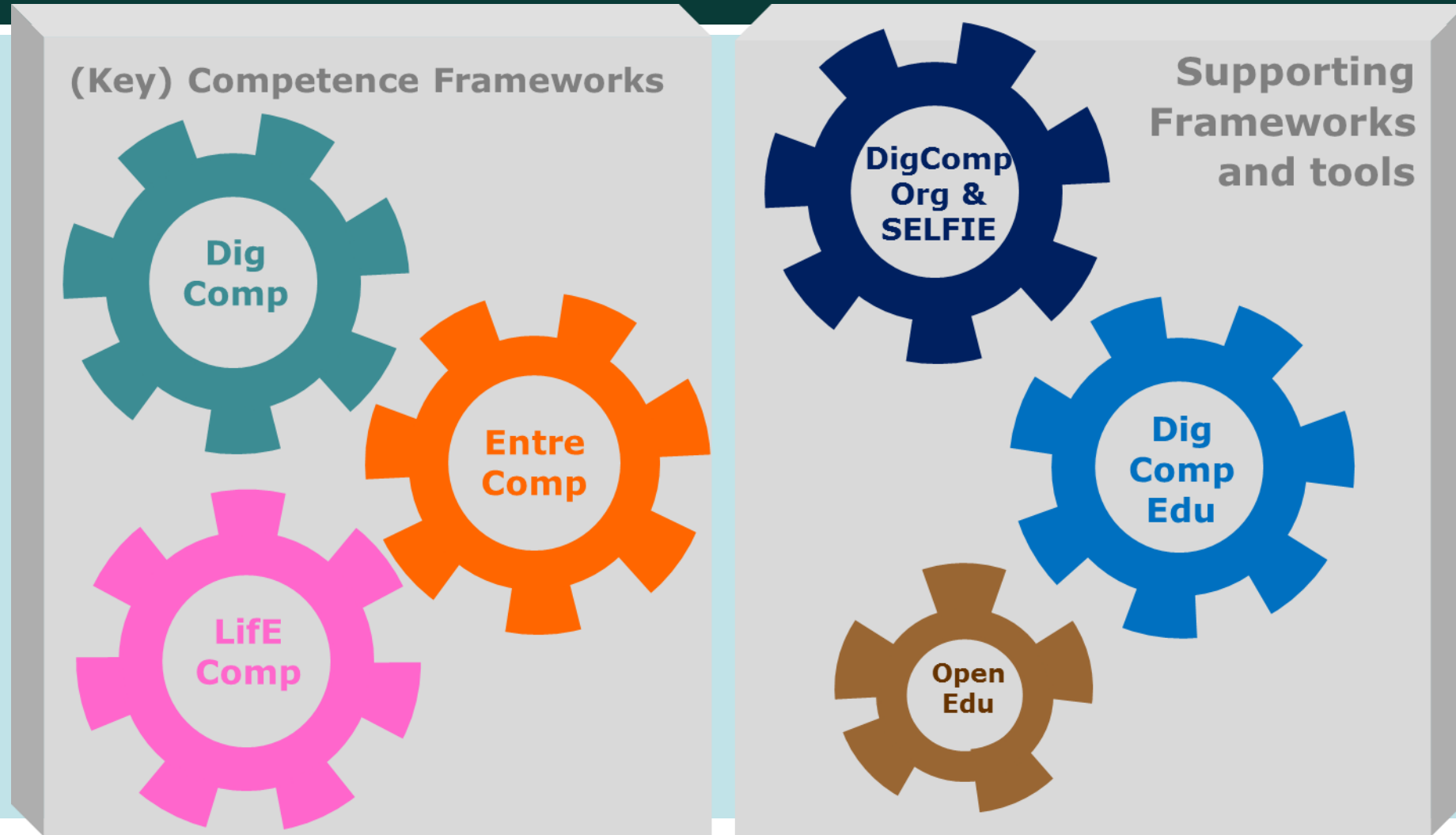
Digital Education Action Plan

17 January 2018

1. Making better use of digital technology for teaching and learning
2. Developing relevant digital competences and skills for the digital transformation
3. Improving education through better data analysis and foresight



JRC Competence Frameworks



Digital Competence > DigComp Framework

[Video of DigComp](#)

DigComp Framework



Digital competence involves the confident, critical and responsible use of, and engagement with, digital technologies for learning, at work, and for participation in society. (Council Recommendation 2018)

3 Editions: 1.0 (2013), 2.0 (2016) 2.1 (2017)

- 5 competence areas
- 21 competences
- 8 proficiency levels *per complexity, autonomy and cognitive load*
- Examples of use

Digital Competence areas

Competence areas	Competences
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
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
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

User Guides: the Frameworks into Action



- For individuals and organisations who want to foster digital competence and entrepreneurial learning
 - **Present the Frameworks** and their components
 - Provide an analysis of **examples of how** the frameworks are implemented in:
 - Formal education and training
 - Non/formal learning and inclusion
 - Employment & Enterprise/Start-up
 - **Inventory** of cases
 - A stock of **tools, resources and ideas**

Linking DigComp to Employment Opportunities

Research Objectives:

- ***To provide a deep analysis of the uses of DigComp and EntreComp by Labour Market Intermediaries (LMIs) which are working towards the development of digital skills of unemployed, jobseekers, employees and entrepreneurs(-to-be) with the aim of increasing their employability (both in the public and private sectors)***
- ***To inform policy responses around lifelong learning, guidance and employment support.***
- ***To identify those elements of DigComp and EntreComp that may require policy support or further development to ultimately support our citizens, workers and job-seekers in the context of today's labour market.***

Mapping DigComp and EntreComp Use

Lot 1: Analysis of Labour Market Intermediaries (LMI's) active in digital and entrepreneurial skilling services

Research method:

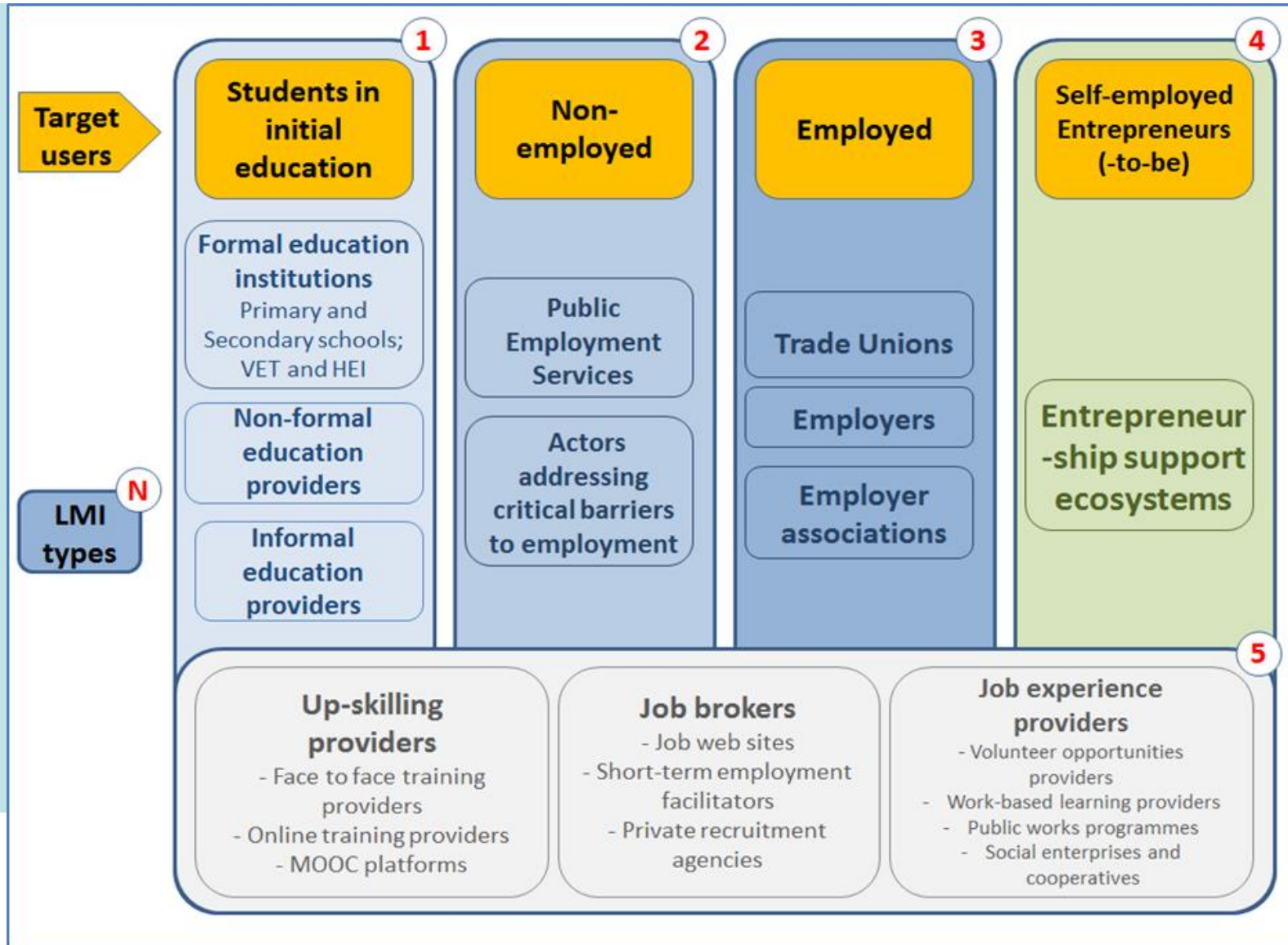
- Literature review & desk research

Research objectives:

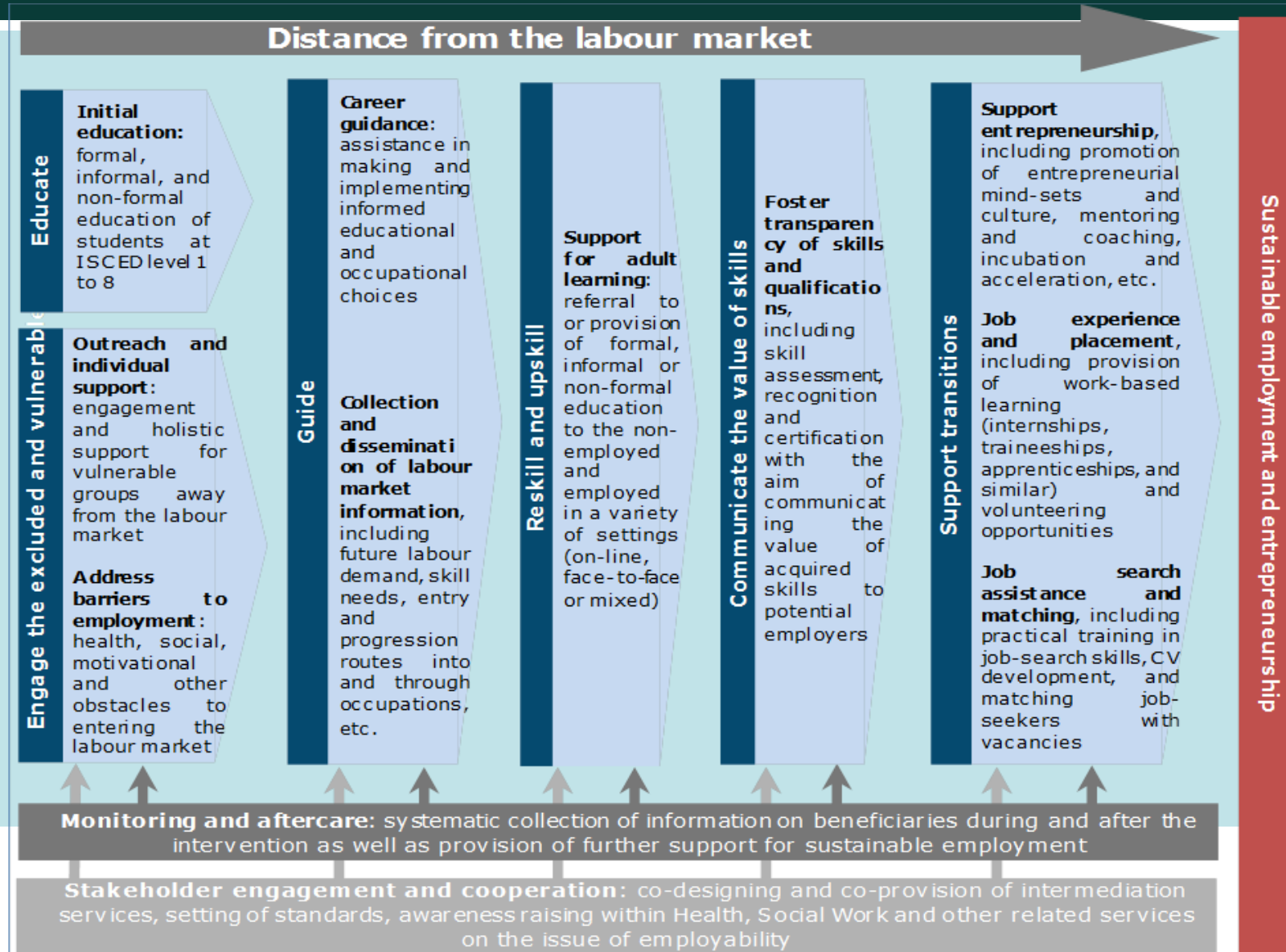
- Characterise LMIs and propose a typology
- Identify key functions carried out and methods used

Outsourced to:
Visionary Analytics

LMI Types



LMI Functions



Mapping DigComp and EntreComp Use

Lot 2: Cases Analysis

Research method:

- individual cases analysis (interviews/questionnaire and data analysis)
- cross-case analysis

Research objectives:

Learning from the experience of LMI's using DigComp or EntreComp, which are providing a complete or significant or relevant set of services for digital and entrepreneurship (up-)skilling within the complete employability path, in particular:

- operational implementation aspects
- key success factors, benefits, challenges and gaps
- options for improvement (input for policy options)

Outsourced to:
The Women's Organisation

Workshop Objectives

- 1. To present the major findings of the project**
- 2. To debate key research and policy options to address the challenges identified with DigComp implementation by LMI**
- 3. To debate new avenues to engage and support stakeholders and enterprises in their (up-)skilling role in the area of digital competences such as:**
 - a) effective awareness raising and engaging actions
 - b) developing supporting material such a project template or user guide
 - c) promoting or building communities of practice

Workshop Agenda (Day 1)

Day 1, June 19th: Debating and validating research results

12h00	Registration opens, DigComp cases presentations by case owners, Networking session
13h00	<i>Networking Lunch</i>
14h00	Welcome note by Basque Government, A. <u>Vitorica</u>
14h10	Key note by A. <u>Vitorica</u> , Basque Government (<u>Ikanos</u>), "The <u>Ikanos</u> project: trajectory, achievements and future vision"
14h30	Policy context by EC DG EMPL, W. O'Keeffe
14h45	Research context and Workshop objectives by EC JRC, Y. <u>Punie</u> , C. Centeno
15h00	Organisational matters by EC JRC, C. Centeno
15h10	Presentation of research results: Mapping DigComp use for Employability by S. Kluzer, expert
16h00	<i>Coffee break</i>
16h20	Q&A, Debate on research and policy recommendations
17h00	Group work on stakeholders needs, priority setting session
17h45	Report to plenary
18h00	End of day



Workshop Agenda (Day 2)

Day 2, June 20th: Future avenues to support and engage stakeholders and enterprises

9h00	Introduction: Conclusions of Day 1 by <i>EC JRC, R. Vuorikari</i> , rapporteur
9h15	Panel session 1: Effective awareness raising and engaging actions towards stakeholders
10h30	<i>Coffee & breakfast break</i>
10h45	Panel session 2: Priority sectors, occupations and profiles for digital skilling actions, understanding the problem
12h00	Panel session 3: Bundling digital skills with other skills needed by the labour market: how to move forward?
13h30	<i>Lunch</i>
14h20	Working sessions: Introduction
14h30	Parallel working sessions: Session 1: Developing supporting material Session 2: Promoting or building a community of practice
15h30	Working sessions: Report to plenary
16h00	<i>Coffee break</i>
16h15	Coalition for Digital Skills and Jobs: Future vision and strategy
16h30	Looking at the future: The future of employment and role of competence management at the industry by <i>Dr. Miguel Ángel Castillo Acero, Aernnova</i>
16h45	Closing session: key conclusions and next steps by <i>EC DG EMPL, W. O'Keeffe</i> and <i>Ikanos, A. Vitorica</i>
17h00	End of meeting



Thanks

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