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# e-CF in the European Software Skills Alliance

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# ESSA | The project

ESSA is a European project funded under the **Erasmus+ programme**.



Erasmus+ Sector Skills Alliance



Software sector



4 years (2020-2024)

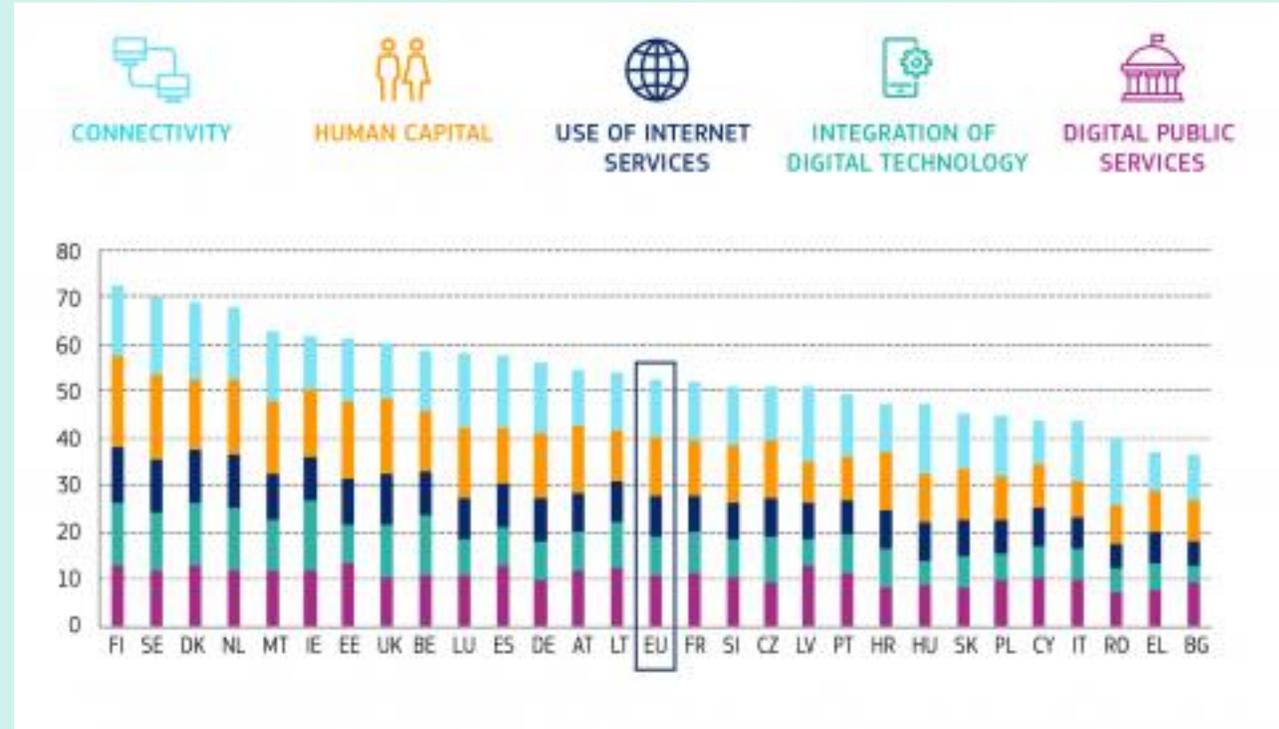


26 partners from 12 EU countries

ESSA delivers a new strategic approach (“Blueprint”) to **sectoral cooperation on software services skills** development.

# Why this project?

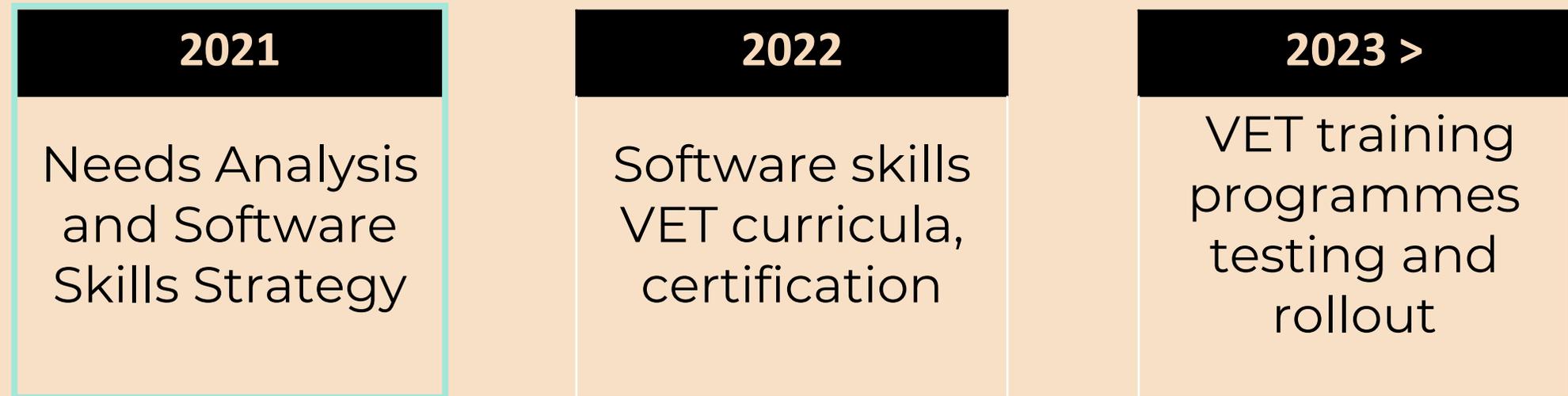
- Urgent market needs for software skills and professionals
- Software skills mismatches between education and training offering and industry requirements
- Digital performance discrepancies across Europe



Source: Digital Economy and Society Index

# Roadmap

Learning instruments **to skill, upskill, and reskill individuals** into high demand professional software roles across Europe.

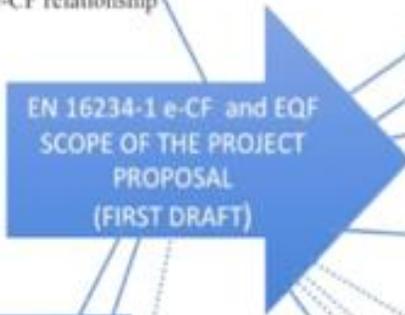


e-CF is used as a **common reference point** across all project outputs

# e-CF a key tool to shape ESSA scope

e-CF Level	related to EQF Level
e-C5	8
e-C4	7
e-C3	6
e-C2	4 and 5
e-C1	3

Figure 1: EQF and e-CF relationship



Transversal aspects	
T1	Accessibility
T2	Ethics
T3	Legal issues
T4	Privacy
T5	Security
T6	Sustainability
T7	Usability

Figure 2: e-CF transversal aspects

Dimension 1 e-CF area	Dimension 2 e-CF Competence identified	Dimension 3 e-CF Competence proficiency level				
		e1	e2	e3	e4	e5
A. PLAN	A.1. Information Systems and Business Strategy Alignment					
	A.2. Service Level Management					
	A.3. Business Plan Development					
	A.4. Product/Service Planning					
	A.5. Architecture Design					
	A.6. Application Design					
	A.7. Technology Trend Monitoring					
	A.8. Sustainability Management					
	A.9. Innovating					
	A.10. User Experience					
B. BUILD	B.1. Application Development					
	B.2. Component Integration					
	B.3. Testing					
	B.4. Solution Deployment					
	B.5. Documentation Production					
	B.6. ICT Systems Engineering					
C. RUN	C.1. User Support					
	C.2. Change Support					
	C.3. Service Delivery					
	C.4. Problem Management					
	C.5. Systems Management					
D. EMERGE	D.1. Information Security Strategy Development					
	D.2. ICT Quality Strategy Development					
	D.3. Education and Training Provision					
	D.4. Purchasing					
	D.5. Sales Development					
	D.6. Digital Marketing					
	D.7. Data Science and Analytics					
	D.8. Contract Management					
	D.9. Personnel Development					
	D.10. Information and Knowledge Management					
	D.11. Needs Identification					
E. MANAGE	E.1. Forecast Development					
	E.2. Project and Portfolio Management					
	E.3. Risk Management					
	E.4. Relationship Management					
	E.5. Process Improvement					
	E.6. ICT Quality Management					
	E.7. Business Change Management					
	E.8. Information Security Management					
	E.9. Information Systems Governance					

Figure 3: TESSA focus in e-CF

## Focus on 14 e-Competences relevant to software roles

- A.6. Application Design
- A.8. Sustainability Management
- B.1. Application Development
- B.2. Component Integration
- B.3. Testing
- B.4. Solution Development
- B.5. Documentation Production
- B.6. ICT Systems Engineering
- C.3. Service Delivery
- C.4. Problem Management
- C.5. Systems Management
- D.7. Data Science and Analytics
- E.2. Project & Portfolio Management
- E.8. Information Security Management

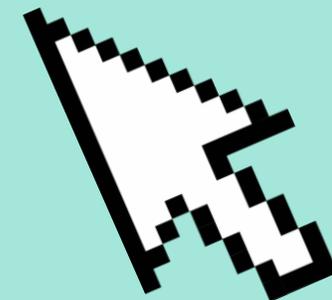


Figure 1, 2 and 3: EQF and e-CF relationship, e-CF transversal aspects and ESSA first draft focus in the e-CF

# EUROPEAN ICT PROFILE FAMILY TREE

## Generation 1: SEVEN FAMILIES



## Generation 2: 30 EUROPEAN ICT PROFESSIONAL ROLE PROFILES



**ESSA scope**

Software Services relevant profiles (from EU ICT Profiles)

draft



ESSA Software-specific Generation 3: CREATE/ RELATE YOUR CONTEXT-SPECIFIC ICT PROFILES (Jobs, Curricula...)

## How e-CF guides our work:

**2021**

Needs Analysis  
and Software  
Skills Strategy

- Supported the identification and formulation of the occupational profiles for software roles
  - Helped identify and clarify sector skills gaps by using a common language for data collection (both demand and supply)
- We have identified the **Most Needed Software Skills and Roles** — now and in the future based on the **6 ICT roles profiles** related to software services.
- e-Cf will keep guiding our work when defining the **Software Skills Strategy** and consolidating/suggesting adjustments to the role profiles based on our results and defining educational profiles

# Next steps

e-CF will continue to guide our work when developing the **educational and training instruments**, notably by:

- Providing detailed input for the definition of (programme) learning outcomes based on necessary competences and skills
- Providing different proficiency levels that support mapping with EQF/ ECVET



# Get involved

- Receive updates
- Help us shape the Software Skills Strategy or Curricula

[info@softwareskills.eu](mailto:info@softwareskills.eu)

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