

Interoperable Europe (IOPEU) Academy Workshop

Evolvement of advanced digital skills on interoperability with the Interoperable Europe Academy







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Programme Managers
DG DIGIT, European Commission



Agenda



- Interoperability Policy Introduction: 20 min
- IOPEU Academy in a nutshell: 20 min
- Q&A: 20 min
- Coffee break: 15 min
- Group work: 45 min
- Presentation of results: 30 min
- Conclusions and Q&A: 30 min



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Interoperability is...

...essential for



The general capacity of organisations and systems to cooperate and interact



Solid foundation of digital government and seamless data exchanges



Bridging gaps between policy and IT, allowing administrations to make public services work across borders, sectors and organisations



Fundamental dimension for administrative simplification, enabling the interconnection & access to "authoritative data sources" towards the **once-only principle** (semantics).

Why does it matter?

A guiding instrument towards efficient, inclusive, accessible & timely **digitalisation** of public services, as proved by the pandemic.

A lever on digital transformation and innovation, through jointly experimentation & implementation of innovative solutions, like GovTechs.

What is the current state of EU public sector interoperability policy?

The European Interoperability
Framework (EIF) is
the reference model
for ensuring interoperability



Provide guidance to public administrations on the design and update of national interoperability frameworks (NIFs), policies, strategies and guidelines



EU funded solutions are openly available for reuse at https://joinup.ec.europa.eu/





Strengthened EU interoperability policy: Regulation proposal on interoperability

Establish a governance between EU public administrations (Member States, CIOs, experts)

to work and support cross-border & cross-sector interoperability, with focus on:



Co-ownership & **co-creation** of interoperability resources (EIF, solutions, investments, priorities,...)



Supporting **joint experimentation** & **innovation initiatives** amongst public sector entities, including with the private sector ("GovTech")



Supporting EU policymaking that aims to be digital-ready & interoperable-by-design



Implementing Instrument Digital Europe Programme



New EC programme (not research)
 complementing other programmes

Work Programme 2021-2022 adopted

• Former ISA² programme in EDGES

New initiative GovTech Incubator

European Digital Government Eco System

Common Services
Platform

eID and OOP

Interoperability
Knowledge and
Support Centre

GovTech Incubator

TESTA



More information on <u>Digital Europe Programme</u>



Supporting tools: EIF toolbox



The <u>EIF Toolbox</u> is a guiding tool for national public administrations to align their National Interoperability Frameworks (NIFs) with the European Interoperability Framework (EIF).



SOLUTIONS

Find out supported solutions to achieve interoperability



Find out more about how to facilitate interoperability



EIF PILLARS

Find out about reusable tools, standards and examples around the EIF Pillars



Glossary ? What is EIF

General information



Name of the solution: Joinup source code

Solution's owner: European Commission / DG Informatics (DIGIT) - Interoperability solutions for public administrations, businesses and citizens (ISA²)

Description: This is the source code for Joinup (https://joinup.ec.europa.eu/). Joinup is a collaborative platform created by the European Commission and funded by the European Union via the Interoperability solutions for public administrations, businesses, and citizens (ISA²) Programme. It offers several services that aim to help e-Government professionals share their experience with each other. We also hope to support them to find, choose, re-use, develop and implement interoperability solutions.

Type of solution: Common services, Generic tools

Go to Solution Edit EIF perspective

The Joinup source code implements the following:

The Johnap Source code implements the following

Interoperability layers Conceptual model

Openness
Reusability

Principles

4.4.

 External information sources and services

Catalogues

Technological neutrality and data

Joinup source code implements the following EIF recommendations as explained below:

Interoperability governance

Recommendation 3 | Openness

Joinup promotes the use of open source software by providing a catalogue of reusable solutions as well as by hosting the Open Source Observatory (OSOR) community, which serves as a place where users can find relevant open source software solutions and read about the use of free and open source in public administrations across and beyond Europe. Moreover, Joinup is available as an open source solution itself.

Recommendation 6 | Reusability

Joinup facilitates the sharing and re-use of solutions for public administrations and provides the stakeholders with the means to collaborate.

Recommendation 7 | Reusability

Joinup facilitates the sharing and re-use of information and data for the implementation of European public services.





Supporting tools: Joinup

Digital Gov News & events

Studies, factsheets etc.

IOP¹ & OSS² policies

Observatory

joinup Timeline

Collaborative platform

Digital Government professionals

Public administrations

Businesses & academia

Citizens

A. Digital Government in practice Hub!B. Digital Policy Hub!C. Interoperability Solution Hub!

ICT Solutions Repository Open Source Software

ICT specifications

Frameworks & data models







2014

ePractice

2016





Supporting tools: Interoperable Europe (IOPEU) Academy

Interoperability: An introductory course

all Beginner

Less than an hour

Course details

This course provides a solid understanding about interoperability, including the need for it, the interoperability environment at high level and the respective initiatives of the European Commission. The course also gives insights on the opportunities that can be leveraged to identify the appropriate interoperability modules for the implementation of the services reusing existing interoperable solutions.

Target audience

This course is aimed at learners who are new to the concept of trans-European e-services and interoperability and it is adjusted to both, technical and non-IT specialists/professionals such as:

- Young professionals
- Civil servants
- Policy makers
- Legal advisersProject/programme managers
- · System architects and public service designers

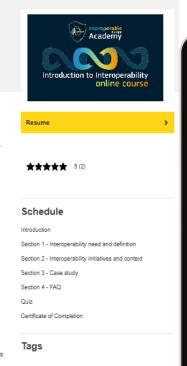
Learning objectives

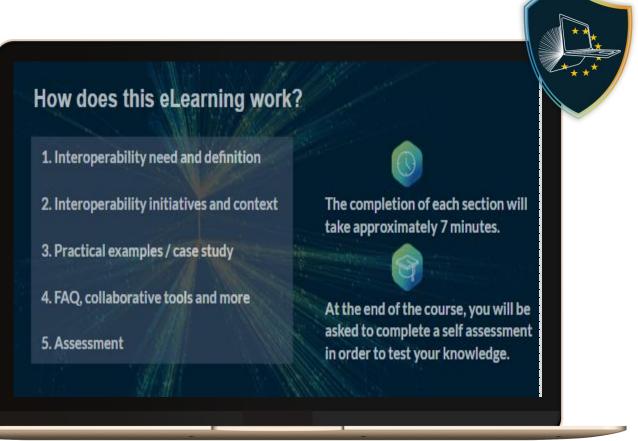
Upon completion of the course learners will:

- Provide the definition of interoperability identify / describe the main European Interoperability
 Framework concepts the main enablers and the main barriers for achieving interoperability.
- Articulate the need for Interoperability and how the concepts of the European Interoperability
 Framework and respective initiatives facilitate the implementation of significant legal acts for cross
 border services in the European Economic Area.
- Identify, locate, assess, reusable tools and participate to communities that accelerate the creation of a interoperable public services and develop the required advance digital skills.

Offered by

This content is offered by the European Commission. The European Commission is the European Union's politically independent executive arm. It is alone responsible for drawing up proposals for new European legislation, and it implements the decisions of the European Parliament and the Council of the European Union.











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Interoperable Europe Academy

The Interoperability Academy is an action running under the DEP Aims at improving the level of the advanced digital skills of civil servants to support policy, service delivery and impact evaluation.

Online and face-to-face courses

Knowledge exchange, community

Summer and winter schools

Learning materials



Offers



Interoperable Europe Academy



OBJECTIVE

Reduce the digital skills gap for civil servants and provide specialised eLearning courses and trainings will promoting the implementation of EIF.



VISION

Continue creating and providing online, self-paced courses and trainings, such as workshops and webinars to help modernize public administrations.







BENEFITS

Free and open online platform with 24/7 available, self-paced courses and eLearning resources with customised syllabus and various learning paths.



AIM

Be the go-to learning tool for professionals who work in the public sector and in the context of EU policies and help reduce administrative burden.



Interoperable Europe Academy: Roadmap



January 2022

- 5 new courses : total 22 courses
- digital skills community in the public sector on Joinup
- Availability of 3 eLearning courses to be reused

Way forward ++

- More courses
- Community in eu Academy platform
- Multilingualism
- Events, courses, seasonal schools
- Synergies with other initiatives, academies

You tell us! What is your vision for the IOPEU Academy?





Interoperable Europe Academy



RAININGS **EVENTS**



more 2500 **LEARNERS**

more than **eLearning** courses



events and counting



more than **ISSUED CERTIFICATES**



160 members of the Stakeholder community on Joinup + more



Catalogue of

learning

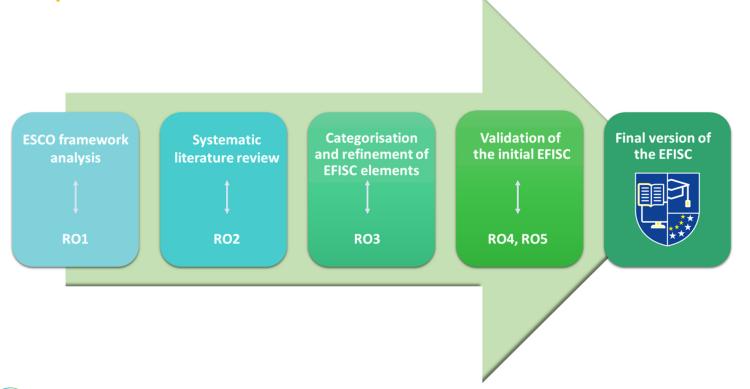
resources

on Joinup



Interoperable Europe Academy: Skills & Competencies

A proposed European framework for interoperability skills and competences (EFISC) that can be applied to all public sector administrations and young professionals.











Interoperable Europe Academy: Skills & Competencies

European framework for interoperability skills and competences

9	17	6	6	4
Attitudes	Soft skills	Hard skills	Knowledge elements	Values
 Enthusiastic Responsible Persistent Efficient Innovative Service-oriented Results-oriented Evidence-based Culturally open 	1. Analytical thinking 2. Critical thinking 3. Collaboration 4. Decision-making 5. Negotiation 6. Teamwork 7. Creativity 8. Adaptability 9. Leadership 10. Networking 11. Precision 12. Self-development 13. Communication 14. Future orientation 15. Proactivity 16. Empathy 17. Holistic viewpoint	Digital Information skills Research skills Reviewing skills IT skills Financial skills Management skills	1. Information and communication technologies 2. Knowledge in administrative workflows 3. Organisational knowledge 4. European Interoperability Framework knowledge 5. Knowledge of national interoperability framework 6. Knowledge of regulations related to their field, including General Data Protection Regulation	1. Demonstrate the added value of interoperability 2. Contribute to public values 3. Understand the value of common standards 4. Demonstrate consciousness about the relevance of interoperability





Interoperable Europe Academy: for whom?

Courses can target all, or some of the profiles, depending on topic

01

Chief Information Offices

Accountable for:

- ICT Strategy and Implementation
- ICT Governance Policy
- ICT Department & Budget.

02

Systems Architects

Accountable for:

- Solution Specification
- Integrated Solution



Policy Managers

Accountable for:

- Organisational policy positions
- Strategic alignment

04

Legal Advisors

Accountable for:

- Legal documentation
- Legal analysis and recommendations

05

Public Administration Managers

Accountable for:

- Government policy implementation
- Public policy implementation

06

Software developers

Accountable for:

Documented code

07

Town/City Councilors

Accountable for:

- Local legislation
- Spending and budgetary targets
- Public relations

Financial Managers

Accountable for:

- Organisational accounts
- Annual report



+ other profiles involved in the process of digitalisation of public administration.



Interoperable Europe Academy: Courses



public sector leadership, innovation & knowledge sharing

PM C1 - PM2 Essentials, Project Management Methodology



public sector leadership, innovation &

Publishing data with Linked Data Event sortk interoperability Community Streams: why and how



public sector leadership, innovation & knowledge sharing

The EIF Toolbox, support and guidance for the implementation of the EIF



public sector leadership, innovation & knowledge sharing

What is "Better legislation for smoother implementation" and why it needs



public sector leadership, innovation &

Wikibase and Semantic MediaWiki for



data, digital & technology

Innovative Public Services: Knowledge Exchange



public sector leadership, innovation & knowledge sharing

Access to Base Registries eLearning



data, digital & technology

DCAT and DCAT-AP training: Basic



public sector leadership, innovation & knowledge sharing

Interoperability: An introductory course



public sector leadership, innovation &

Data Visualisation



data, digital & technology

DCAT and DCAT-AP training: General



data, digital & technology Introduction to Core Vocabularies



data, digital & technology DCAT and DCAT-AP



public sector leadership, innovation & knowledge sharing

Digital-ready policymaking



teamwork



public sector leadership, innovation &



data, digital & technology

Advanced DCAT and DCAT-AP training: Advanced



public sector leadership, innovation & knowledge sharing

EIF & EIRA tutorial

knowledge sharing

data-driven semantics



public sector leadership, innovation & knowledge sharing

Introduction to the Core Public Service Vocabulary Application Profile (CPSV-



public sector leadership, innovation & knowledge sharing

Joinup Licensing Assistant (JLA) eLearning course



public sector leadership, innovation & knowledge sharing

European Interoperability Framework



public sector leadership, innovation & knowledge sharing

IMAPS in practice



data, digital & technology PM A1-PM²-Agile Essentials







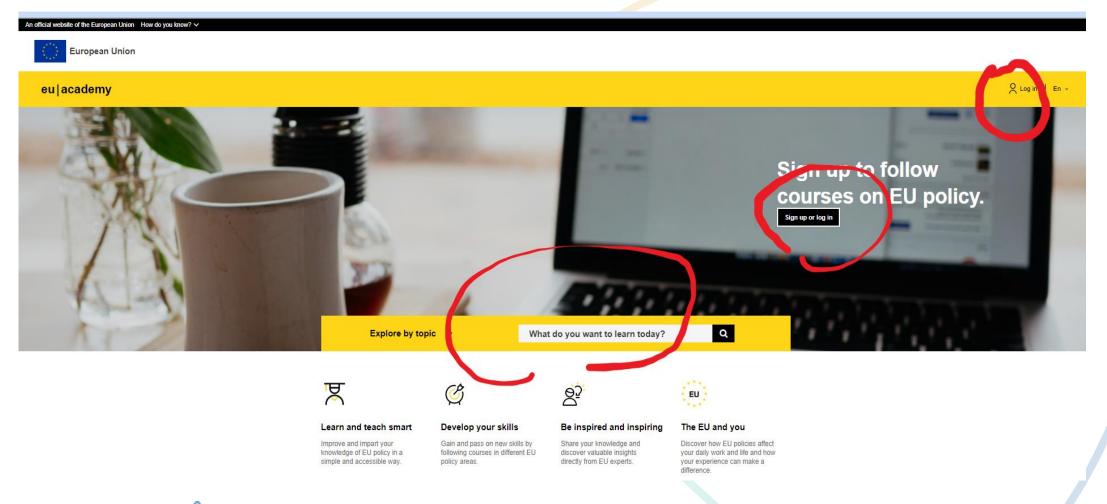
Interoperable Europe Academy: Courses for Interoperability







Interoperable Europe Academy: How to enroll?



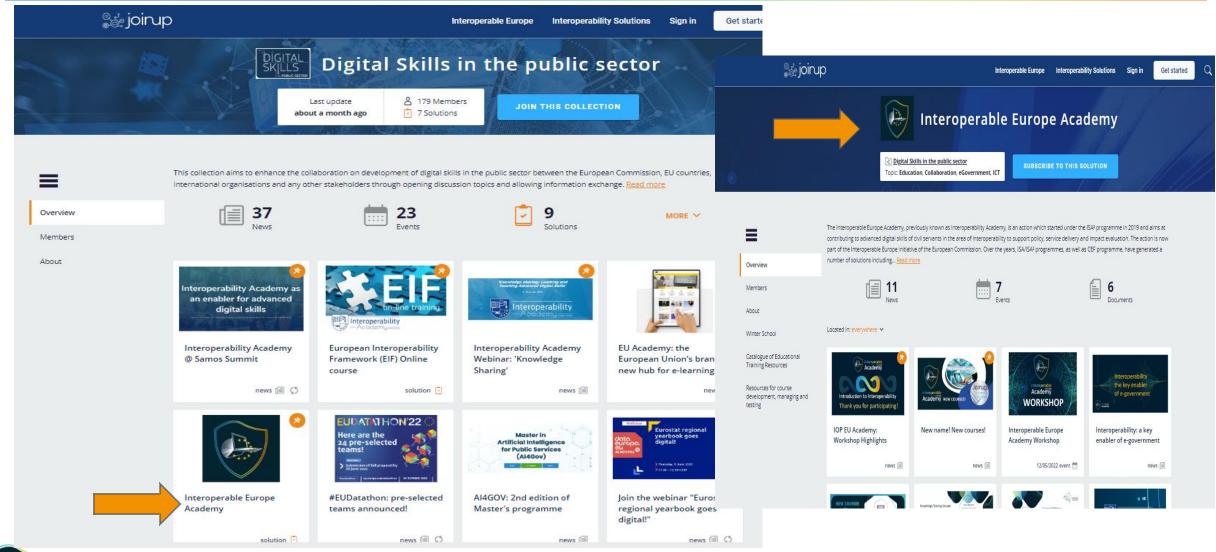




More: https://academy.europa.eu/



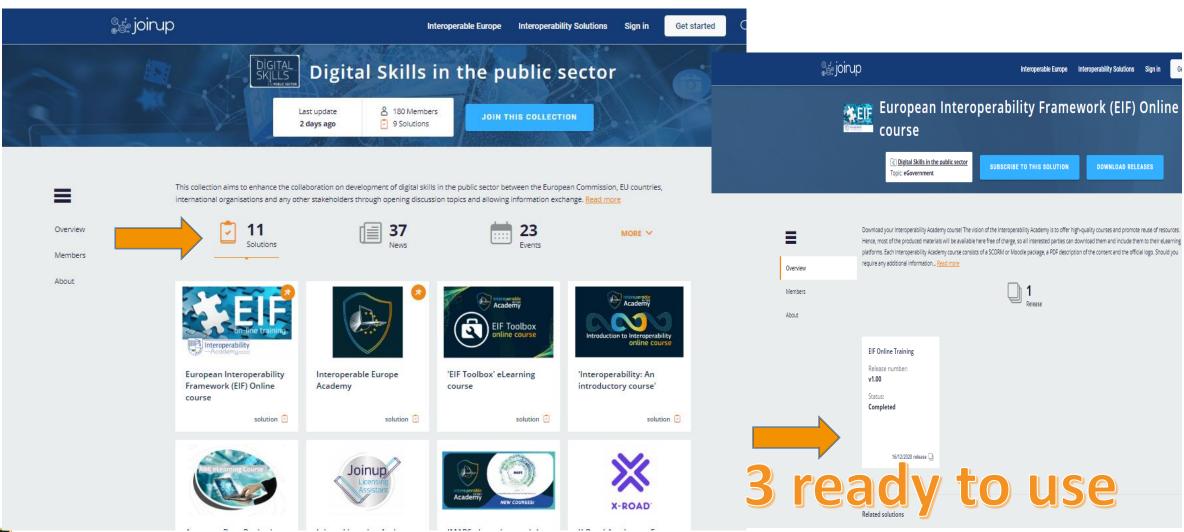
Interoperable Europe Academy: Community in joinup







Interoperable Europe Academy: Reuse courses







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Enjoy the break!
We are continuing in 15 min.



intercerable europe

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How will we organise the work in this session?



Select topics

We will first select the topic in scope for today's session.



Divide into groups

Each group will develop the proposal for course structure, after receiving the input about the course creation process.





Present the proposal

Each group should think of how to present their proposal and collect feedback from the other group.



We will develop the course on the selected topic and you will be able to test it.





Select topics





O2 Interoperable public services design

O3 Advanced interoperability & digital governance

Open source & licencing as an interoperability enabler

Other topic?

04





How are we creating the course?



Set the scene

- Analyse users' motivation, learning styles
- Study course topics
- Model learner profiles & learning paths
- Set learning outcomes
- Agree on deadlines



Select material

- Identify relevant EU legislations & other information and documents
- Elaborate the storyboard
- Collect feedback Finalise the storyboard



Define format

- Anayse the storyboard and propose the best formats (i.e., video, games, lectures)
- Produce course samples
- Collect feedback
- Create draft course based in SCORM



Alpha & Beta

- Organise testing sessions/activities
- · Develop testing forms
- Disseminate surveys to target audiences
- Organise workshops for Beta testing in Moodle
- Finalise the course



Step 5: Course release

Upload the course

- Upload the SCORM on the platform for final internal testing
- Set-up the course and quizzes
- Make course available for enrolment



Enrol

Your course!





How are we creating the course 1/2?



Step 1: Define audience & Set objectives

Set the scene

- Analyse users' motivation, learning styles
- Study course topics
- Model learner profiles & learning paths
- Set learning outcomes
- Agree on deadlines



Step 2: Topic elaboration & Storyboard development

Select material

- Identify relevant EU legislations & other information and documents
- Elaborate the storyboard
- Collect feedback Finalise the storyboard



Step 3: Course design & development

Define format

- Anayse the storyboard and propose the best formats (i.e., video, games, lectures)
- Produce course samples
- · Collect feedback
- Create draft course based in SCORM





How are we creating the course 2/2?



Step 4: Testing

Alpha & Beta

- Organise testing sessions/activities
- Develop testing forms
- Disseminate surveys to target audiences
- Organise workshops for Beta testing in Moodle
- · Finalise the course



Step 5: Course release

Upload the course

- Upload the SCORM on the platform for final internal testing
- Set-up the course and quizzes
- Make course available for enrolment







How are we creating the course?



Step 1: Define audience & Set objectives

Set the scene

- Analyse users' motivation, learning styles
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Step 2: Topic elaboration & Storyboard development

Select material

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Step 3: Course design & development

Define format

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Stan A. Tasting

Alpha & Beta

- Organise testing sessions/activities
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Step 5: Course release

Upload the course

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Enrol

Your course!





Step 1



Step 1: Define audience & Set objectives

Set the scene

- Analyse users' motivation, learning styles
- Study course topics
- Model learner profiles & learning paths
- Set learning outcomes
- Agree on deadlines

Audience

- How much time one has for training?
- What is their motivation for the course?
- What motivates them in general when it comes to learning and professional development?
- What their expectations are?

Objectives

- Why are you offering this course?
- What is the learning outcome?
- How will the course make an impact on the audience?





The answers to these questions will provide you the framework for your course.



Step 2



Step 2: Topic elaboration & Storyboard development

Select material

- Identify relevant EU legislations & other information and documents
- Elaborate the storyboard
- Collect feedback Finalise the storyboard

Topic

- Do you know any relevant laws, documents to support the topic?
- What exactly do you want to present to your audience?
- What concepts would you like to include?

Storyboard

- How many modules would you like to create?
- Do you consider telling a story thanks to an example or case study?





Step 3



Step 3: Course design & development

Define format

- Anayse the storyboard and propose the best formats (i.e., video, games, lectures)
- Produce course samples
- · Collect feedback
- Create draft course based in SCORM

Formats

- In which form do you want to tell your story? Do you want to:
 - Include a lecture?
 - Include animations?
 - Prepare an animated video?
 - Create a game?
 - Create a quiz?





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Where are we?



Step 1: Define audience & Set objectives

Set the scene

- Analyse users' motivation, learning styles
- Study course topics
- Model learner profiles & learning paths
- Set learning outcomes
- Agree on deadlines



Step 2: Topic elaboration & Storyboard development

Select relevant material

- Identify relevant EU legislations & other information and documents
- Elaborate the storyboard
- Collect feedback on the first draft proposal
- Finalise the storyboard



Step 3: Course design & development

Define course format

- Anayse the storyboard and propose the best formats (i.e., video, games, lectures)
- Produce course samples
- Collect feedback on proposed formats
- Create draft course(s) based in SCORM



Step 4: Testing

Alpha & Beta testing

- Organise testing sessions/activities
- Develop testing forms
- Disseminate surveys to target audiences
- Organise workshops for Beta testing in Moodle
- · Finalise the course



Step 5: Course release

Upload the course

- Upload the SCORM on the platform for final internal testing
- Set-up the course and quizzes
- Make course available for enrolment







Group A - Presentation



Presentation of the main results for steps:

- 1. Define Audience & set Objectives
- 2. Topic elaboration & Storyboard development
- 3. Course design & development



10 minutes for presentation and 5 minutes for feedback





Group B - Presentation



Presentation of the main results for steps:

- 1. Define Audience & set Objectives
- 2. Topic elaboration & Storyboard development
- 3. Course design & development



10 minutes for presentation and 5 minutes for feedback





Group C - Presentation



Presentation of the main results for steps:

- 1. Define Audience & set Objectives
- 2. Topic elaboration & Storyboard development
- 3. Course design & development



10 minutes for presentation and 5 minutes for feedback





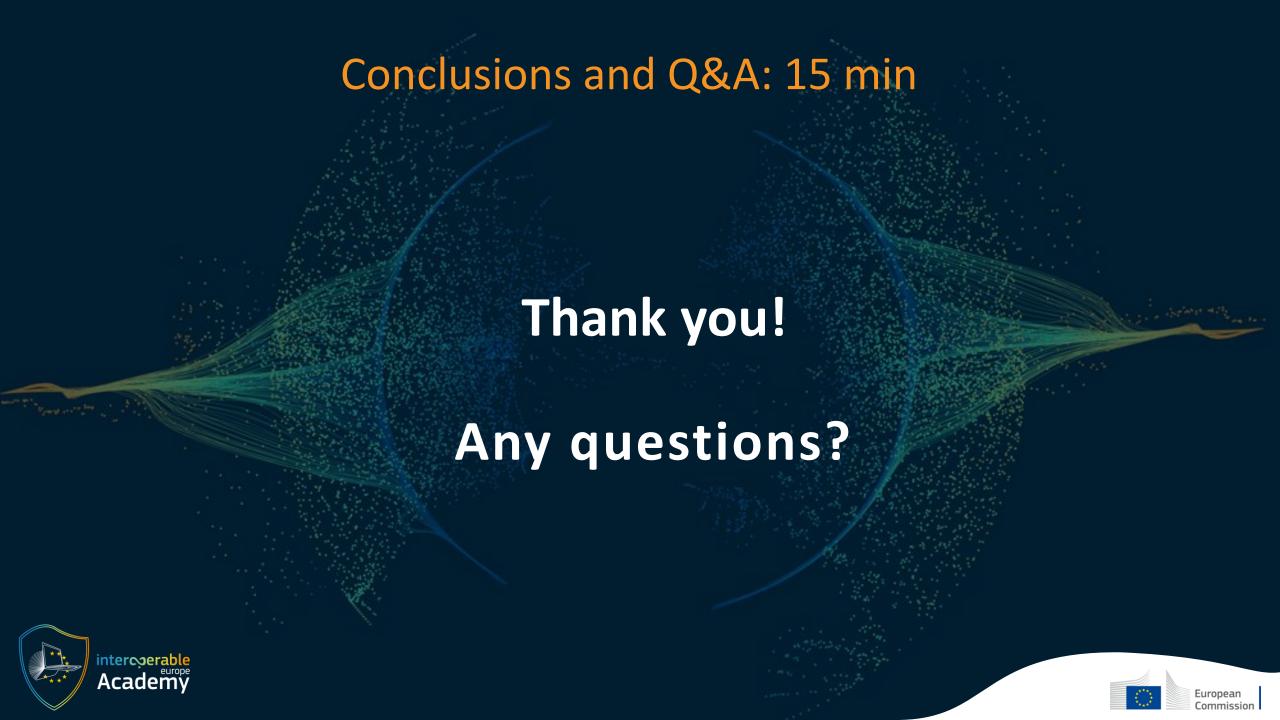
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innovation ∞ govtech ∞ community



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