European Commission

"Bridging the digital gaps across Europe together"

28 May 2020

Interoperability Academy
ISA² action 2019.01

EUROPEAN COMMISSION
DIGIT D2 – Interoperability Unit
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Interoperability Academy
by European Commission

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TRASYS INTERNATIONAL

Agenda

1. **Welcome note**

2. **Briefing from the previous Webinar**

3. **Policy context**

4. **EU Academy and Interoperability Academy**

5. **Course on European Interoperability Framework**

6. **European Skills, Competences, Qualifications and Occupations (ESCO)**

7. **Roadmap of the Interoperability Academy**

8. **A.O.B.**

Welcome Note

Introduce

- The Team
- Policy context
- Cooperation with the EU Academy and ESCO Teams

Present

- First course of the Interoperability (IOP) Academy European Skills, Competences, Qualifications and Occupations (ESCO)
- Roadmap for the IOP Academy

Discuss and exchange

- Impressions and testing of the first course
- Suggestions for the future courses
- Possibilities for collaboration

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Let's introduce ourselves

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The Interoperability Academy Team

The Interoperability Academy Community

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Objectives of the IOP Academy

Minimise the digital skills gap & train civil servants

✓ provide specialised

elearning training programmes

Objectives of Webinar 2

Digital Interdependence

Inter-organisational Collaboration

Presentation of the first course in the IOP Academy

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Key Aspects of Discussion:

1) Requirements of the **IOP Academy Learning and Management System (LMS)**

2) Developed **Learner Profiles, Learning Paths & curriculum**

3) Prior experience with **LMS platform** & features

Main Conclusions:

- ✓ Developed Learner Profiles and Learning Paths were representative to the roles in participants' organization - accepted by the majority of attendees.

- ✓ Variety of topics & courses were suggested covering all levels of knowledge and layers of IOP; considering various learning needs.

- ✓ The LMS platforms used by participants include Moodle, Backboard, & ILIAS.

- ✓ Majority of courses are offered English or translated in English.

- ✓ To develop training modules that are attractive to users with 'easy to digest solutions'.
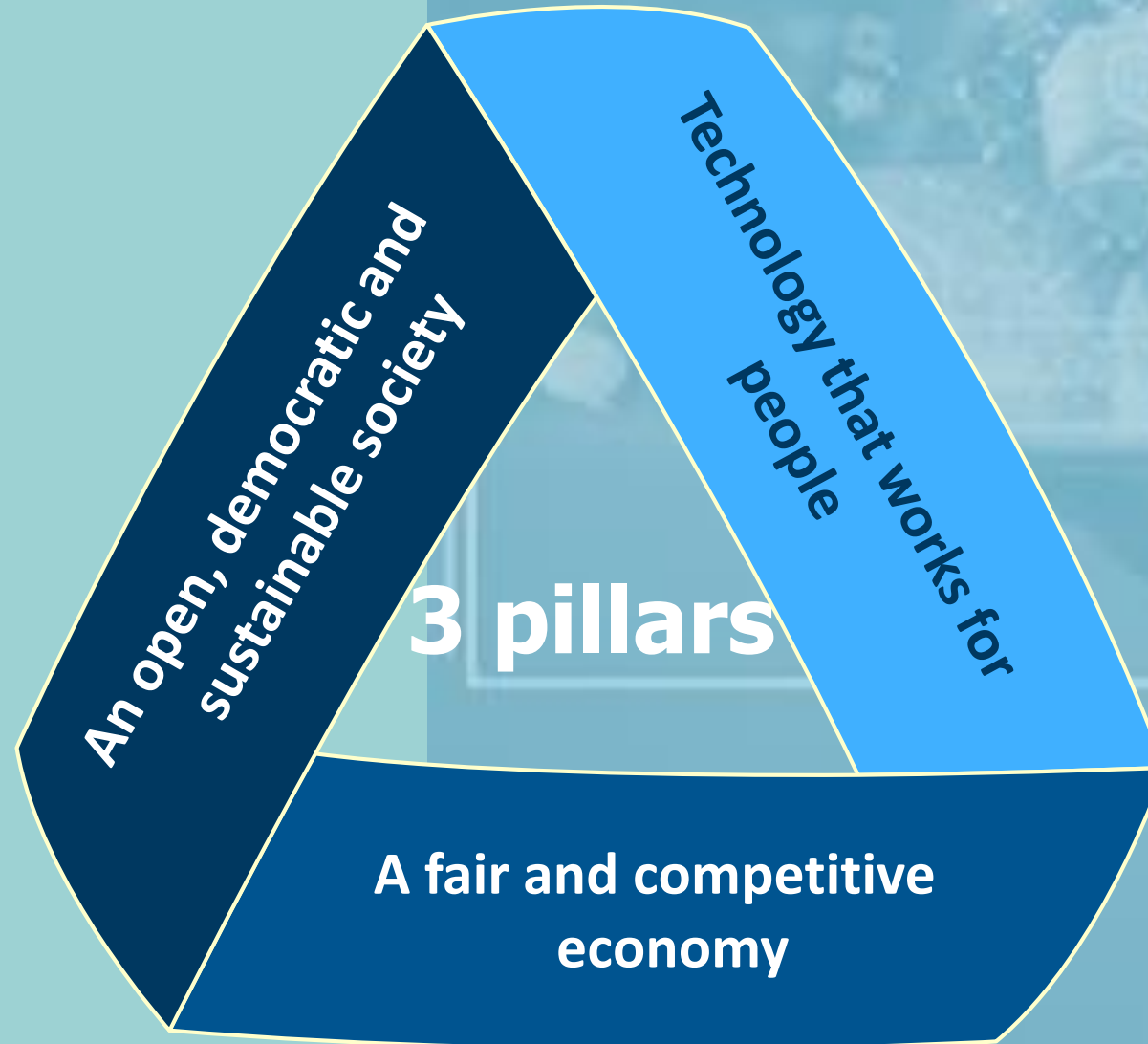
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Shaping Europe's future

3 pillars

An open, democratic and sustainable society

Technology that works for people

A fair and competitive economy

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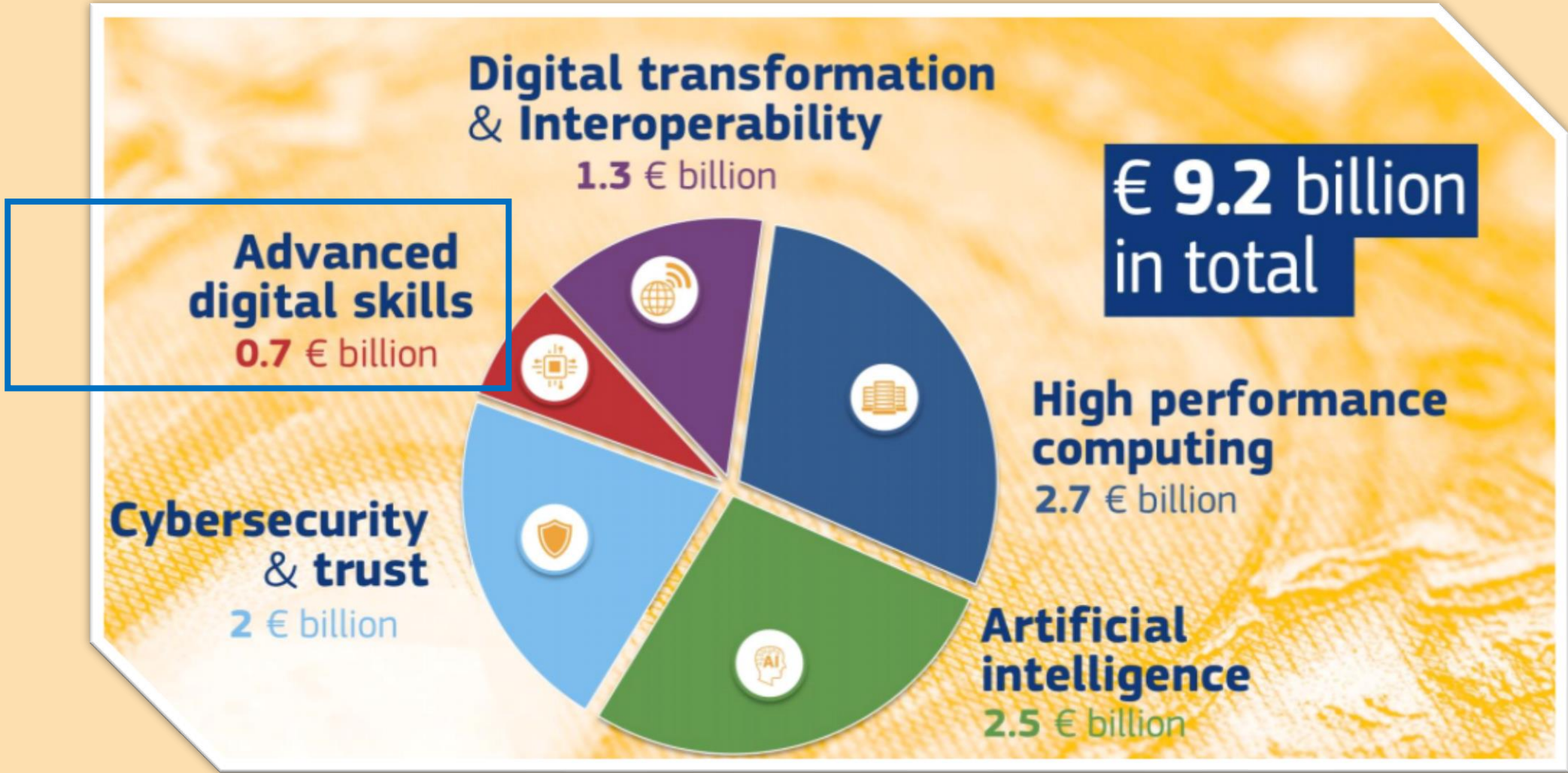
Technology that works for people

✓ A Digital Education Action Plan (Q2 2020)

✓ A reinforced Skills Agenda (Q2 2020)

3 Key actions

✓ A reinforced EU governments interoperability strategy supported by a strengthened European Interoperability Framework (EIF). (2021)

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The Digital Europe Programme (DEP)

Reinforcing digital capacities

Digital transformation & Interoperability
1.3 € billion

Advanced digital skills
0.7 € billion

Cybersecurity & trust
2 € billion

High performance computing
2.7 € billion

Artificial intelligence
2.5 € billion

€ **9.2** billion in total

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The Interoperability Academy

Supporting advanced Digital Skills in the public sector

E-learning resources on interoperability

Syllabus and various learning paths

Free and open online platform

Interoperability
—Academy—
by European Commission

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Interoperability Academy is going live in June!
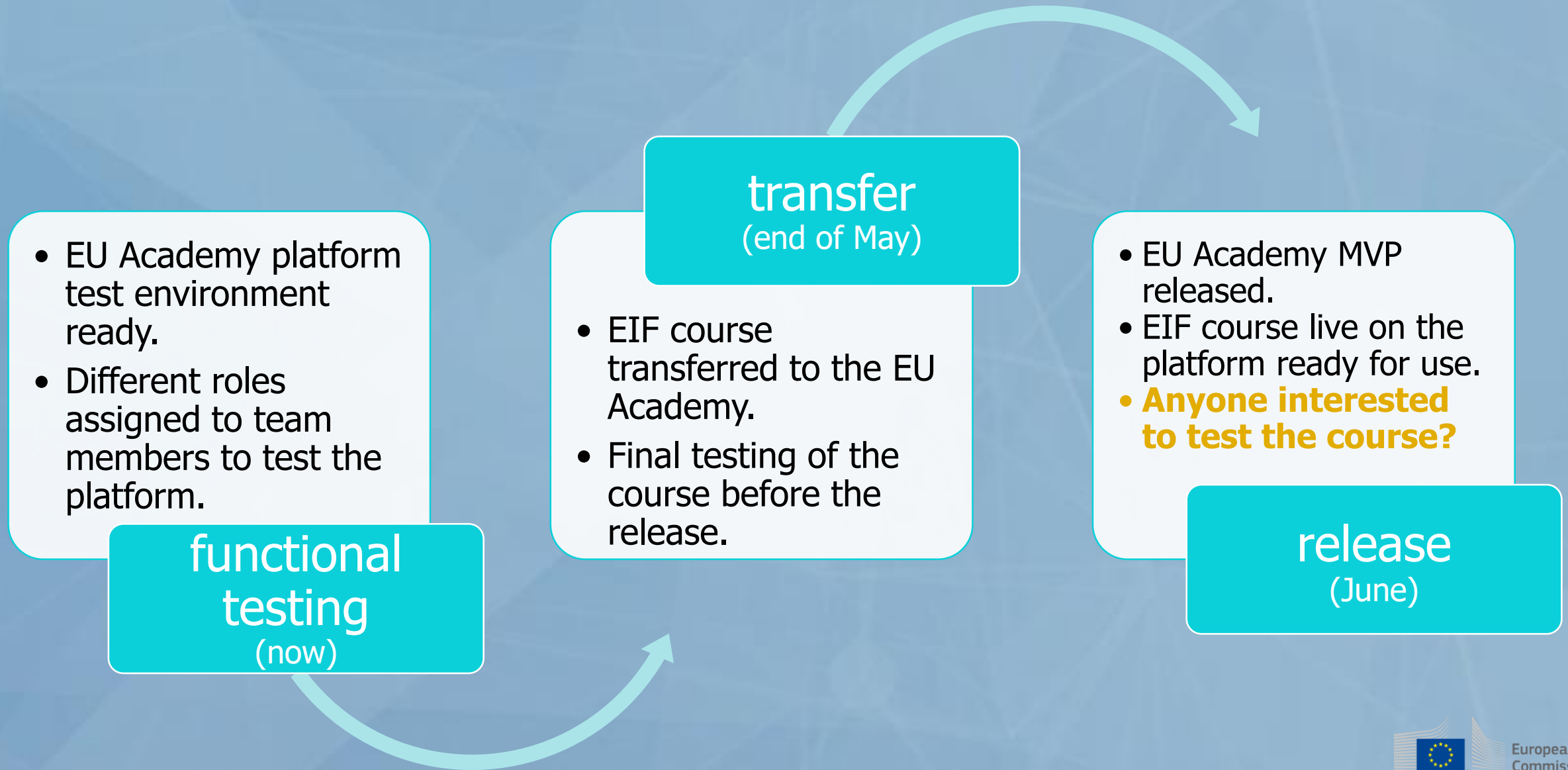
First course will be on the European Interoperability Framework.

IOP Academy will be hosted in the EU Academy eLearning platform.

Interoperability Academy
by European Commission

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EU Academy and Interoperability Academy

Testing of course release of the IOP Academy - timeline

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functional testing
(now)

- EU Academy platform test environment ready.
- Different roles assigned to team members to test the platform.

transfer
(end of May)

- EIF course transferred to the EU Academy.
- Final testing of the course before the release.

release
(June)

- EU Academy MVP released.
- EIF course live on the platform ready for use.
- **Anyone interested to test the course?**

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Why an EU Academy?

- Centralise the access to trainings that different EU Institutions are currently offering (currently scattered on different platforms).

- Trainings not necessarily online, but there is an increased need for e-learning

- Organise trainings and develop relevant topics, following the current priorities and needs of the European Institutions.
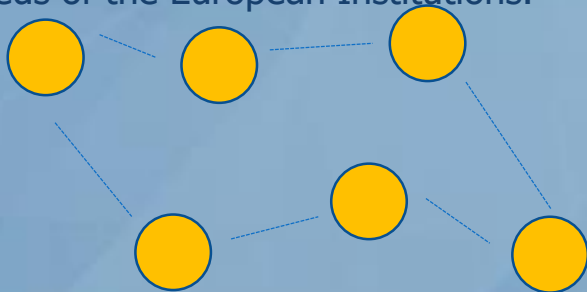
Vision

EU Academy is a go-to learning resource for external professionals who work at the interface between EU policy and its implementation.

Learning opportunities will take the form of self-directed e-learning modules as well as synchronous (real-time) virtual classroom events and community building activities.

Result

A GDPR-compliant world-class inter-institutional online learning platform delivering targeted high quality learning opportunities to external professionals working at the interface between EU policy and its implementation.
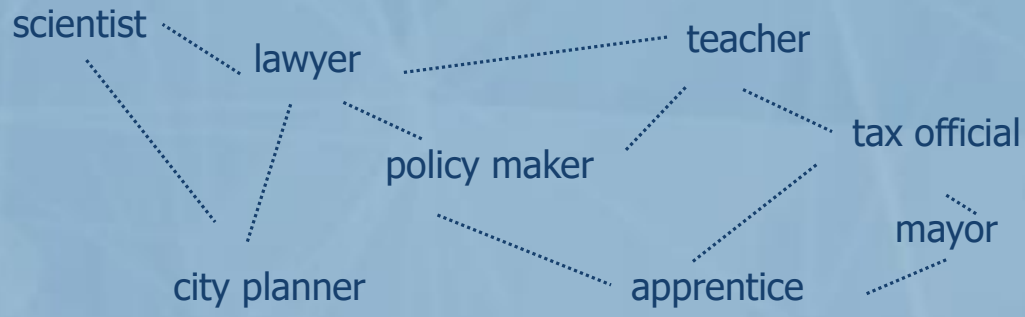
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EU Academy and Interoperability Academy

The plan is to beta launch the Academy over the summer with a selection of first courses from 8 Directorates-General of the Commission, and to bring online new features and functionalities, as well as learning opportunities, in the coming months and years.

| Jun 2020 | MVP | → | Dec 2020 | r1.0 | → | Sep 2021 | r2.0 | → | Dec 2021 | Jan 2022 | → |

SOLUTION PROVIDER IS JRC

SOLUTION PROVIDER IS DIGIT

OVERVIEW   1 / 8   100%

EUROPEAN INTEROPERABILITY FRAMEWORK

Connecting public administrations, business and citizens in one single digital network

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Course on European Interoperability Framework

The new EIF and the role of ISA²

Role of ISA²

EIF

- **1** conceptual model
- **4** levels of interoperability
- **12** underlying principles
- **47** recommendations

Interoperability governance
5 recommendations

Integrated public service governance
2 recommendations

Legal interoperability
1 recommendation

Organisational interoperability
2 recommendations

Semantic interoperability
3 recommendations

Technical interoperability
1 recommendation

In accordance to ISA² decision, the ISA² programme is in charge of contributing to and monitoring the implementation of the EIF across the EU Member States.
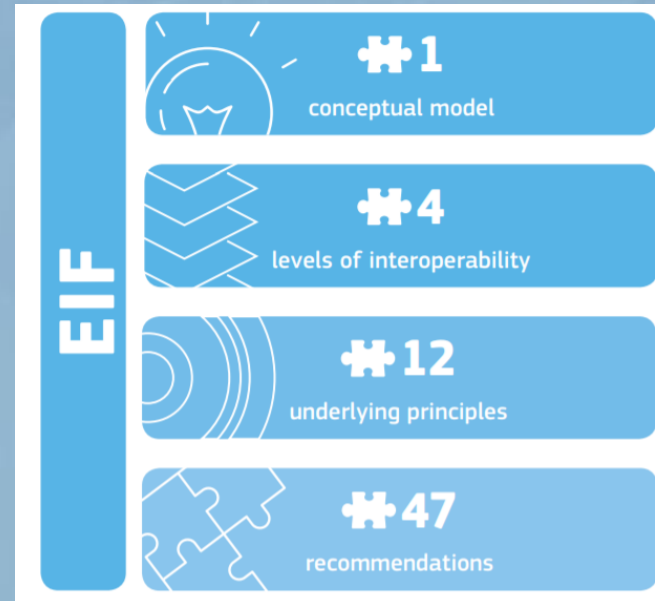
✓ The **new EIF** is part of an EC Communication (2017/134) adopted in March 2017.

✓ The framework gives guidance on the establishment of interoperable digital public services.

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Course on European Interoperability Framework (EIF)

Aim and Structure

ISA²
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Aim: Engage the target audience with the EIF in order to promote the 3 pillars (principles, layers and conceptual model) and learn how interoperability helps to design integrated public services with a practical case.

The integrated e-Learning solution will consist of 2 main components:

✓ **Online Learning Course:** will deliver key knowledge and practical skills to implement the EIF recommendations;

✓ **Interactive Guide:** will enable instant access to all EIF information presented in the course for daily activities.

Structure of EIF Module

✓ Duration: 50 minutes

✓ 6 Modules

✓ The modules include:

• PPT presentations

• video animations 7-8'

• a quiz at the end of each module

ONLINE COURSE

Linear navigation, designed to deliver knowledge in a self-paced environment

INTERACTIVE GUIDE

Drill-down navigation with embedded search, designed for instant access of information

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Course on European Interoperability Framework (EIF)
Aim and Structure

ISA²
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Topics of EIF Course

1 Overview: What is the EIF and define key components

2 Underlying principles

3 Interoperability layers

4 Conceptual model

5 Monitoring mechanism

6 EIF implementation

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Course on European Interoperability Framework (EIF)

Module Example: Topic 'Underlying Principles'

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Aim: This module will help public administrations understand the key principles of the EIF in a way that enables them to apply them in a real context.

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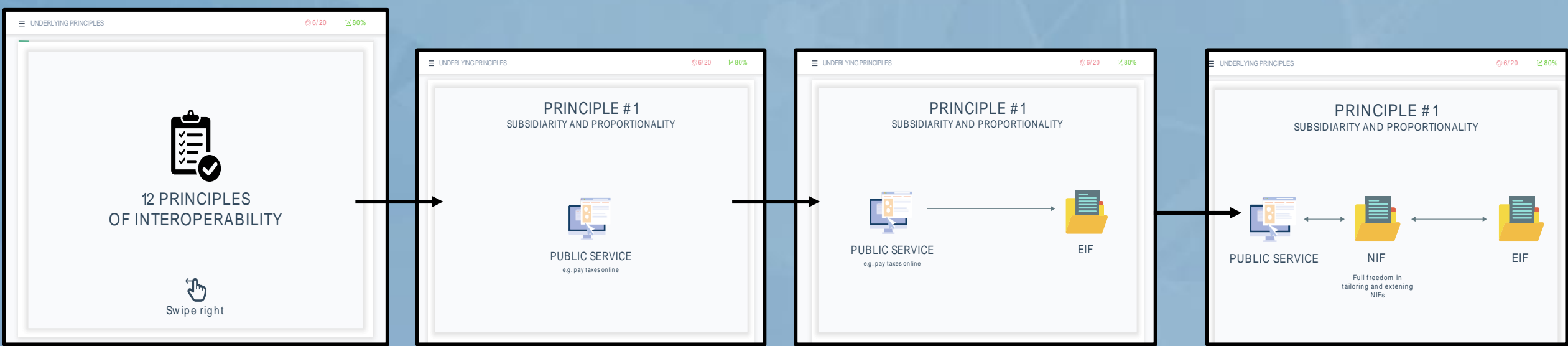
Course on European Interoperability Framework (EIF)

Module Example: topic 'Interoperability Layers'

Aim: This module will help public administrations understand the 4 layers of interoperability and how they support the EIF.

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The Interoperability Academy
Supporting advanced Digital Skills in the public sector

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Barry Kruger

eLearning Expert
Trasys International

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The Interoperability Academy
Skills & Competences frameworks for the Public Sector

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Interoperability Academy aims to offer courses which will support development of relevant advanced digital skills in the public sector

Learner profiles and learning paths are developed based on:

1. European e-Competence Framework (e-CF)

2. CEN CWA 16458-1 European ICT Professionals Role Profiles

3. **ESCO (Skills, Competences, Qualifications and Occupations) classification**

4. DigiComp

5. ISA² and JRC user- and learner-centricity work.

Work in progress:

Study on Skills & Competences frameworks for the Public Sector

Research and analysis on existing skills and competences frameworks to be customised for the needs of IOP Academy

IOP Academy curriculum/competences framework

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Learner Canvas

IMAGE
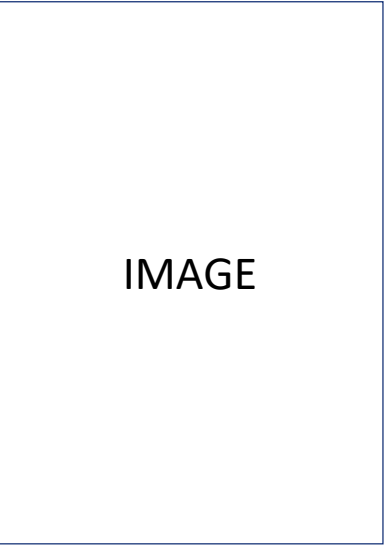
Age profile:
Role-type:
Motivation:

PERSONA
RELATED INFO

Qualifications

Occupation: MAPPING TO ESCO AND CWA 16458-1

SUMMARY DESCRIPTION

Accountable for:

Responsible for:

MAPPING TO CWA 16458-1

Tasks

MAPPING TO ESCO AND CWA 16458-1

E-CF Competencies

MAPPING TO DIGI-COMP, e-CF AND EQF

Challenges

PERSONA RELATED INFO

Knowledge

MAPPING TO ESCO

ESCO URI

LINK TO ESCO RECORD

The Interoperability Academy & ESCO

EU goals in a digital labour market

- Better link education-training to labour ➡ ensure access to the best opportunities

- Ensure transparency of information on skills through systems' interoperability

- Allow open-fair access to information on skills, qualifications, jobs and training

- ✓ avoid monopolisation of data in digital labour market

- ✓ European open standards to counteract risks of proprietary standards

ESCO

European Skills/Competences, qualifications and Occupations

European Commission

📖 ABOUT ESCO   ⅇ CLASSIFICATION   ⌨ TOOLS & RESOURCES   💬 FORUM   🔍

Occupations .... Skills/competences .... Qualifications

🔍 Search   ⊜

ⅇ SKILLS/COMPETENCES

› A - attitudes and values
› K - knowledge
› L - language skills and knowledge
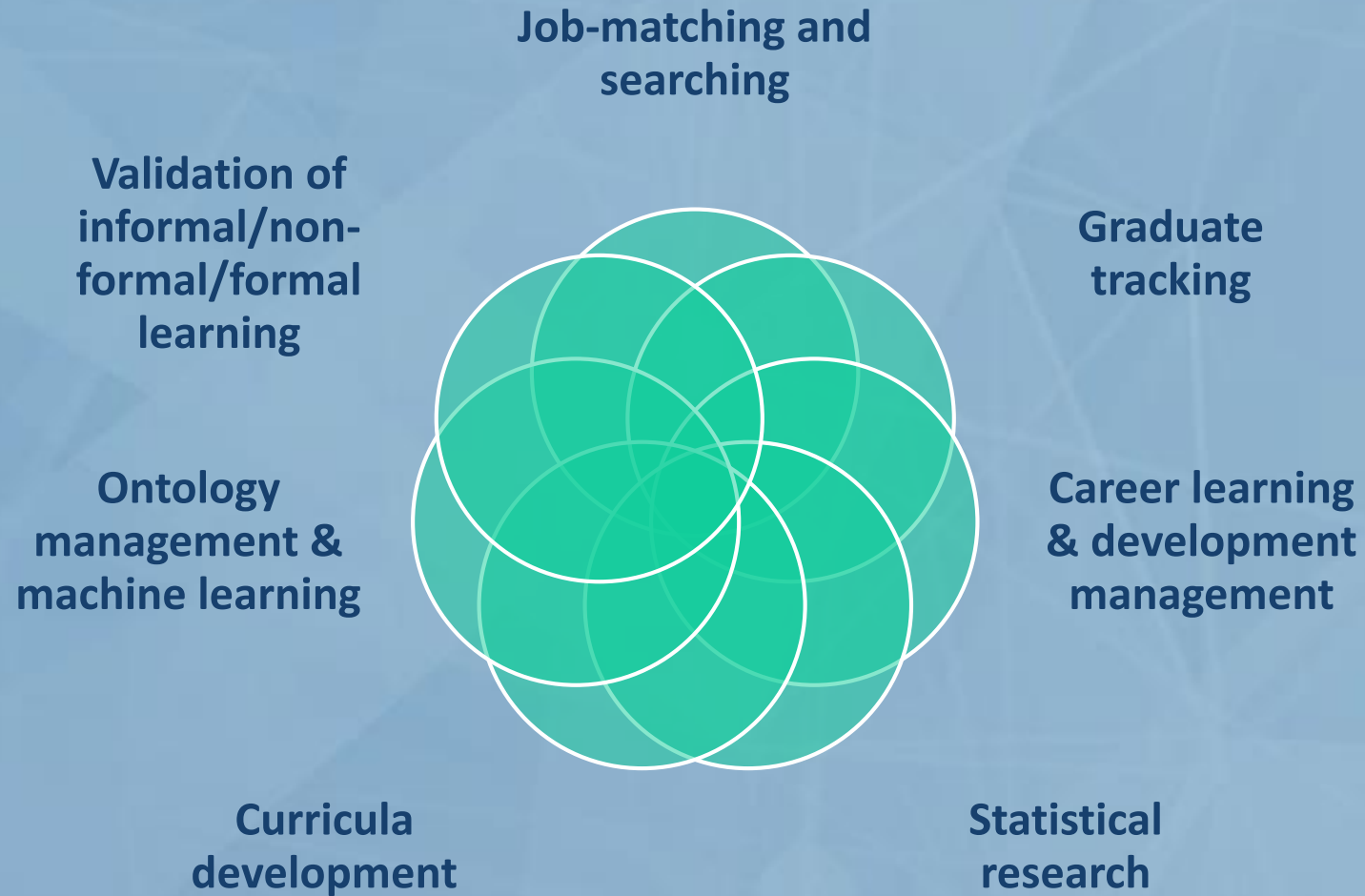› S - skills

Skills

13485
skills / competences

The ESCO skills pillar distinguishes between i) skill/competence concepts and ii) knowledge concepts by indicating the skill type. There is however no distinction between skills and competences. Each of these concepts comes with one preferred term and a number of non-preferred terms in each of the 27 ESCO languages. Every concept also includes an explanation in the form of

Job-matching and searching

Validation of informal/non-formal/formal learning

Graduate tracking

Ontology management & machine learning

Career learning & development management

Curricula development

Statistical research

European Commission
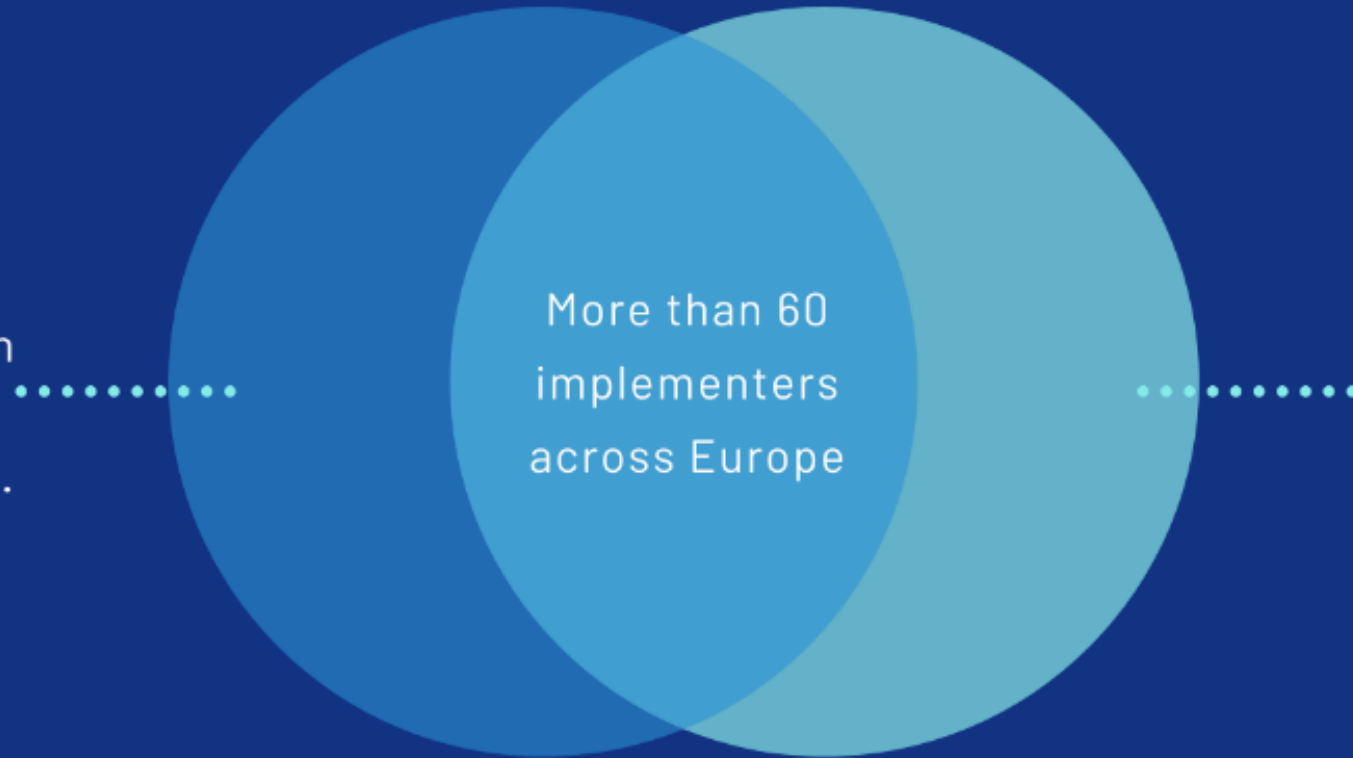
The Interoperability Academy & ESCO

Use of ESCO by EU public authorities

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Job-matching & searching

EURES

Job-matching; career learning & development management

EUROPASS

Career learning & development management

DG HR-EU Learn

Statistical research

CEDEFOP - OVATE

Job-matching; Career learning & development management

DG EAC – EIT Inno-energy

Skills documentation

EU 3rd country nationals tool

European Commission

OPENSKIMR - OPEN EUROPEAN SKILL MATCH MAKER

is a project funded by the European Union
that aims to bring together talents,
jobs and learnings to support people
in creating their personal career routes.

SKILL MATCH MAKER

Openskimr is a life-long
companion which guides talents
through their career in the STEM
area.

EXPERT AND TALENT COMMUNITY

Openskimr is a platform for an
independent expert and talent
community. People from the
research consortium and the

MATCHING ALGORITHMS

The Openskimr team develops a
set of algorithms which involve
match-making and
recommendations of jobs and

EUROPEAN CLASSIFICATION SYSTEM ESCO

Openskimr is built on the latest
version of the European
classification system ESCO
(European Skills, Competences,

Skills Mapping Technology that Delights Employees

HR leaders, solve your most critical HR challenges with our Skills Mapping Technology. You and your teams will love it.

Request Demo   ▷ Product Overview

Map your journey to a new career

GET STARTED

LEARN MORE

↓

THE LEARNING MANAGEMENT SYSTEM YOU'LL LOVE TO USE

Train employees, partners and customers worldwide

START YOUR FREE TRIAL   **SCHEDULE A DEMO**

HubSpot   THOMSON REUTERS   DocuSign   UBER   Denny's

Docebo is the only learning platform that combines formal, social and experiential learning with skills management to maximize learner performance

- **Is ESCO improving** the functioning of the labour market, as a common reference terminology to bridge employment with education-training?

- **How should** ESCO's implementation contribute to an integrated digital labour market based on open, correct and well-structured data and on communication across languages, domains and use cases?

- **ESCO's sustainability**, v1.1 and beyond: an expert- and data-driven taxonomy? Role of AI technology?
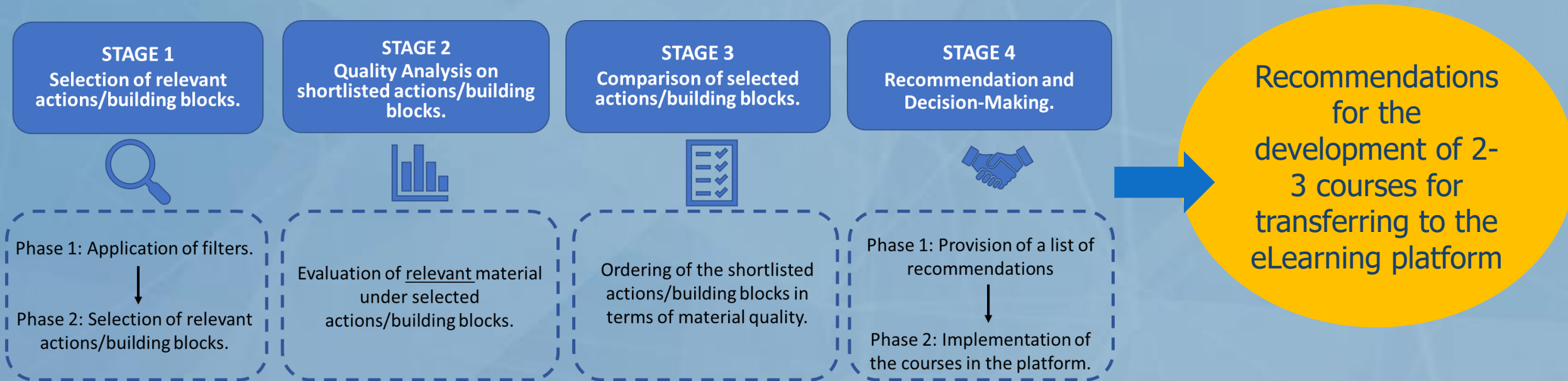
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The Interoperability Academy
Selecting and Developing Courses

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A methodology was developed for assessment and selection of existing training materials in order to identify those that could be transferred (upon amendments, if necessary) to the Interoperability Academy eLearning platform.

STAGE 1
Selection of relevant actions/building blocks.

STAGE 2
Quality Analysis on shortlisted actions/building blocks.

STAGE 3
Comparison of selected actions/building blocks.

STAGE 4
Recommendation and Decision-Making.

Recommendations for the development of 2-3 courses for transferring to the eLearning platform

Phase 1: Application of filters.
↓
Phase 2: Selection of relevant actions/building blocks.

Evaluation of relevant material under selected actions/building blocks.

Ordering of the shortlisted actions/building blocks in terms of material quality.

Phase 1: Provision of a list of recommendations
↓
Phase 2: Implementation of the courses in the platform.

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The Interoperability Academy Roadmap
Achievements and Future Plans

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Achievements

- Defined Requirements for IOP Academy LMS.

- Preparation and testing of the first training course for the IOP Academy LMS.

Ongoing Tasks

- Release of the first course, EIF in the Interoperability Academy.

- Selecting initial topics for the next IOP Academy courses.

March 2020

May 2020

July 2020

September 2020

November 2020

December 2020 - onwards

Future Plans

- Identify more courses for transferring to the eLearning platform.

Future Plans

- Preparation and testing of the second training course.

- Establish Guidelines for the development/transformation of material for Action Owners.

Vision for the future

- Release of the second course on SEMIC action on the Interoperability Academy.

- Continue to identify potential topics for the next IOP Academy courses.

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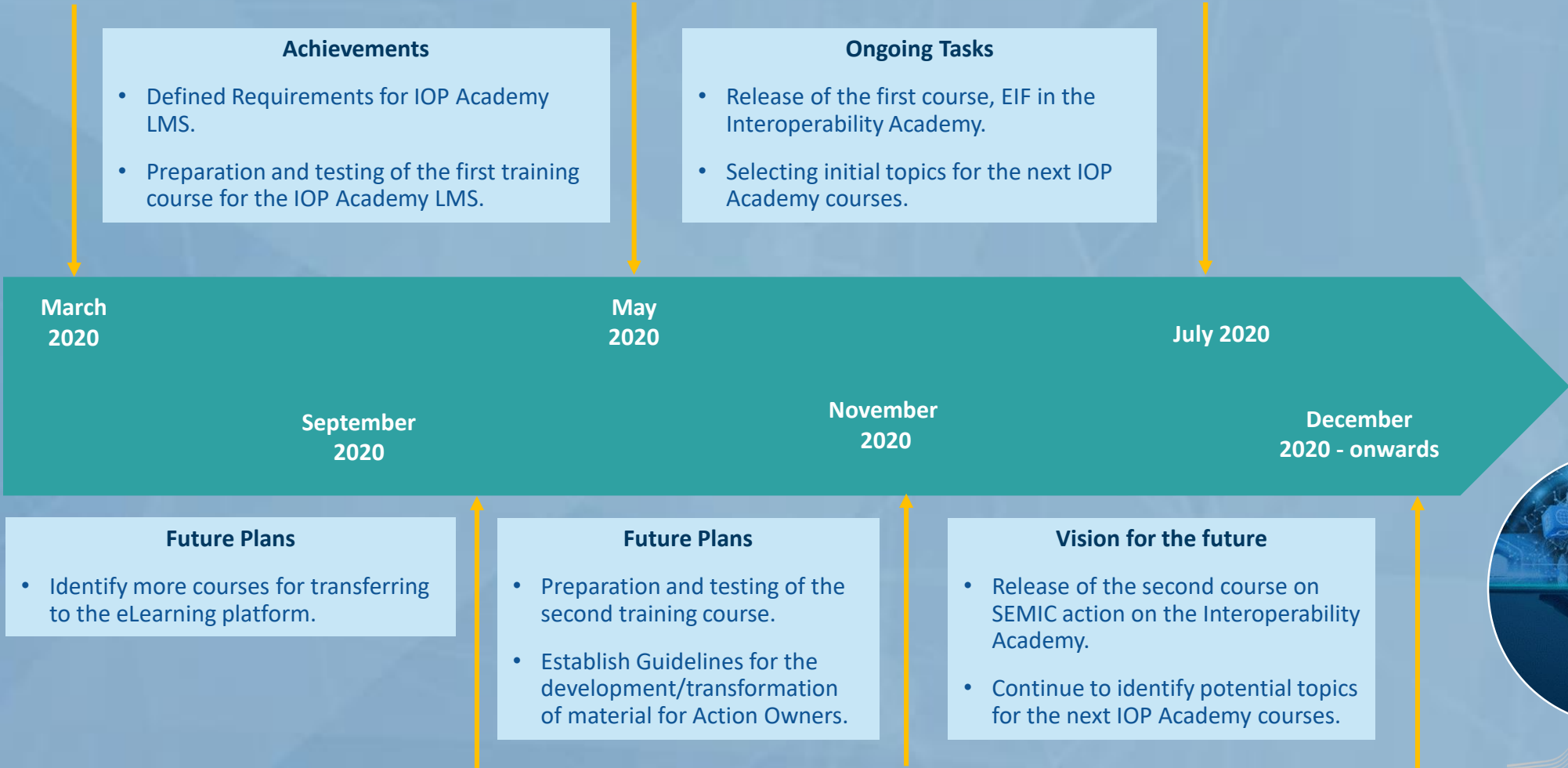7. **Roadmap of the Interoperability Academy**

8. **A.O.B.**

COLLECTIONS SOLUTIONS KEEP UP TO DATE

Step 1: Find us here!!

https://joinup.ec.europa.eu/collection/digital-skills-public-sector

Digital Skills in the public sector

Last update 11 days ago | 63 Members | 1 Solution | JOIN THIS COLLECTION

Step 2: Become a member!!

This collection aims to enhance the collaboration on development of digital skills in the public sector between the European Commission, EU cour international organisations and any other stakeholders through opening discussion topics and allowing information exchange. Read more

Overview

Members

About

About: all policy domains

10 News
4 Events
2 Discussions
MORE

Add custom page

Add solution

Add news

Add discussion

Add document

Add event

Step 4: Share some info about your initiative!!

Let us know more about your eLearning platform!

Help us shape the Interoperability Academy! We are eager to implement the best practices and create a modern platform accessible 24/7, free of

0 discussion

The new phase of the Interoperability Academy!

news

training and awareness

news

Welcome to the EU Academy

news

Step 5: Tell us about your needs & expectations from the IOP!

Course on Interoperability in Health Informatics - now free

news

ELISE Webinar - Location Intelligence and Partnerships to support

30/04/2020 event

ELISE Webinar - The role of Organisational Interoperability in the

11/02/2020 event

Smart Government Academy

news

Step 3: Comment on existing material.

Talk to us:
IOP-Academy@ec.Europa.eu

Let us know more about your initiative!

And read about similar initiatives across Europe!

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e-Governance Academy (eGA)

The digital transformation of a country requires teamwork at the highest level 🔗

Uuno VALLNER | Published on: 25/11/2019 | Last update: 08/01/2020

eGA · **e-Governance Conference** · **NCSI** National Cyber Security Index

eGA is a non-profit think tank and consultancy organisation, a joint initiative of the Government of Estonia, Open Society Institute (OSI) and the United Nations Development Programme. eGA's mission is to help governments increase their governance efficiency and improve their democratic processes.

eGA is empowering central and local government decision-makers to lead digital transformation programmes to create smart, sustainable and effective e-government, e-democracy and cyber security solutions through consultancy, training, networking, research and assistance in the implementation of e-government technical solutions.

To date, eGA has cooperated with more than 200 organisations and trained more than 5,500 officials in 130 countries and regions. eGA is playing key roles in e-government and digital transformation policy planning and implementation including the formation of the lead organisations responsible for developing a nation's interoperability framework and related legal and technical framework development and management.

eGA is offering customised study tours and training programmes in the area of digital transformation. More information about the eGA and training topics you can find here.

References

https://ega.ee/

UNU - eGOV

UNU - eGOV - United Nations University

Elisabete SIMOES | Published on: 20/11/2019 | Last update: 22/11/2019

UNU-EGOV, part of the United Nations University (UNU), based in the city of Guimarães, Portugal, is a think tank dedicated to Electronic Governance; a core centre of research, advisory services and training; a bridge between research and public policies; an innovation enhancer; a solid partner within the UN system and its Member States with a particular focus on sustainable development, social inclusion and active citizenship. UNU-EGOV strives to cement its role as an international reference of excellence in this area, bringing together multidisciplinary and multicultural teams around complex problems and emerging challenges.

UNU-EGOV is also offering training courses designed to equip Government Chief Information Officers (GCIOs), at all levels of Public Administration, with some of the required competencies to fulfil their responsibilities and to enable the development of an internationally-recognised profession.

All courses have a flexible curriculum design which can be adapted to the context, training aims and trainees' backgrounds of each Administration, Agency or Service. In all cases, however, they include an experimental, interactive component fostering group synergies and active learning strategies.

More information about the trainings you can find here.

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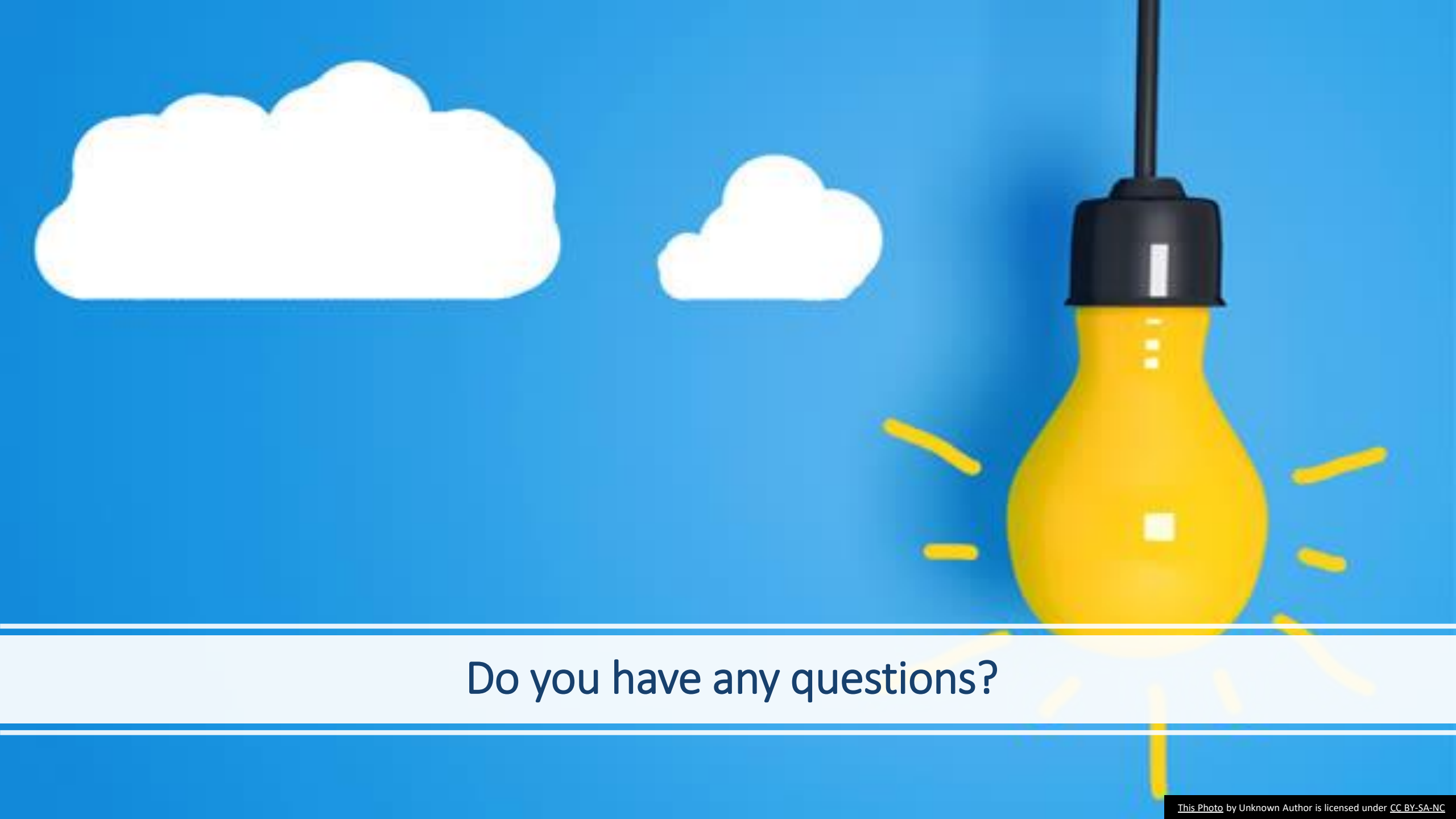
Do you have any questions?

Stay in touch!

Thank you for your participation!