Digital Competences roadmap

Ana Vitorica

Developing digital competences for employability Workshop
Bilbao, 19th-20th June

EUSKO JAURLARITZA
GOBIERNO VASCO

EKONOMIAREN GARAPEN
ETA AZPIEGITURA SAILA

DEPARTAMENTO DE DESARROLLO
ECONÓMICO E INFRAESTRUCTURAS

Why ikanos?

innovation

DigComp

best way forward in digital competence

Very early contacts with DigComp framework

Now, widespread **dissemination**

We trust in ikanos **validity**

Hard work in:

- Designing
- Comparing
- Testing
- Customizing

What is ikanos?

ikanos.eus

disseminate,
share + boost

public initiative

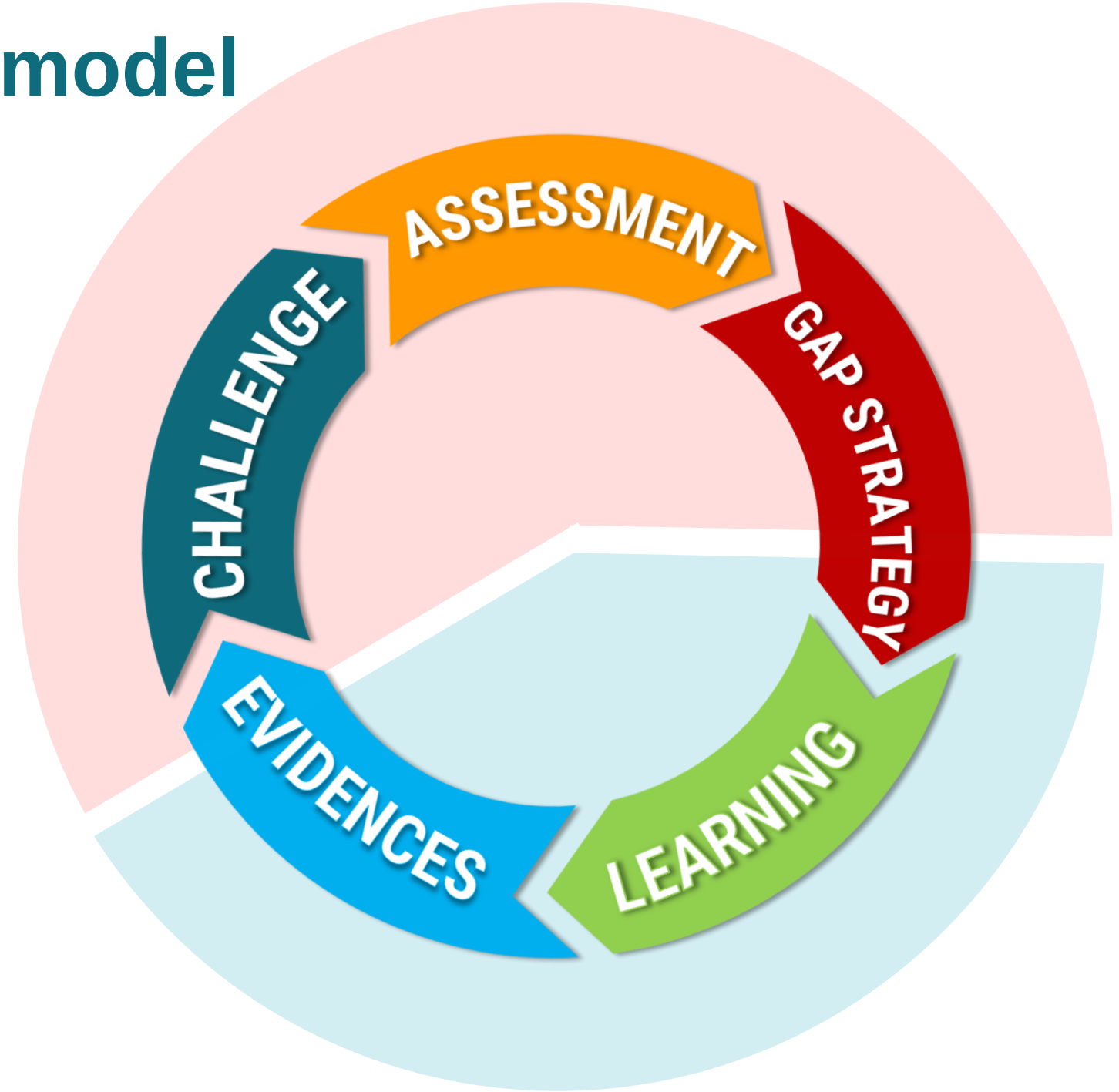
expert support

roadmap

digital competences

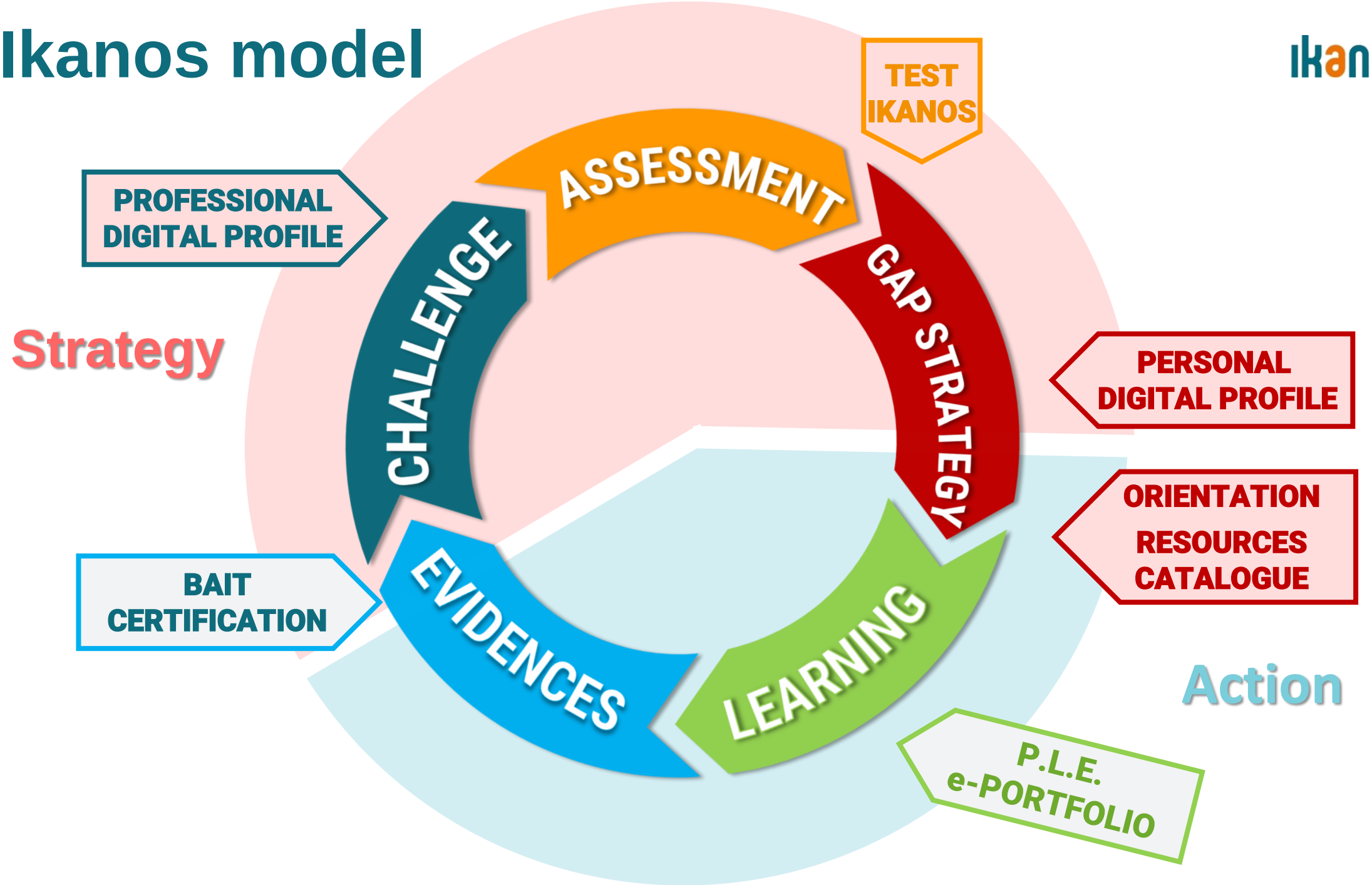
Ikanos model

Strategy



Action

Ikanos model



ikanos PROFESSIONAL DIGITAL PROFILE

01. gathers the **digital requirements** of an occupation.

02. specifies the **level of digital skills** required

03. to perform adequately **the tasks that require ICT** in a job or occupation.

examples inspire…

CHALLENGE: Professional Digital Profiles

GENERAL PROFILES

- Administrative staff
- Sales representative
- Entrepreneur

EXPERT

- Economist in Consulting and Auditing
- Marketing Economist
- Responsible for Digital Transformation SMEs
- Economist in Business Management

INDUSTRY 4.0

- Advanced industry maintenance technician
- 3D design technician for additive manufacturing
- Collaborative Robotics Technician
- Technician Operator of Additive Manufacturing
- Numerical Control Operation Technician

HEALTH

- Primary Care Doctor
- Manager Health Center
- Administrative Health Center

Ikanos partners

Education & Universities

Universities

Mondragon Unibertsitatea

eman ta zabal zazu
Universidad País Vasco
Euskal Herriko Unibertsitatea

Modernization

Berritzegune Nagusia

Heziberri ETORKIZUNEKO HEZKUNTZA

Tknika
LANBIDE HEZIKETAKO BERRIKUNTZA ZENTROA
CENTRO DE INNOVACIÓN PARA LA FORMACIÓN PROFESIONAL

Associations

HADE

Fp LANBIDE HEZIKETA

bihe+

EIB EUSKO IKASTOLA BATZA

kristau·eskola

Tolosaldea Lanbide Heziketa Institutua

Basque Institutions

Basque Government

EUSKO JAURLARITZA
GOBIERNO VASCO

kz gunea

GRUPO spri TALDEA

Health Service

Osakidetza
Servicio vasco de salud

Tech centres

tecnalia Inspiring Business

BASQUE CYBERSECURITY CENTRE

BA/T

Companies & Associations

bankoa Groupe Crédit Agricole

AERnnova

Grupo SSI

HIRUDI SISTEMAS 3D

EDE edefundazioa

asle Sociedades Laborales de Euskadi

cámara de álava arabako ganbera

ekonomistak
Euskal Elkargoa - Colegio Vasco

Employment

Lanbide

Bizkaia dema

prestik ENPLEGU AZOKA FERIA DE EMPLEO 2018

ASSESSMENT: Ikanos test questions

test.ikanos.eus

ikanos.eus EN ES EU

Slider

INFORMATION 13%

03. What do you do for locating and accessing the information you require:

0: I don't know it / I am not able to | 10: I have a thorough knowledge of

I use general (Google, Bing, DuckGo) or specialized (scienceresearch.com, Microsoft Academic Search) search engines	0	8	10
I use advanced search tools to improve my results	0	3	10
I design my own search strategies that I adapt according to my needs	0	6	10
I have set up a personal learning environment (PLE) in order to receive news, which helps me to follow the best resources that I have identified	0	6	10
I search for, filter and share information, resources and best practices within the digital communities that I belong to	0	4	10

OPTIONS PREVIOUS NEXT

Multiple Choice

SAFETY 79%

22. Indicate how "green" your behaviour is when using technology

- [ ] I understand the meaning of the "Green IT" concept
- [x] I apply basic measures to save energy (trying not to print on paper, improving energy-saving settings on my devices, turning my devices off when I finish work, etc.)
- [x] I recycle devices (electronic components, toners, etc.), and dispose of them at a suitable site
- [x] I use videoconferencing and telemeetings systems in order to cut down on commuting
- [ ] I take part in social networks in order to mobilise, raise awareness and share ideas about sustainability

OPTIONS PREVIOUS NEXT

Matrix

CONTENT CREATION 48%

13. Please, indicate your level of knowledge of certain tools from each category:

	Nothing	Basic	Intermediate	Avanced
WORD PROCESSORS: *Word, GoogleDocs, Writer, etc.*	○	○	●	○
PRESENTATIONS: *PowerPoint, Impress, GooglePresentations, etc.*	○	●	○	○
PRESENTATIONS with animation: *Prezi, Keynote, Emaze, PowToon, etc.*	○	○	○	●
IMAGE EDITORS: *PhotoShop, Gimp, Coreldraw, etc.*	○	○	●	○
SPREADSHEETS: *Excel, Calc, GoogleSpreadsheet, etc.*	○	●	○	○
DATABASES: *Access, MySQL, Dbase, ORACLE, etc.*	●	○	○	○
VIDEO: *Premiere, Youtube editor, Pinnacle Studio, etc.*	○	●	○	○
AUDIO: *Audacity, Adobe Audition, Audio Editor, etc.*	●	○	○	○
WEBSITE CREATION: *Dreamweaver, MAGIX Web Designer, WebSite X5, etc.*	●	○	○	○

OPTIONS PREVIOUS NEXT

Yes/No

SAFETY 65%

18. Which of the following statements apply to you in relation to the secure use of your digital devices online?

	YES	NO
I have installed an antivirus program on my devices and I keep an eye on its updates	●	○
I proceed with caution whenever I receive messages with content and attached files from a sender I do not know (SPAM)	○	●
I use different passwords to access my devices and digital services and I change them on a regular basis	●	○
I change the access code of my home wifi network on a regular basis	○	●
I advise and provide guidelines to my friends and family in order to prevent security risks when using their devices	○	●

OPTIONS PREVIOUS NEXT

GAP STRATEGY: Ikanos PERSONAL PROFILE:

MIKEL ATKINSON

- **Personal report with objectives:** to compare user results with the expected values.
- **Target values in green,** are taken from the professional digital profile.
- **Personal results in purple** come from the answers to the test.

Data for Benchmarking

Custom questions and items

Segmentation and anonymous users

Mobile version

Custom design for organizations

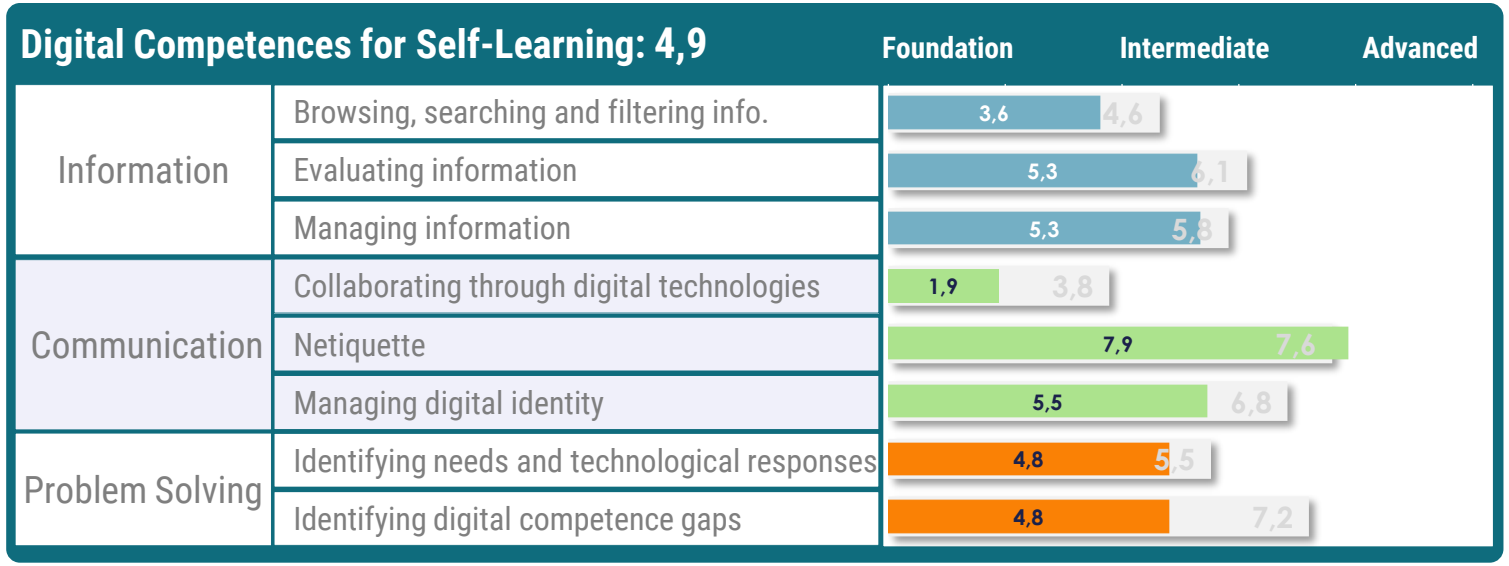
Area	Digital Competence	Foundation	Intermediate	Advanced
Information — Nivel intermedio	Browsing, searching and filtering information			
	Evaluating data, information and digital content			
	Managing data, information and digital content			
Communication — Nivel intermedio	Interacting through digital technologies			
	Sharing through digital technologies			
	Engaging in citizenship through digital technologies			
	Collaborating through digital technologies			
	Netiquette			
	Managing digital identity			
Content creation — Nivel intermedio	Developing content			
	Integrating and re-elaborating digital content			
	Copyright and licenses			
	Programming			
Safety — Nivel intermedio	Protecting devices			
	Protecting personal data and privacy			
	Protecting health and well-being			
	Protecting the environment			
Problem solving — Nivel intermedio	Solving technical problems			
	Identifying needs and technological responses			
	Creatively using digital technology			
	Identifying digital competence gaps			

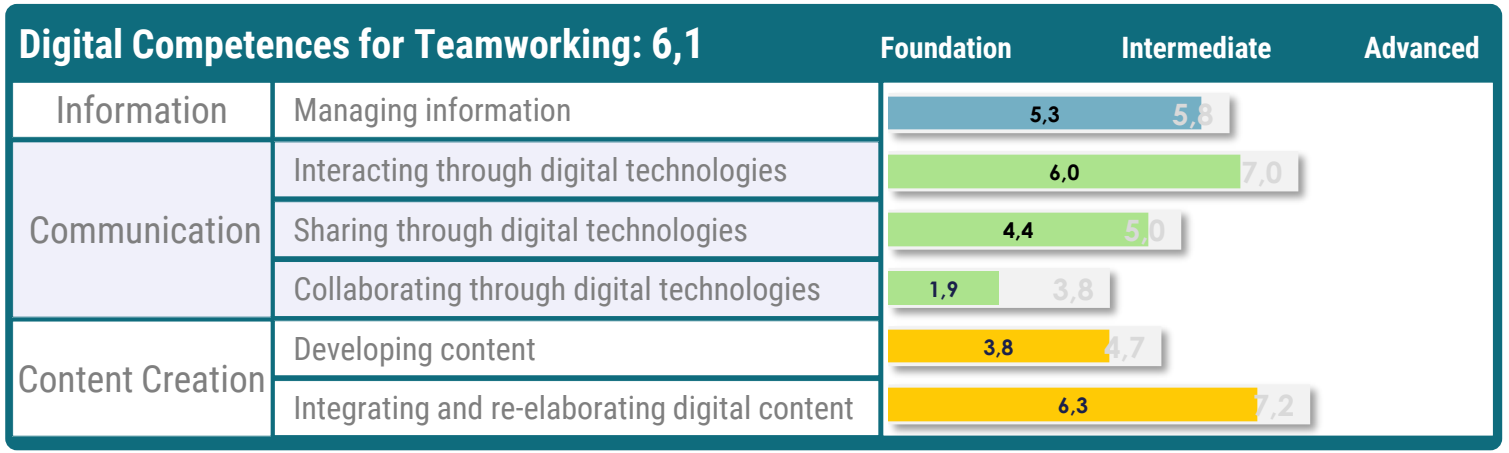
GAP STRATEGY: Ikanos test evolution: Teamworking and self-learning

High-level soft skills

are supported by digital skills

- DigComp competences most related to **self-learning** and **teamworking** skills have been identified.
- An **INDEX** is calculated to provide information to HR departments.
- These indicators have been used in **internal recruitment** for new areas created in digitalization projects.





LEARNING: Orientation guide

ikanos **Orientation Guide** is a **tool** for **professional guidance counselors:**

- To verify test results.
- To go further in digital diagnosis.
- To compare test results with professional profiles that match candidate skills.

Competence **1.3 Storing and retrieving information:** Store information and content to facilitate retrieval and organize information and data.

The user has obtained his score in this competence by rating:

- His/her methods and habits of storing information, on physical media and in the cloud
- The way in which you classify and archive information.
- How quickly it locates and retrieves stored information..

We need to verify that the user:

- Understands how information is stored on different devices and services.
- Knows different storage media options and is able to select the most appropriate one.
- Is able to use information management services, programs and applications.
- Structures and classifies information and contents according to one or several classification methods.
- Uploads and classifies information and digital content and accesses and retrieves stored information.
- Is capable of tagging content.

Other questions related to storing and retrieving information:

- How do you back up your files? What storage hardware or service do you use?
- How is your naming strategy for folders and files?

Other questions about Cloud Skills:

- Do you know how to use Dropbox? Evernote, Pocket? OneDrive or Google Drive?
- Do you have a strategy for tagging new elements?
- Do you know how to synchronize bookmarks from your browser on another computer?
- When using social bookmarks (Delicious or Diigo) the categorization and use of tags is fundamental. Do you know any of these services? What do you think of them?

LEARNING: Personal Learning Environment

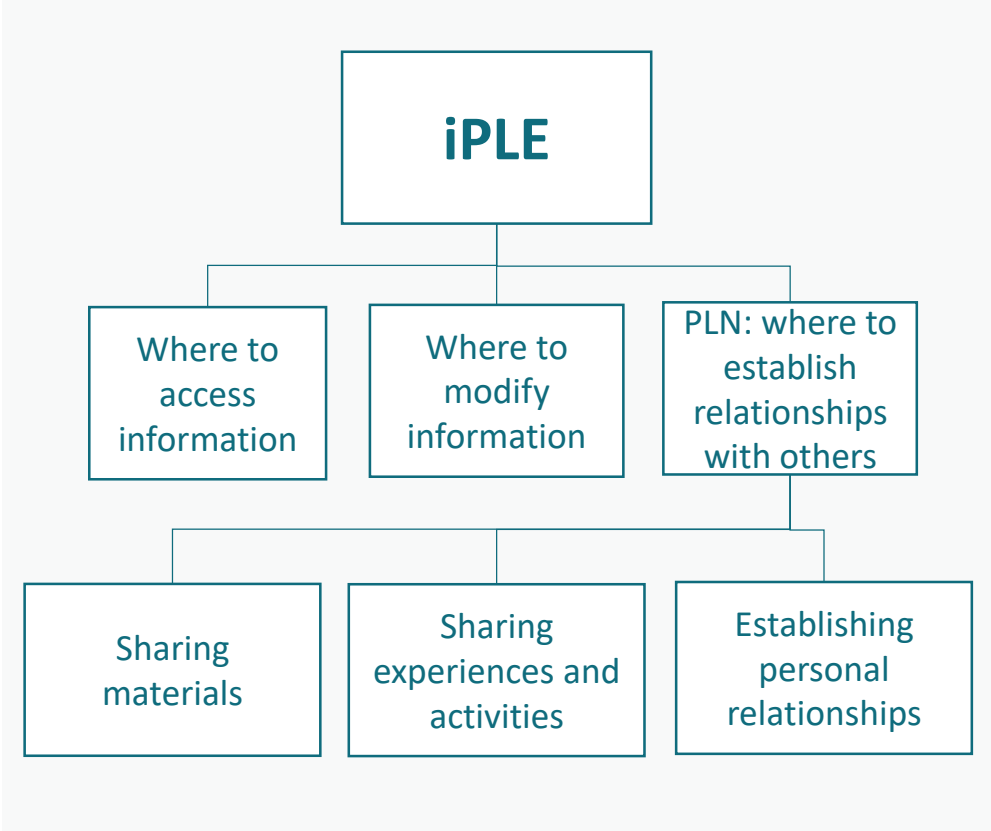
Well-defined methodology and **suitable material** about Personal Learning Environment.

Disseminate key ideas around the concept of PLE:

- Web tools and services.
- Sources and strategies of information management.

Expand, consolidate real experiences of non-formal and informal learning.

Collaborative work, building learning communities.



LEARNING: Resources Catalog

ikanos DigComp LABEL

Course: Advanced Excel for Dashboards		
A1C1	BROWSE, SEARCH	FOUNDATION A2
A1C3	STORE	INTERMEDIATE B2
A2C2	SHARE	INTERMEDIATE B2
A3C2	INTEGRATE CONTENT	ADVANCED C1
A3C4	PROGRAMMING	INTERMEDIATE B2

1

STAGE 1:

RESOURCE OBJECTIVES & ACTIVITES IDENTIFICATION

2

STAGE 2:

DigComp COMPETENCES INVOLVED

3

STAGE 3:

COMPETENCE LEVEL IDENTIFICATION

4

STAGE 4:

LABEL CREATION

EVIDENCES: BAIT Certification

Ikanos next steps

01. ikanos test 3.0

- Customized, variable weights,
- Objectives & training advice

02. ikanos label

- Catalogue training resources

03. Certification

- Recognition of BAIT certification in public sector

04. Benchmarking

- Digital competences results by sectors and countries

05. Shortcuts

- identifying training resources in companies

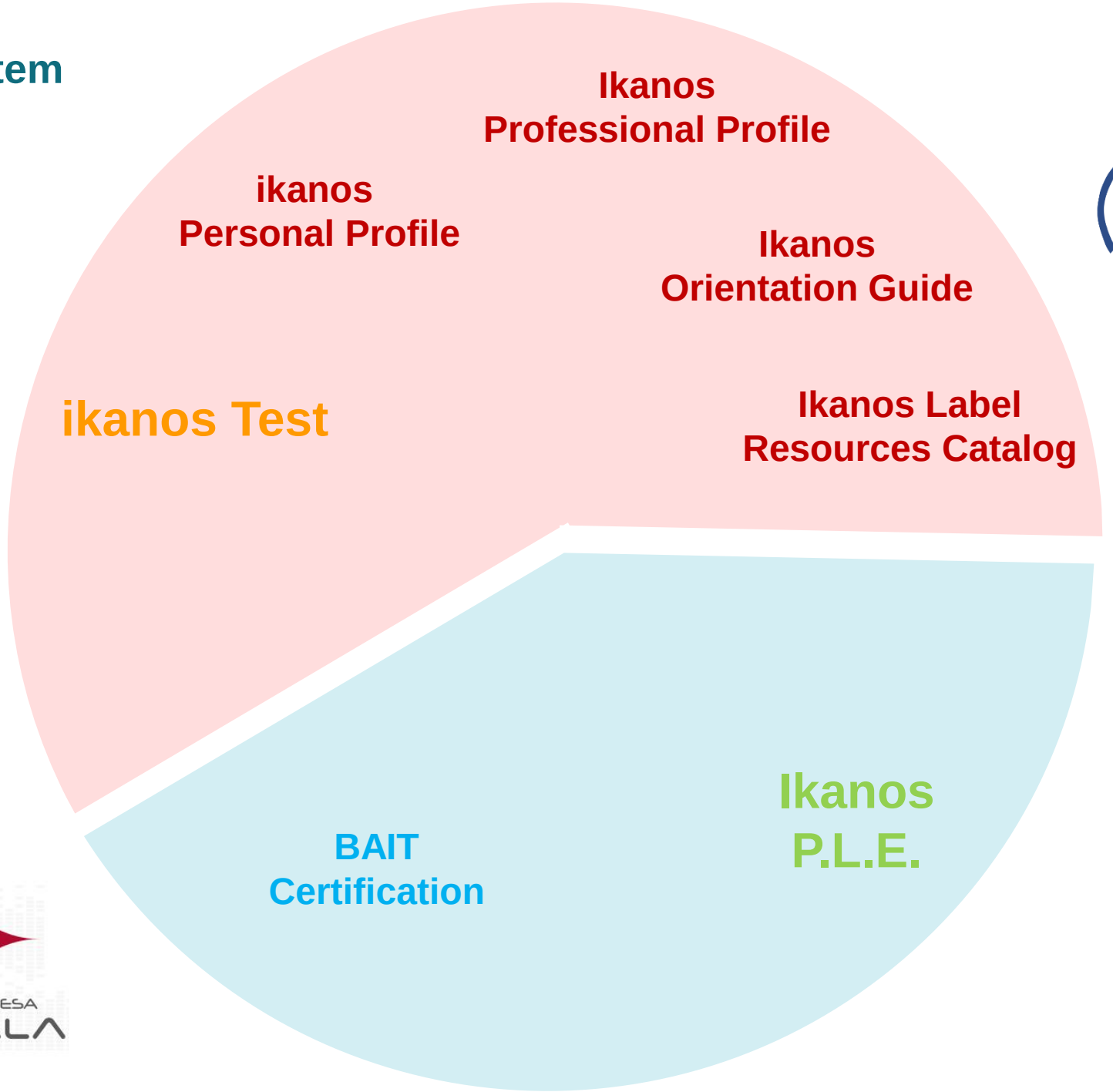
06. Training methods

- In-company training resources with DigComp perspective

07. High level competences

- Modelling digital competences that support high level competences

ikanos Ecosystem



European Commission
Digital Skills and Jobs Coalition

ikanos.eus

kzgunea

Joint Research Centre
JRC

spri
ENPRESA DIGITALA

LANBIDE HEZIKETA
Vocational Training

Thank you
eskerrik asko