

Towards a European network in Applied Plant Sciences, including quality label

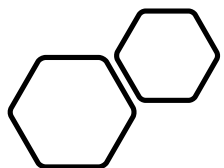
Rui Costa

ISEKI Food Association/Polytechnic Institute of Coimbra

JOB FAIR: JOB PERSPECTIVES IN APPLIED PLANT SCIENCES

23 August 2021, Alnarp, SLU





biography

RUI COSTA

- Coordinator of the MSc Food Engineering at the Polytechnic of Coimbra (Portugal)
- Research interests: bioconversion of food waste by insects, processing of legumes and seaweeds
- Expert on Quality Assurance in Higher Education and Vice-President of EASPA
- Co-founder of the ISEKI Food Association 2005 and actual Secretary General
- Coordinator of the Sector Skills Alliance EQVEGAN (www.eqvegan.eu)

Plant Sciences & European Networks

Since when they started to be spoken?

Google

"european network on applied plant sciences"

X | [Keyboard Icon] [Voice Search Icon] [Search Icon]

[Tudo](#) [Noticias](#) [Maps](#) [Imagens](#) [Compras](#) [Mais](#) Ferramentas

Cerca de 312 000 000 resultados (0,99 segundos)

Será que quis dizer: "european network **of** applied plant sciences"

Não foram encontrados resultados para "european network on applied plant sciences".

Google

"network on applied plant sciences"

X | [Keyboard Icon] [Voice Search Icon] [Search Icon]

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Cerca de 273 000 000 resultados (1,18 segundos)

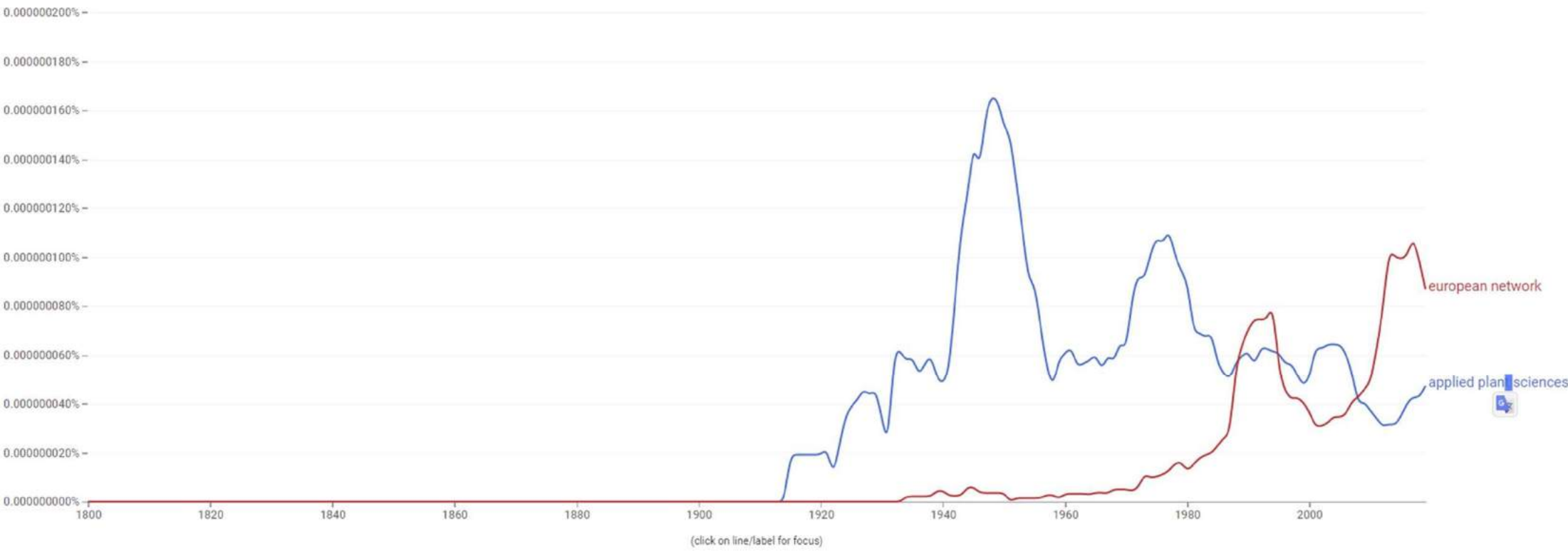
Será que quis dizer: "network **of** applied plant sciences"

Não foram encontrados resultados para "network on applied plant sciences".

Google Books Ngram Viewer

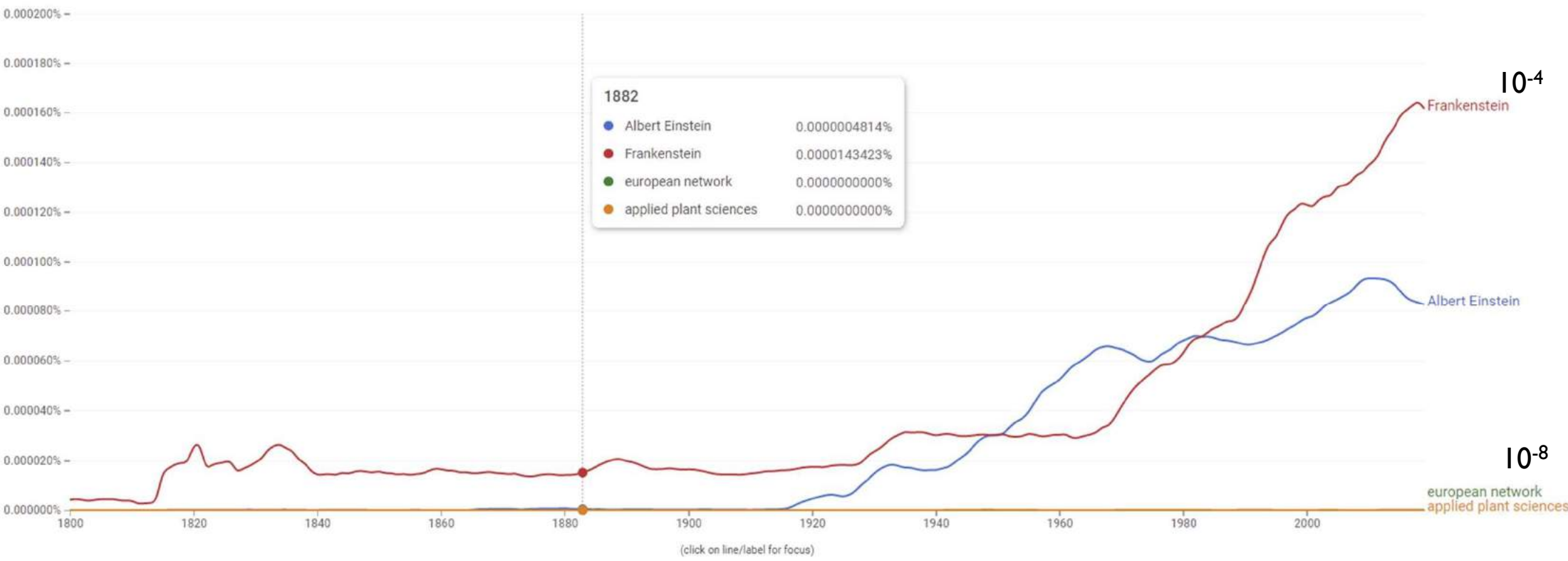
applied plant sciences,european network

1800 - 2019 English (2019) Case-Insensitive Smoothing



Albert Einstein, Frankenstein, european network, applied plant sciences

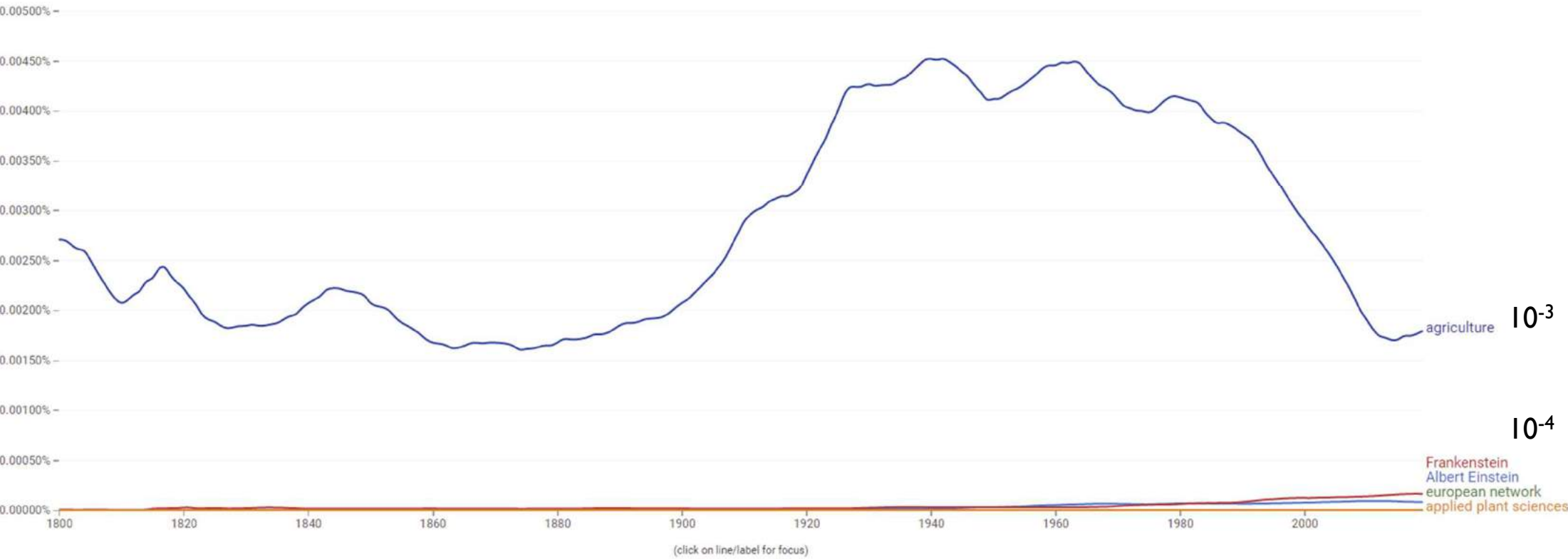
1800 - 2019 English (2019) Case-Insensitive Smoothing



Google Books Ngram Viewer

Albert Einstein,Frankenstein,european network,applied plant sciences,agriculture

1800 - 2019 English (2019) Case-Insensitive Smoothing





Plant Sciences

Which organizations exist?

Plant Science Organizations/Services



BSc and
MSc
degrees



Scientific
journals



Association
(research
oriented)

- European
Plant Science
Organisation



Company
of
fertilizers



Project
Escapade

STUDY
ELLS
WHERE



Euroleague
FOR LIFE SCIENCES

The Euroleague for Life Sciences (ELLS)

is a network of leading universities cooperating in the fields of

Natural Resource Management, Agricultural and Forestry Sciences, Life Sciences, Animal Sciences, Food Sciences, Environmental Sciences and Rural Development, incl. Agricultural Economics or Rural Sociology.



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The European Alliance

on Agricultural knowledge for Development



ESCAPAdE

Erasmus Curricula in Applied Plant Sciences



Why a (European) network ?

Image source: <https://www.endr.eu/newsletter/20161024-european-network-of-defence-related-regions>

Motivations to setup/join a network

Personal

- to get to know colleagues in other countries, to learn something new, or just break out of the usual work routine.

Professional

- wish to improve professional competences.

Institutional

- may raise the profile of the institution.

Political

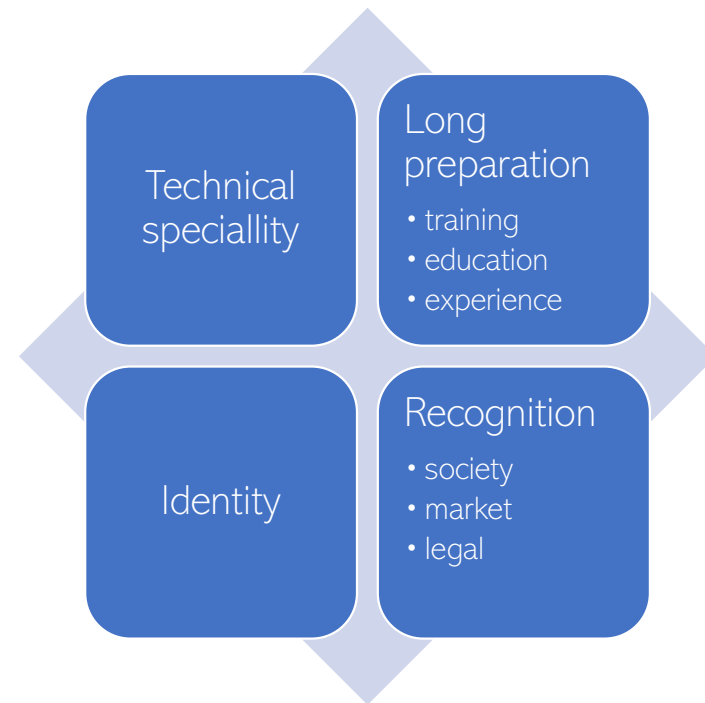
- desire to lobby on policies.

Benefits of joining networks

- Creating personal networks are not only helpful for individual problem solving, but also **compensate institutional deficits**.
- Promote the transfer of know-how and advances in decision-making and responsibility.
- It creates opportunities for work-field-related and inter-disciplinary cooperation and strengthens professional ties.
- The basis of a professional community.

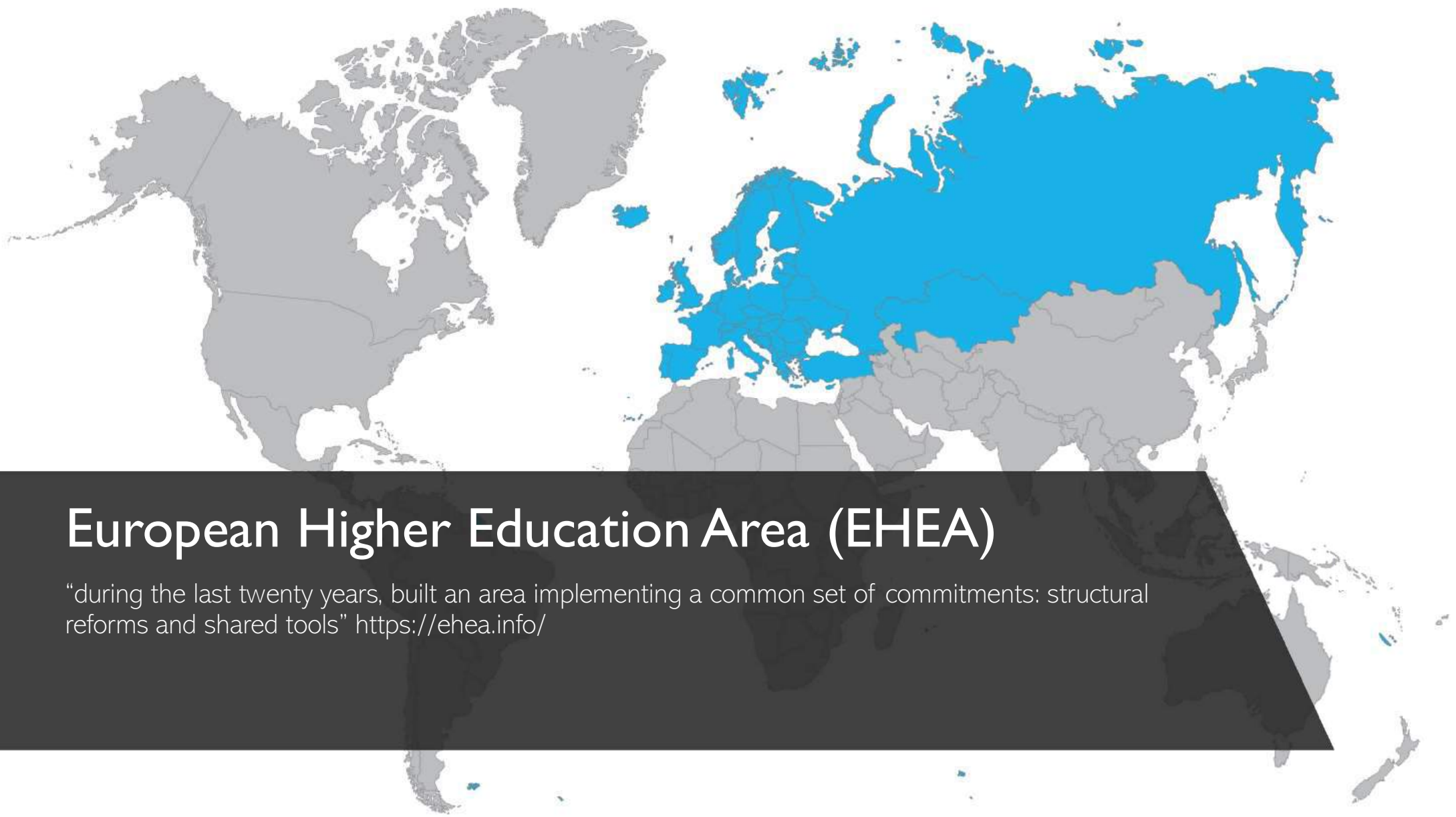


Profession





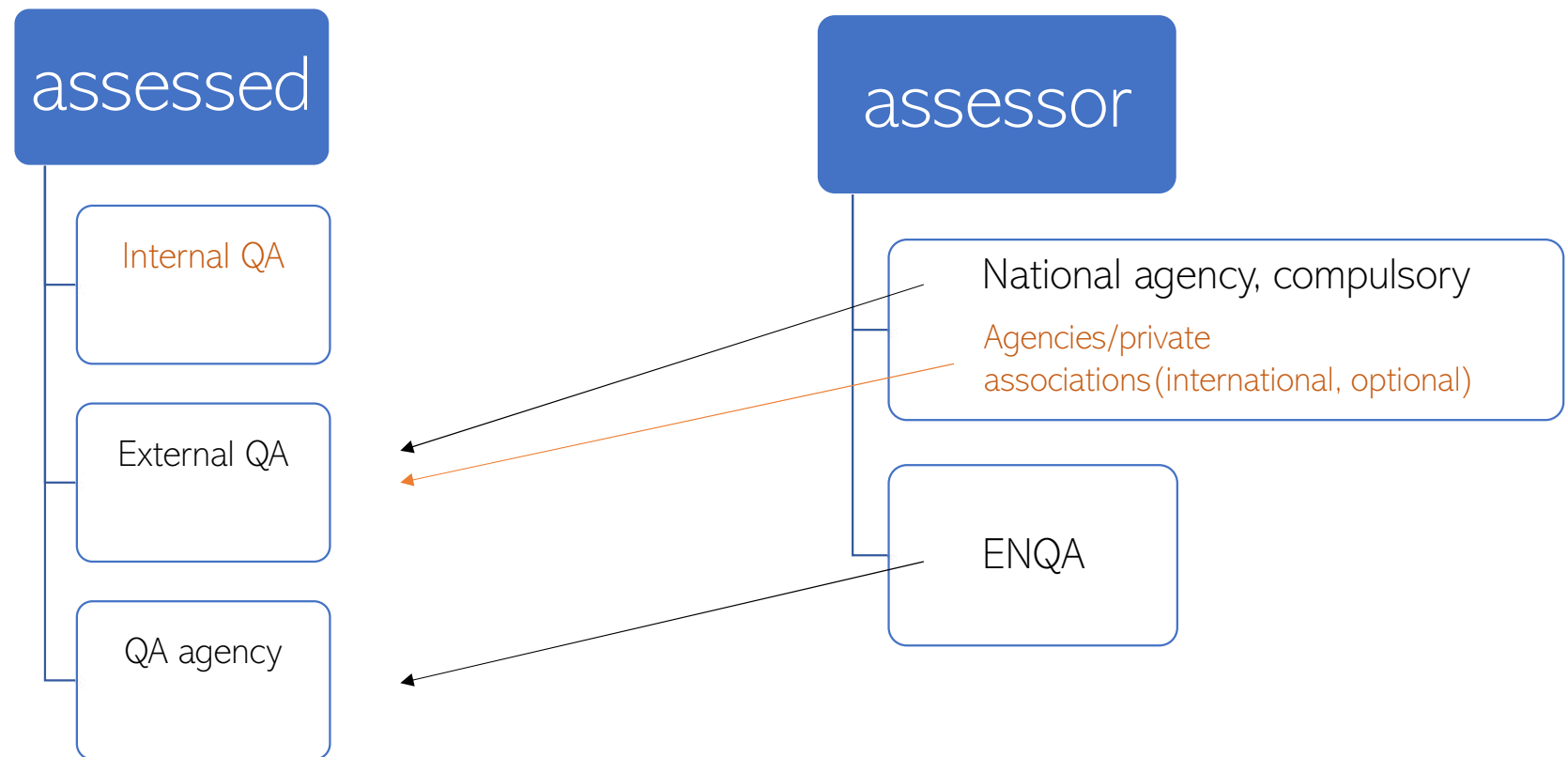
Quality Labels in Higher Education



European Higher Education Area (EHEA)

“during the last twenty years, built an area implementing a common set of commitments: structural reforms and shared tools” <https://ehea.info/>

Quality assurance



EQF vs EHEA descriptors

EQF levels	EHEAQF cycles	Common designation	EQF Descriptors	EHEAQF Descriptors
1			1. Knowledge 2. Skills 3. Responsibility and Autonomy	
2				
3				
4				
5	short			1. Knowledge and understanding
6	1 ST	BSc		2. Applying knowledge and understanding
7	2 ND	MSc		3. Making judgements
8	3 RD	PhD		4. Communication 5. Autonomous learning

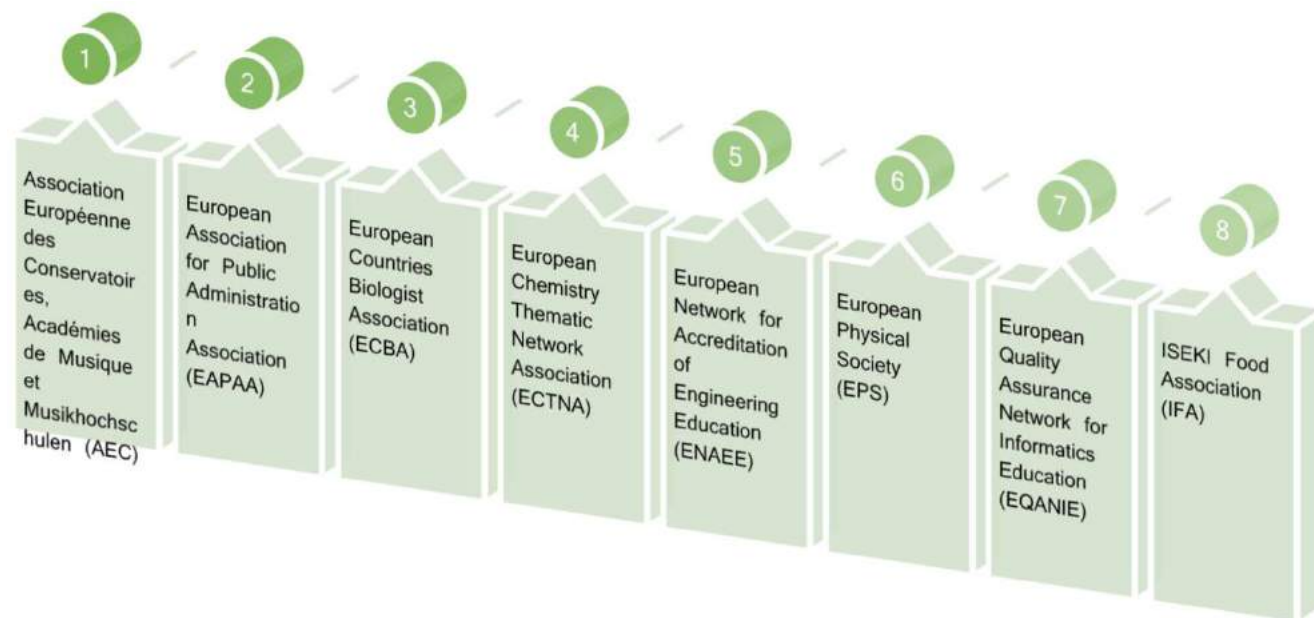
EQF vs EHEA descriptors

EQF levels	EHEAQF cycles	Common designation	EQF Descriptors	EHEAQF Descriptors	Subject specific Descriptors
1					
2					
3					
4					
5	short		1. Knowledge 2. Skills 3. Responsibility and Autonomy		QAPS
6	1 ST	BSc		1. Knowledge and understanding 2. Applying knowledge and understanding	
7	2 ND	MSc		3. Making judgements 4. Communication	
8	3 RD	PhD		5. Autonomous learning	

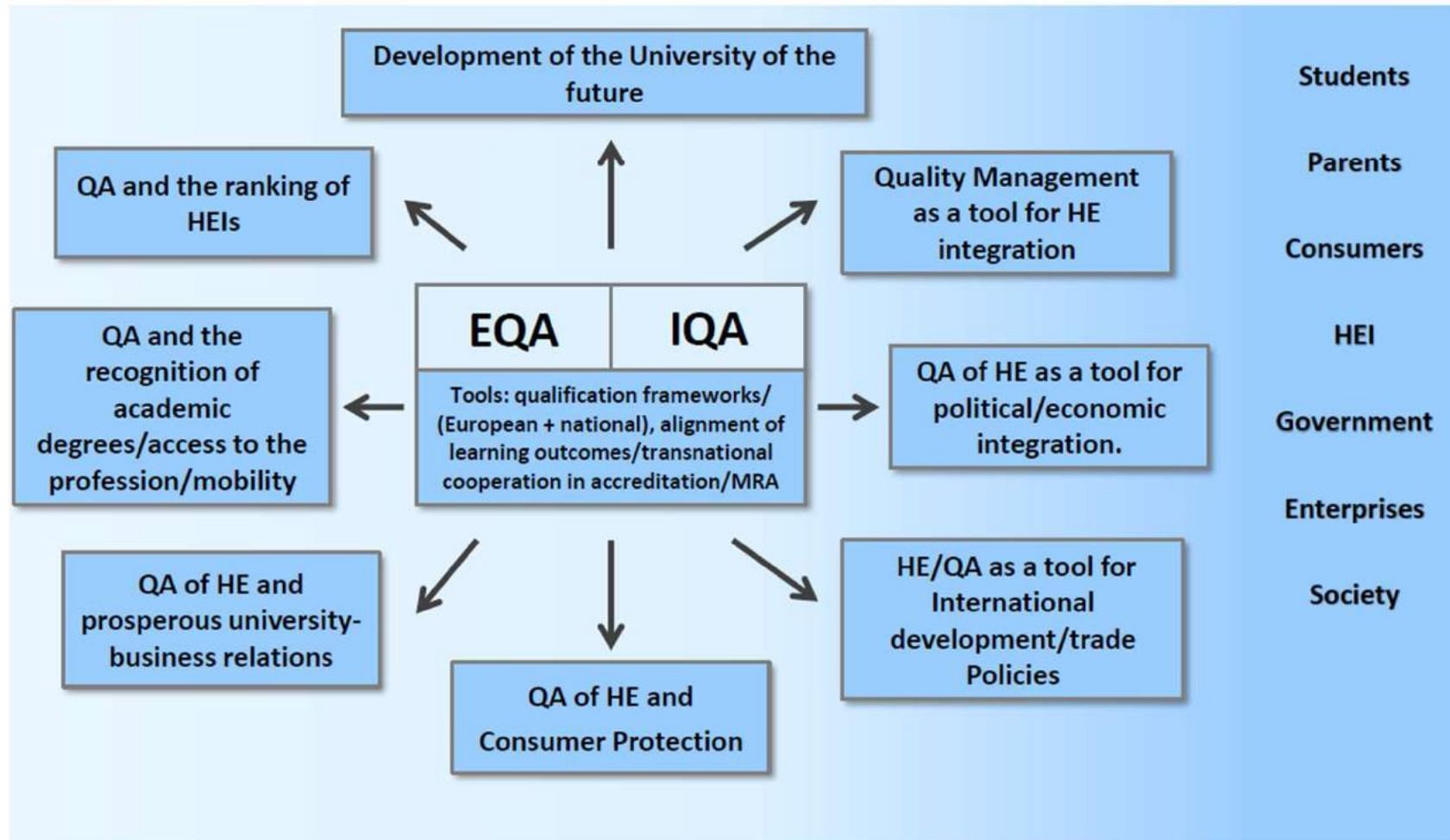


European Alliance for Subject-Specific
and Professional Accreditation & Quality Assurance

November 29, 2011



EASPA's contributions as family of professional accreditors in Higher Education



Why Professional Accreditation? EASPA's contributions to transparency, orientation and consumer protection

1. **Massification** of HE, general trend globally towards **diversification of both HE degrees and institutions (danger of degree mills)**, public knowledge/stakeholder knowledge about their quality is not sufficient within a country and across national borders.
 2. Degree and institutional diversity is matched by a great **variety of national quality assurance systems (danger of accreditation mills)**
 3. Reemerging challenges of a **growing private, non-regulated HE sector** and growth of trans-national education with a lack of regulatory codes.
 4. New forms of governance - Balance between HE autonomy and accountability in many countries fragile;
 5. **Academic Titles** in some instances no longer provide orientation; in some countries the academic degree constitutes the automatic admission ticket to the job market whereas in others additional prerequisites are demanded to acquire **professional status**
 6. **Marketizing and Globalization of Higher Education**
- **Professional QA/Accreditation is the key for transparency, mobility and recognition, consumer protection etc.**

Quality assurance of applied plant sciences (QAPS)



QAPS team



MSA

Dominique
This
Marie-
Stephane
Tixier

BOKU

Herman
Buerstmayr

UPM

Maria
Gomez

DUTH

George
Broufas,
Maria
Pappas

CULS

Zbynek
Polesny

SLU

Rodomiرو
Rios

UNIPVM

Laura
Nanni

Five domains

- Genetic resources and plant breeding
- Plant health
- Plant production
- Methodological skills
- Soft skills

QAPS

Genetic resources and plant breeding

(8 LO)



Illustrate the origin of plant and pest biodiversity in a broader evolutionary context, for conservation, management and utilization of genetic resources.

Explain the basics of Mendelian, quantitative and population genetics, and their applications in plant breeding.

Total of 8 learning outcomes

QAPS



Plant health:

9 LO

Plant production:

10 LO

QAPS Methodological skills (9 LO)



Identify

Identify issues and knowledge gaps related to agriculture, environment and food production and formulate a relevant research question/hypothesis.

Conduct

Conduct research in a suitable and secure manner, following appropriate techniques and protocols and registering all activities.

Establish

Establish links between plant science contributions and the goals for sustainable development.

QAPS Soft skills (10 LO)



Communi cate

Communicate knowledge through written and oral presentations at a scientific-technological level to an international audience.

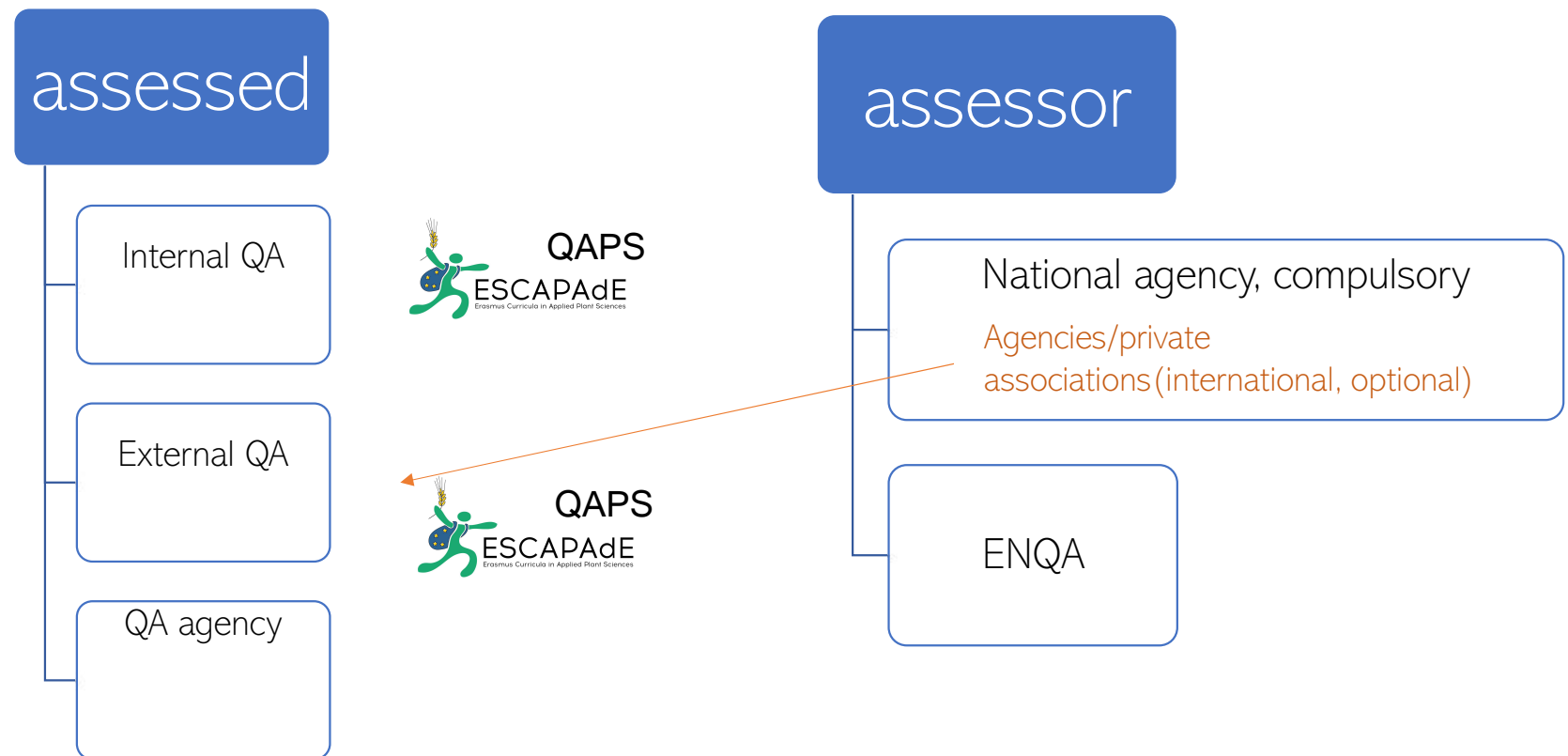
Discuss

Discuss ethical issues related to plant science, inter alia on GMOs, IPRs, biodiversity conservation, access and benefit sharing related to traditional knowledge or invasive species.

Build

Build a professional development plan and demonstrate job searching skills.

Quality assurance



The background of the slide is a close-up, high-contrast photograph of dark grey or black interlocking puzzle pieces. The lighting creates deep shadows in the recesses between the pieces, emphasizing their three-dimensional texture and the complex pattern they form.

Closing

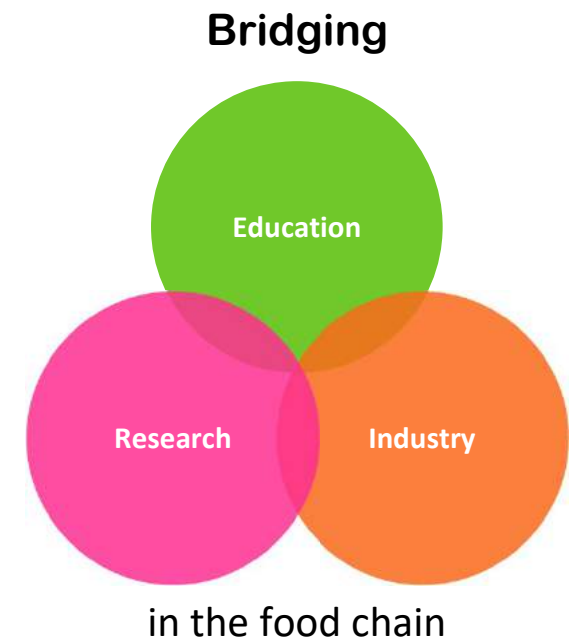
ISEKI-Food



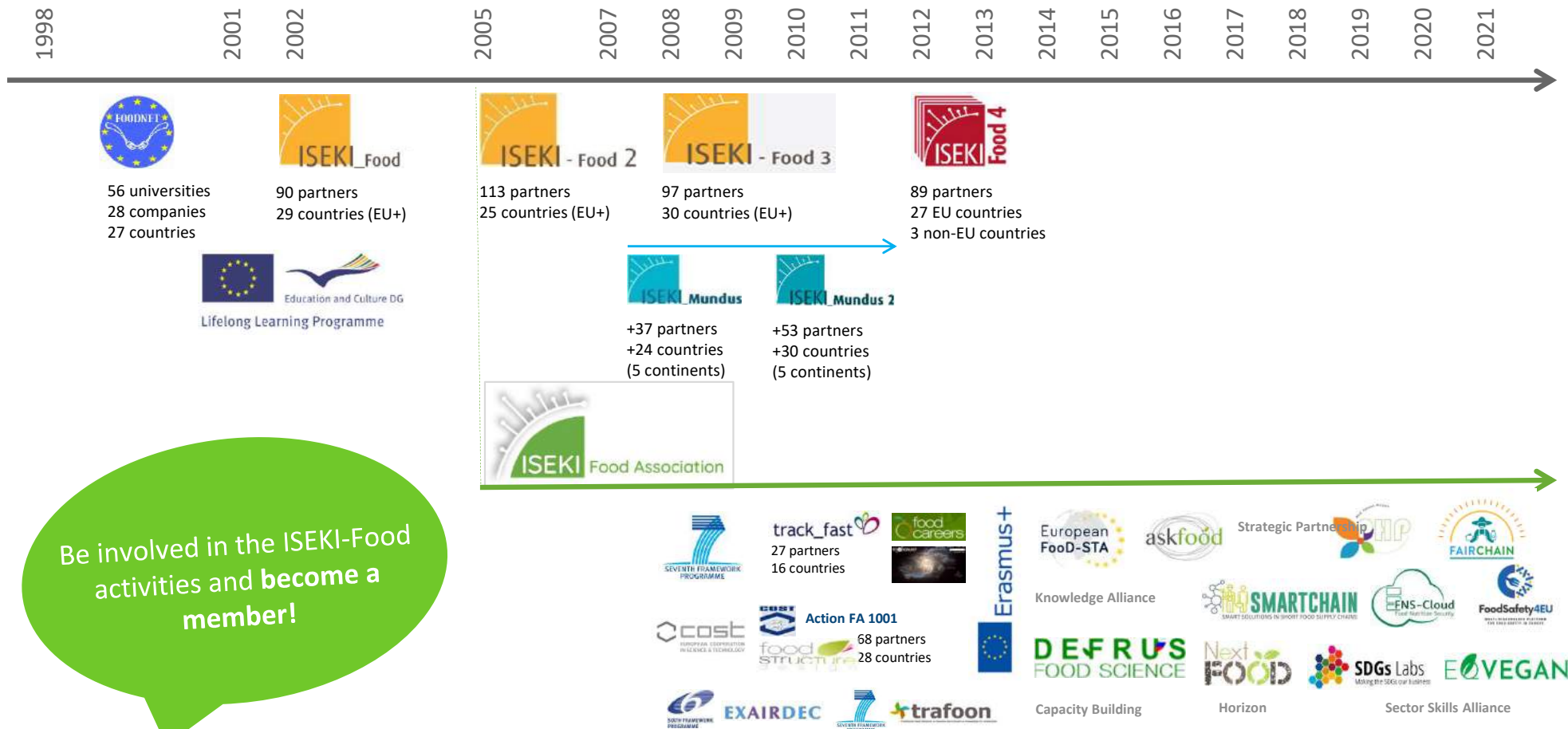
**Platform for
Teachers, students, trainers, food
professionals**

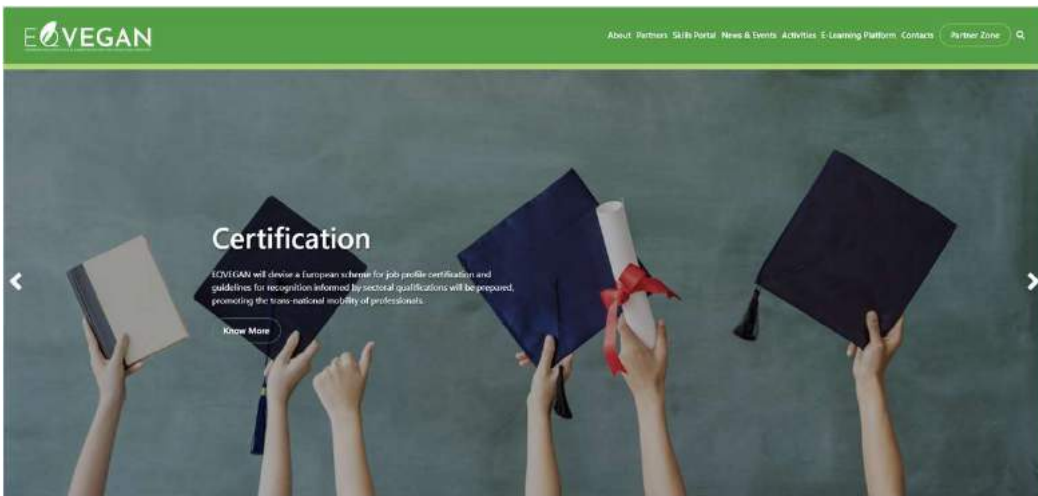
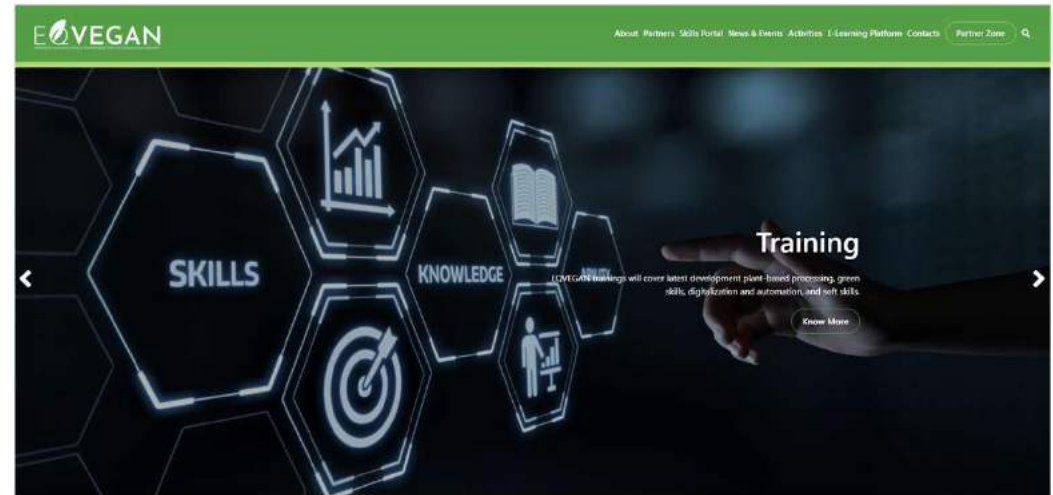


**Independent European
non-profit organisation**



Development of ISEKI-Food





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