

# **Entrepreneurship Education in Europe: A review of understandings and competence-based frameworks**



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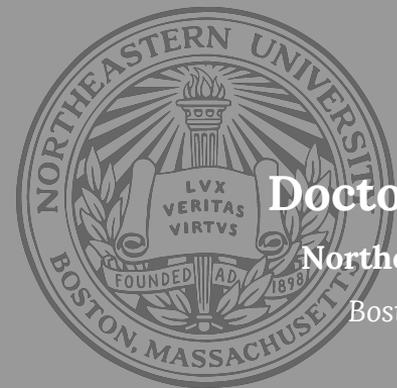
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## Overview

This presentation focuses on selected first cycle (bachelor level) frameworks for entrepreneurship education at European higher education institutions.

**The frameworks exist at the institutional, national, and European levels. This presented will be at the European level.**

### PERCEPTIONS & DEFINITIONS

What are the current working definitions and existing perceptions of entrepreneurship as a competence?

### FRAMEWORK

What is the most comprehensive existing framework to structure entrepreneurship education, and how does it compare to the Tuning's Generic Competences (EUIV)?

### RECOMMENDATIONS

What recommendations can be made through reviewing the aforementioned information?

### Q&A / GROUP DISCUSSION

What are further considerations needed to advance this analysis / for advocating for entrepreneurship education broadly?



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# Perceptions

Working existing perceptions and understandings of entrepreneurship



# Measuring & Comparing Achievements of Learning Outcomes in Higher Education in Europe (CALOHEE)

Are the following skills / competences 'trained' in the framework of the BACHELOR programmes ?

Are the following skills / competences 'trained' in the framework of the MASTER programmes ?

Abstract and analytical thinking

Ethical reasoning

Design and manage projects

**Entrepreneurship**

Oral communication

Problem solving

Learn-to-learn and stay up-to-date with learning

Critical and self-critical awareness

Planning and time management

Collect, select, process and analyse information

Teamwork

Leadership (taking responsibility)

Intercultural communication

Social responsibility and civic awareness

Generate new ideas (creativity)

Information and communication technologies

Other (e.g., communicate in a second language, commitment to health, well-being and safety)



# Measuring & Comparing Achievements of Learning Outcomes in Higher Education in Europe (CALOHEE)

## Civil Engineering

Total Responses: 16 (12 uni.)

Bachelor: 1

Master: 2

## Education & Teacher Training

Total Responses: 17

Bachelor: 2

Master: 6

## History

Total Responses: 24

Bachelor: 0

Master: 3

## Nursing

Total Responses: 17

Bachelor: 5

Master: 8

## Physics

Total Responses: 15

Bachelor: 1

Master: 2

***Why?***

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# Definitions

Working definitions and understandings of entrepreneurship



# The Two Sides of Entrepreneurship Education

## “Entrepreneurship”

Teaching and learning activities for the purposes of developing current and aspiring entrepreneurs.

## “Entrepreneurial”

Teaching and learning activities for the purposes of developing entrepreneurial abilities, thinking and approaches.

Entrepreneurship is an individual's ability to turn ideas into action. It includes creativity, innovation, risk taking, ability to plan and manage projects in order to achieve objectives.

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*Promoting entrepreneurship.* European Commission: Internal Market, Industry, Entrepreneurship, and SMEs. Retrieved from: [http://ec.europa.eu/growth/smes/promoting-entrepreneurship/index\\_en.htm](http://ec.europa.eu/growth/smes/promoting-entrepreneurship/index_en.htm)

*Sense of initiative and entrepreneurship* is the ability to turn ideas into action. It involves creativity, innovation and risk-taking, as well as the ability to plan and manage projects in order to achieve objectives. The individual is *aware of the context* of his/her work and is *able to seize opportunities* that arise. It is the *foundation for acquiring more specific skills and knowledge* needed by those establishing or contributing to social or commercial activity. This should include awareness of *awareness of ethical values and promote good governance*.

“

*Key competences for lifelong learning*. Recommendation 2006/962/EC of the European Parliament and of the Council of 18 December 2006 on key competences for lifelong learning [Official Journal L 394 of 30.12.2006]. Retrieved from: <http://eur-lex.europa.eu/legal-content/EN/TXT/HTML/?uri=URISERV:c11090&from=EN>

Entrepreneurship in Education is about **inspiring entrepreneurial potential**. People need the **mind-set**, skills and knowledge to generate creative ideas, and the entrepreneurial initiative to turn those ideas into action.

“

Entrepreneurship in education is about **developing a key competence**, supporting economic and social well-being. In particular, these are the **skills that employers say increases employability**.

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*Entrepreneurship in Education*. European Commission: Education and Training.  
Retrieved from: [http://ec.europa.eu/education/policy/strategic-framework/entrepreneurship\\_en.htm](http://ec.europa.eu/education/policy/strategic-framework/entrepreneurship_en.htm)

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# Framework

Dissecting a new framework to structure entrepreneurship competence

# TUNING

## Generic Competences

1. Ability to communicate in a second (foreign) language
2. Capacity to learn & stay up to date with learning
3. Ability to communicate both orally and through the written word in first language
4. Ability to be critical and self-critical
5. Ability to plan and manage time
6. Ability to act on the basis of ethical reasoning
7. Capacity to generate new ideas (creativity)
8. Ability to search for, process, and analyse information from a variety of sources
9. Ability to work autonomously
10. Ability to identify, pose, and resolve problems

11. Ability to apply knowledge in practical situations
12. Ability to make reasoned decisions
13. Ability to undertake research at an appropriate level
14. Ability to work in a team
15. Knowledge and understanding of the subject area and understanding of the profession
16. Ability to motivate people and move towards common goals
17. Commitment to conservation of the environment
18. Ability to communicate key information from one's discipline or field to non-experts
19. Ability for abstract and analytical thinking, and synthesis of ideas.
20. Ability to interact constructively with others regardless of background and culture and respecting diversity

21. Ability to design and manage projects
22. Ability to interact with others in a constructive manner, even when dealing with difficult issues
23. Ability to show awareness of equal opportunities and gender issues
24. Commitment to health, well-being and safety
25. Ability to take the initiative and to foster the spirit of entrepreneurship and intellectual curiosity
26. Ability to evaluate and maintain the quality of the work produced
27. Ability to use information and communications technologies
28. Commitment to tasks and responsibilities
29. Ability to adapt to and act in new situations and cope under pressure
30. Ability to act with social responsibility and civic awareness
31. Ability to work in an international context

# EntreComp Conceptual Model

Joint Research Centre, Science for Policy  
Bacigalupo, Kampylis, Punie, Van den Brande (2016)

## 1. IDEAS & OPPORTUNITIES

- 1.1 Spotting Opportunities
- 1.2 Creativity
- 1.3 Vision
- 1.4 Valuing Ideas
- 1.5 Ethical and Sustainable Thinking

## 2. RESOURCES

- 2.1 Self-Awareness and Self-Efficacy
- 2.2 Motivation and Perseverance
- 2.3 Mobilizing Resources
- 2.4 Financial and Economic Literacy
- 2.5 Mobilizing Others

## 3. INTO ACTION

- 3.1 Taking the Initiative
- 3.2 Planning and Management
- 3.3. Coping under Uncertainty, ambiguity and risk
- 3.4 Working with Others
- 3.5 Learning through Experience

# EntreComp

## Conceptual Model

Joint Research Centre, Science for Policy  
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### 1. IDEAS & OPPORTUNITIES

1.1 Spotting Opportunities

1.2 Creativity

1.3 Vision

1.4 Valuing Ideas

1.5 Ethical and Sustainable Thinking



### 1.1 Spotting Opportunities

- Use your imagination and abilities to identify opportunities for creating value
  - Tuning Generic Competences:
    - #2 - Capacity to learn and stay up to date with learning
    - #7 - Capacity to generate new ideas (creativity)
    - #25 - Ability to take the initiative and to foster the spirit of entrepreneurship and intellectual curiosity

# EntreComp

## Conceptual Model

Joint Research Centre, Science for Policy  
Bacigalupo, Kampylis, Punie, Van den Brande (2016)

### 1. IDEAS & OPPORTUNITIES

1.1 Spotting Opportunities

1.2 Creativity

1.3 Vision

1.4 Valuing Ideas

1.5 Ethical and Sustainable Thinking



### 1.3 Vision

- **Work towards your vision of the future**
  - **Tuning Generic Competences:**
    - #5 - Ability to plan and manage time
    - #9 - Ability to work autonomously
    - #11 - Ability to apply knowledge in practical situations
    - #21 - Ability to design and manage projects
    - #29 - Ability to adapt to adapt to and act in new situations

# EntreComp

## Conceptual Model

JRC Science for Policy  
Bacigalupo et al. (2016)

### 2. RESOURCES

2.1 Self-Awareness and  
Self-Efficacy

2.2 Motivation and  
Perseverance

2.3 Mobilizing Resources

2.4 Financial and  
Economic Literacy

2.5 Mobilizing Others

## 2.1 Self-Awareness & Self-Efficacy

- **Believe in yourself and keep developing**
  - **Tuning Generic Competences:**
    - #2 - Capacity to learn and stay up to date with learning
    - #4 - Ability to be critical and self-critical
    - #8 - Ability to search for, process and analyse information from a variety of different sources
    - #25 - Ability to take the initiative and to foster the spirit of entrepreneurship and intellectual curiosity
    - #29 - Ability to adapt and act in new situations and cope under pressure

# EntreComp

## Conceptual Model

# TUNING

## Generic Competences (EUIV)

EntreComp 3.2 Planning and Management = Tuning GC21. Ability to design and manage projects

EntreComp 2.5 Mobilizing Others = Tuning GC16. Ability to motivate people and move towards common goals

EntreComp 3.4 Working with Others = Tuning GC22. Ability to interact with others in a constructive manner, even when dealing with difficult issues

Tuning GC20. Ability to interact constructively with others regardless of background and culture and respecting diversity

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# Recommendations

Recommendations made from reviewing the current status of entrepreneurship education

Entrepreneurship is an individual's ability to turn ideas into action.

It includes creativity, innovation, risk taking, ability to plan and manage projects in order to achieve objectives.

- **Tuning GC25.** Ability to take the initiative and to foster the spirit of entrepreneurship and intellectual curiosity

- **Tuning GC7.** Capacity to generate new ideas (creativity)

- **Tuning GC12.** Ability to make reasoned decisions
- **Tuning GC21.** Ability to design and manage projects

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*Promoting entrepreneurship.* European Commission: Internal Market, Industry, Entrepreneurship, and SMEs. Retrieved from: [http://ec.europa.eu/growth/smes/promoting-entrepreneurship/index\\_en.htm](http://ec.europa.eu/growth/smes/promoting-entrepreneurship/index_en.htm)

**Sense of initiative and entrepreneurship** is the ability to turn ideas into action. It involves creativity, innovation and risk-taking, as well as the ability to plan and manage projects in order to achieve objectives. The individual is **aware of the context** of his/her work and is **able to seize opportunities** that arise. It is the **foundation for acquiring more specific skills and knowledge** needed by those establishing or contributing to social or commercial activity. This should include awareness of **awareness of ethical values and promote good governance**.

- **Tuning GC25.** Ability to take the initiative and to foster the spirit of entrepreneurship and intellectual curiosity

- **Tuning GC2.** Capacity to learn & stay up to date with learning
- **Tuning GC15.** Knowledge and understanding of the subject area and understanding of the profession

- **Tuning GC6.** Ability to act on the basis of ethical reasoning
- **Tuning GC30.** Ability to act with social responsibility and civic awareness
- **Tuning GC17.** Commitment to conservation of the environment

“

*Key competences for lifelong learning.* Recommendation 2006/962/EC of the European Parliament and of the Council of 18 December 2006 on key competences for lifelong learning [Official Journal L 394 of 30.12.2006]. Retrieved from: <http://eur-lex.europa.eu/legal-content/EN/TXT/HTML/?uri=URISERV:c11090&from=EN>

Entrepreneurship in Education is about **inspiring entrepreneurial potential**. People need the **mind-set**, skills and knowledge to generate creative ideas, and the entrepreneurial initiative to turn those ideas into action.

- **Tuning GC16.**  
Ability to motivate people and move towards common goals
- **Tuning GC25.**  
Ability to take the initiative and to foster the spirit of entrepreneurship and intellectual curiosity

- **Tuning GC4.**  
Ability to be critical and self-critical
- **Tuning GC10.**  
Ability to identify, pose, and resolve problems
- **Tuning GC19.**  
Ability for abstract and analytical thinking, and synthesis of ideas.

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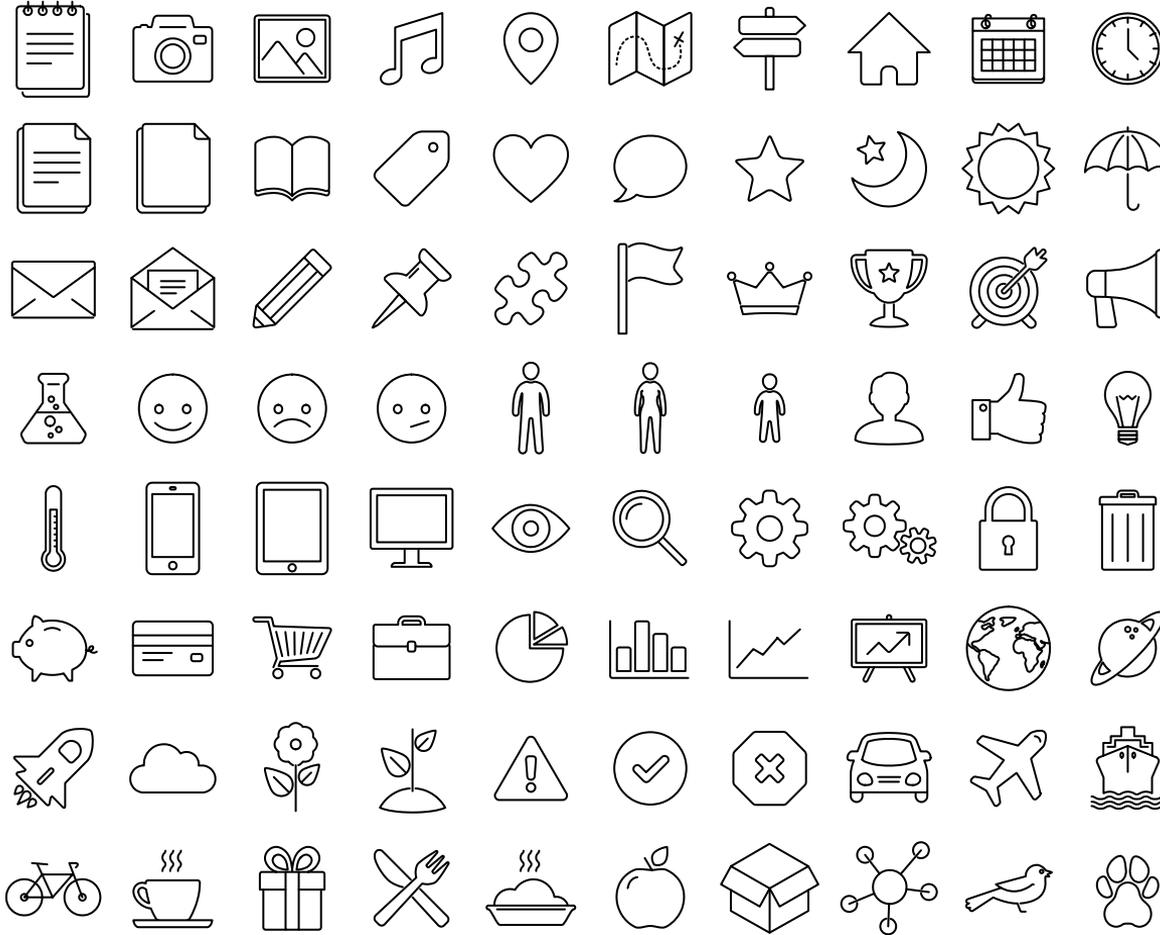
## Entrepreneurial Mindset

- A framework of **attitudes, motivations, knowledge, orientations, and traits**.
- An “ability to **rapidly sense, act, and mobilize**, even under **uncertain conditions**” (Ireland et al., 2003).
- An “ability to be **dynamic, flexible, and self-regulating** in one's cognitions given dynamic and uncertain task environments” (Haynie et al., 2008).

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## Q&A

Participant questions and group discussion



# Questions?

For those of you here for the **live version**, please feel free to present any questions you might have.

For those of you watching this as a **recorded broadcast**, please feel free to contact me with your questions via my website or social media:

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# Thank you!



Please feel free to contact me:

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