EIT Food Education – Learning Services

Competency Framework

We equip the brightest minds all over Europe and beyond, with skills and knowledge to create a sustainable food system

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Co-funded by the European Union

Competency Framework

Underpinning capabilities — **Technical capabilities** — **Thinking activities** — **Influencing activities** — **Performing activities** — **Entrepreneurship** — **Sustainability**

FOOD SYSTEMS

The ability to analyse the food system, appraise current and future sustainability challenges, and develop appropriate responses using systems approaches.

ENTREPRENEURSHIP

The ability to recognise, develop and act on entrepreneurial opportunities in a range of organisational settings, and to play an effective role in new venture formation and growth.

DATA MANAGEMENT

The ability to develop and use digital tools with the purpose of accessing, managing, analysing and interpreting data.

PROBLEM SOLVING

The ability to analyse and understand the problem space, generate new ideas, assess their validity, and co-create solutions.

TECHNOLOGY MANAGEMENT

The ability to use emerging technologies in (radical or breakthrough) innovation processes.

CRITICAL THINKING

The ability to assess facts and evidence to drive decision-making, including constructive questioning of the status quo.

COMMUNICATION

The ability to drive interpersonal communication, and to translate complex ideas for different audiences.

LEADERSHIP

The ability to be an effective leader, and to mobilise resources efficiently to accomplish a goal based on responsible management practice.

(Central wheel labels: ENTREPRENEURSHIP, SUSTAINABILITY, UNDERPINNING CAPABILITIES, THINKING ACTIVITIES, INFLUENCING ACTIVITIES, TECHNICAL CAPABILITIES, PERFORMING ACTIVITIES)

EXPLORE
EXPLORE
Lay the foundations in contributing to the sector.

PRACTICE
PRACTICE
Turn ideas into actions to the benefit of your field of influence.

MASTER
MASTER
Deliver impact within your field of influence and the sector.

INSPIRE
INSPIRE
Transform the system and have an influence that goes beyond your field and the wider sector.

Competency Framework

Sustainability

- **SUSTAINABILITY** is at the core of all competencies. It includes creating healthier lives through food, achieving a net zero food system (including the prevention of biodiversity loss), and creating a fully transparent, fair, inclusive and resilient food supply. All competencies are oriented towards these aims to contribute to food system transformation.

Underpinning capabilities

- **UNDERPINNING CAPABILITIES** is a group of essential transversal competencies that form the foundation for effective action. They can be used in a wide range of settings to drive change in context-specific ways.

Technical capabilities

- **TECHNICAL CAPABILITIES** is a group of key technical competencies that advance readily available skillsets and know-how to accelerate sustainability transitions.

Entrepreneurship

- **ENTREPRENEURSHIP** is the engine for achieving change. It comprises a mindset and key skills to envision, create and implement innovative solutions to challenges in a wide range of contexts including in ventures, industry, academia, policy and NGOs.

Thinking activities

- **THINKING ACTIVITIES** are conceptual and analytical in nature. They support actions that generate and appraise solutions, and challenge established systems and routines.

Influencing activities

- **INFLUENCING ACTIVITIES** are about working with and through others to achieve impact. They support actions that foster collaborations, and engage stakeholders in an honest dialogue.

Performing activities

- **PERFORMING ACTIVITIES** are about technical expertise. They support actions that combine systems approaches with a range of novel technologies to perform food systems transformation.

8 Core Competencies

ENTREPRENEURSHIP

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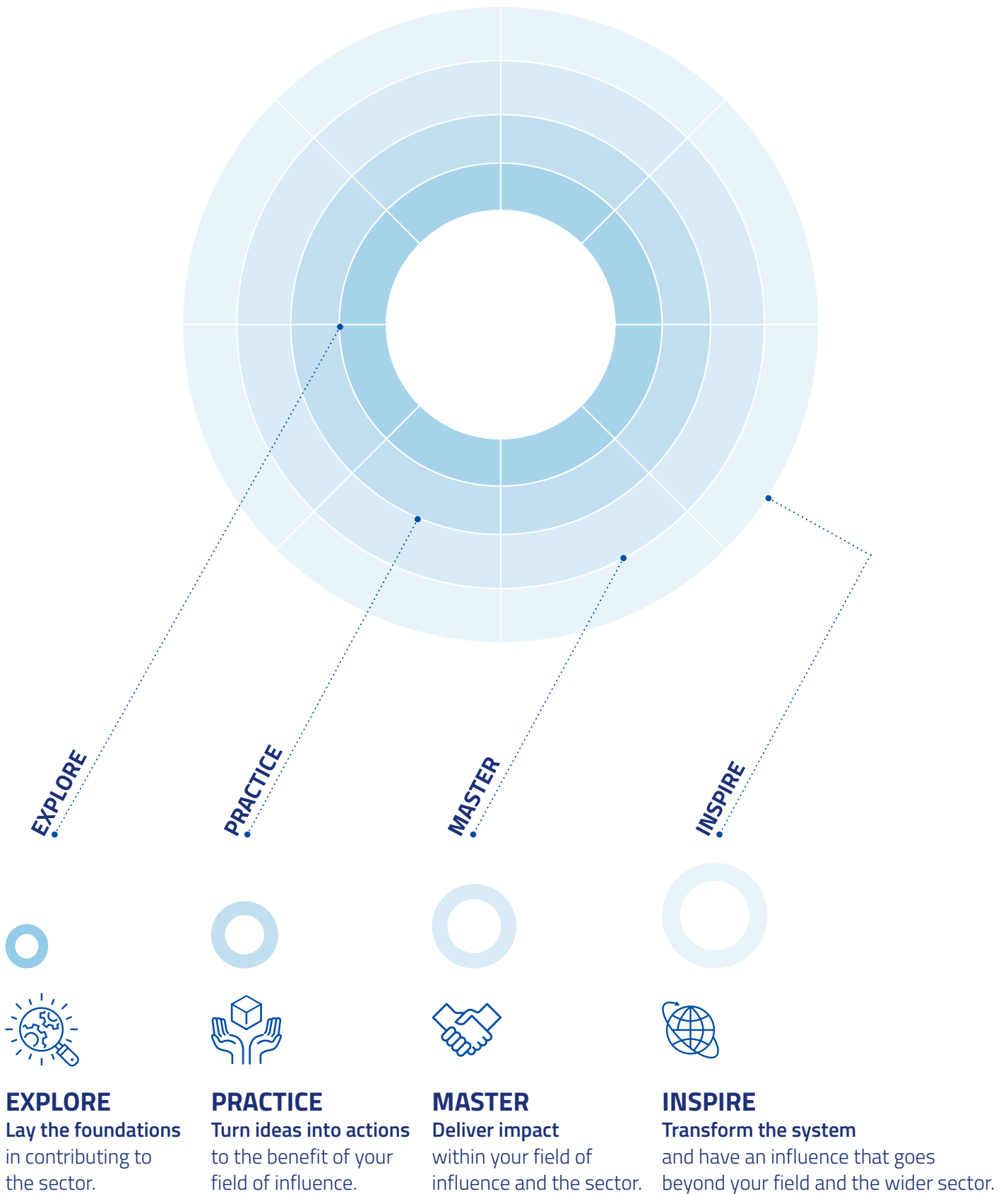
LEADERSHIP

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FOOD SYSTEMS

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4 Levels per Competency

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Learning Outcomes per Competency Level

FOOD SYSTEMS | **DATA MANAGEMENT** | **TECHNOLOGY MANAGEMENT** | **ENTREPRENEURSHIP** | **PROBLEM SOLVING** | **CRITICAL THINKING** | **LEADERSHIP** | **COMMUNICATION**

EXPLORE
Lay the foundations in contributing to the sector.

FOOD SYSTEMS	DATA MANAGEMENT	TECHNOLOGY MANAGEMENT	ENTREPRENEURSHIP	PROBLEM SOLVING	CRITICAL THINKING	LEADERSHIP	COMMUNICATION
Apply basic systems analysis techniques to describe the food system. **Identify dominant sustainability challenges** for the food system. **Recognise how innovations can contribute** to achieving societal impact.	**Implement effective data management protocols.** **Recognise the importance** of data security measures. **Identify** key unintended consequences of the use of information technologies.	**Competently use** appropriate technologies to contribute to food system innovations. **Appraise the relevance** of emerging technologies in a particular work or study context. **Identify** key unintended consequences of the use of emerging technologies. **Recognise the importance** of IPR management.	**Appraise and articulate** the value of opportunities. **Identify and use** relevant resources to support the creation of social and environmental value. **Implement** effective actions to support the creation of sustainability impacts.	**Analyse relevant aspects** of the problem space to inform creative thought. **Use basic methods** to generate new ideas and to assess their validity. **Contribute** to co-creation processes to develop sustainable solutions.	**Collect, analyse and report** information and data to support the generation of new ideas and approaches. **Recognise the importance** of ethical goals.	**Implement** a food system innovation project in a particular work or study context. **Demonstrate ownership** of project goals.	**Identify relevant stakeholders** and their prominent concerns. **Recognise the importance** of inclusive dialogue in food systems transformation. **Implement** basic communication methods.

PRACTICE
Turn ideas into actions to the benefit of your field of influence.

FOOD SYSTEMS	DATA MANAGEMENT	TECHNOLOGY MANAGEMENT	ENTREPRENEURSHIP	PROBLEM SOLVING	CRITICAL THINKING	LEADERSHIP	COMMUNICATION
Analyse the food system using a range of systems approaches to appraise current and future sustainability challenges. **Implement innovative responses** to address sustainability challenges in the food system.	**Appraise the efficacy of different digital tools** and sensing methods to acquire, manage and manipulate data. **Devise** effective data management protocols. **Design** effective actions to mitigate key unintended consequences of the use of information technologies. **Implement** adequate data security measures.	**Mobilise** appropriate technologies in innovation processes **Design** effective actions to mitigate key unintended consequences of the use of emerging technologies. **Contribute** to the development of new technologies for food system transformation. **Manage** IPRs.	**Create opportunities** for social and environmental value creation. **Mobilise** resources to create sustainable value for others. **Design and implement** effective actions to deliver impact.	**Appraise the problem space** to identify current and future needs. **Mobilise** effective methodologies to generate new ideas. **Appraise the validity of new ideas** and co-create sustainable solutions.	**Collect, analyse, interpret and report** information to develop sustainable solutions to current and future challenges. **Appraise unintended consequences** of any course of action to devise ethical goals.	**Appraise different strategies** to deliver a food system innovation. **Demonstrate leadership** towards the implementation of a food system innovation.	**Devise effective communication methods** that support organisational strategies. **Engage in honest and inclusive two-way communication** with stakeholders about their concerns. **Adjust messaging** for different audiences.

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MASTER
Deliver impact within your field of influence and the sector.

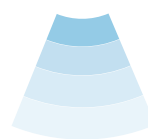| FOOD SYSTEMS	DATA MANAGEMENT	TECHNOLOGY MANAGEMENT	ENTREPRENEURSHIP	PROBLEM SOLVING	CRITICAL THINKING	LEADERSHIP	COMMUNICATION
Develop strategies to address current and future challenges using systems approaches. **Design innovative responses** to address sustainability challenges in the food system.	**Develop strategies** for data acquisition, analysis and manipulation. **Develop and lead the implementation** of robust data security measures. **Develop strategies** to mitigate key unintended consequences of the use of information technologies.	**Develop strategies** to mobilise and manage technologies in innovation processes. **Develop and lead the implementation** of new technologies. **Develop strategies** to mitigate key unintended consequences of the use of emerging technologies. **Devise** adequate IPR management strategies.	**Create opportunities** for systemic social and environmental value creation. **Devise strategies** to mobilise and leverage resources to create sustainable value. **Design effective actions** to scale societal impact.	**Critically appraise** the problem space to analyse the strategic implications of future choices. **Mobilise effective co-creation methodologies** to generate original and sustainable solutions that include relevant voices.	**Critically analyse, interpret and report** data and information to inform ethical decision making. **Challenge existing practices** and knowledge to develop sustainable alternatives.	**Influence, persuade and challenge others** to transform the food system through innovation and entrepreneurship. **Translate a vision** for strategic change into a food system innovation.	**Identify, engage with and respond honestly** to stakeholder needs. **Develop strategies** to deliver effective inclusive communications approaches. **Translate complex ideas** for different audiences.

INSPIRE
Transform the system and have an influence that goes beyond your field and the wider sector.

FOOD SYSTEMS	DATA MANAGEMENT	TECHNOLOGY MANAGEMENT	ENTREPRENEURSHIP	PROBLEM SOLVING	CRITICAL THINKING	LEADERSHIP	COMMUNICATION
Champion systems approaches to appraise current and future challenges to the food system. **Educate and support others** to develop innovative responses to address sustainability challenges.	**Educate and support others** to use digital tools to support innovations in the food system. **Champion robust data security systems.** **Educate and challenge others** to appraise and mitigate unintended consequences of technology use.	**Educate and support others** to use emerging technologies in *(radical or breakthrough)* innovation processes. **Challenge others** to apply technologies to, or draw from, different problem spaces. **Educate and challenge others** to appraise and mitigate unintended consequences of technology use.	**Guide others** on their entrepreneurial journey to achieve sustainability goals. **Champion relevant insights** into entrepreneurial mindset and practice. **Contribute** to sustainability-oriented entrepreneurial ecosystems.	**Educate and support others** to generate original and sustainable solutions to address food system challenges. **Champion effective co-creation methodologies** to include a range of relevant voices in the generation of solutions.	**Educate and support others** to critically analyse existing practices to develop sustainable alternatives. **Challenge others** to base their decision making on an ethical and sustainable basis.	**Educate, influence, persuade and challenge others** to lead and promote food system transformation. **Create** a vision for strategic change of the food system.	**Champion** effective inclusive stakeholder management. **Demonstrate effective inclusive thought leadership** in and beyond the food system domain.

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