

<b>ENHANCERIA</b>	Work package	WP2 Exploration, Identification and Mapping of Different Practices and Approaches
	Deliverable	D2.6 First Version of a Glossary of the Terminology used in the Different Universities within the Focus Areas
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## D2.6 First Version of a Glossary of the Terminology used in the Different Universities within the Focus Areas

### //INTRODUCTION

During the mapping activities in the four Focus Areas of ENHANCERIA (FA1: Sustainable development through transdisciplinary research; FA2: Sustainable entrepreneurship and innovation ecosystems; FA3: Human Resources and career development, and FA4: Research Infrastructures), a broad and diverse terminology was used that highlighted the different understanding of similar concepts. These concepts need to be identified and definitions for a common understanding need to be agreed upon. The identification of terms was performed in the tasks related to the following deliverables:

- D2.1 Sample of institutional supporting structures (top-down strategies), including models, methods and formats that support transdisciplinary research, citizen involvement and knowledge exchange between science and society
- D2.2 Sample of transdisciplinary practices and case studies that support transdisciplinary research, citizen involvement and knowledge exchange between science and society
- D2.3 Preliminary systematic sample of SEI initiatives from the institutions
- D2.4 Report on current state of the practice on HR
- D2.5 Report on mapping activities and main findings on RI portfolio within the Alliance

This document contains a **preliminary glossary** for each focus area mentioned above that will facilitate subsequent analysis of different cultural and institutional settings and conceptualisations. We find, therefore, as tools for a common understanding during the sampling process:

D2.6.1. Glossary of Transdisciplinarity (FA1)

D2.6.2. Glossary to discuss Sustainable Entrepreneurship and Innovation (FA2)

D2.6.3. Glossary to Human Resources and Career Development (FA3)

D2.6.4. Glossary for Research Infrastructures (FA4)

### //D2.6.1. GLOSSARY FROM FOCUS AREA 1 AND WORK PACKAGE 3 (TRANSDISCIPLINARITY)

There are a variety of neighbouring terms related to transdisciplinarity, participatory research, collaboration, co-production, and co-design. The mapping of institutional strategies and of different practices reveals multiple ways of understanding and practicing transdisciplinarity as a at ENHANCE universities, according to the different orientations of existing research cultures and different university governance structures.

The methods and tools used to catalogue the different concepts are described in deliverable **D3.1**. The initial task of elaborating a glossary with key terminology around Transdisciplinarity evolved in the design of a **living document** where not only a definition of concepts and terms, but the relationships among them, and the evolution of the conceptions could be traced.

The concepts and definitions used by researchers and practitioners were mapped in a Miro board that was the base of discussion around taxonomies and keywords.

The decision of working with a dynamic growing document, as a mind map for an enhanced glossary, was taken as a result of the last WP3 workshop due to the following reasons:

- The issue and approaches of transdisciplinarity for sustainable development are covered by several approaches and, therefore, by different key terms. The visualisation in a mind map helps to clarify the widespread understanding and use of these terms.
- The mind map of key terms provides different channels for linking keywords, showing relationships and additional information and representing sub-categories. In this mind map, various keywords are mapped together to show their connection to each other. For example, co-design, co-production, and co-creation are different forms of collaboration and are, therefore, placed together in the collaboration sub-category. Each sub-category consists of various keywords that are related in some way.

The following link provides access to view the Miroboard:

[https://miro.com/app/board/uXjVORXvOCE=/?share\\_link\\_id=241131216076](https://miro.com/app/board/uXjVORXvOCE=/?share_link_id=241131216076)

In this living document, each sub-category consists of (1) various concepts with definitions and (2) a literature list to show which sources are used to define the key terms. Furthermore, various lines connect the sub-categories and also connect several concepts. These lines show the connection between the different parts of the glossary.

This document will be used and further developed during the subsequent activities in ENHANCERIA.

The following figures show how this living document or mind map is constructed:

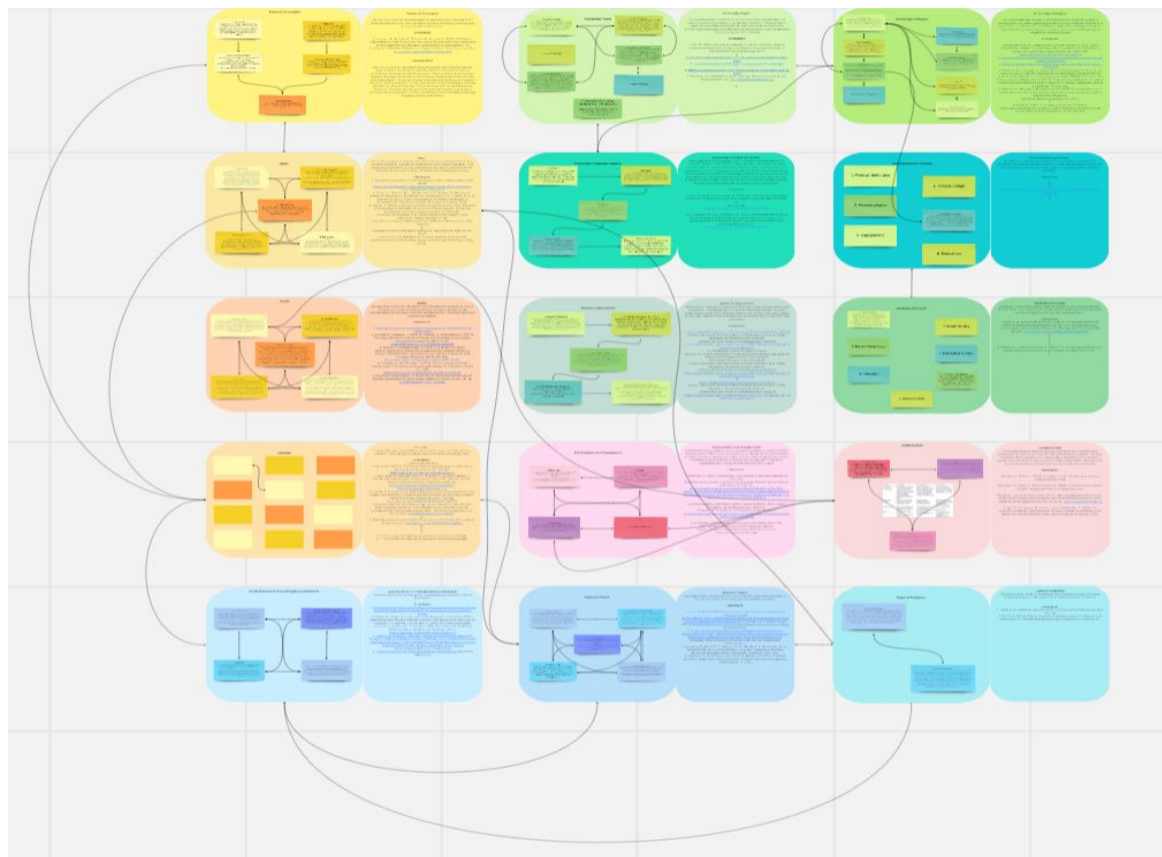


Figure 1. Overview of the whole mind map.

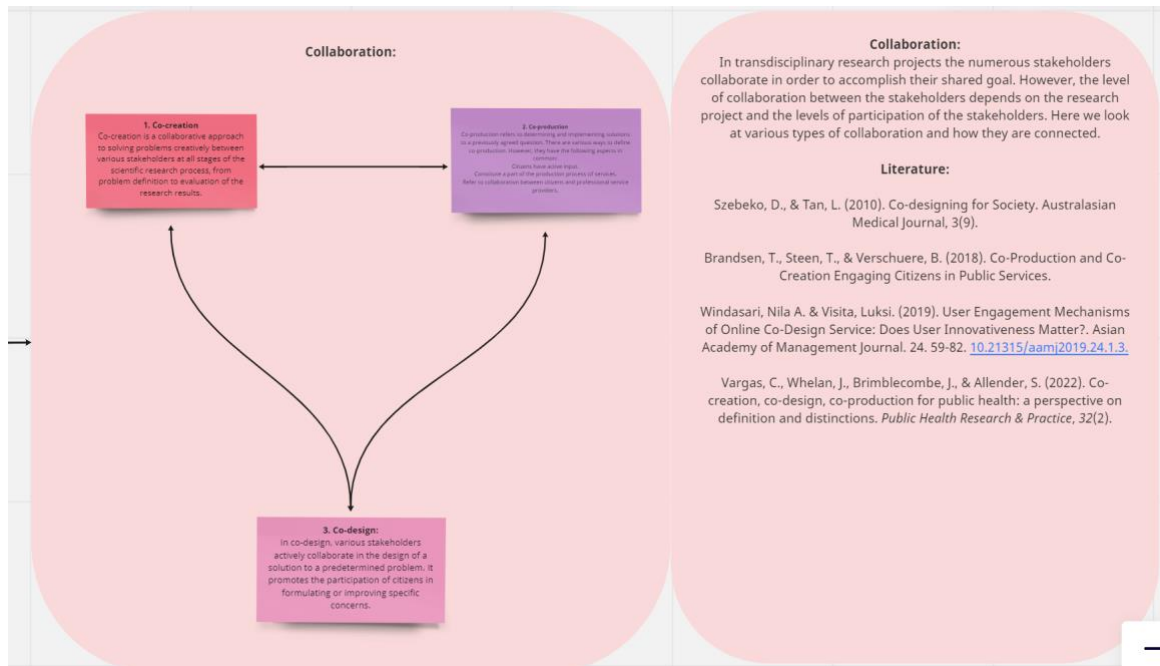


Figure 2. The Sub-Category of Collaboration

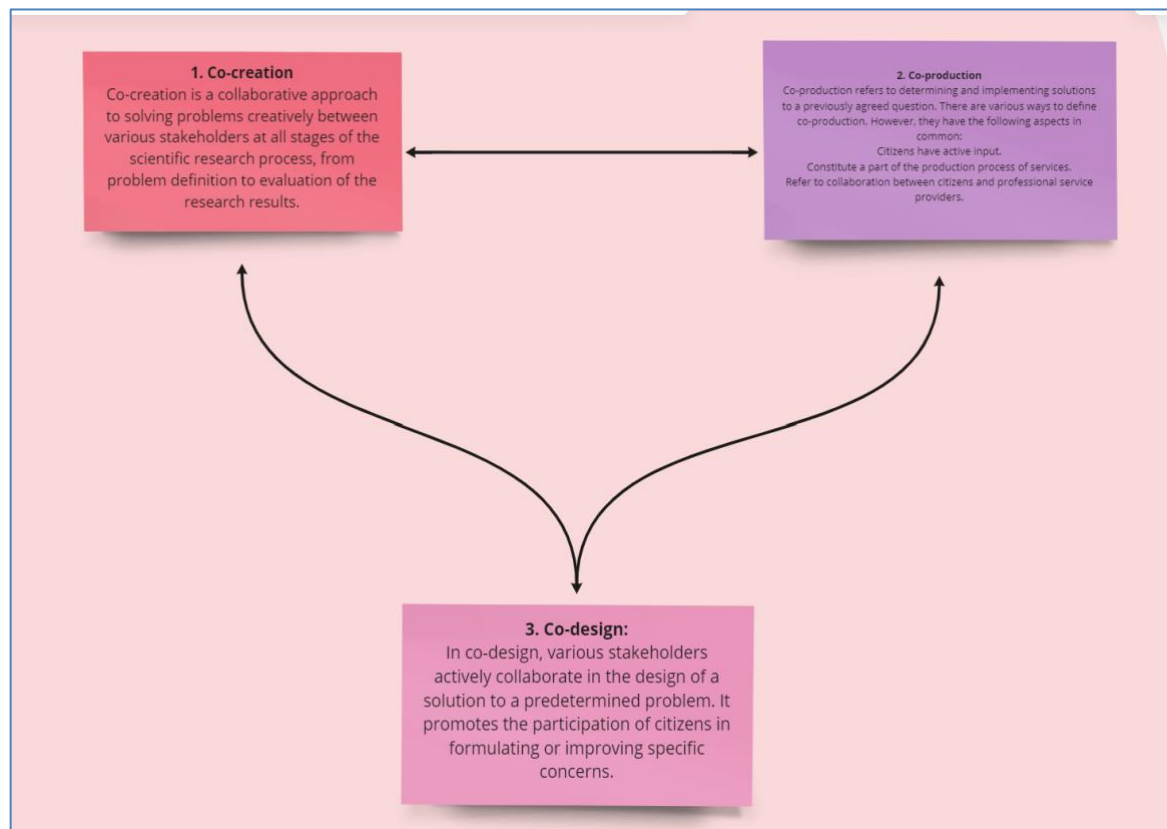


Figure 3. Close-Up of the Collaboration Sub-Category

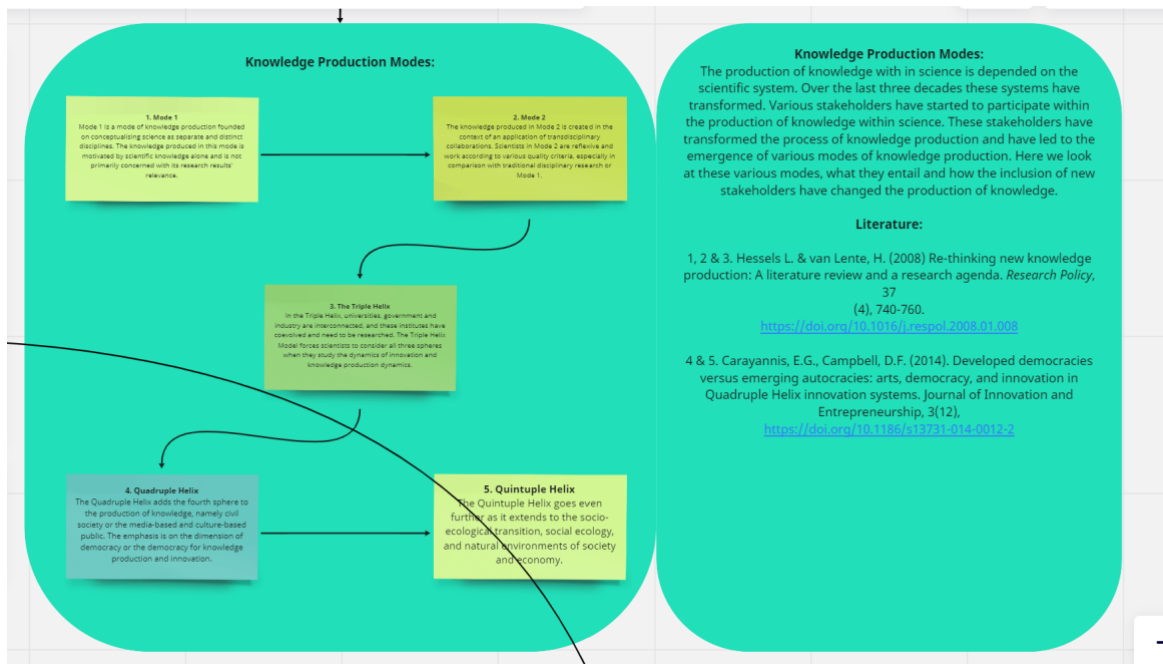


Figure 4. The Sub-Category Knowledge Production Modes

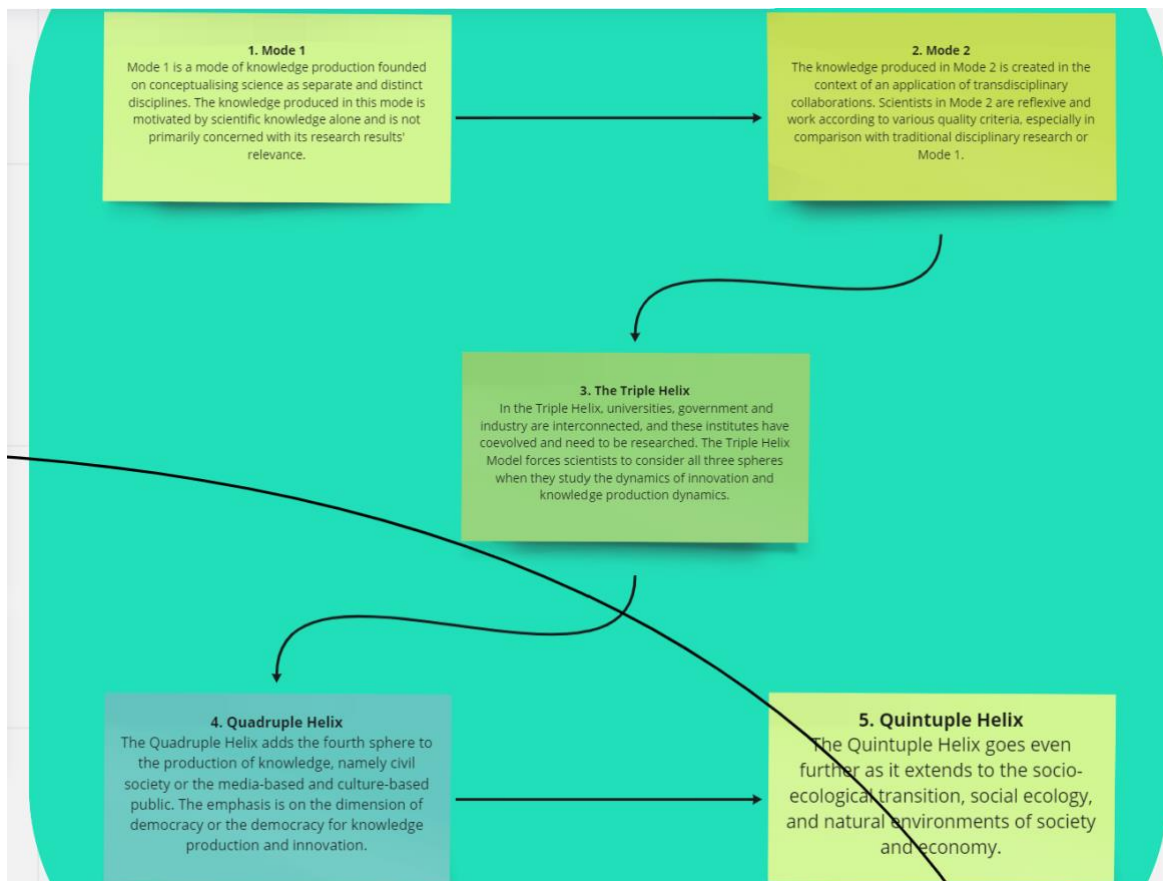


Figure 5. Close-Up of Sub-Category of Knowledge Production Modes

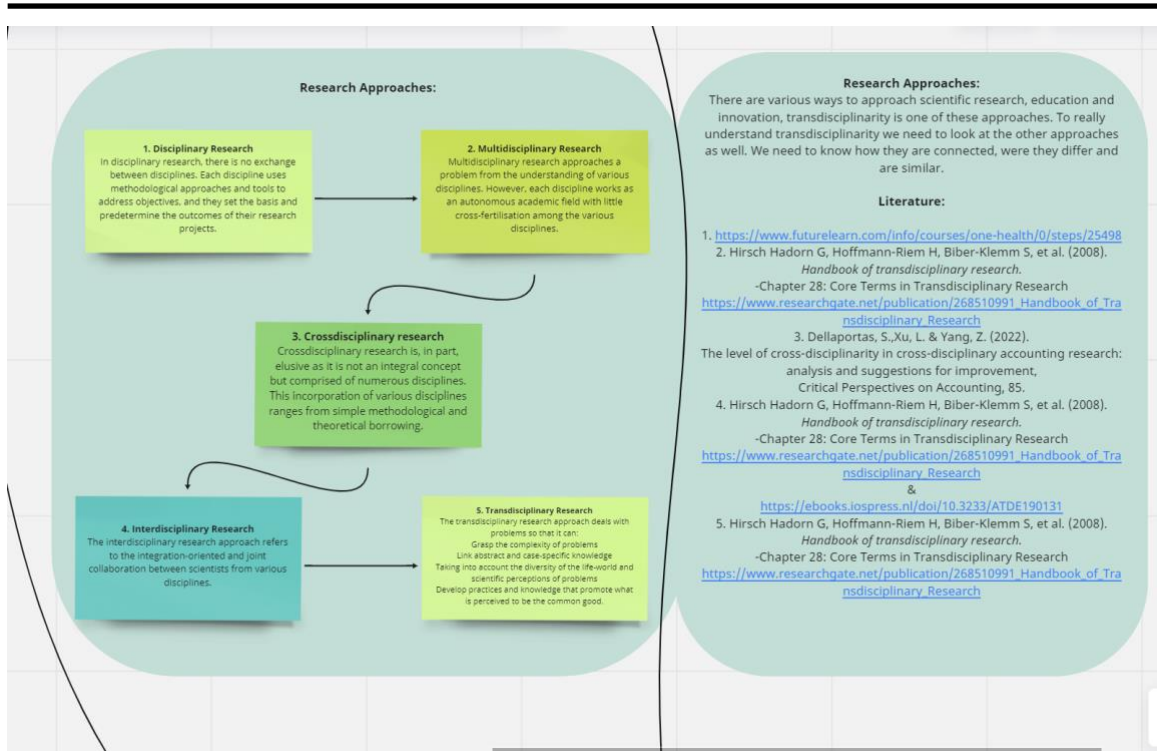


Figure 6. The sub-Category of Research Approaches

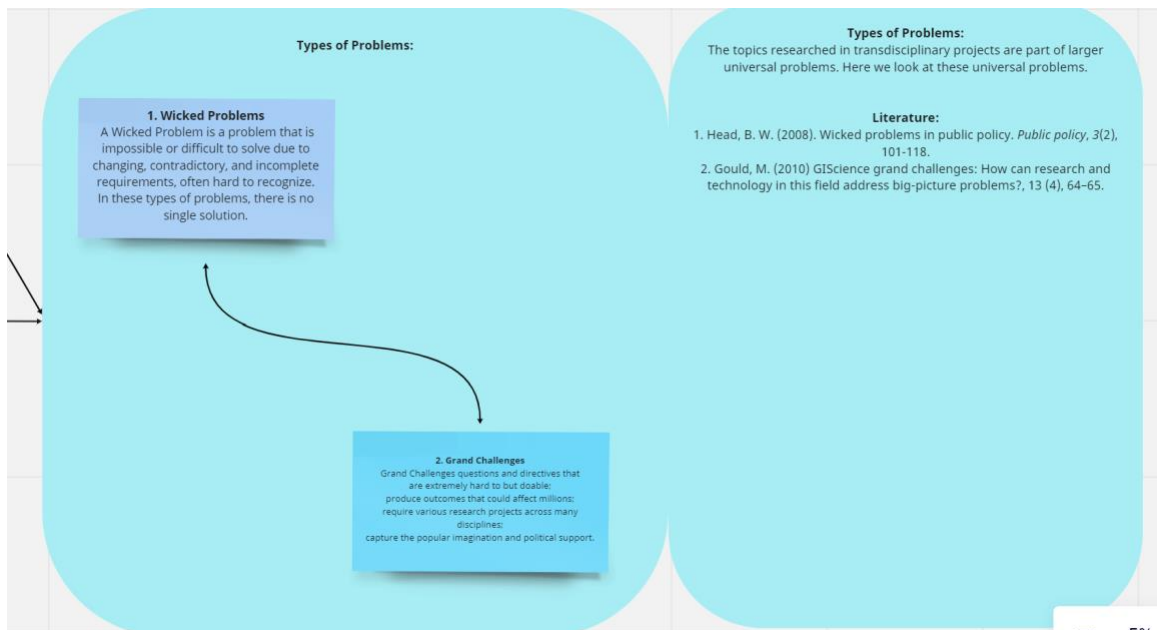


Figure 7. Sub-Category Types of Problems

//D2.6.2. GLOSSARY FOCUS AREA 2 AND WORK PACKAGE 4 (Sustainable Entrepreneurship and Innovation):

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The following shows terms and definitions discussed in Work Package 4 Sustainable entrepreneurship and innovation ecosystems.

***Sustainable Development (Sustainability):***

"development that meets the needs of the present without compromising the ability of future generations to meet their own needs" World Commission on Environment and Development, 1987. "For sustainable development to be achieved, it is crucial to harmonise three [interconnected] core elements: economic growth, social inclusion and environmental protection" (United Nations).

***Entrepreneurial Ecosystem:***

"A combination of social, political, economic, and cultural elements within a region that support the development and growth of innovative start-ups and encourage nascent entrepreneurs and other actors to take the risks of starting, funding, and otherwise assisting high-risk ventures" (Spigel, 2017).

***Innovation Ecosystem:***

The constellation of interdependent actors/players that interact to create, support, and commercialise a particular innovation or new value proposition (Jacobides, Cennamo, & Gawer, 2018). Alternatively, it can be defined as "the collaborative arrangements through which firms combine their offerings into a coherent, customer-facing solution" (Adner, 2006).

***Sustainable Entrepreneurship and Innovation Ecosystem:***

A community of interconnected and interdependent individuals, organisations, institutions, and processes oriented towards enabling value creation through supporting the development of innovations and entrepreneurial start-ups to cultivate sustainable development.

[//D2.6.3. GLOSSARY FOCUS AREA 3 AND WORK PACKAGE 5 \(Human Resources and Career Development\):](#)

The following toolbox encompasses the terms the WP5 working group has discussed and reached a common definition/understanding to facilitate the reference to its meaning in identifying and mapping RIs at the ENHANCE Alliance level. Most terms have emerged from the effort to have a common language in the development of Task 2.4 and to clarify some differences of understanding among WP5 working group members.

**Gender Equality/Equity Policies**

The set of measures and policies focused on promoting economic independence between men and women, closing the wage gap between men and women, promoting balance between men and women in decision-making, ending gender violence and promoting equality of gender beyond the EU.

**Good Practice in HR**

Good Practices in HR are actions that improve the recruitment, hiring and working conditions of the institutions that implement them, resulting in more transparency and openness for candidates and recruiters and better working and career development conditions for workers.

**HR Service Website**

Website on which the HR Service of an institution offers its contact, job offers, news, and important documents.

**HRS4R Website**

The website on which the HR Award in Research is awarded to institutions provides information about the internal HR Strategy for Researchers of the institution and the process to obtain the award.

**Researchers' Career Development Strategy/Plan**

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The set of actions/measures providing support and information about the researchers' career path options and helps them to obtain the skills or experience necessary to work toward the career path that they choose.

#### //D2.6.4. GLOSSARY FOCUS AREA 4 AND WORK PACKAGE 6 (Research Infrastructures):

The following toolbox encompasses the terms the WP6 working group has discussed and reached a common definition/understanding to facilitate the reference to its meaning in identifying and mapping RIs at the ENHANCE Alliance level. Most terms have emerged from the effort to translate the qualitative basis provided by the EC definition of RI into quantitative parameters to reach a common agreement at a consortium level to proceed with the RI ecosystem mapping activity.

**Major scientific equipment:**

In the context of RI analysis, this concept refers to the assets or equipment of a RI. It implies that the economic value of the equipment/assets and/or the dimension and complexity of the facilities are notoriously bigger or broader compared with the majority of scientific/technological structures or resources. It is a measure of relevance in the research and innovation context of the RI ecosystem.

**Dimension/Complexity of the facilities:**

One characteristic that defines a RI is major scientific equipment in the context of the RI ecosystem. It is a characteristic of the Research Infrastructures that consider features like the existence of several integrated components, large dimensions encompassing different units and the presence of secondary equipment.

**Economic value of an RI:**

One characteristic that defines a RI is major scientific equipment in the context of the RI ecosystem. It is an estimated feature based on two approaches: the estimation of the facility's start-up value related to the purchase of the equipment to set up the infrastructure or the estimation of the facility's replacement value to purchase today the equipment to set up the infrastructure.

**Type of RI:**

Referring to RIs, the type concept is borrowed from the EC definition of an RI. It refers to the physical distribution and location presented by the facilities of the RI and includes for categories:

- Single-site facility (one physical location)
- Distributed facility (more than one physical location)
- Mobile facility (services offered on-site)
- Virtual facility

**Nature of a RI:**

This concept is closely connected to the services and equipment that a RI offers and possesses. It is a type of categorisation that divides the RIs into working categories and even refers to different users. This term and its categories should be further reviewed and discussed since a quantitative definition is still to be decided. The categories in which the nature of a RI can be classified are:

- Major equipment research facility
- Knowledge-related facilities (Databases, repositories, archives)
- Computational facilities/tools
- Biobanks

#### //REFERENCES:

Adner, R. (2006). *Match your innovation strategy to your innovation ecosystem*. Harvard Business Review, 84(4), 98–107.

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Jacobides, M. G., Cennamo, C., & Gawer, A. (2018). Towards a theory of ecosystems. *Strategic Management Journal*, 39(8), 2255-2276.

Spigel, B. (2017). The relational organisation of entrepreneurial ecosystems. *Entrepreneurship Theory and Practice*, 41(1), 49–72.

United Nations. The Sustainable Development Agenda.

<https://www.un.org/sustainabledevelopment/development-agenda/>

World Commission on Environment and Development. (1987). *Our Common Future*.

//FIGURES:

Figure 1. Inge Leurs

Figure 2. Inge Leurs

Figure 3. Inge Leurs

Figure 4. Inge Leurs

Figure 5. Inge Leurs

Figure 6. Inge Leurs

Figure 7. Inge Leurs