

# **ENHANCERIA**

	Work package	WP2 Exploration, Identification and Mapping of Different Practices and Approaches
ENHANCERIA	Deliverable	D2.3 Preliminary Systematic Sample of SEI Initiatives from the Institutions
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# D2.3 PRELIMINARY SYSTEMATIC SAMPLE OF SEI INITIATIVES FROM THE INSTITUTIONS

# //ABSTRACT:

Based on data collected from secondary sources from the seven universities of ENHANCE, a preliminary sample of more than 40 initiatives has been gathered. These initiatives contribute to supporting Sustainable Entrepreneurship and Innovation Ecosystems (i.e., communities of interconnected and interdependent individuals, organizations, institutions, and processes oriented towards enabling value creation through supporting the development of new innovations and entrepreneurial start-ups with the aim of cultivating sustainable development). These universities' initiatives include educational programs and courses, research projects and labs, disclosures and technology transfer, incubators and accelerators, idea evaluation and development, start-up and venture formation support, financing and funding, amongst others.



# //INTRODUCTION:

This document is a sample of universities' initiatives that support Sustainable Entrepreneurship and Innovation (SEI). This is not an exhaustive list but a preliminary list of sample initiatives that have been gathered based on secondary sources (mainly the official websites of the seven universities). The sample initiatives include 5-7 examples from each university, and they exemplify how higher education institutions contribute to supporting SEI through various ways while undertaking the three main university functions (1. teaching and learning, 2. research, 3. community engagement and utilisation of knowledge). The following steps will involve collecting primary data through interviews and surveys with representatives and stakeholders of the seven universities to gain a more comprehensive list of SEI initiatives and systematically classify them concerning how each specifically contributes to empowering SEI. This will provide a better understanding of SEI ecosystems of the institutions that cultivate sustainable development.

# **//OVERVIEW OF UNIVERSITIES AND EXAMPLES:**

- NTNU
  - 6 AM
  - Cluster collaboration NCE, GCE and ARENA clusters
  - o Master's degree in entrepreneurship, innovation and society
  - NTNU Discovery
  - NTNU School of Entrepreneurship
  - Start NTNU
  - o Trondheim Tech Port
- Chalmers
  - o Chalmers E-village
  - Chalmers Innovation Office
  - Chalmers School of Entrepreneurship (CSE)
  - o Chalmers Ventures
  - HSB Living Labs
  - Stena Center
  - Tracks
- Polimi
  - "Cantieri" for the city of Milan
  - Città Studi Sustainable Campus
  - o Poli360
  - o PoliHub
  - Self-financing
  - Spin-Offs
- RWTH
  - o Fairtrade University RWTH Innovation
  - Sustainability in Degree Programs
  - The Centre for Circular Economy
  - $\circ \quad \text{The Sustainability Fund} \\$
  - o The Undergraduate Research Opportunities Program (RWTH UROP)
- TUB
  - Centre for Entrepreneurship
  - o M.Sc. Innovation Management, Entrepreneurship, and Sustainability
  - o Techno-Club
  - o The Centre for Intellectual Property
  - The Coworking Space EINS
  - The StadtManufaktur Berlin
- UPV
  - o Centre for Development Cooperation (CCD)
  - IDEAS





- Lifelong Learning Centre
- Office for the Promotion of Research, Innovation and Technology Transfer (i2T)
- o R&D and Innovation Management Office
- The Polytechnic City of Innovation (CPI)
  - The Orientation for Innovation Unit of the Valencian Business Confederation (UNOI)

# • WUT

- o Air Pollution Control Team
- o Centre for International Cooperation
- Executive MBA
- o Renewables in Business Program
- Waste Management Team



#### //DEFINITIONS:

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.

//SAMPLES:

#### NTNU

### 6 AM

# https://www.6am.no/

Accelerator for knowledge-based start-ups, offering funding, networking and incubator space in central Trondheim

# Cluster collaboration - NCE, GCE and ARENA clusters

https://www.ntnu.edu/innovation-resources/cluster-collaboration

Constellations that encourage increased innovation and collaboration between businesses, research and educational environments, and public-sector players.

# Master's degree in entrepreneurship, innovation and society <a href="https://www.ntnu.edu/studies/mentresam">https://www.ntnu.edu/studies/mentresam</a>

The programme gives students insight into the entrepreneur's importance for society's development and the meaning of social context for entrepreneurship. The study gives insight into the classical research tradition related to entrepreneurship, new forms of entrepreneurship that receive extensive attention today (for instance, social and cultural entrepreneurship), and new forms of restructuring (like "green" culture-based development). The aim is that students will be able to understand the relations between entrepreneurship, local and regional restructuring processes, urban and rural development and regional and innovation politics.

#### **NTNU Discovery**

#### https://ntnudiscovery.no/en/home/

Provides support for the development, verification and quality assurance of ideas and projects that have the potential to be commercially viable. It supports outstanding ideas based on concrete research results from employees at NTNU and Helse Midt-Norge. It also provides financial support in a phase where few others are willing to invest money.

# NTNU School of Entrepreneurship

# http://entreprenorskolen.no/

Master's programme in entrepreneurship. Combines theory with practical experience. The defining characteristic of the program is that students are provided with the infrastructure, resources and guidance to



establish new ventures in parallel with following a full academic workload focused on business development. This reinforcing combination of theory and practice is unique as an educational model, and it offers students the possibility to develop their skills in a real-life context.

#### Start NTNU

http://startntnu.no/

A student organisation that works to inspire students to try their hand at innovation and entrepreneurship.

# **Trondheim Tech Port**

http://technoport.no/

Trondheim Tech Port is a member-based organisation working to increase Norway's innovation output. In addition, Trondheim Tech Port is working to establish Trondheim's Innovation District in connection with the Campus development project ongoing in the Elgeseter gate area. Its slogan is "A world-class innovation district, for a sustainable future".

#### **CHALMERS**

#### Chalmers E-village

https://www.chalmers.se/en/evillage/Pages/default.aspx

A hub for innovation and entrepreneurship at Chalmers. Located at Campus Johanneberg and right at the heart of the university's creative environment, it's a place full of opportunities for students, researchers, entrepreneurs, start-ups, growth companies and others interested in collaborating, sharing ideas and exchanging knowledge.

#### **Chalmers Innovation Office**

 $\frac{https://www.chalmers.se/en/collaboration/innovation-and-entrepreneurship/chalmers-innovation-office/Pages/default.aspx}{}$ 

Chalmers Innovation Office supports researchers and students in the innovation process and the transfer of research results into impact on society. The office can also help those from outside the university who want to spread innovations by connecting them with Chalmers researchers.

Chalmers School of Entrepreneurship (CSE) <a href="https://www.chalmers.se/en/departments/tme/school-of-entrepreneurship/Pages/SchoolofEntreprenurship.aspx">https://www.chalmers.se/en/departments/tme/school-of-entrepreneurship/Pages/SchoolofEntreprenurship.aspx</a>

The two-year international master's programme Entrepreneurship and Business Design is also known as Chalmers School of Entrepreneurship. This is an environment where entrepreneurship is experienced and not only taught in classrooms. Here students work with real venture projects during their education and apply their knowledge, creativity and entrepreneurial ability in real settings. It combines academic education and research with real value creation in an entrepreneurial environment.

# **Chalmers Ventures**

https://www.chalmersventures.com/

Chalmers' in-house venture creation company. It starts, develops and finances research and knowledge-based companies. As an incubator and accelerator, it is a non-profit organisation. The investment part of the business is profitable with the goal of creating a strong balance sheet to be able to finance tomorrow's growth companies based on an evergreen structure with the aim of creating even better growth for the region and Sweden.

# **HSB Living Labs**

https://www.hsb.se/hsblivinglab/

A research and demonstration arena to develop new ways to build and shape the housing of the future. It is a moveable building consisting of 3 floors as housing for students and visiting researchers, and on the ground floor, there are collaboration rooms with offices, conference rooms, showrooms for research projects, and a



modern laundry studio. The project tests new technical and architectural innovations and aims to create new knowledge with a focus on social, economic and environmental sustainability.

#### Stena Center

# https://www.stenacenter.se/

Simply put, Stena Center is an office hotel but also a welcoming and dynamic centre for the development of entrepreneurs with business ideas based on technological innovations. Stena Center inspires and enables start-ups to become viable companies with growth potential that contribute to increased prosperity in the region. Stena Center has been an important environment for entrepreneurs for over 20 years, and several companies have started their successful journey here.

#### Tracks

# https://student.portal.chalmers.se/en/chalmersstudies/tracks/Pages/Tracks.aspx

An educational initiative that consists of elective courses. Within Tracks, students will learn to collaborate across programme boundaries and take on relevant challenges with a basis on real-world problems. Students with different skills can, for example, address systemic challenges in areas such as healthcare, energy and technology.

#### <u>POLIMI</u>

# "Cantieri" for the city of Milan

The "Cantieri" are practical projects shared with the city of Milan: initiatives with and for the city aimed to make Milan increasingly appealing. They are open laboratories devoted to innovation and research involving the best realities of the territory (bodies, institutions, enterprises) relating specifically to relevant technological themes: industry 4.0 (competence centre with MISE); smart cities (5G with Vodafone and the Municipality of Milan); health (Human Technopole); the frailty of the territories (projects for urban recovery with the municipality); cultural heritage (Fabbrica del Duomo).

### Città Studi Sustainable Campus

#### http://www.campus-sostenibile.polimi.it/

A project promoted by Politecnico di Milano and Università degli Studi di Milano with a view to transforming the city's university district into a campus - and an exemplary part of town with regard to the quality of life and environmental sustainability - through the active involvement of researchers, students and local inhabitants. The project Campus is split into six main areas of interest (themes): People, Energy, Environment, Mobility, City, Food & Health. These themes were identified in order to group the proposals received and organise theme-based work groups. The project is open to all employees and students who can take part with simple comments or more structured proposals.

#### Poli360

### https://www.polilink.polimi.it/en/poli-360/#

Poli360 is the new investment fund – the only one of its kind in Italy – that hinges on the university's research potentialities and fields of competence, as well as on the Technology Transfer Platform managed by the TTO and the incubator PoliHub. The investments support the development of high technology projects and startups – based on research and intellectual property.

#### **PoliHub**

# www.polihub.it

PoliHub is the Startup District & Incubator of Politecnico di Milano. It is the ideal place to enhance ideas, transforming them into an entrepreneurial projects. PoliHub is also addressed to well-established high-tech firms, offering the possibility to share knowledge and to access the network of one of the best technological universities at the European level for the launching of new entrepreneurs. It is managed by Fondazione Politecnico di Milano.

# **Self-financing**



Self-financing constitutes, alongside the Ordinary Financing Fund (FFO) and students' taxes, one of the main forms of support of Politecnico di Milano. It is made up of research contracts, consultancy, and didactics addressed to national and foreign private enterprises as well as Bodies. It also includes competitive financing mainly toward the European Union entered into principally by the university's departmental Structures.

#### Spin-Offs

# https://www.polimi.it/en/scientific-research/research-at-the-politecnico/technology-transfer/spin-off

The university promotes entrepreneurship within its structures by establishing spin-offs and new high-tech enterprises aimed to transform scientific and technological know-how into innovations that can be exploited from a commercial viewpoint through the realisation of products or services. The creation of the Poli360 fund allows to support of entrepreneurial projects and stimulates the collaboration of corporate partners. The aim is to impart both internationality and scalability from the very outset of the spin-offs' lifecycle, as such characteristics are the basis of entrepreneurial success.

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# **RWTH**

### **Fairtrade University**

https://www.rwth-aachen.de/cms/root/Die-RWTH/Nachhaltigkeit/Nachhaltigkeit-im-Betrieb/~sawiz/Fairtrade-University/lidx/1/

RWTH's "Fairtrade University" status makes the university's commitment visible; it contributes to sustainable development and takes responsibility for the impact of its own consumption in growing international regions. The initiative has strengthened sustainability awareness but also intensified regional and national networking. Furthermore, the initiative includes a funding program that provides financial support to projects and measures that strengthen and promote the topic of Fairtrade.

# **RWTH Innovation**

# https://www.rwth-innovation.de/en/home

The centre serves as a key contact for those interested in setting up their own business and offers a wide range of start-up advising, coaching, and workshops. It also provides access to specialist incubators and a strong network for founders. The centre is a cooperation between the RWTH Innovation GmbH - a subsidiary of RWTH and key contact for technology transfer and entrepreneurship - and the School of Business and Economics. The offerings for founders support the process of creating a successful start-up.

### Sustainability in Degree Programs

 $\frac{https://www.rwth-aachen.de/cms/root/Die-RWTH/Nachhaltigkeit/Nachhaltigkeit-in-der-Lehre/\sim wkrdz/Nachhaltigkeitsbezug-in-Studiengaengen/lidx/1/$ 

Many degree programs at RWTH specifically deal with sustainable development in their curriculum. In order to determine the sustainability aspects dealt with in the courses of study at RWTH, the faculties were asked for a self-assessment of their "sustainable degree programs". It became clear that all Sustainable Development Goals of the 2030 Agenda are addressed in the different degree programs at RWTH, with the following SDGs particularly focused upon: 7 – Affordable and Clean Energy, 13 – Climate Action, and 9 – Industry, Innovation, and Infrastructure. Work is currently underway to systematically record how each degree program offered at RWTH addresses sustainability.

#### The Center for Circular Economy (CCE)

https://www.cce.rwth-aachen.de/

CCE bundles the expertise of all faculties of RWTH Aachen University on sustainable circular economy. Transand interdisciplinary methods are developed for the process optimisation of the three main areas of the CCE:



sustainable product design during production, business models during product use and material recovery during product recycling. Together with research, industry, politics and the population, the CCE is developing innovative solutions for circular value creation in the future.

#### The Sustainability Fund

https://www.rwth-aachen.de/cms/root/Die-RWTH/Nachhaltigkeit/Nachhaltigkeit-im-Betrieb/~tczhk/Nachhaltigkeitsfonds/lidx/1/

The university management has established the Sustainability Fund as it wishes to structure its operations in the future in such a way that resource consumption is reduced and that climate neutrality is promoted. Furthermore, it wants to ensure that responsible, inclusive cooperation is promoted and carried out even more intensively. The fund shall support projects that contribute to sustainable operations, such as the reduction of energy, material or water/wastewater consumption, exhaust air and waste reduction, nature conservation measures, and projects that encourage behavioural change among University members in the spirit of sustainability.

# The Undergraduate Research Opportunities Program (RWTH UROP)

https://www.rwth-aachen.de/cms/root/studium/Im-Studium/Angebote-fuer-Studierende/UROP/~rps/RWTH-UROP/lidx/1/

The program offers students the chance to undertake their own research projects in an RWTH research team at the university's institutes and chairs very early on during their studies. A particular focus of this program line is sustainability, in alignment with the United Nations' 17 Sustainable Development Goals (SDGs).

# **TUB**

#### Centre for Entrepreneurship (CfE)

https://www.tu.berlin/entrepreneurship/

The centre provides start-up support and technology transfer, aiming for "High-Tech Spin-Offs with Triple Impact for a Sustainable Future". At the interface between universities, businesses and start-ups, entrepreneurship with triple impact - economic, social and ecological - is taught, researched and put into practice.

M.Sc. Innovation Management, Entrepreneurship, and Sustainability <a href="https://www.tu.berlin/en/studying/study-programs/all-programs-offered/study-course/innovation-management-entrepreneurship-and-sustainability-m-sc">https://www.tu.berlin/en/studying/study-programs/all-programs-offered/study-course/innovation-management-entrepreneurship-and-sustainability-m-sc</a>

In the international and interdisciplinary master's degree program in Innovation Management, Entrepreneurship, and Sustainability (IMES), students learn about all the fundamental principles of innovation management, entrepreneurship and sustainability. This includes all issues on operative, tactical and strategic levels relevant to founding new businesses or working in R&D. The curriculum encompasses relevant social, economic, and social science issues from theory and practice.

# Techno-Club

https://www.techno-club.tu-berlin.de/

The Techno-Club offers a variety of opportunities to female high school students. The program combines visits to schools by female university students with a series of events each semester. Female high school students carry out experiments and conduct research in the laboratories of TUB. They explore the university campus and become acquainted with important facilities such as the University Library and the Student Advisory Service.

# The Center for Intellectual Property

http://www.zfge.tu-berlin.de/

The centre is Technische Universität Berlin's main point of contact for all the university's inventors as well as researchers from other institutions and interested parties from a business. Technology transfer is a way to ensure that the university's research findings benefit both business and society.



#### The Coworking Space EINS

# https://www.tu.berlin/en/topics/entrepreneurship/2020/mai/eins

The coworking space EINS at Ernst-Reuter-Platz is one of many TU projects dedicated to start-ups and makes a major contribution to raising public awareness of the university's support for new business ventures. Entrepreneurship, Innovation, Network, Sustainability. This acronym, which also spells out in German the centre's address at Ernst-Reuter-Platz, reflects the vision which the university wishes to pursue at its new start-up centre EINS on the Charlottenburg campus. The centre focuses on innovative start-ups, networking with key players in Berlin and sustainability. EINS is an important platform for innovation in entrepreneurship located in the heart of Berlin. Start-ups with social and ecological impact, as well as an economically viable business model, are provided with outstanding support for the early stages of their development. EINS also provides an excellent infrastructure.

#### The StadtManufaktur Berlin

# https://stadtmanufaktur.info/en/

The StadtManufaktur is an initiative of the Technische Universität Berlin, the Center for Technology and Society (Zentrum Technik und Gesellschaft) and the Einstein Center Digital Future. It is a platform for diverse collaborations between science and society, facilitating the matching between scientists and partners from politics, business, culture and civil society. It accompanies collaborative projects and pools the extensive findings from projects in a common knowledge pool. It has living labs on four topics: Energy and transport transition, Climate Resilience, Transformation knowledge, and Circular economy.

# **UPV**

#### Centre for Development Cooperation (CCD)

#### https://www.upv.es/entidades/CCD/index-en.html

The Centre for Development Cooperation (CCD) is the area of the Technical University of Valencia (UPV) responsible for supporting and encouraging the participation of the university members in activities of development cooperation. And all this is in order to promote solidarity attitudes and to approach the UPV to all actors in the international system of development cooperation (DNGO, public administrations and international organisations).

# **IDEAS UPV**

# https://www.ideas.upv.es/

The body that promotes and manages business initiatives is born at UPV from a concept to a clear business idea. IDEASUPV's mission is to promote and develop the entrepreneurial culture at the UPV, to raise awareness and stimulate the university community in the creation and support of new companies, and to support the creation and development of innovative and technology-based companies in the Valencian Community, mainly. IDEASUPV is also the unit responsible for informing and advising the university community on the process of creating companies UPV.

# **Lifelong Learning Centre**

# https://www.cfp.upv.es/formacion-permanente/

The centre is in charge of managing the non-regulated training activities and projects promoted by the university, such as promoting and collaborating with the departments, centres, institutes and other UPV-specific bodies in the creation and development of training projects, facilitating its dissemination and promotion in its socioeconomic environment. It offers a variety of courses such as business management and social responsibility, business innovation, creativity and entrepreneurship.

# Office for the Promotion of Research, Innovation and Technology Transfer (i2T) <a href="https://www.upv.es/entidades/12T/index-en.html">https://www.upv.es/entidades/12T/index-en.html</a>

UPV's research results transfer office (OTRI). Its mission is the general promotion of R&D&i at the UPV and the protection and transfer of its research results.

# **R&D** and Innovation Management Office



# https://www.upv.es/entidades/SGI/index-en.html

The aim of the office is to support and strengthen the coordination and execution of the administrative-economic management processes of research, innovation and knowledge transfer activities at Universitat Politècnica de València.

# The Polytechnic City of Innovation (CPI)

http://innovacion.upv.es/es/ciudad-politecnica-de-la-innovacion-parque-cientifico-de-la-universitat-politecnica-de-valencia/

The Science Park of UPV. It is a space, not just a physical one, where university, business and society connect to accelerate the generation of knowledge-intensive activities. It contributes to capitalising on the knowledge of UPV, generating impact by transferring its results and contributing to socioeconomic development.

# The Orientation for Innovation Unit of the Valencian Business Confederation (UNOI) <a href="http://enclave.cev.es/unoi/">http://enclave.cev.es/unoi/</a>

It promotes the relationship between the University and Valencian companies, with the aim of promoting the integration of R&D and innovation in SMEs and thus contributing to improving their competitive position.

# **WUT**

#### **Air Pollution Control Team**

# https://is.pw.edu.pl/wp-content/uploads/2022/06/WUT-WBSHEE.pdf

The team conducts research services on the concentration of pollutants in atmospheric air, the identification of sources and the assessment of health impacts of air pollution. It also runs workshops, training sessions, post-graduate training on air pollution and protection, and air quality assessment and management. Besides, it offers expert opinions for industry and public administration in respect of atmospheric pollution and protection.

# **Centre for International Cooperation**

# https://www.cwm.pw.edu.pl/en

Its task is to enhance the academic and scientific cooperation of the entire University with HEIs and industrial partners from all over the world, as well as to promote and facilitate the process of internationalisation of WUT in accordance with the EU standards. Under the centre is the University Contact Point for European Research Programme. Its activities include: advising on financial and administrative matters, providing expertise in intellectual property, organising training, seminars, and workshops, and developing cooperation with new research partners.

# **Executive MBA**

# https://biznes.edu.pl/en/executive-mba-en/

A part-time study programme in English, characterised by a real-life approach that is combined with outstanding academic standards and a deep understanding of the technologies of tomorrow. The EMBA programme was designed in order to meet the expectations of high- and mid-level managers. The programme opens new doors and allows us to understand the latest trends and challenges in a fast-changing business world. The first pillar of the program (knowledge for business) includes core and specialised modules. One of the core modules is "Social Responsibility and Ethics", and specialised modules include, for example, "Innovation Management" and "Circular Economy". The second pillar (business in action) include business analysis project, new venture/product project, and consultancy project. The third pillar (personal development) aims to create opportunities for an insight into one's personal skills and competencies of managers and development in terms of the needs arising from the challenges of technological revolution and social change.

#### Renewables in business Program

https://biznes.edu.pl/en/renewables-in-business-technologies-economics-implementations/

The one-year post-graduate programme was co-created by the Warsaw University of Technology Business School and the Institute of Renewable Energy. It was created for people operating in the area of renewable



energy willing to learn about the economic conditions and the needs of the energy cost reduction market. Final work carried out in interdisciplinary student groups, with the support of practitioners (focused on the market needs) – preliminary feasibility studies.

# **Waste Management Team**

# https://is.pw.edu.pl/wp-content/uploads/2022/06/WUT-WBSHEE.pdf

The team has years of experience in waste management, especially in the field of waste processing technologies (including recycling and recovery) and urban area maintenance. In this area, researchers have experience in many years of collaboration with local governments and industry. The team's recent years of research have focused on source-separated bio-waste (including food waste), biological treatment of process gases and waste management within the Circular Economy. The team offers opinions and consultations, and support in the development of concepts, programs and plans for the management of municipal and industrial waste and the development of new recovery and waste disposal technologies.



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