

STEAM+

- Innovating STE(A)M in Higher Education with Transdisciplinary Talent Programs
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Agenda



- Project baseline
- Principles
- Arguments
- Planned activities
- Products
- Partners



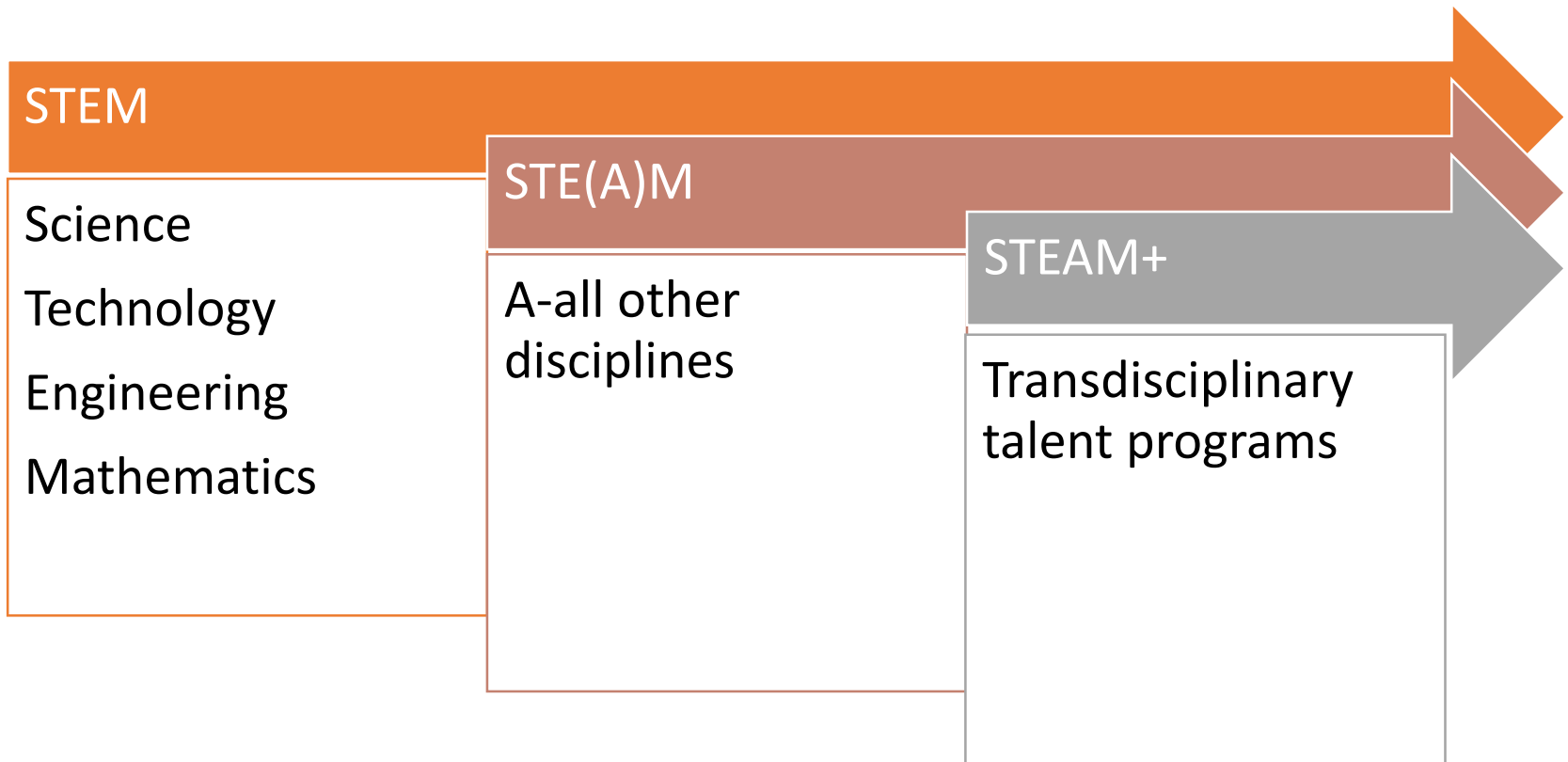
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Project baseline

- **Aim:** Providing educational policy makers with instruments to prepare new generations for handling the challenges of our time





Principles



-
- Transdisciplinarity
 - Honors (talent) programs
 - Co-creation





What is transdisciplinarity?

DEGREE OF INTEGRATION AND RELATED KEYWORDS (Klein, 2014)

Low

High

DISCIPLINARY	MULTIDISCIPLINARY	INTERDISCIPLINARY	TRANSDISCIPLINARY
Specializing Concentrating Analyzing Segmenting	Juxtaposing Sequencing Coordinating	Interacting Linking Blending Integrating Synthesizing	Transcending Overarching Transforming Transgressing



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Transdisciplinarity



Two main interpretations (Klein, 2010):

1. Unlike interdisciplinarity build on the basis of disciplines, TD is based on topics of interest/challenges. It is the idea of knowledge unification and a concomitant disappearance of the disciplines.
2. An opening of academic disciplines to players outside the academic world in order to integrate knowledge produced outside the academic system.

Why?



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- Learner (talent) driven
- Transdisciplinary learning
- Adapt to 21st C. complexity



Planned activities

- Innovation labs (3)
- National meetings
- Policy meet-ups



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Innovation Labs

- Lab1: STEAM+ Citizen Science for Marine Conservation (summer 2021)
Host: Ca' Foscari University College, Venice, Italy
- Lab2: STEAM+ Sustainable Sea and City Challenge (winter 2021, online)
Host: University of Klaipeda, Lithuania
- Lab3: STEAM+ Fun Solutions for Societal Challenges (spring 2022)
Host: Johannes Kepler University Linz, Austria



Products



Innovation Lab implementation path

- An instrument on how to establish transdisciplinary talent programs in HEI

Menu for policy inspiration

- An instrument for policy makers in Higher Education, local, regional, national and EU levels to support and recognize (development of) transdisciplinary talent programs



Partners

18 full partners & 34 associate partners

Full Partners Higher Education Institutions

- Hanze University of Applied Sciences (Netherlands)
- University of Oslo (Norway)
- Johannes Kepler University Linz (Austria)
- Alexandru Ioan Cuza University of Iași (Romania)
- University College Copenhagen (Denmark)
- Klaipėda University (Lithuania)
- Westphalian Wilhelms-University of Münster (Germany)
- Ca' Foscari University of Venice (Italy)
- KU Leuven (Belgium)
- University of Antwerp (Belgium)



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Partners

Full Partners – policy

- Norwegian Ministry of Education and Research (Norway)
- Flemish Advisory Council for Innovation & Enterprise (Belgium)
- SLO – Institute for Curriculum Development (Netherlands)
- Romanian Ministry of National Education (Romania)
- Klaipėda City Municipality (Lithuania)
- Ministry of Education (Austria)
- Euro-Mediterranean Center on Climate Change (Italy)



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External advisory board



- **Carlos Alvarez Pereira**, full member international Club of Rome and Founder and President of Innaxis Foundation & Research Institute, Spain
- **Professor Jean-Pierre Gesson**, International Relations manager of the Figure network in France, Expert for Hcéres, honorary president of University of Poitiers, France
- **Martine Reicherts**, former European Commissioner and Director-General for Education, Youth, Sport and Culture (until 2018). Currently on Board of Directors of Luxembourg Central Bank and Board Chair of Luxembourg National Research Fund.
- **Professor Nils Overgaard Andersen**, Commissioner International Affairs in European Honors Council Board, professor of Physics at University of Copenhagen (Denmark)
- **Professor Maija Aksela**, director LUMA Centre Finland, a Finnish umbrella organization connecting universities and university campuses to strengthen and promote their collaboration on national and international level in STEAM subjects.



Why is STEAM+ unique?

- 1) Applying a holistic approach, starting with grand challenges, using international, transdisciplinary and educational chain perspectives
- 2) Using the proven innovative power of transdisciplinary talent programs
- 3) Collaborating transnationally with 18 Higher Education and policy partners and 34 enthusiastic associate partners to optimize dissemination of results and impact

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THANK YOU!



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Reflection

- *What challenges do you see in developing and implementing transdisciplinary (honour programs) in your institution/country?*
- *How do you suggest these challenges could be solved?*

