

STEAM+

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

Project summary for grant application

Erasmus+, Key Action 3 (support for policy reform), Forward-Looking Cooperation Projects

Priority 4 - Promoting innovative and cross-disciplinary approaches to STE(A)M teaching in education

March 2019

Summary

Innovating STE(A)M in Higher Education with Transdisciplinary Talent Programs (STEAM+) is a large-scale innovative project with a holistic approach, aiming to provide educational policy makers with instruments to prepare new generations for handling the challenges of our time.

Europe faces grand challenges, such as climate change and energy transition, which have a STEM subject at their core, but need transversal skills and knowledge from All other subjects (the extra A) to create STEAM solutions. We need to use brains, hearts and hands of all talents to tackle these challenges.

The STEAM+ project uses transdisciplinary talent programs as laboratories of innovation in higher education (HE). The project is co-created by a dedicated and qualified team of 18 partners from 9 countries, bringing together educators, policy makers and future employers, united in their aim to provide new generations with future-proof skills.

In the project, we run three international *STEAM+ Innovation Labs*, where students and teachers from 9 countries come together to co-create solutions for grand challenges. The experience from the Labs and a subsequent series of 54 workshops, 27 national policy meetings and an International Policy Meet-up are used to create two main products:

1. An instrument on how to establish transdisciplinary talent programs in HE: *The STEAM+ Innovation Lab Implementation Path*;
2. An instrument for policy makers at HE, local, regional, national and EU levels to support and recognize (development of) such programs: *the STEAM+ Menu for Policy Inspiration*.

STEAM+ combines three key innovative elements:

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 HE and policy partners and 34 enthusiastic associate partners to optimize dissemination of results and impact.

Next steps

- The project start is January 1st, 2020. The kick-off meeting will be held on March 5-6, 2020 at Hanzehogeschool Groningen, the Netherlands.

KA3 FLCP STEAM+ partner overview

Full partners – HEI

No.	Partner	Country
P1	Hanze UAS	Netherlands
P2	University of Oslo	Norway
P3	JKU Linz	Austria
P4	University of Iasi	Romania
P5	UC Copenhagen	Denmark
P6	Klaipeda University	Lithuania
P7	University of Munster	Germany
P8	Ca'Foscari University of Venice	Italy
P9	KU Leuven	Belgium
P10	University of Antwerp	Belgium

Full partner – other

P11	REEDU (company)	Germany
-----	-----------------	---------

Full partners – policy

	Partner	Country
P12	Norwegian Ministry of Education and Research	Norway
P13	ÖZBF	Austria
P14	Klaipeda City Municipality	Lithuania
P15	VARIO	Belgium
P16	Romanian Ministry of National Education	Romania
P17	SLO	Netherlands
P18	CMCC	Italy

Associate partners

Partner	Country
1. European Honors Council	EU
2. Ministry for Education, Universities and Research of Italy (MIUR)	IT
3. Ministry of Education, Culture and Science Netherlands	NL
4. Figure network	FR
5. Lithuanian Union of Young Scientists	LT
6. The Young Academy of the Lithuanian Academy of Science	LT
7. Technical University of Vienna	AT
8. University of Salzburg	AT
9. University of Bergen	NO
10. University of Stavanger	NO
11. Honors network research universities	NL
12. Honors network universities of applied sciences	NL
13. Mbo-e network	NL
14. Rotterdam UAS	NL
15. City of Groningen	NL
16. Fonden team Copenhagen	DK
17. Science Talents / Astra	DK
18. Vrije Universiteit Brussel (VUB)	BE
19. The Flemish Education Council (VLOR)	BE
20. The Flemish Council of Universities of Applied Sciences and Arts (VLHORA)	BE
21. Niktar.biz	BE

22. Ecocampus	BE
23. UHasselt	BE
24. Vlaanderen Circulair	BE
25. Essenscia	BE
26. CEDON	BE
27. Antwerp Management School	BE
28. ROTALENT (Romanian Association for Talent Promotion)	RO
29. "Gheorghe Asachi" Technical University of Iasi (UTI-Iasi)	RO
30. University of Agricultural Sciences and Veterinary Medicine Iasi (USAMV-Iasi)	RO
31. Romanian National Environmental Guard (NEG)	RO
32. CIDREE	EU
33. Network City Deals	NL
34. EU Stem Coalition	NL

Advisory Board

Member	Position	Country
Professor Maija Aksela	Director LUMA Centre	Finland
Professor Jean-Pierre Gesson	Figure network, former president of University of Poitiers, France	France
Carlos Alvarez Pereira	full member international Club of Rome and Founder and President of Innaxis Foundation & Research Institute	Spain
Nils Overgaard Andersen	Professor, Copenhagen University	Denmark
One place to be decided		

Foreseen Steering Committee

No.	Name	Partner	Role(s)
1.	Prof. Marca Wolfensberger	Hanzehogeschool Groningen (P1)	Chair of Steering Committee, Project Coordinator, leader WP1 and WP2
2.	Dr. Maarten Hogenstijn	Hanzehogeschool Groningen (P1)	National Coordinator Netherlands
3.	Prof. Ella Cosmovici Idsøe	University of Oslo (P2)	National Coordinator Norway, Leader WP7
4.	Prof. Zsolt Lavicza	JKU Linz	National Coordinator Austria, co-Leader WP4
5.	Prof. Carmen Cretu	University of Iasi	National Coordinator Romania
6.	Dr. Nina Troelsgaard Jensen	UC Copenhagen	National Coordinator Denmark
7.	Dr. Sonata Mačiulskytė	Klaipeda University	National Coordinator Lithuania, co-Leader WP4
8.	Vivian van Gerven MA	University of Munster	National Coordinator Germany, leader WP6
9.	Prof. Luca Corazzinni	Ca'Foscari University Venice	National Coordinator Italy, co-Leader WP4
10.	Dr. Anne Snick	KU Leuven	National Coordinator Belgium, Leader WP5
11.	Dr. Marleen Eyckmans	University of Antwerp	Quality Assurance, leader WP3