

# SHAPE-ID

Shaping interdisciplinary practices in Europe

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## “Wicked” problems

- Today’s challenges are complex and multifaceted – and they’re complex for a reason
- Developing solutions demands a variety of disciplinary **and practitioner** approaches and perspectives



How humans behave

Starting from human experience when framing problems

Acceptability of new technologies

Complexity of identities, behaviours, meaning-making

Risks of new technologies

Historical perspectives & long-term thinking

Public engagement

Reflexivity & questioning dominant narratives

The role of emotions

Critical thinking

Creative alternatives

Experimental forums for discussion

Narratives & representations

Cultural sensitivities

Storytelling & communication

Intercultural & intergenerational dialogue



**Creative Connections Interdisciplinary Research Workshops**

**Synthesis Report**

October 2018



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**TD1408 - Interdisciplinarity in research programming and funding cycles (INTREPID)**



# SHAPE-ID

Shaping interdisciplinary practices in Europe

A 2.5 year Coordination and Support Action (CSA) addressing the challenge of improving interdisciplinary cooperation between **AHSS disciplines** and other primarily **STEM based disciplines**



Aim: to deliver a set of recommendations, including a toolkit, to guide policy-makers, funders and researchers in achieving successful pathways to IDR integration

## Activities & Objectives



### Literature Review & Survey

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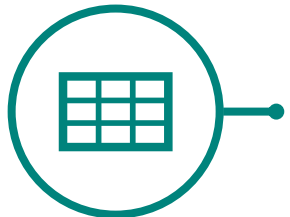
Review existing research and consult stakeholders to understand Inter-and Transdisciplinary Research and what helps or hinders it



### 6 Learning Case Workshops

Innovazione per la sostenibilità  
ISINNOVA

Enable stakeholders to jointly explore best and poor practices of IDR/TDR and co-produce recommendations for AHSS integration

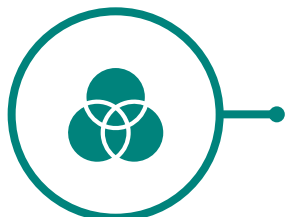


### Validated Knowledge Framework



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Produce and validate a knowledge framework for successful AHSS integration based on the evidence gathering activities



### Toolkit & Policy Brief



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Deliver a toolkit and recommendations to guide stakeholders towards successful pathways to AHSS integration



WP2



WP1



WP3



WP6



WP4



WP5

### Management

### Communication & Dissemination

Targeted messaging to stakeholders to maximise impact

Raising awareness



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## Challenges and preconditions for good collaboration



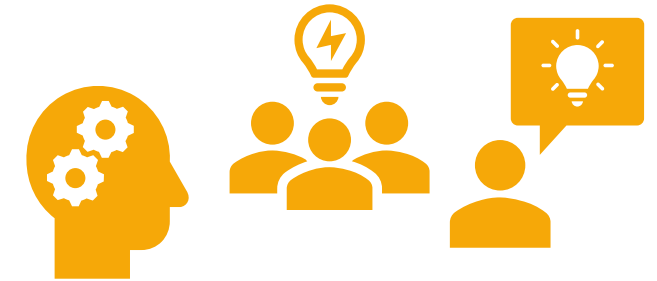
### Research Policy & Funding

- Long-term commitment
- Capacity building
- Basic & challenge-led research
- Funding call co-design
- ID/TD evaluation panels
- Diverse funding mechanisms



### Institutions & Disciplines

- Long-term commitment
- Capacity building
- ID/TD education
- Viable ID/TD career pathways
- ID/TD theme-based centres
- Informal encounters



### Attributes, Skills & Expertise

- Collaborative ethos
- Disciplinary expertise
- Integration expertise
- Stakeholder expertise
- Understandings of ID/TD

## Recommendations from SHAPE-ID

### 1 Co-design funding calls with AHSS experts

AHSS researchers and societal stakeholders need to be **consulted from an early stage** in designing funding calls and programmes.

**Call language** should be more **open and inclusive**, inviting a range of perspectives in addressing the topic and explicitly welcoming a broad range of contributions from AHSS and other stakeholders.



## Recommendations from SHAPE-ID

### 2 Provide seed funding to enable relationship and capacity building

Inter- and transdisciplinary research take **time and trust** and the AHSS disciplines in particular require support to build capacity.

Seed funding is needed to **build networks, consortia and relationships**, including with industry and societal stakeholders, laying the foundation for larger-scale collaboration.

## Recommendations from SHAPE-ID

### 3 Support a culture of IDR/TDR in higher education

Culture change takes time. Policymakers and funders can **support the development of inter- and transdisciplinary education and research in higher education institutions** to build capacity from undergraduate to postdoctoral and faculty level, training in “meta-skills” and developmental support for those in institutional governance roles.

## Recommendations from SHAPE-ID

### 4 Fund sustainable research careers, networks and infrastructures

To facilitate **knowledge-sharing and community building** across dispersed stakeholder groups, the European Commission should provide sustainable funding for IDR/TDR infrastructure, building on the SHAPE-ID toolkit to create a more dynamic, interactive and sustainable resource.

**Continuity of funding support** is also needed to enable researchers to build inter- and transdisciplinary careers, ranging from curiosity-led through to challenge-led research.



**Guided Pathways**



**Top Ten Tips**



**Case Studies**



**Downloadable Guides**



**FAQ**



**Guided Tours**

Find Resources By:

ROLE

GOALS

What is your role?



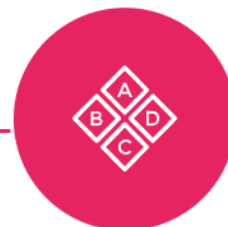
## Research Individual

Researchers at any career stage and from any discipline, with a focus on early career researchers



## Research Organisation

Research-performing organisations, including higher education institutions and research institutes, learned academies and other professional bodies with a research role



## Research Funder/Policy maker

National, international and supra-national governmental and non-governmental bodies that influence and develop policy and/or fund research



## Societal Partner

Stakeholders and practitioners, including those from society, enterprise and the creative arts, who want to collaborate on research projects



**Top Ten Tips for writing an  
inter- and transdisciplinary  
research proposal**

**Top Ten Tips for working in  
multi-stakeholder  
collaborations**

**Top Ten Tips for working with  
policymakers**

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**Top Ten Tips for evaluating  
inter- and transdisciplinary  
research**

**Top Ten Tips for developing  
inter- and transdisciplinary  
research funding programmes**

**Top Ten Tips for inter- and  
transdisciplinary academic  
careers**

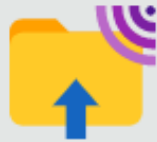
**Top Ten Tips for mentoring  
academic careers in inter- and  
transdisciplinary research**

## Achievements to date



8000

Toolkit users since July 2021



24  
Deliverables



3

Policy Briefs



7

Public Reports



6

Webinars engaging a wider audience in discussions around IDR/TDR and AHSS

900

Over 900 people listened back



33

Communication & Dissemination Key Performance Indicators



19

KPI's significantly exceeded



4

Journal Articles



1

Chapter in an edited report



2

Book Chapters

1

Edited Book



740 Stakeholders

Over 740 stakeholders registered on our stakeholder contact database



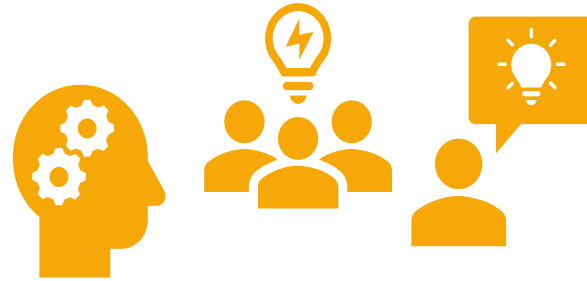
## Increasing understanding of Inter- and transdisciplinarity

- “... **convincingly demonstrated the value** of interdisciplinary and transdisciplinary research for addressing society's main challenges ...”
- “... **significantly advanced knowledge** in increasing understanding of inter- and transdisciplinarity ...”



## Raising awareness of AHSS integration

- “The project has convincingly demonstrated that **enabling AHSS integration requires a widespread change in the science system**, from how policy is made to how science is **funded**, how researchers are **trained** and how their careers are **evaluated** by universities and funders alike.”



## Creating Capacity for Change

- “The Consortium's **conceptual model for maximising IDR/TDR Impact** on Society is excellent.”
- “The project has **built innovation capacity** by evidencing, validating and showcasing the value of IDR/TDR to address global challenges in a wide range of areas.”





## Influencing Research Policy & Funding

- “... provided a **set of actionable recommendations and resources** most relevant to what policymakers and funders can do ...”
- “The resulting Consortium **recommendations are very sensible, deserving careful consideration by policy makers** ...”

**The ‘quality of the work produced is world class, positioning Europe as a leader in this area’.**



EU-13 stakeholder  
engagement



BREXIT



COVID-19



Toolkit  
sustainability



1. Support our call to **embed the SHAPE-ID toolkit under the EU's HE framework.**



2. **Share the SHAPE-ID toolkit widely** with your networks to embed SHAPE-ID recommendations and resources in programmes.



3. **Help us sustain the toolkit** by sharing potential case studies and IDR/TDR resources.




4. **Use the toolkit!** E.g. it in your training and capacity building efforts with your research community, or updating policies and procedures to foster an IDR/TDR culture.

***A Five Year Programme*** - Human+ is a five-year international and interdisciplinary fellowship programme that will conduct ground breaking research that addresses human centric approaches to technology development.

***A Unique Approach*** - The programme will create a unique research and training space that integrates expertise and insights from the arts, humanities and computer sciences as well as real world scenarios from industry and enterprise.

***A Cohort of Experienced Fellows*** - Human+ will attract 18 world leading researchers who understand technology as well as humanistic principles, to conduct two-year postdoctoral research fellowships in Ireland.

***A Truly Interdisciplinary and Intersectoral Programme*** - Supported by the prestigious European Commission (EC) Horizon 2020 Marie Skłodowska-Curie COFUND Action, Human+ is led by the Trinity Long Room Hub Arts and Humanities Research Institute and ADAPT, the Science Foundation Ireland Centre for Digital Content Innovation at Trinity College Dublin. The programme is further supported by unique relationships with HUMAN+ Enterprise Partners who co-fund the fellowships and provide a unique perspective.



***"The fundamental issues that we face today cannot be solved by one discipline, industry or approach alone"***

## Thank You



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