

Ecosistemas de innovación de Cuádruple Hélice - Hacia una gobernanca transformadora

Presentación de apertura,
27 Noviembre
Toñi Caro, Eoh-for-Good

Toñi Caro, PhD



25 years of internationalisation in the research and innovation (R&I) field have carved my innate ability to boost multi-stakeholders' collaboration and ecosystem building. Being a pioneer in the social innovation and impact arena in Spain, I have a track record of analysing, testing, networking and hands-on impact driven initiatives that equip me to drive systemic and organisational processes of change. These are proving crucial and urgent to translate R&I results into tangible development targets.

Ideator and leader of Eoh-for-good – professional & personal passion

Associate Professor & Director of the International Research Project Office (VIU, ES)

Senior Researcher (i2CAT Foundation, ES) – Digital Society Technology Unit

Founding member of MAVERICKS Advancing Higher Education – a group of independent advisors in Higher Education

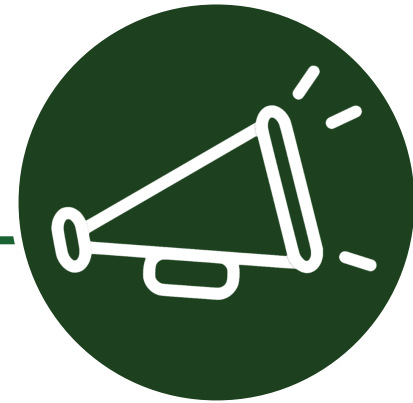
European Commission (Horizon Europe) – Evaluation Expert

Member of the GaragErasmus Ethics, Disciplinary and Private Relations Committee

Member of the Board of Directors of the European School of Social Innovation

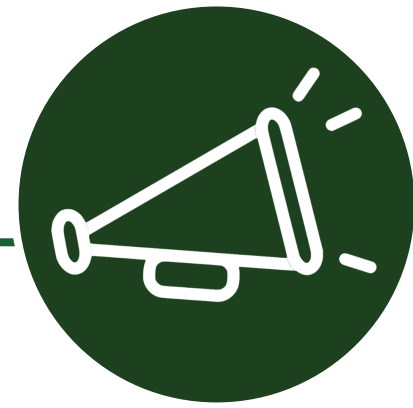


WHAT



We are all in the same boat. We all need to contribute in a decisive and conscious manner to the profound transitions we are immersed in.

WHAT



Research and innovation is not linear. We need to choose the more complex, but right path, as the simple and easy way is driving most of the innovations to the valley of death.

SYSTEMIC VISION

Towards a triple Transition



Pursuing a “One for All, All for One” Triple Transition:
Social, Green, and Digital

- Book chapter:
https://link.springer.com/chapter/10.1007/978-3-031-11065-8_1



MUSKEUTEERS
4 a JUST Triple Transition



Digital transition

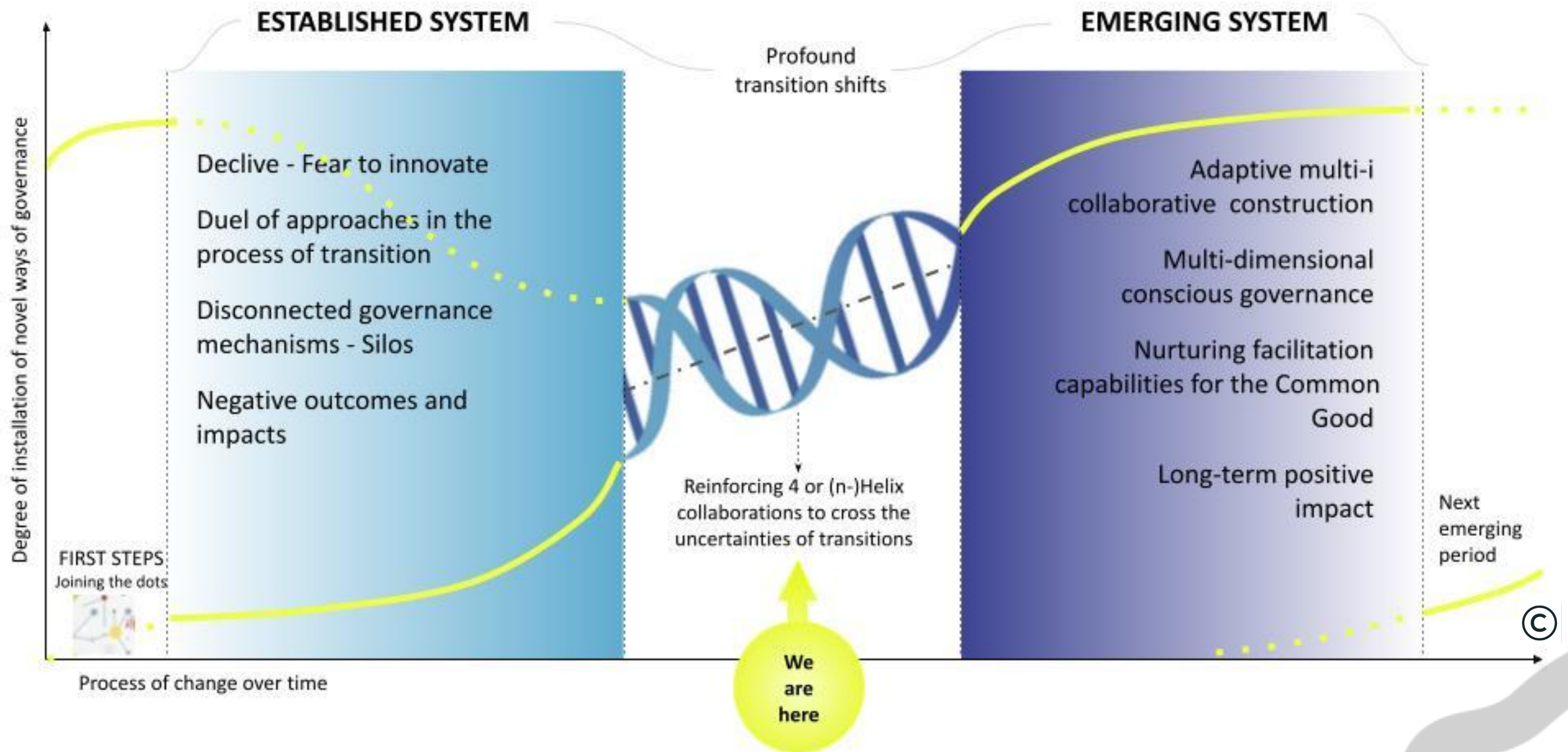


Social transition



Green transition

WHY



How

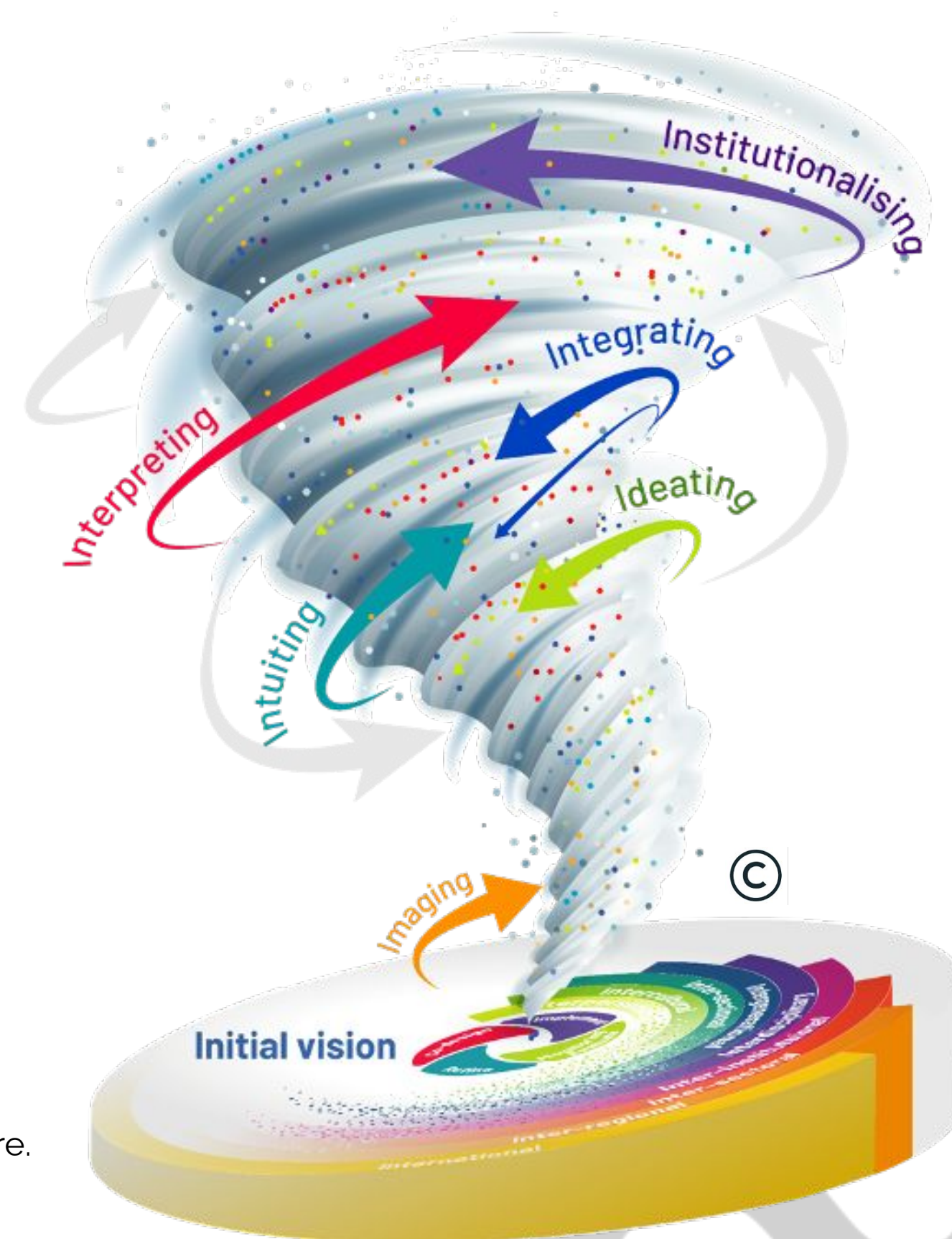
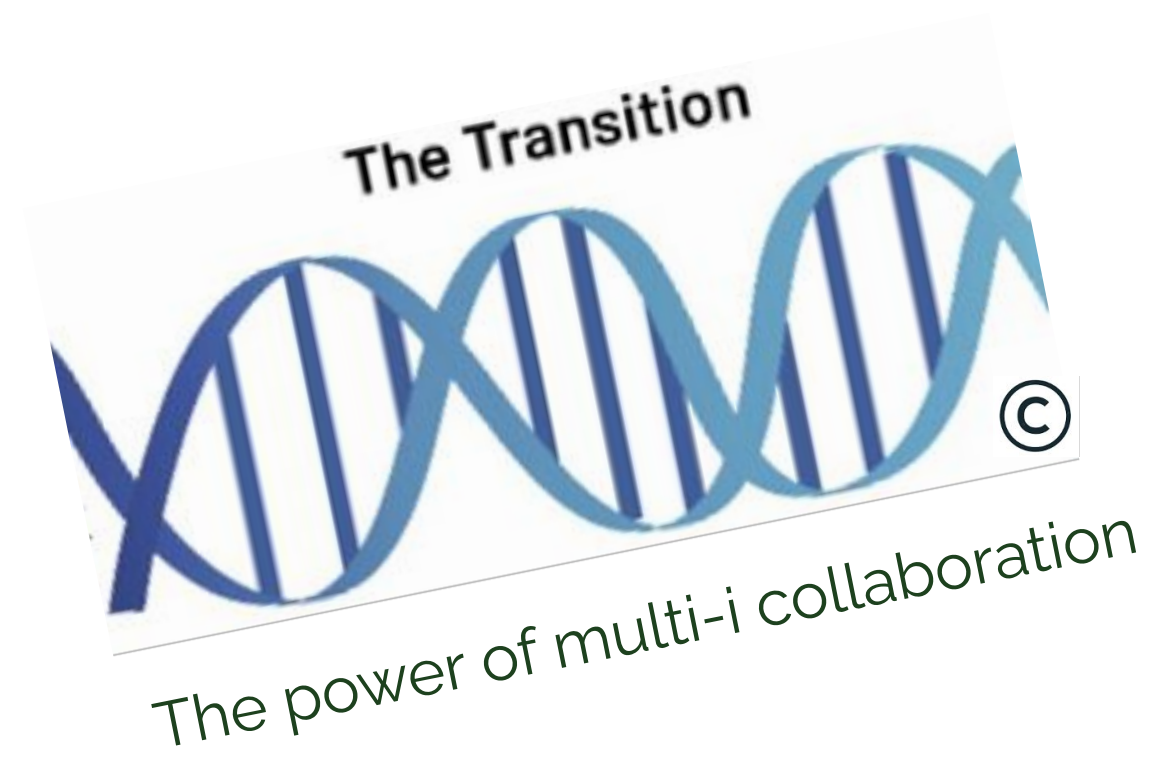


The crucial role of Living Labs and Social Innovation

Everything starts with an idea at the basis of the innovation process

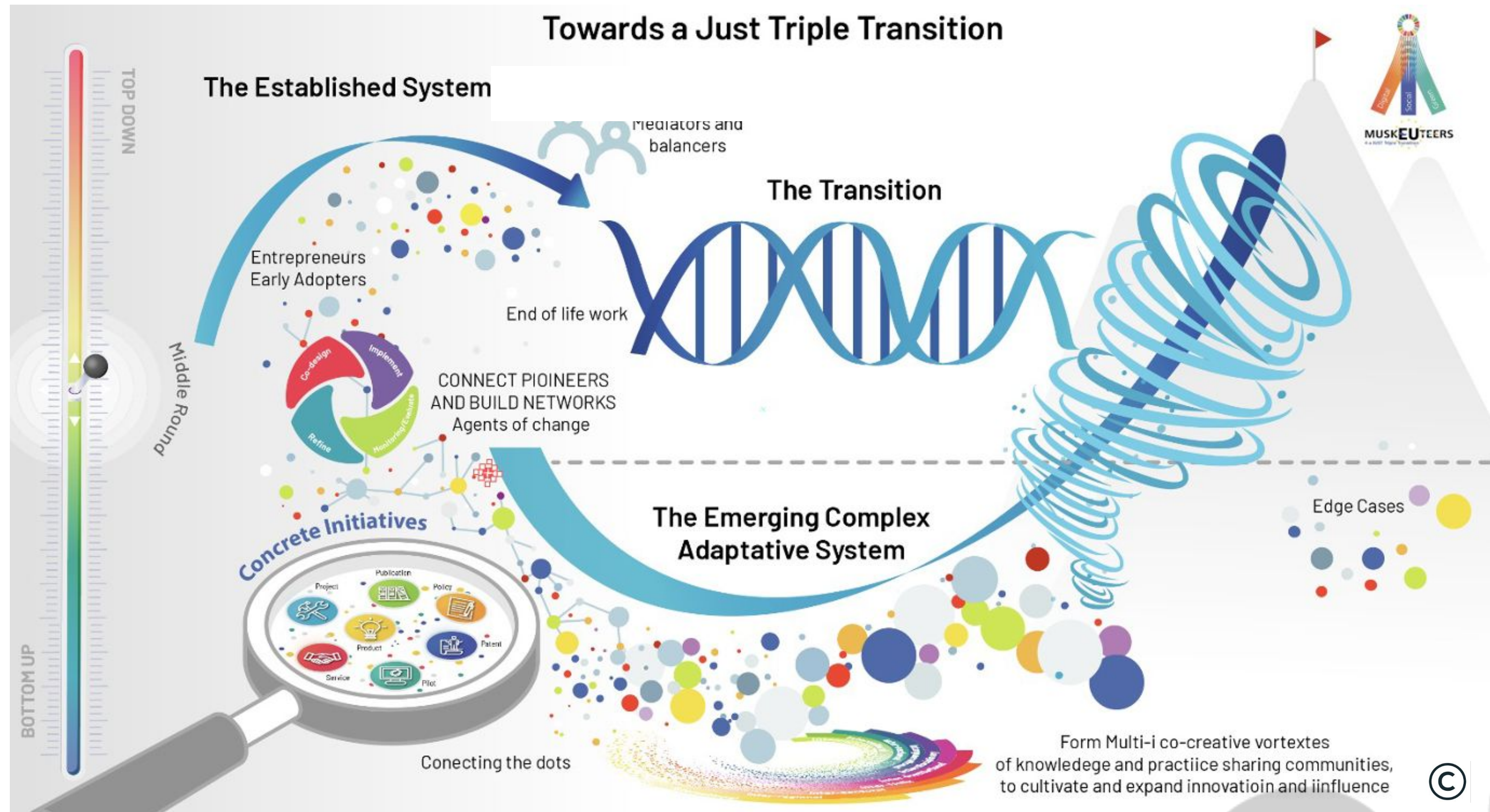
Caro-Gonzalez, A. (2023). Transformative Governance for the Future. Navigating Profound Transitions, SpringerBriefs in Business. DOI: 10.1007/978-3-031-43132-6. Available at: [Eoh for good BOOK!](#)

Multi-i Co-creative Governance Tornado



Caro-Gonzalez, A. (2023). Transformative Governance for the Future. Navigating Profound Transitions, SpringerBriefs in Business. DOI: 10.1007/978-3-031-43132-6. Available at: [Eoh for good BOOK!](#)

Navigating towards a Just Triple Transition





Conclusions

- This agenda requires an unprecedented collaborative effort to address THIS 'one for all, all for one': JUST TRIPLE TRANSITION: climate, digital and social!
- This effort demands that EACH OF US overcomes our fears to change and takes the sloppy path

No single actor, single country, single sector... has the solution to all these challenges, on the contrary, everyone can contribute to its solution!

Let's unite our citizens' wills in a more decisive and conscious way towards the **TRANSFORMATIVE GOVERNANCE TRANSITION!**

La innovación social y el impacto en el Cluster 1 – Horizonte Europa

Sesión participativa,
27 Noviembre
Toñi Caro, Eoh-for-Good






is happening now?

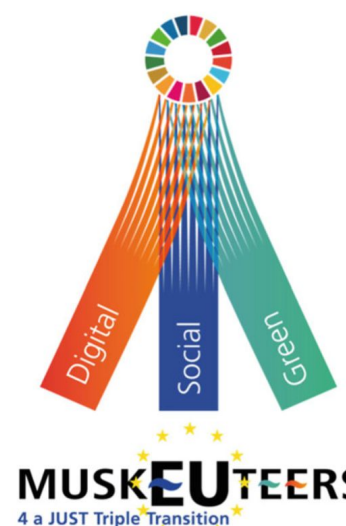
WHAT



There are different
types of
transitions and
impacts

<https://n9.cl/rfki4>

 TRANSITIONS PERFORMANCE INDEX			
 ECONOMIC TRANSITION Making the economy work for prosperity	 SOCIAL TRANSITION Focusing on fairness and inclusion	 ENVIRONMENTAL TRANSITION Supporting the European Green Deal objectives	 GOVERNANCE TRANSITION A new push for democracy
Education Government expenditure in education per student (% of GDP per capita) Internet users (%) Proportion of people with ICT skills (composite)	Health Healthy life expectancy at birth (years)	Emissions reduction Gross greenhouse gas emissions (tonnes per capita)	Fundamental rights Voice and accountability index Rule of law index
Wealth Gross domestic product (GDP) per capita, current dollars (PPPS)	Work and inclusion Employment rate of population 20-64 (%) Employment-to-population ratio gender gap 25+ (%) Gross enrolment ratio, pre-primary, both sexes (%)	Biodiversity Terrestrial key biodiversity areas (KBAs) protected (%) Freshwater KBAs protected (%) Pesticides use per area of cropland (kg/ha)	Security Homicide rate (per 100 000 inhabitants)
Labour productivity and R&D intensity Output per worker (2011 constant GDP PPPS) Gross expenditure on R&D (% of GDP)	Free or non-remunerated time Free or non-remunerated time (%)	Material use Resource productivity (PPPS per kg) Material footprint (tonnes per capita)	Transparency Corruption Perceptions Index Basel Anti-Money Laundering Index
Industrial base Gross value added of manufacturing (% of GDP) Patent families filed in two offices (per billion PPPS GDP)	Equality Gini coefficient of disposable income, after taxes and transfers Income share held by the poorest quintile (%)	Energy productivity Energy productivity (PPPS per koe)	Sound public finances General government gross debt (% of GDP)



WHAT

is happening now?



There are no clear
rubrics for evaluating
impact

NO
RUBRICS

WHAT

is happening now?

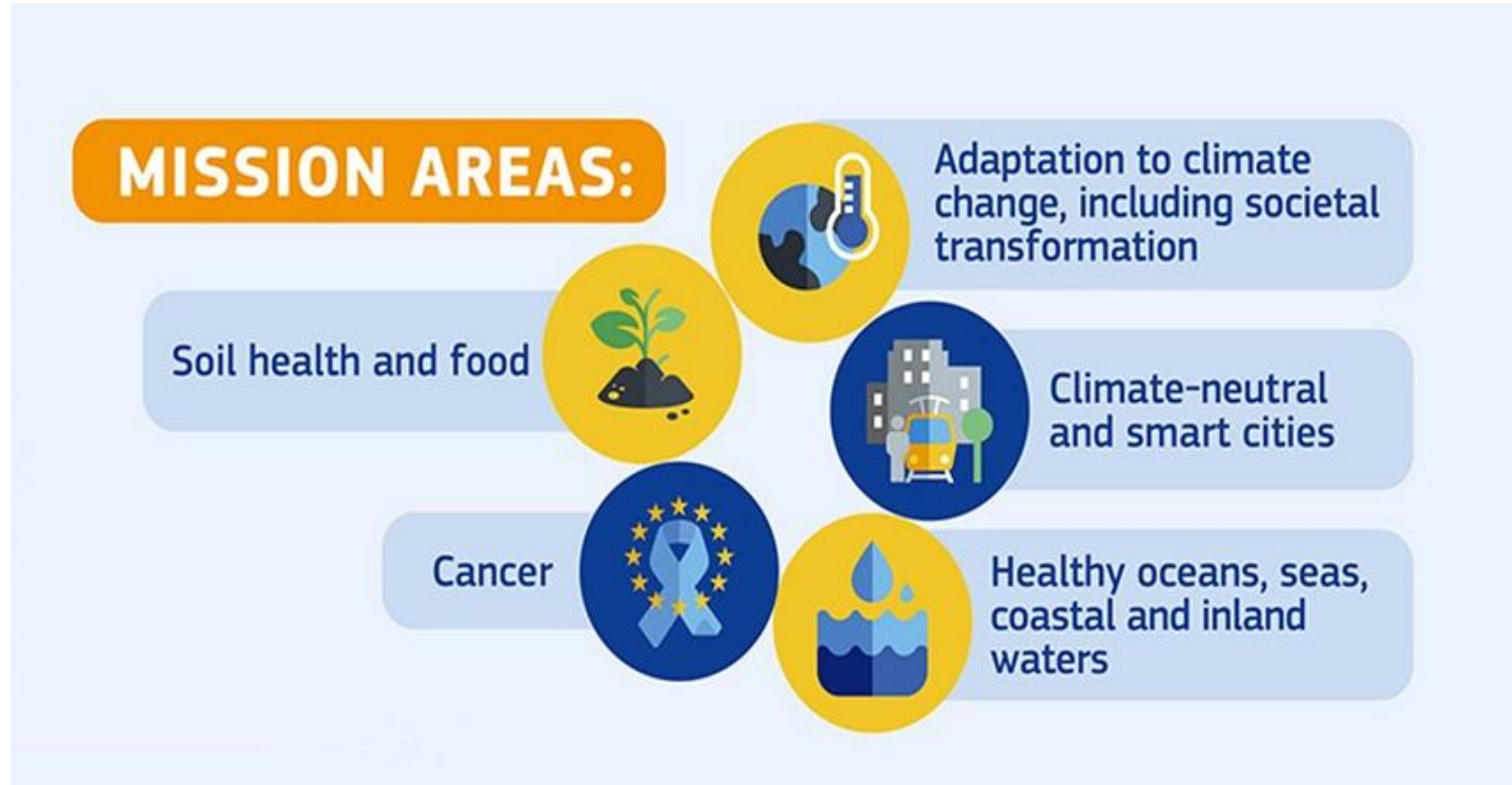


The INTERDISCIPLINARY
PARADOX

We must **work by challenge**, not by
discipline

PARADOX

HOW



<https://horizoneurope.ie/horizon-europe/missions-in-horizon-europe>

- SYSTEMIC APPROACH
- CO-CREATION & ENGAGEMENT
- ALIGNMENT OF CURIOSITY – CHALLENGE-PRIORITY DRIVEN R&I

by addressing complex challenges

HOW



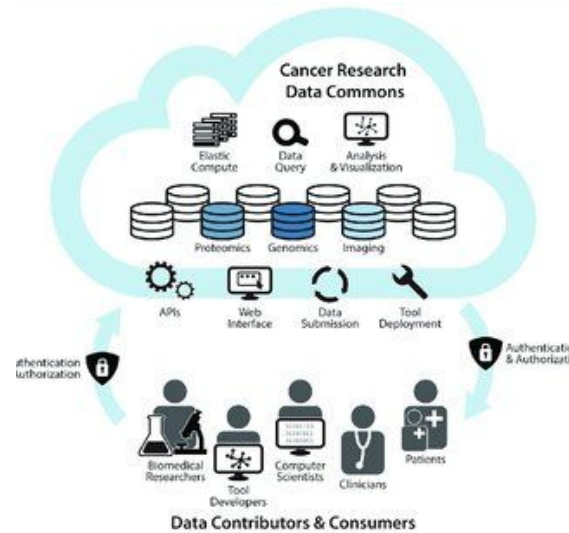
* The European Institute of Innovation & Technology (EIT) is not part of the Specific Programme

When the Triple Transition and the Quadruple Helix meet in complex challenges

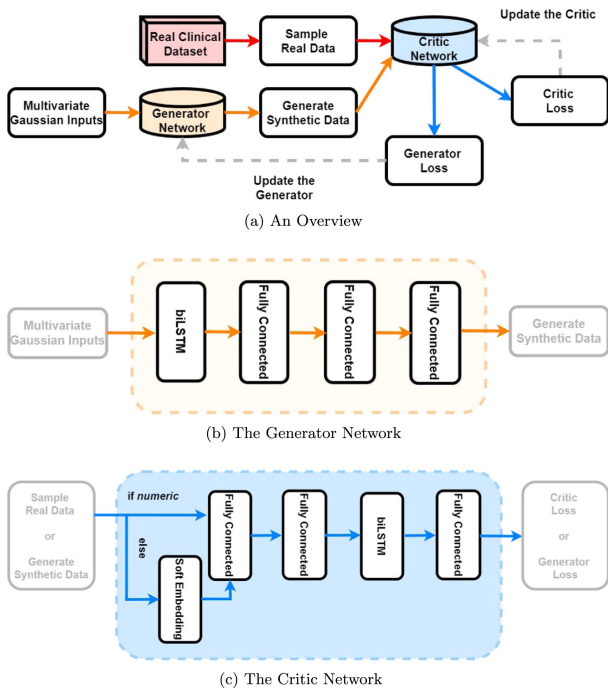
Topics in Pillar 2 – Cluster 1



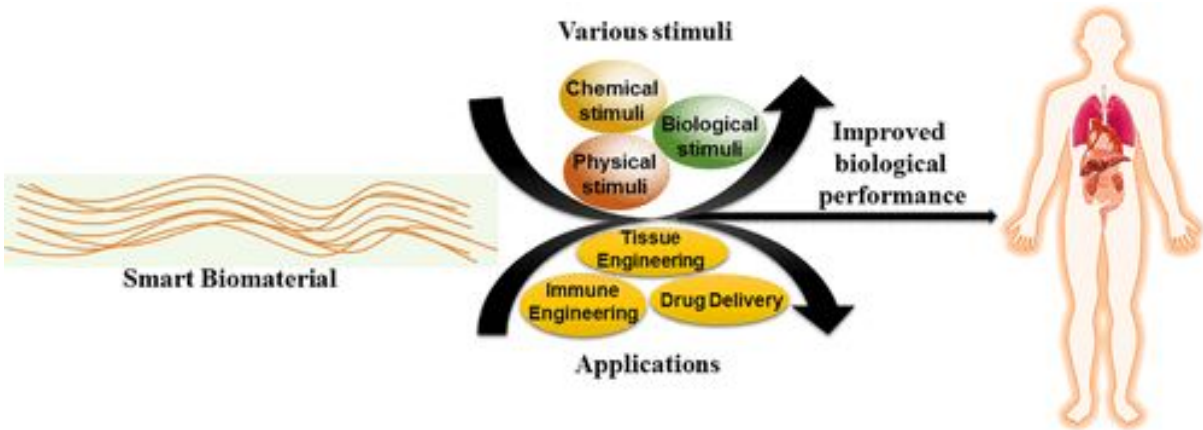
Bio-printing of living cells for regenerative medicine



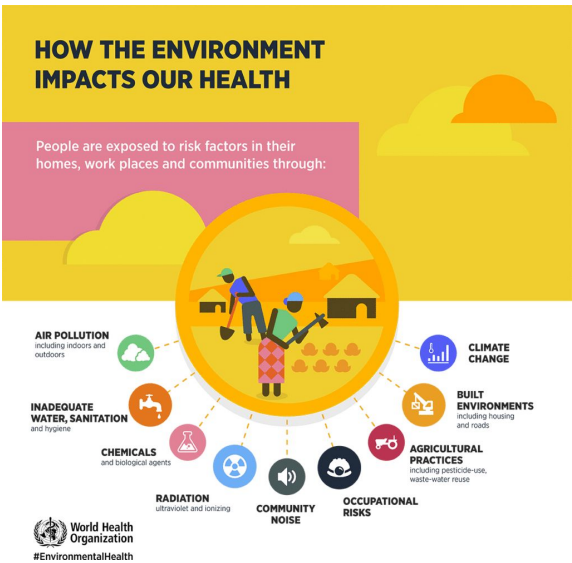
Personalised prevention of non-communicable diseases - addressing areas of unmet needs using multiple data sources



Maximising the potential of synthetic data generation in healthcare applications



Advanced biomaterials for the Health Care (IA)

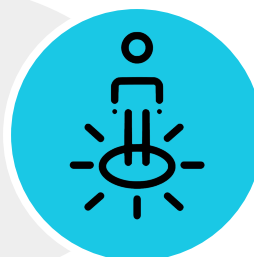


The role of environmental pollution in non-communicable diseases: air, noise and light and hazardous waste pollution

WHO

Human-centred design process

personalised, involvement, alignment with people's desires and needs, patients empowerment, openness with professionals



Integration of different types of actors

Patients, citizens, health professionals, providers, health authorities, researchers and innovators from 4H ecosystems



Adoption of new approaches and perspectives on child and adolescent contexts

(Education, leisure, social innovation, healthcare, medical technology, media and citizens)

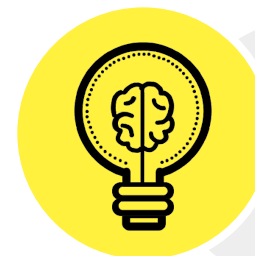


Funded activities, improving governance and proactive decision-makers

with new evidence, methods, tools and technologies. All funded activities should have a patient-centred approach



Inclusion of SSH (Social Sciences and Humanities) expertise



Importance of the EIC (strategy and implementation)

EIC Community Platform



How to address the impact of your research and/or innovation project?

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IMPACTS

Broader long-term effects on society (including the environment), the economy and science, enabled by the outcomes of R&I investments (long term). It refers to the specific contribution of the project to the work programme's expected impacts described in the destination. Impacts generally occur sometime after the end of the project.

Example: The deployment of the advanced forecasting system enables each airport to increase maximum passenger capacity by 15% and average passenger throughput by 10%, leading to a 28% reduction in infrastructure expansion costs.

OUTCOMES

The expected effects, over the medium term, of projects supported under a given topic. The results of a project should contribute to these outcomes, fostered in particular by the dissemination and exploitation measures. This may include the uptake, diffusion, deployment, and/or use of the project's results by direct target groups. Outcomes generally occur shortly after the end of the project.

Example: 9 European airports adopt the advanced forecasting system demonstrated during the project.

RESULTS

What is generated during the project implementation. This may include, for example, know-how, innovative solutions, algorithms, proof of feasibility, new business models, policy recommendations, guidelines, prototypes, demonstrators, databases and datasets, trained researchers, new infrastructures, networks, etc. Most project results (inventions, scientific works, etc.) are 'Intellectual Property', which may, if appropriate, be protected by formal Intellectual Property Rights.

Example: Successful large-scale demonstrator: trial with 3 airports of an advanced forecasting system for proactive airport passenger flow management.

How



Avoid window dressing!

Present well-thought real impactful R&I outcomes
Based on measurable indicators (ex ante / ex post)
Address ALL policies and strategies priorities!

Co-creation exercise

How to address the impact of your research and/or innovation project?

- 1. **Define together** the specific needs that lay behind your selected topic.
 - How can we identify them? Make a first brainstorm. Define the strategy and division of tasks to plan the search for the state of the art.
 - Which policy documents, academic papers, etc. can back the justification of the needs in the proposal?
- 2. **Thinking together:**
 - **What** impact does or should our research have? **What for**?
 - **How** can we take into account all dimensions of impact?
 - **What** would be the expected outcomes? **Take into account** the difference between results & outcomes in this research
 - **Who** is the target audience and **how** can we work with stakeholders?

SCIENTIFIC NEEDS	EXPECTED RESULTS	DISSEMINATION, EXPLOITATION AND COMMUNICATION MEASURES
TARGET GROUPS	OUTCOMES	IMPACTS

thank you

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eoh **for good**

Leading Systemic
Transformation for Common Good