



MISSION LED LEARNING FOR SUSTAINABLE COMPETENCE DEVELOPMENT

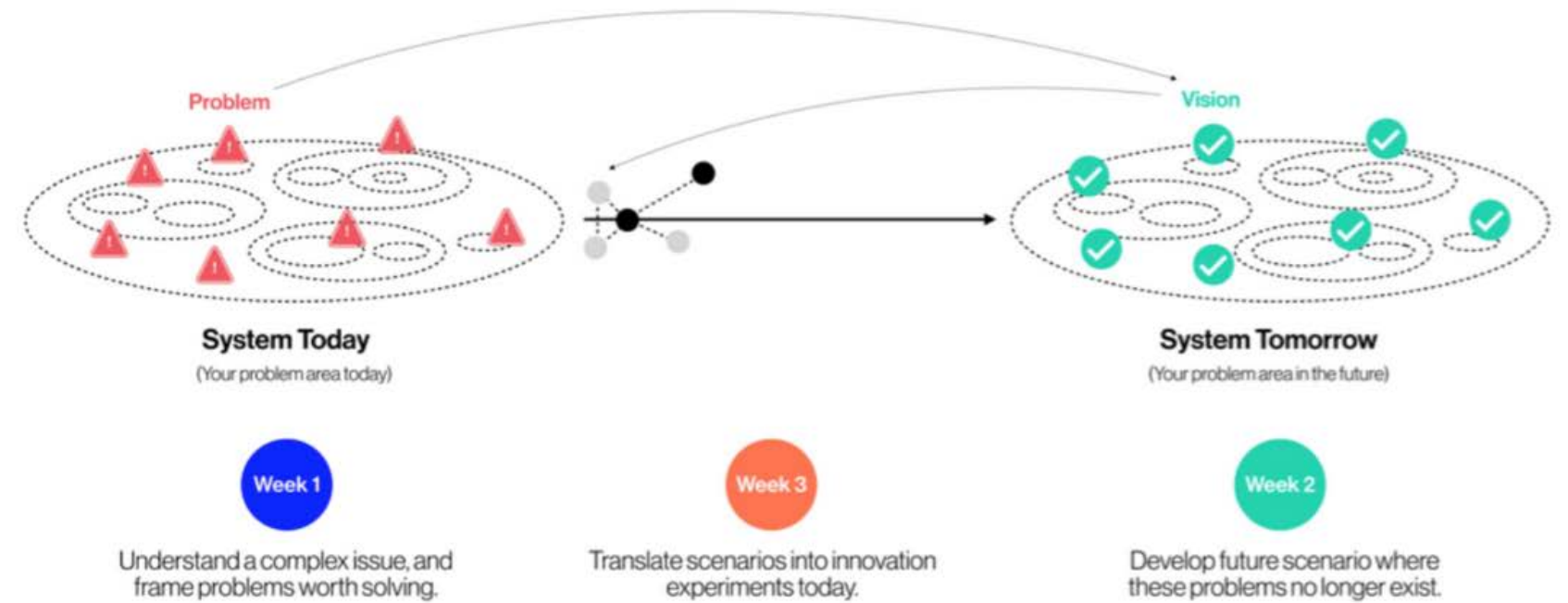
The Case of Digital Futures Lab/EUlab

ESD Forum 2023, Dec 01

Dr Annmarire Ryan Kemmy Business School, University of Limerick

www.eulab.org

Digital Futures Lab — The Process



DFL->EULAB

DFL running at UL 2020-to date - 12 credit module on MSc programmes at Kemmy Business School
Is the base module for the EULab KA2 project

EULAB

BACKGROUND



EULab is an Erasmus+ funded, interdisciplinary, immersive programme developed to enable students to work on place-based wicked problems.

Students' learning journey:

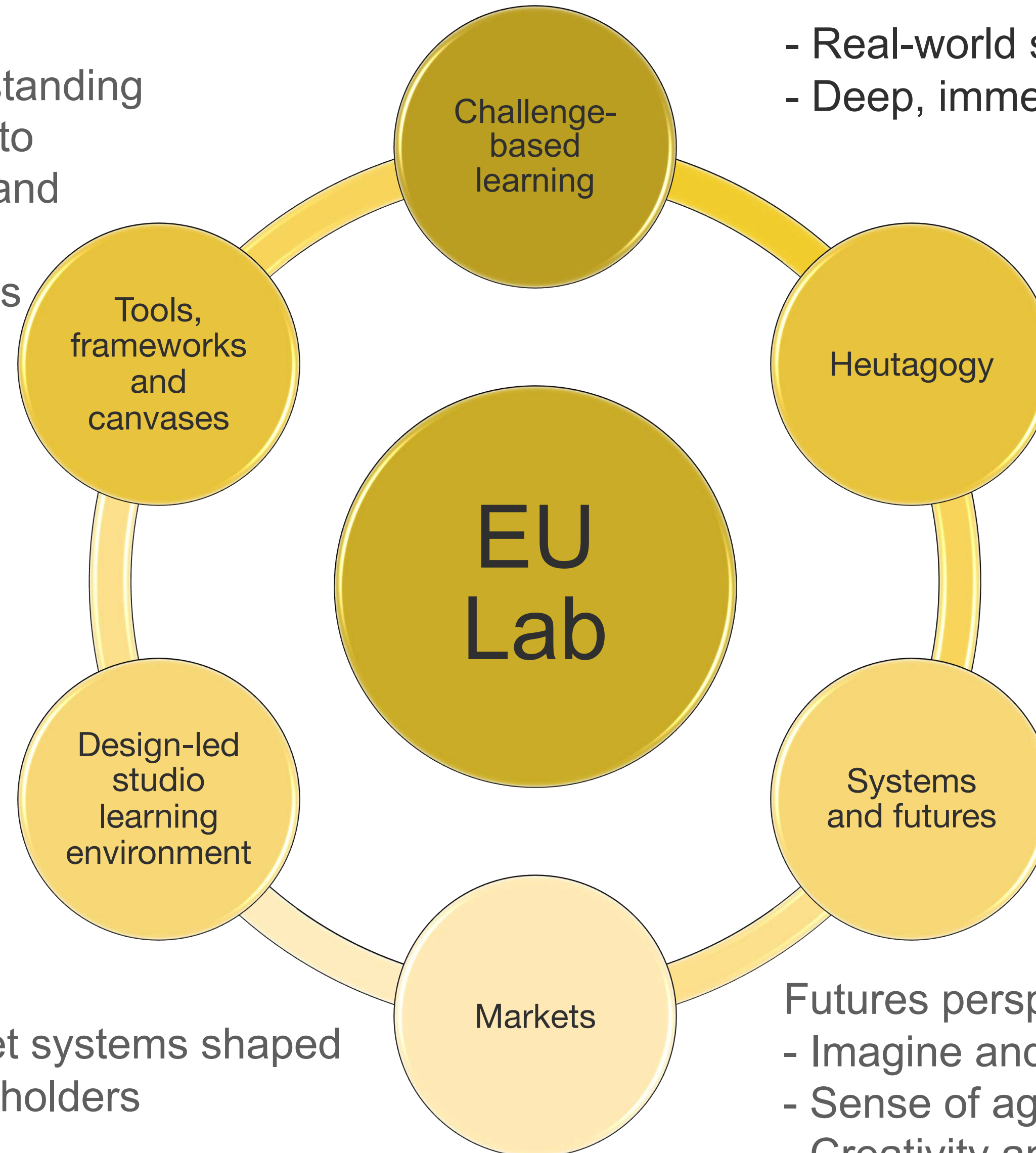
- 1) Understand current systems
- 2) Imagine future systems
- 3) Identify leverage points and design interventions to shape and realize future systems

EULAB

- Used to prompt imagination
- Framing tasks for a shared understanding
- Templates and canvases as tools to structure and facilitate the creative and problem-solving process
- Templates serve different purposes

- Collaborative, dynamic learning environment
- Emphasis on participant-led inquiry through hands-on, creative engagement
- Problem finding
- Bring the context into the room (localization)
- Iteration and reflection

- Constructed nature of market systems shaped and reshaped by actors/stakeholders
- Mission led learning



- Real-world sustainability challenges
- Deep, immersive and accelerated place-based learning

- Student-centred instructional strategy
- Emphasis on autonomy, capacity, and capability to self-determine learning
- Learners are problem finders
- Freedom and flexibility
- Less reliance on instructor as primary source of knowledge
- Life long learning

Systems thinking

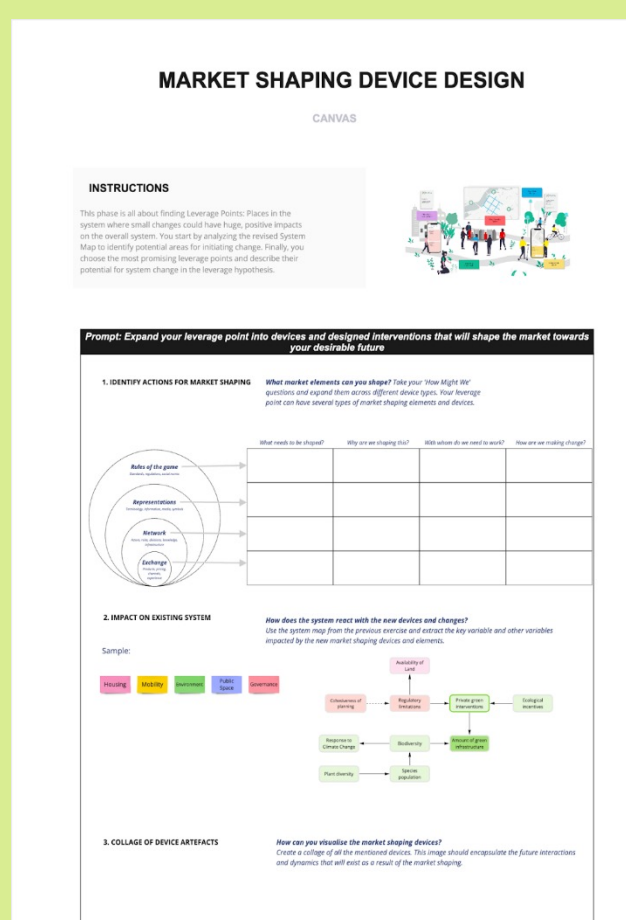
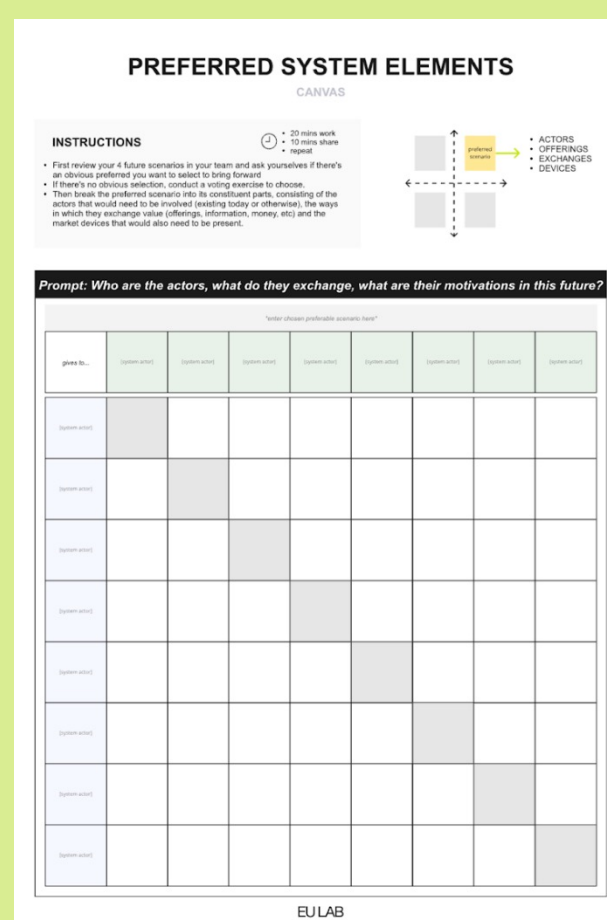
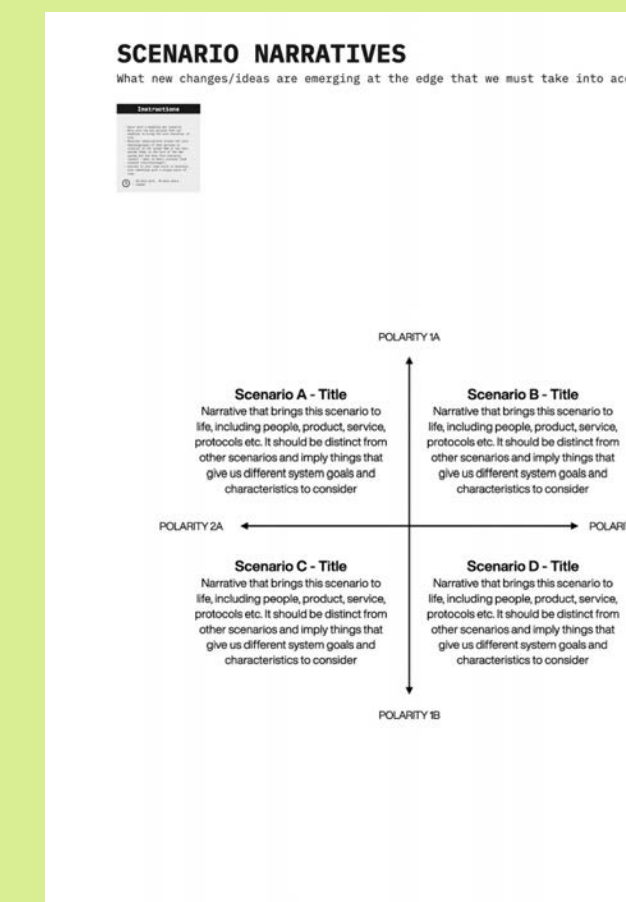
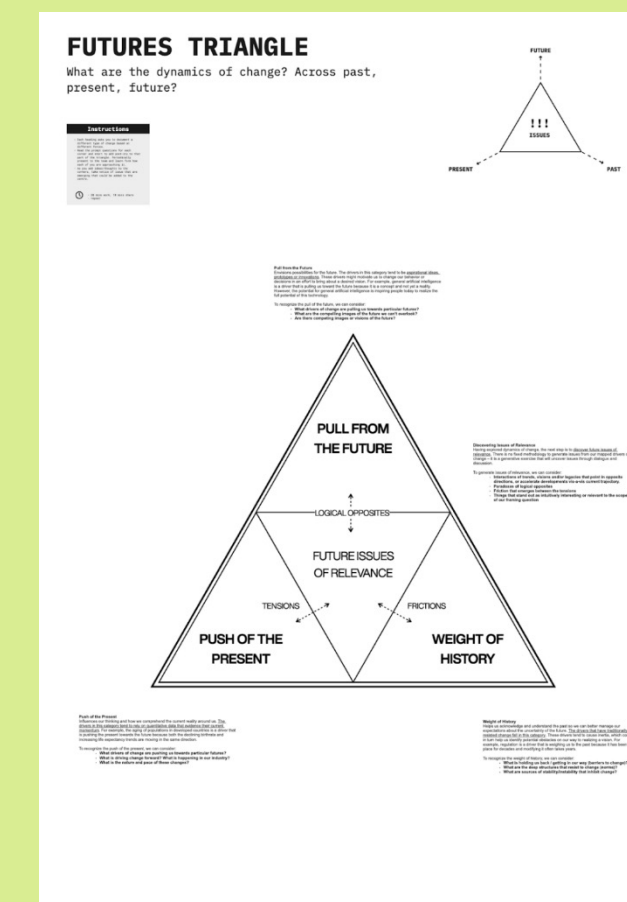
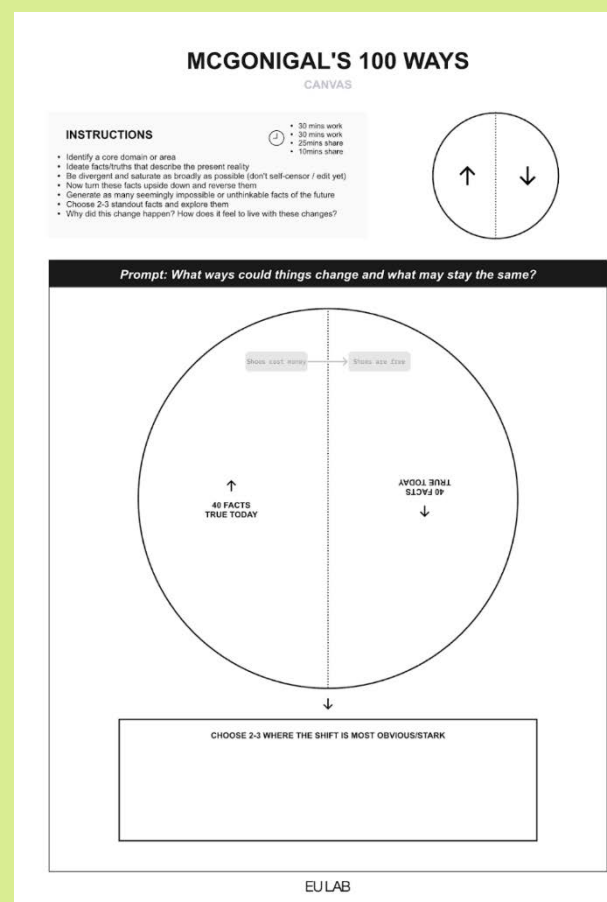
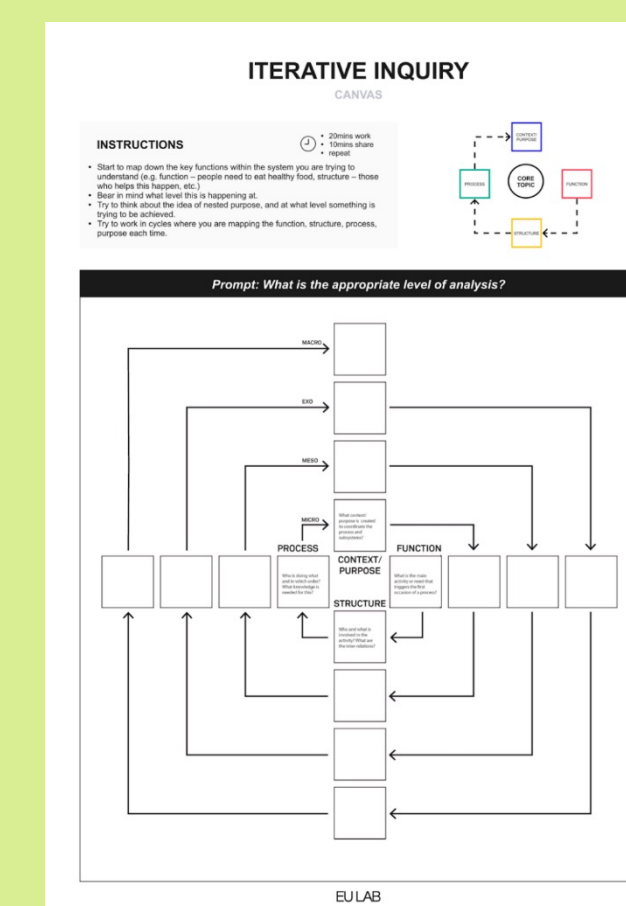
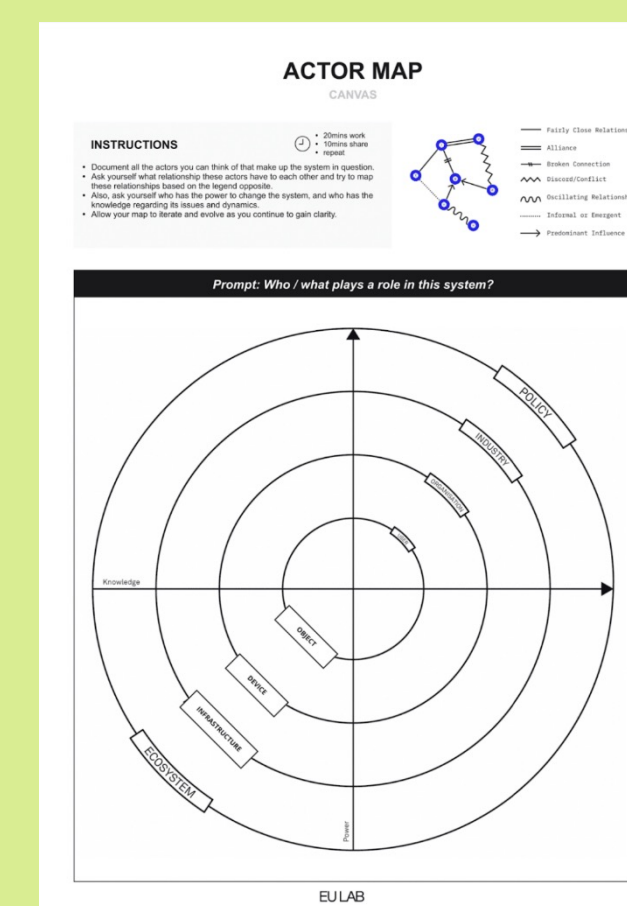
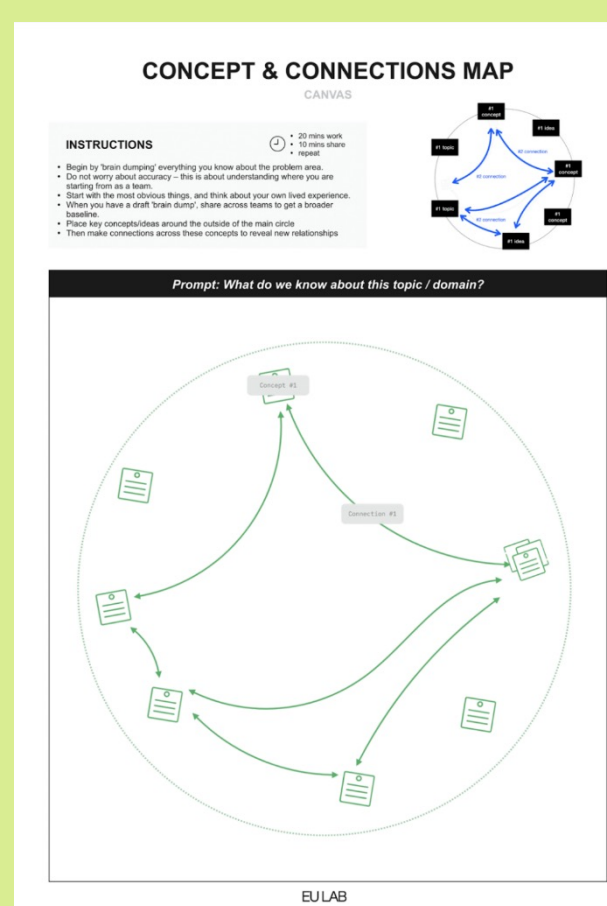
- Apprehend interdependencies
- Distributed nature of agency and action
- In search of upstream structural dimensions

Futures perspective

- Imagine and map possible futures
- Sense of agency to create change
- Creativity and imagination to envision alternative futures

TOOLS, FRAMEWORKS AND CANVASES

- Used to prompt imagination
- Framing tasks for a shared understanding
- Templates and canvases as tools to structure and facilitate the creative and problem-solving process
- Understand, imagine, design



EULAB MODALITIES

EULAB: 2 MODALITIES

Pilot 1 Virtual Exchange: Digital Futures Lab (DFL)

Designing a circular economy for Limerick

Virtual: Pre-lab

- 2 day sessions
- Intercultural collaboration training
- Digital preparation

Virtual: Main DFL Lab

- 3 weeks
- Digital teamwork environment
- Weekly kick-off, check-in and crit/review sessions

Virtual: Sharing

- Virtual conference
- Lab outputs, solution, roadmap
- Faculty, students and stakeholders

Pilot 2 Blended Mobility: EULab Nantes Winter School

Feeding our cities: developing sustainable, resilient and inclusive food systems

Virtual: Pre-lab

- 2 x half-day sessions
- Intercultural collaboration training
- Digital preparation

Face to face: Nantes Lab

- Immersive week
- Physical and digital teamwork
- Daily sharing moments

Virtual: Build the Future

- 3 weeks part-time
- Ideating and prototyping solutions
- Online meetings and presentations

Virtual: Sharing

- Virtual conference
- Lab outputs, solution, roadmap
- Faculty, students and stakeholders

EULAB

PRE LAB PREPARATION

(pre) EULAB inter-cultural training

02:01:23

Demander le contrôle Séparer Participants Conversation Réactions Autres

Caméra Microphone Partager Quitter

Conversation de la réunion

Annmarie.Ryan 11:12
yes that was i was thinking Jennifer

Jan Hermes 12/01/2023 (Invité) 11:09
Jack: is the politeness real, or just rhetoric?
I think directness or 'impoliteness' can also be rhetorical 🤔

ULStudent:JACK.HORAN 11:16
Important to try and avoid coming across as passive aggressive when giving feedback I think

Saisissez un message

- Virtual exchange curriculum plus inter/transdisciplinary working and self-determined learning
- Developing cross-disciplinary, cross-cultural competences to support learner engagement in the Labs
- Digital preparation
- Teams/Miro/Slack

3. Intercultural Collaboration

Step 0
Intercultural collaboration

Read before progressing
By the end of this workshop you should:
1. have established some working rules for your online meetings with your teams
2. have identified some good communication strategies for online intercultural collaboration
3. be aware of how misunderstandings and communication breakdown can happen in online intercultural contexts.

Step 1
Netiquette

Brainstorm 5 netiquette rules
Afterward discuss and rank top 5

Step 2
Common Concerns and Communicative Strategies

Concerns & Strategies to address

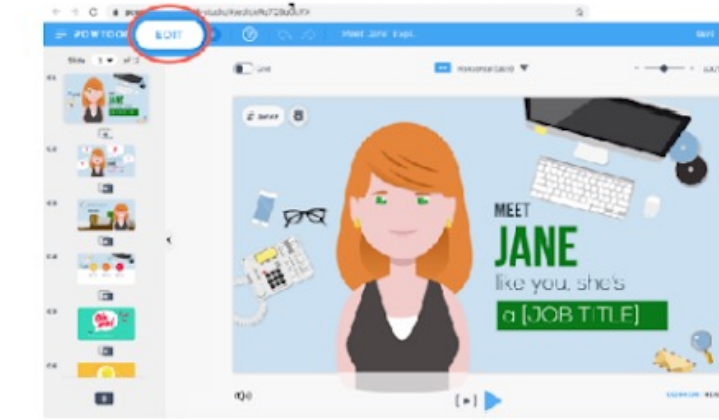
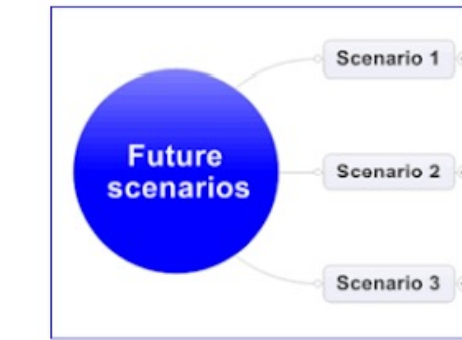
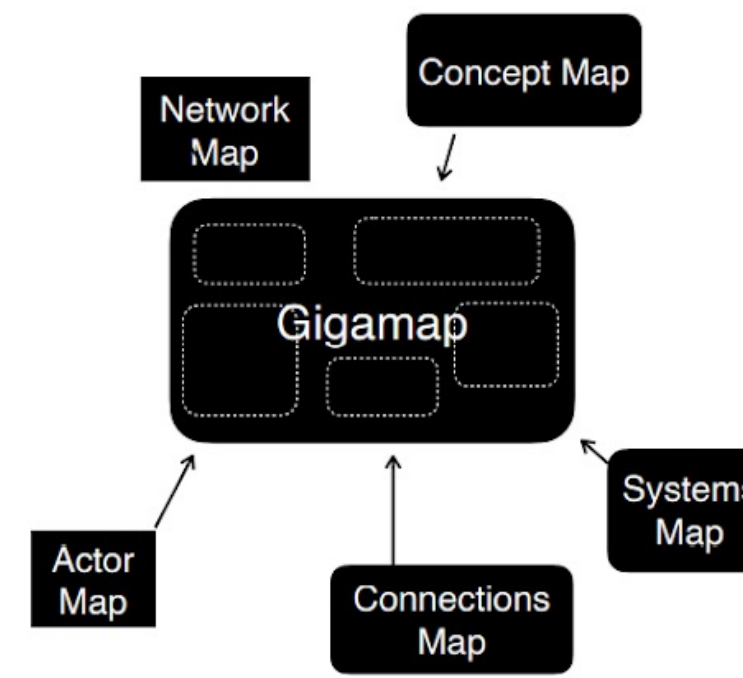
Step 3
Critical Incidents

Sample Critical Incidents Responses

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DFL VIRTUAL EXCHANGE

- Virtual environment as part of formal learning
- Teams/Slack/Miro
- Place-based Limerick focus
- Pods, teams, roles
- Weekly deliverables
- Assessment: process over outputs. Grades for intergroup support #teamxsupport
- Final presentations



WEEK 1 DELIVERABLE
GIGA MAP



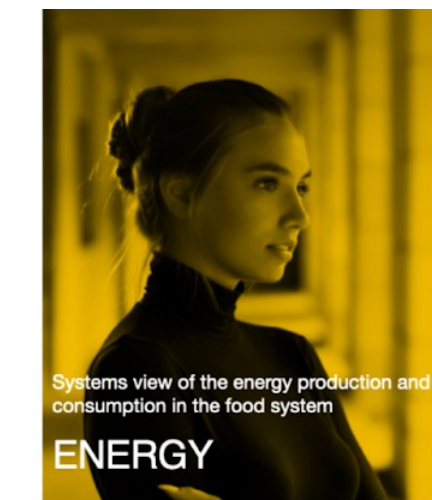
Purple Team Pink Team Red Team

miro.com
DLF22_Week 1_Health

miro.com
DLF22_Week 2_Health

miro.com
DLF22_Week 3_Health

WEEK 2 DELIVERABLE
FUTURE SCENARIO(S)



Green Team Lime Team Blue Team

miro.com
DLF22_Week 1_Energy

miro.com
DLF22_Week 2_Energy

miro.com
DLF22_Week 3_Energy



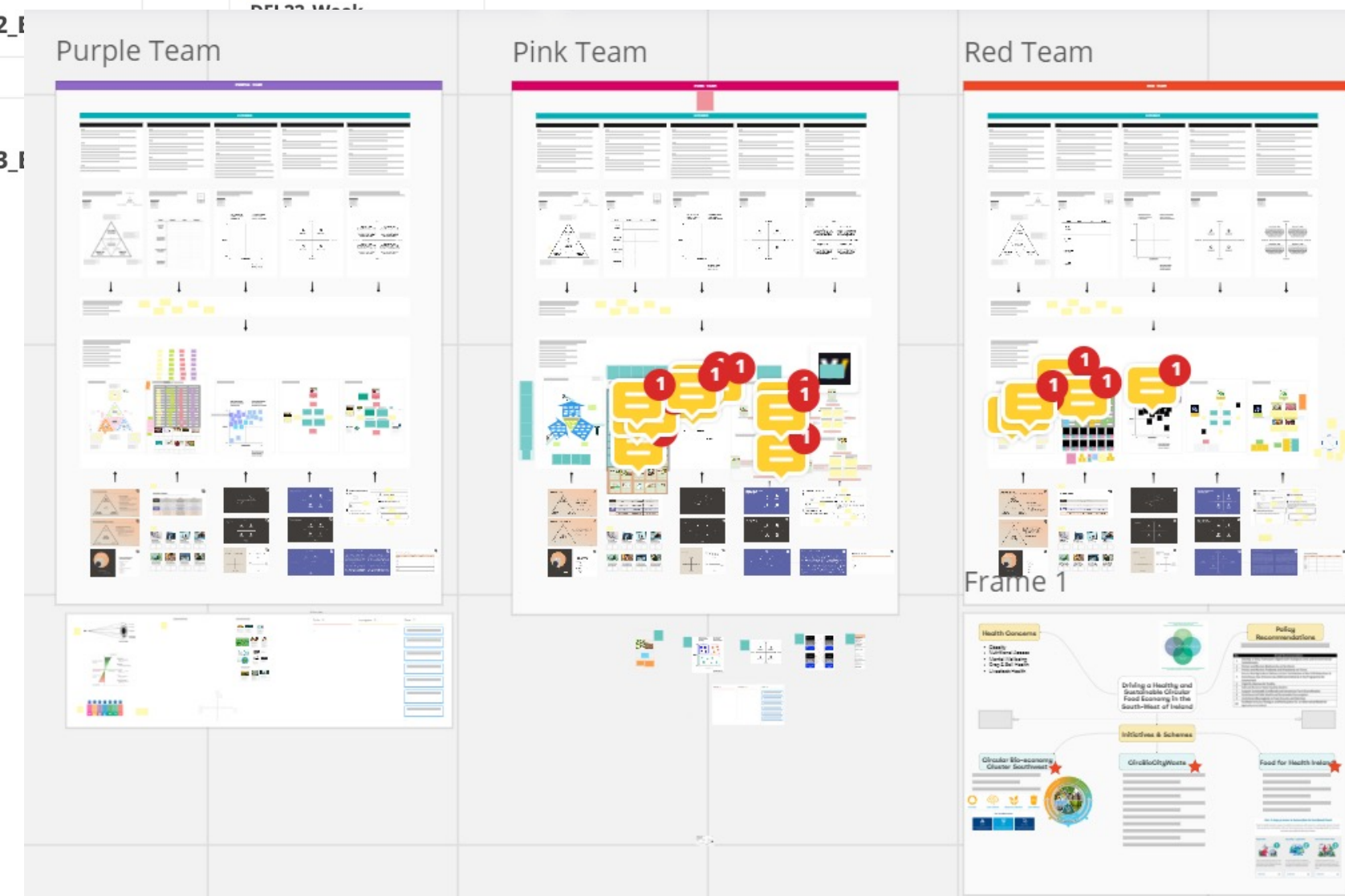
Gold Team Yellow Team Orange Team

miro.com
DLF22_Week 1_Environment

miro.com
DLF22_Week 2_Environment

miro.com
DLF22_Week 3_Environment

WEEK 3 DELIVERABLE
MARKET SHAPING MAP/NARRATIVE





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BLENDED MOBILITY ONSITE

- Place-based Nantes focus
- Physical and social space
- Immersive: stakeholder perspectives, visits, lunches
- Workspace: lego, mapping and design tools, post-its
- Online tools: Slack, Miro, Teams
- Virtual teamwork: Build the Future, ideating, prototyping, online coaching
- Final virtual presentations

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MODALITIES AT A GLANCE

Students

- Visiting students
- Nantes graduates
- Masters, Bachelors, MBA
- Voluntary/temporary

Stakeholder involvement variations

EU Lab features	Pilot 1 Virtual Exchange	Pilot 2 Blended Mobility
Programme/module home	Exchange student volunteers joined existing 12 credit DFL module at UL	New winter school temporary module created at Audencia. All student volunteers
Number of home & exchange students	54+4	5+8
ECTS Credits or equivalent	Equivalent to 12 credits	Equivalent to 6 credits
Time commitment	3 weeks full time	1 week full time, 3.5 weeks part time
Assessment	70% teamwork (40% process, 20% output, 10% support) 30% individual diary	Pass/fail
Stakeholder engagement	1 external stakeholder engaged other groups. Twitter	Multiple visits and invited stakeholders

PARTICIPANT FEEDBACK

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STUDENT FEEDBACK (1/2)

“I liked brainstorming sessions we had, where in our group we were trying to figure out what to do, how to do it, and how to use tools [introduced at EULab].” *Nantes Lab participant*

“the way things are done was what's stuck with me” *DFL visiting participant*

“I had a great experience even though I was abroad, I think I was the only one in my group that was abroad because this is different from other hybrid courses and different courses. It was meant to be done that way. You're alone, but together the tools that will be presented - the way it's done - you don't feel like you're by yourself” *DFL visiting participant*



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STUDENT FEEDBACK (2/2)



“EULab really gives you tools to create change in any situation in any organization. It sort of like enlightens you to **constantly ask questions** and everybody knows that OK change happens continuously and the future is changing really radically” *Nantes Lab participant*

“Visiting concretely the places versus just reading [about] them in articles was a game changer. Rarely do we get attached to do such things when we are learning. So yeah, it made it a different impact on your memory, and you sort of feel a tasty touch here, and **you are there in the moment with those stakeholders** for instance when we were discussing about how the urban farming is happening.” *Nantes Lab participant*

An aerial, high-angle photograph of a large, modern building with a glass facade. The building's structure is visible, showing a grid of columns and beams. A walkway or bridge with a railing runs across the middle of the frame, with a person walking on it. The overall color palette is dominated by blues and greys, with some greenery visible at the bottom.

EULAB

EDUCATOR FEEDBACK

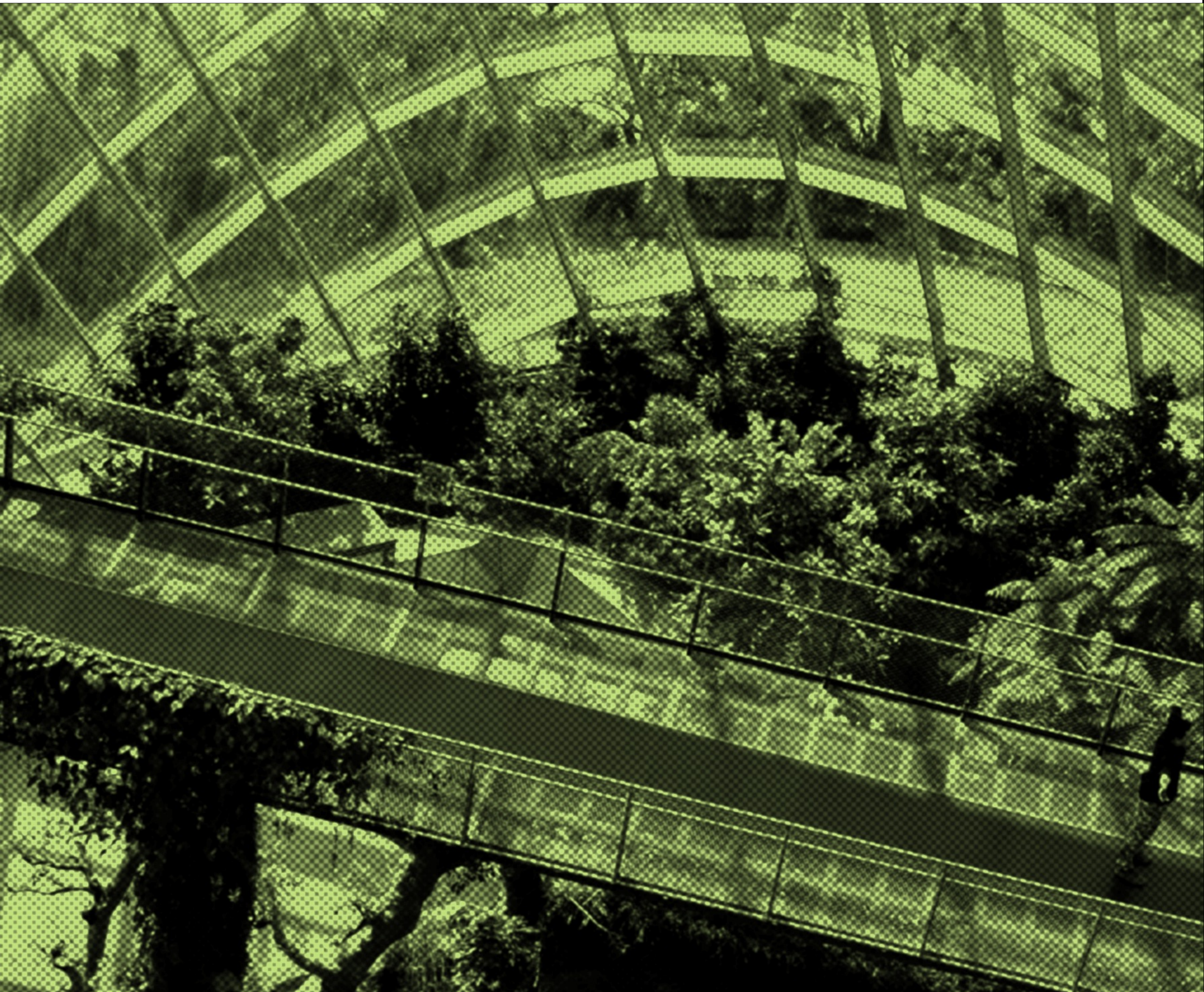
“To me, [EULab] is about fellowship, learning, and **co-learning with colleagues, students, and the place**” *Nantes Lab educator*

“You can teach a better understanding of SDGs, if you teach them in a **specific place**, where participants can see the initiatives, and you can get inspired by the place and by the people” *Nantes Lab educator*

“having these studio-based kind of approaches where you **create the environment where the people can come together and collaborate**, it trains your gut to instinctively start to use futures thinking and use systems mapping and use these kind of tools going forward, and active participation” *DFL mentor*

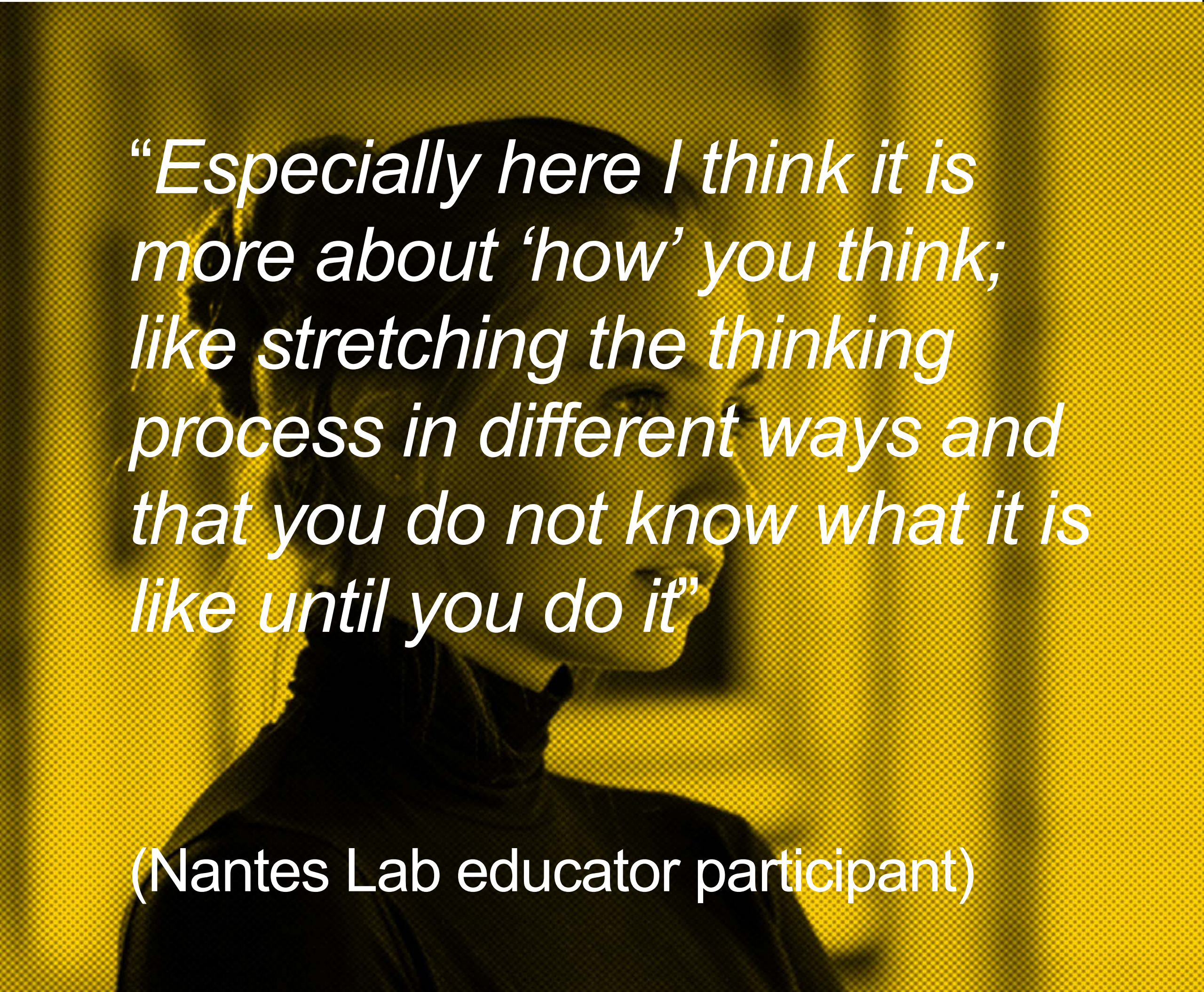
“gives you the power to look at the bigger scheme and envisage how to **understand the system, map it and then be able to put little changes in place** even though you are at quite a small [...] It gives you the power and the tools to be able to do that and that was the one thing I thought about change in that it can be a small cog in a big machine. But still it's a vital cog and you know **you can actually influence things**” *DFL mentor*

EULAB AND GREENCOMPS



Sustainability competence of learners	Competence details	EULab contribution to competence development
Embodying sustainability values	<ul style="list-style-type: none"> - valuing sustainability - supporting fairness - promoting nature 	<ul style="list-style-type: none"> - sustainability-related problem identification and solution is largely driven by learners' values and priorities for a sustainable future - place-based learning creates connection with local social and ecological environments
Embracing complexity in sustainability	<ul style="list-style-type: none"> - systems thinking - critical thinking - problem framing 	<ul style="list-style-type: none"> - challenge-based learning is built on the premises of critical thinking, problem identification and presentation and requires a systems-analytical approach
Envisioning sustainable futures	<ul style="list-style-type: none"> - futures literacy - adaptability - exploratory thinking 	<ul style="list-style-type: none"> - learners generate ideas for sustainable futures - learners become system innovators
Acting for sustainability	<ul style="list-style-type: none"> - political agency - collective action - individual initiative 	<ul style="list-style-type: none"> - learners are connected with local stakeholders creating the possibility for collaboration with them - learners are encouraged to become active citizens

CHALLENGING MINDSETS



“Especially here I think it is more about ‘how’ you think; like stretching the thinking process in different ways and that you do not know what it is like until you do it”

(Nantes Lab educator participant)

- Moves beyond the comfort zone
- Reflects the nature of grand challenges and wicked problems
- Allows and empowers learners to dare to tackle vast, complex challenges
- Creates change agents who know what tools to bring to the discussion in physical and digital environments
- Changes roles of educators toward enabling self-directed learning



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