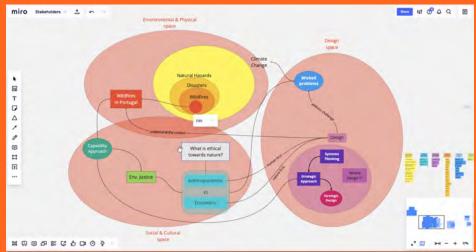
Participatory Workshop 2: Mapping Ecologies of Crisis usin Design Thinking

Prof. Nitin Sawhney

Department of Computer Science, Aalto University André Santos, PdP Course Coordinator, Aalto Design Factory, Aalto University

Friday, July 3, 10:00 - 12:00

CS-E4002: Human-Centred Research and Design in Crisis Aalto University



Workshop Outcomes

Reveal methods to enhance collaboration in research and devise a design strategy with multiple stakeholders in disaster prevention.

1. Presentation on Design as Strategic Tool in Disaster Prevention in the Context of Wildfires in Portugal by André Santos

2. Presentation on Ecologies of Contestation in Participatory Design by Prof. Nitin Sawhney 3.Stakeholder analysis and ecological mapping for design strategy in a crisis case study Working in groups to conduct stakeholder analysis and ecological mapping using Miro



Workshop Schedule

Mapping Ecologies of Crisis using Design Thinking

Introduction (10:00 - 10:10)

Role of Design as Strategic Tool in Disaster Prevention (15 min)

Open Discussion (10 min)

Ecologies of Contestation in Participatory Design (10 min)

Open Discussion (10 min)

Stakeholder analysis and ecological mapping for design strategy in a crisis case study (45 min)

Share reflections and workshop wrap-up (15 min)



Human-Centred Research and Design in Crisis 3rd July, 2020

Design as a strategic tool in disaster prevention: A case study of wildfires in Portugal

by André Santos MA student in Collaborative and Industrial Design



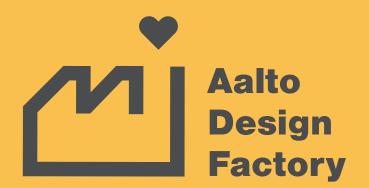
Creative Sustainability (minor)



ColD (major)



















Wildfires in Portugal

Portugal is the European country that **most suffers of wildfires**, both in number of fires and burnt area





Despite national strategies, the area burnt in Portugal has continued to increase

NI O <t

Climate change, lack of forest management, and unrealistic policies are recognised as some of the causes of wildfires, however no actor recognises their direct responsibility towards the problem. As fires become more intense, and faster spreading, firefighting forces become less effective.

In this new era of severe burning conditions, future investments should be made that promote a more strategic, less reactive approach.

How can design be used as a strategic tool in the development of strategies for multi-stakeholder collaboration?

(tentative research question)

Methodology

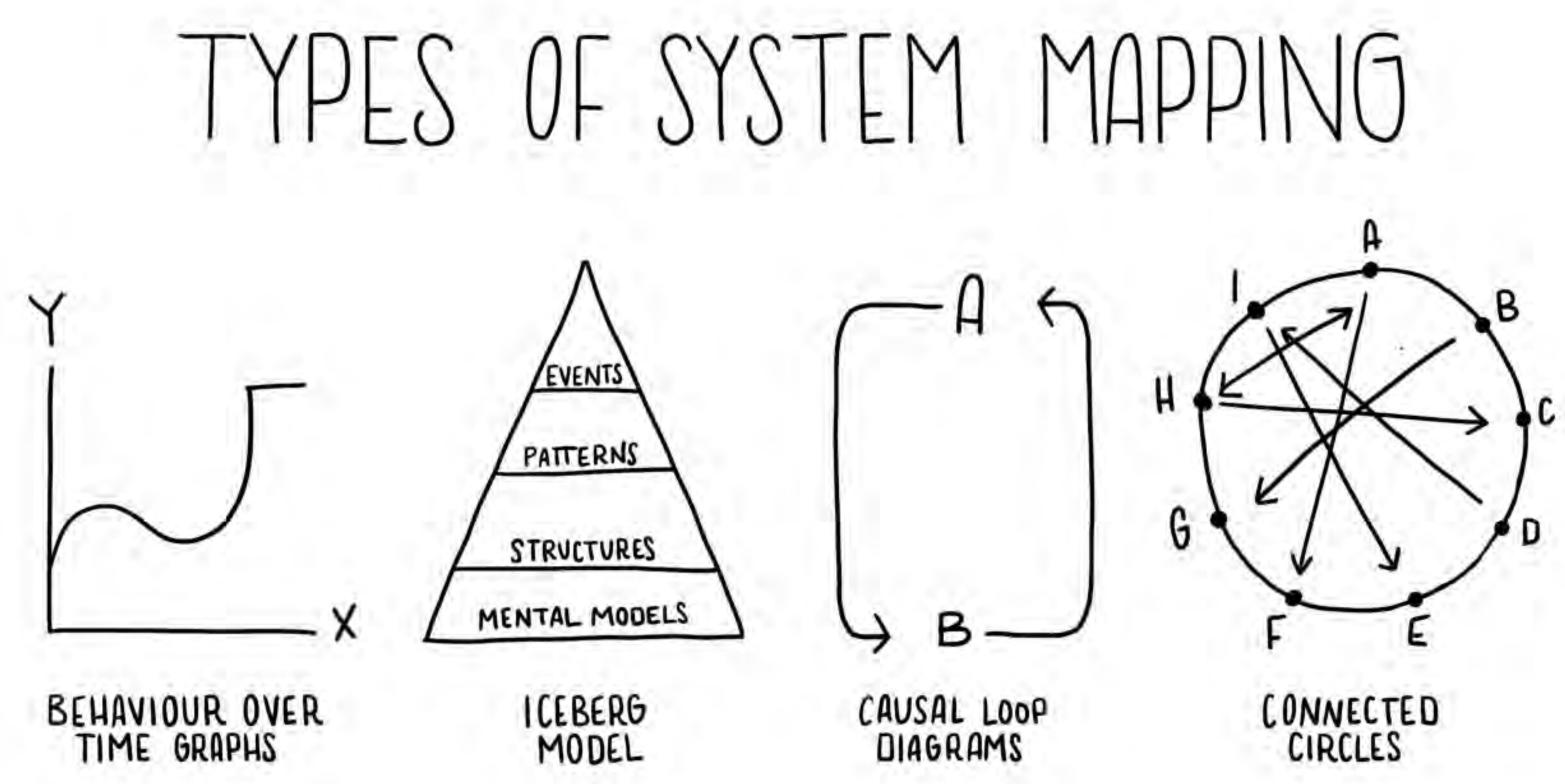
Systems Thinking

Qualitative Research

Strategic Thinking

Systems Thinking







METHODOLOGY

Systems Thinking

Qualitative Research

- big picture

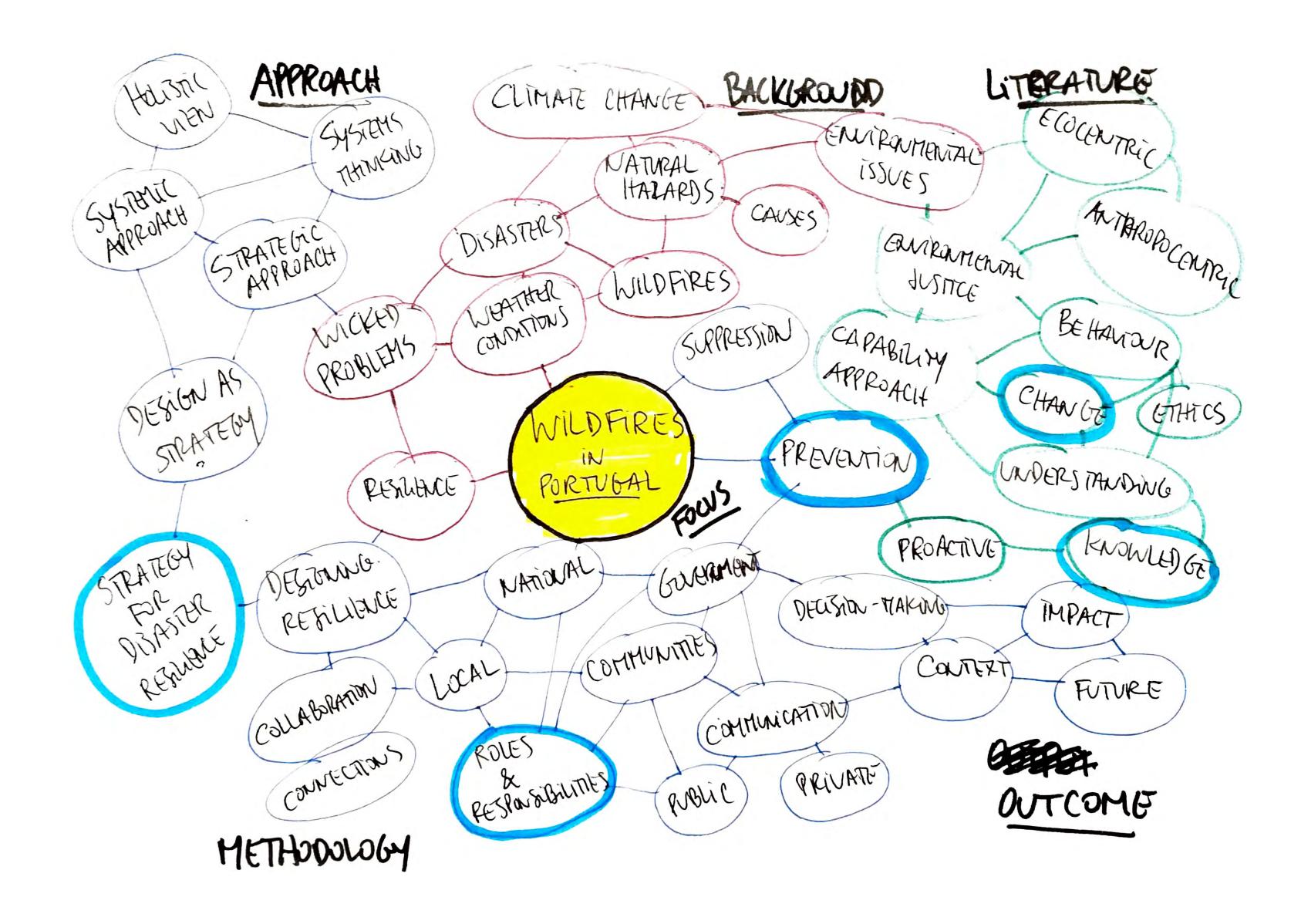
- interconnections
- interdependences

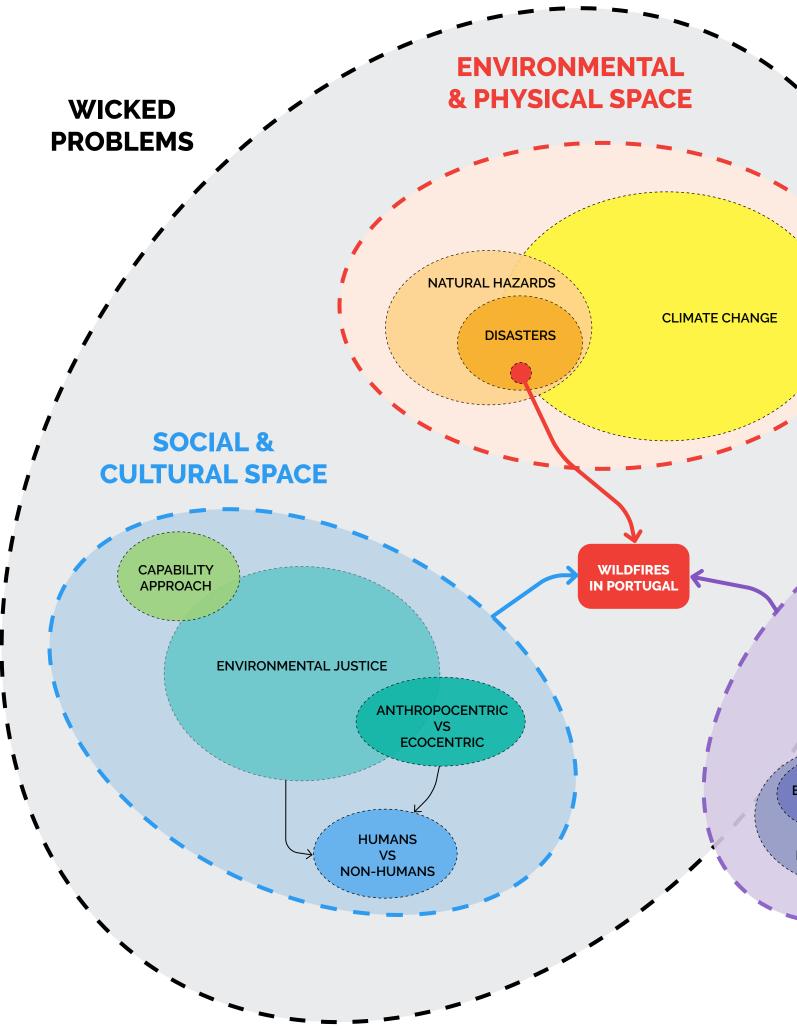
- ethnographic

- interviews
- behaviour
- context

Strategic Thinking

focus
meaning
intervention
outcome





DESIGN SPACE

SYSTEMS THINKING

STRATEGIC THINKING

STRATEGIC DESIGN

ETHNOGRAPHIC RESEARCH

DESIN RESEARCH

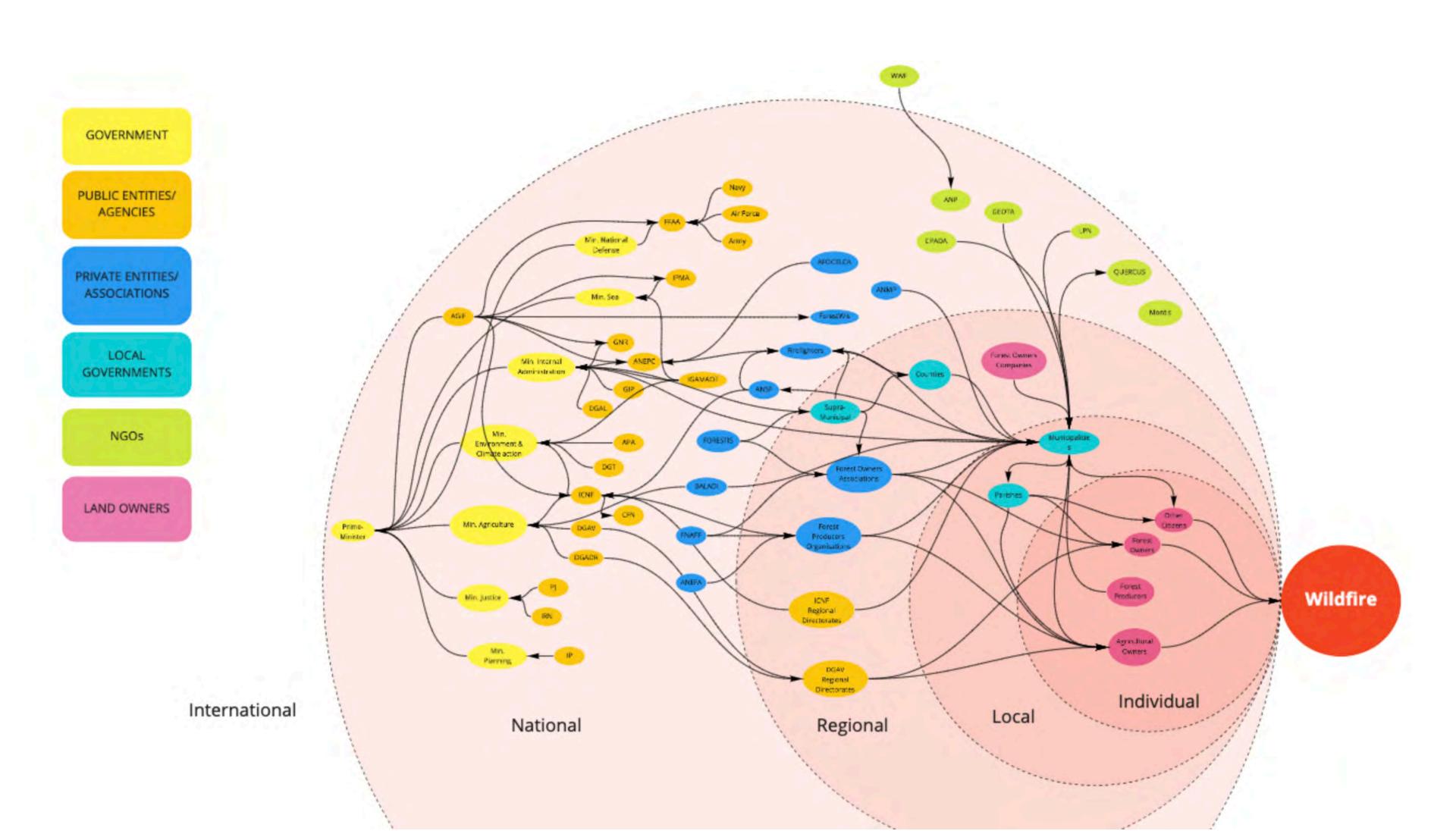
Stakeholders/Actors



What about the non-human actors?



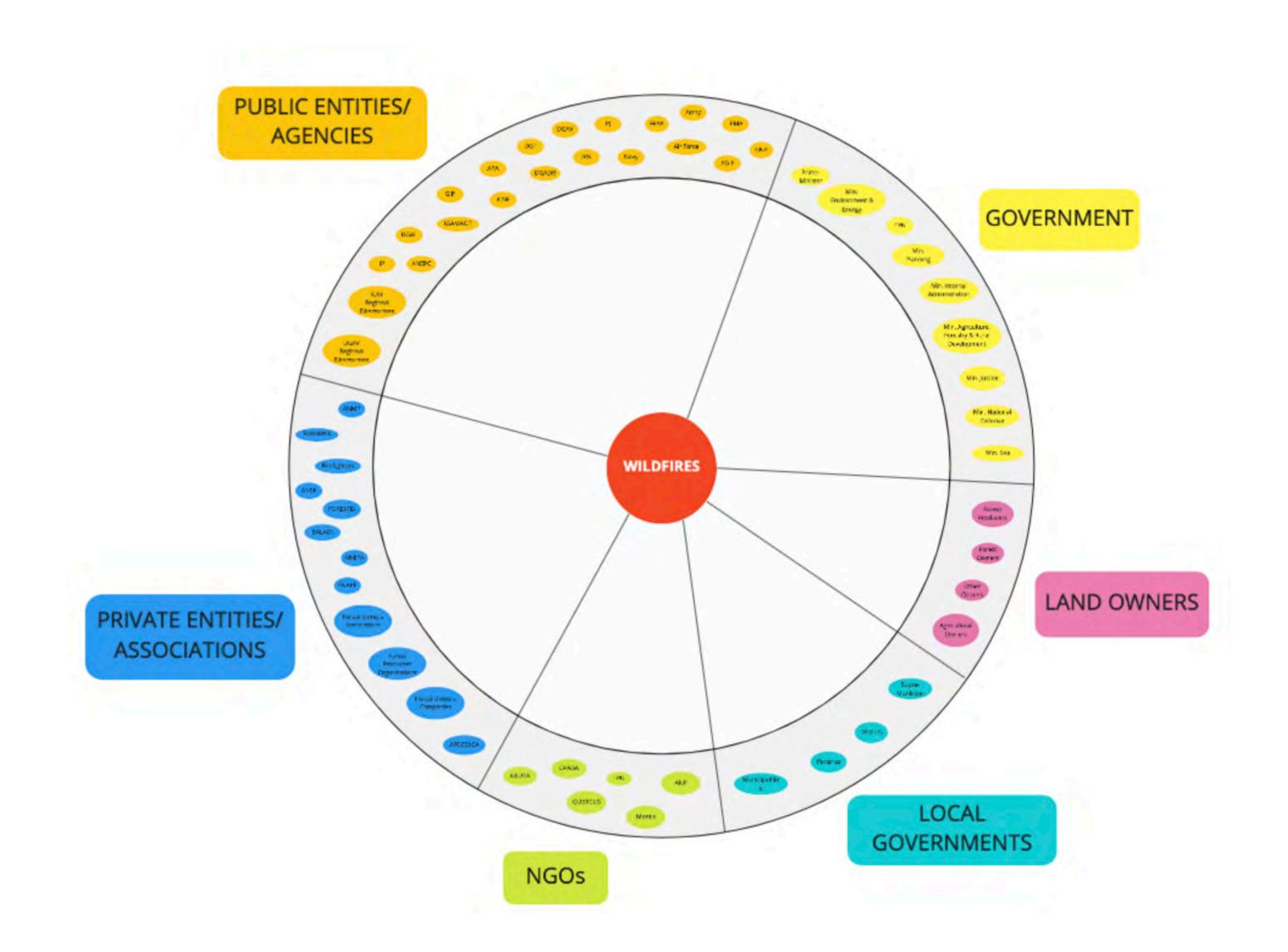
Impact



miro

It's Miro time!

What are the roles/responsibilities of the different stakeholders?



Food for thought

What is the **cause-effect of stakeholders decisions** in disaster prevention in the context of wildfires?

What are the **challenges of a multi-stakeholder collaboration** in the development of strategies for wildfires?

What are the **strategic opportunities** for a multi-stakeholder collaborative approach in wildfire prevention in Portugal?

Feel free contact me: **André Santos** andre.santos@aalto.fi

References

Systems Thinking:

- "Unlocking the power of Systems Thinking" by Leyla Acaroglu (https://medium.com/disruptive-design/unlocking-the-power-of-systems-thinking-b3809eaab519)

- "Tools for Systems Thinkers: Systems Mapping" by Leyla Acaroglu (https://medium.com/disruptive-design/tools-for-systems-thinkers-systems-mapping-2db5cf30ab3a)

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- Hill, D. (2014). Dark matter and trojan horses a strategic design vocabulary. Strelka Press, 18.
- Jones, P. (2014). Design Research Methods in Systemic Design.

Stakeholders:

- "Stakeholder Engagement in Environmental Decision-Making Processes" by Nataša Lovrić

- "Stakeholder Analysis for (Mediterranean) Wetland Governance: The Case of Ljubljansko Barje Nature Park, Slovenia" by Aleš Smrekar, Katarina Polajnar Horvat and Daniela Ribeiro

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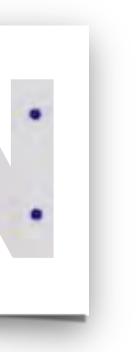
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THANK YOU!

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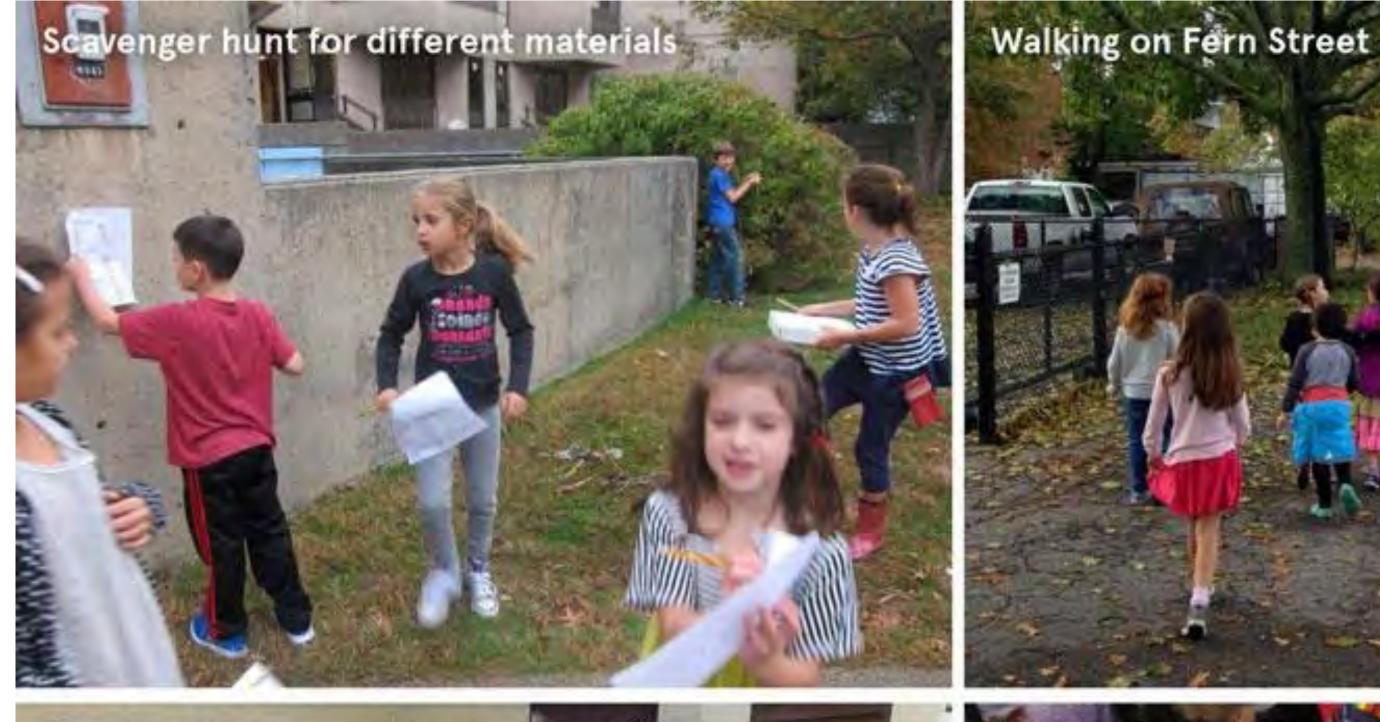






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Creating their own vision for Fern Street

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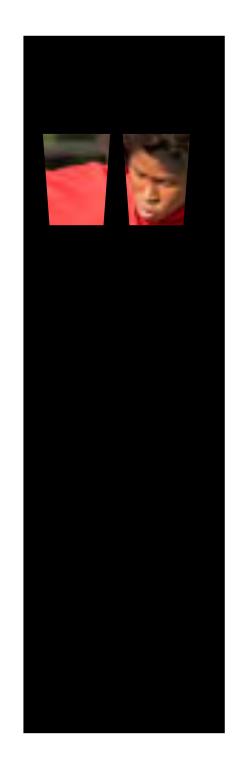
Exemplary Process



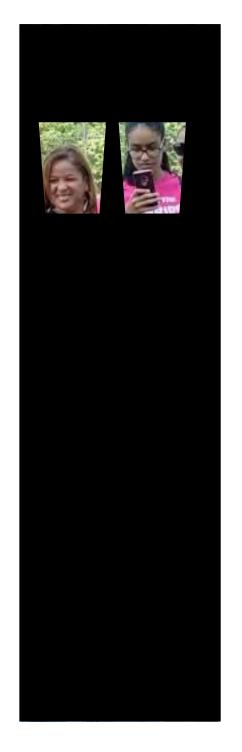
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unotos





Seyla Benhabib: the idealized social conditions of deliberative democracy rarely exist in most public spheres.



Chantal Mouffe: for democracy "agonistic confrontation" is in fact its very condition of existence.



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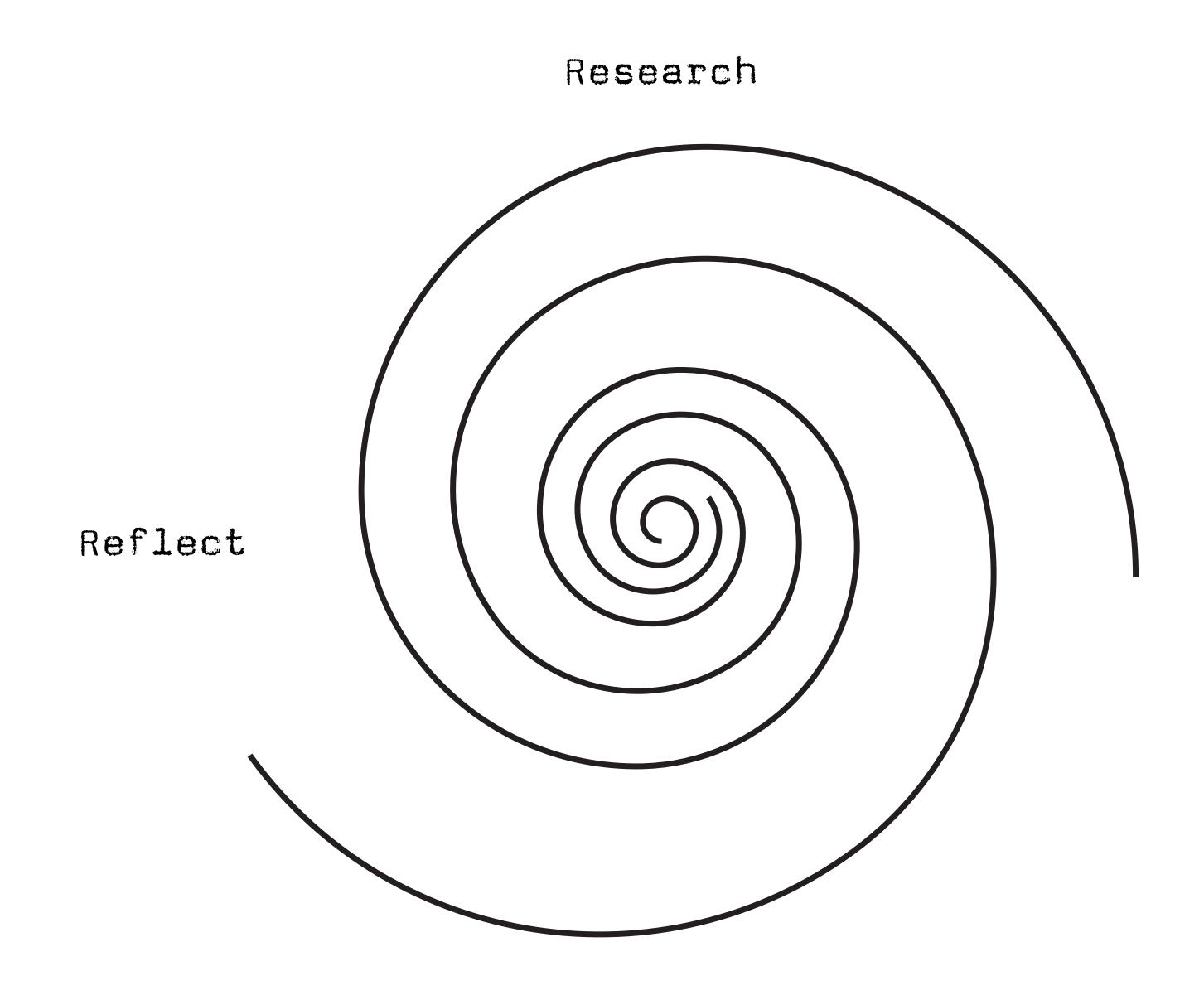
DRAWING ON PAR TO INFORM PD PRACTICE

Learn

Closses & training

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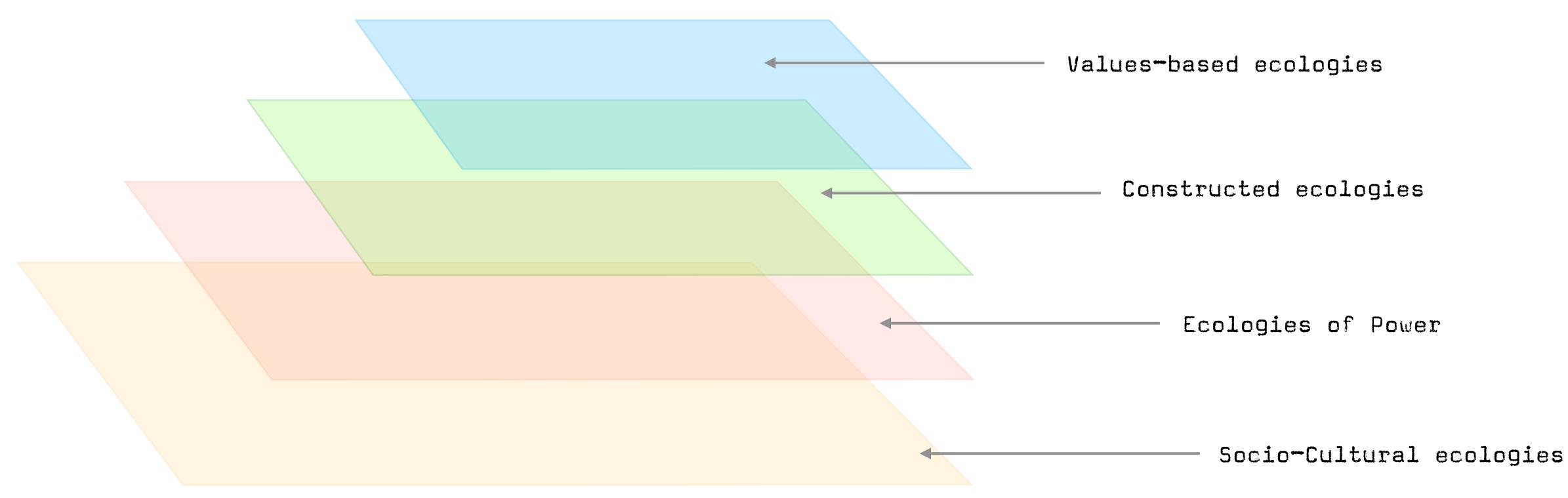




Plan







ECOLOGIES OF CONTESTATION: A FRAMEWORK





CULTURAL PLAN FOR ALL NEW YORKERS

CO-OPTING PARTICIPATION

CreateNYC (2017) https://createnyc.cityofnewyork.us/





PEOPLE'S CULTURAL PLAN: PLURALISTIC AGONISM EMERGES

www.peoplesculturalplan.org

-Our 3 Takeaways

SPLACEMENT

THE NOW POPLE

AFFORDABILITY

- PHYSICAL HOUSING/MISMTUTIONS - CULTURAL

3 EQUITY

Table M.

Topic No+MOR

Manhattan Workshop - Dec 20, 2016





ADVOCATING FOR RADICAL EQUITY AND CIVIC AGENCY

https://www.facebook.com/pg/peoplesculturalplan/





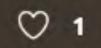




BusCmtr @buscommuter · 17 Oct 2017 elivery stops and bike lanes. @DeutschePostDHL has it figured out. Please tell @DHLUS w it's done. @UPS and @FedEx too while you're at it

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V

Urban Mobility Data: Contested Bike Lanes



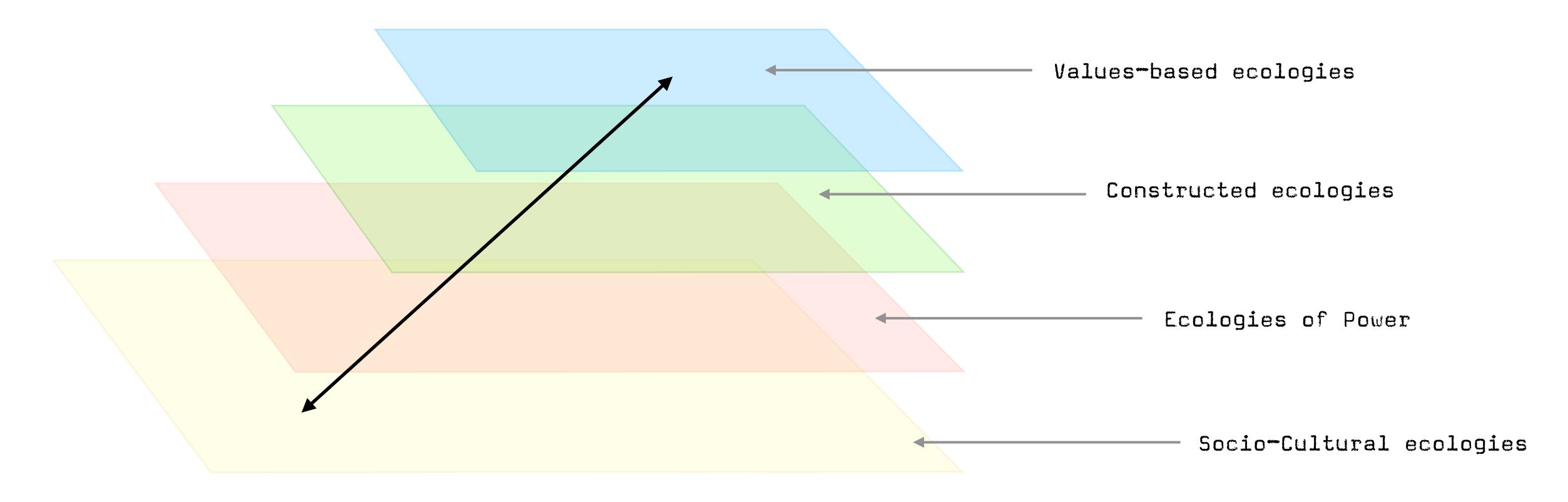
In Theory vs. In Practice



THE DESIGN OF THE ARTIFACT REFLECTED THE ISSUES OF POWER

0----





EMERGENT ANTAGONISM INTO AGONISM?









CONTESTATION EMERGES FROM SKATEBOARDING

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RECLAIMING AGENCY TO STAY TRUE TO ONE'S VALUES

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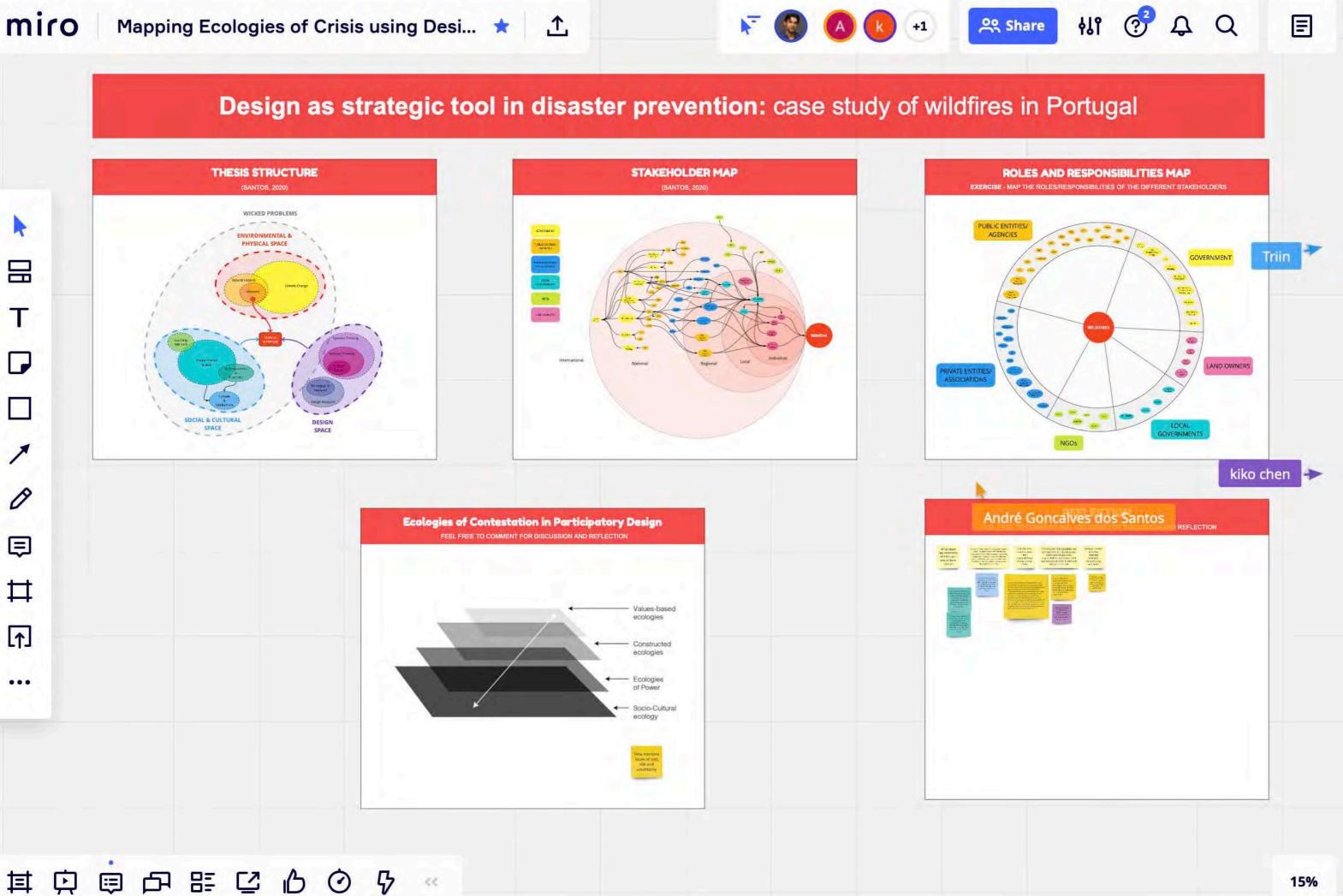




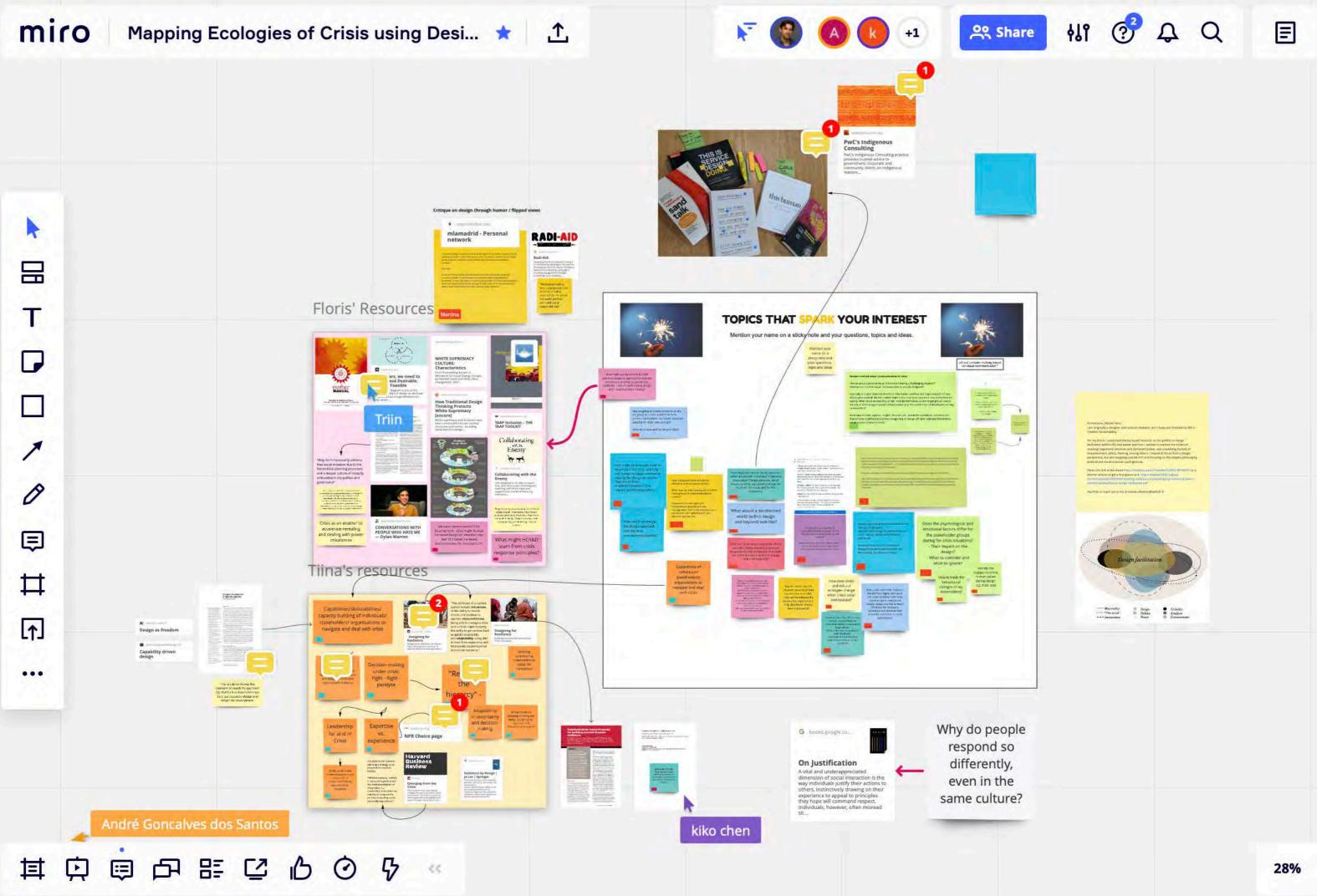
HOW DO WE CULTIVATE A CULTURE THAT EMBRACES CONTESTATION AND DISSENSUS IN PARTICIPATORY DESIGN?







15%



Next Tuesday: How do Health Agencies use Instagram for Crisis and Emergency Communication?

Aqdas Malik Post-Doctoral Researcher, Department of Computer Science, Aalto University July 07, 2020

CS-E4002: Human-Centred Research and Design in Crisis

Aalto University