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Metaphors and Systems

Lockton, Dan

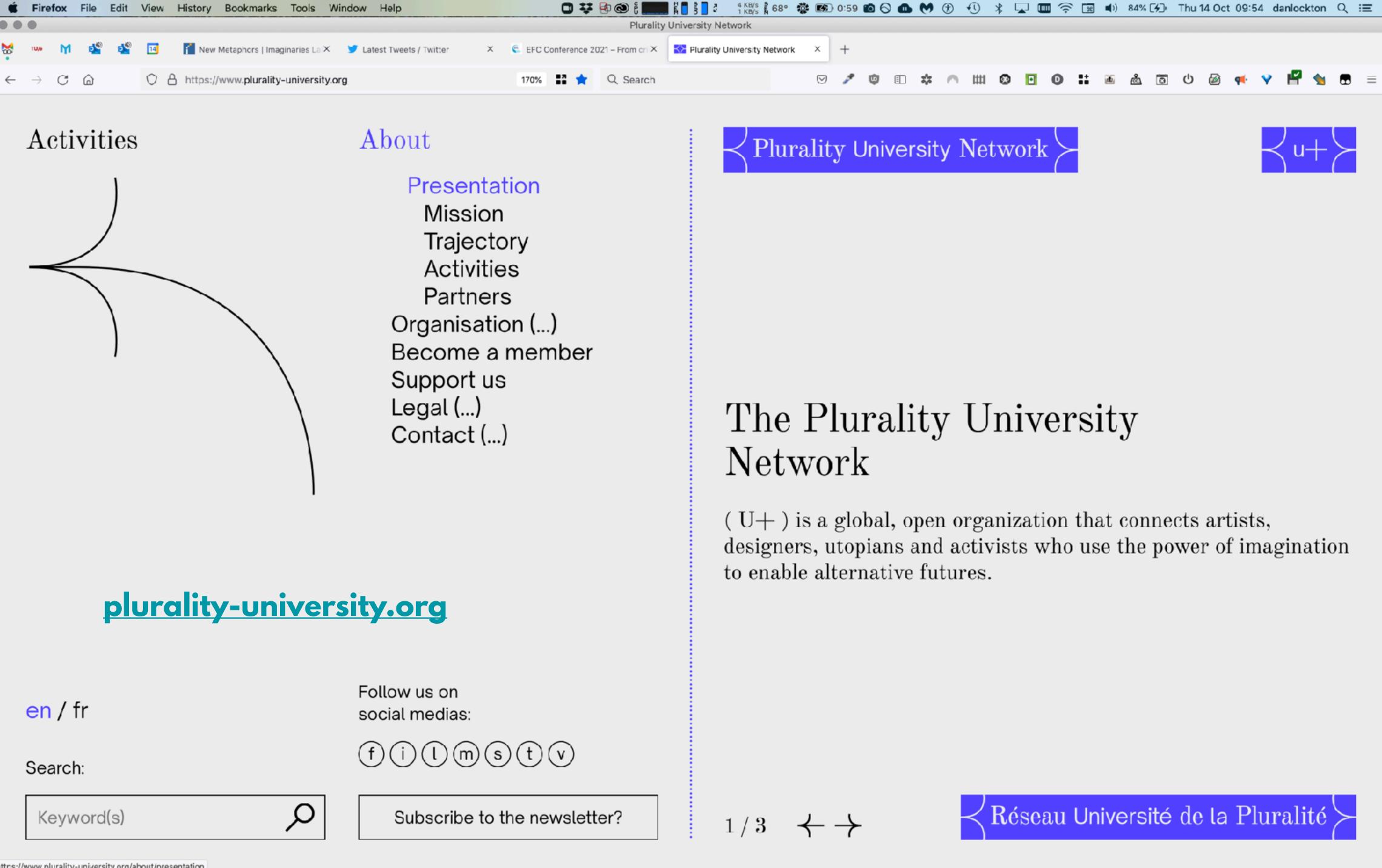
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Eindhoven
University of
Technology
Eindhoven,
NL
2021–?



Carnegie Mellon University
Pittsburgh, PA
2016–20

Royal College of Art

London

2013–2016



Brunel University
London
2007–2012



imaginaries lab

We're a design research studio creating tools to support people's imagining—new ways to understand, and new ways to live. →

imaginari.es





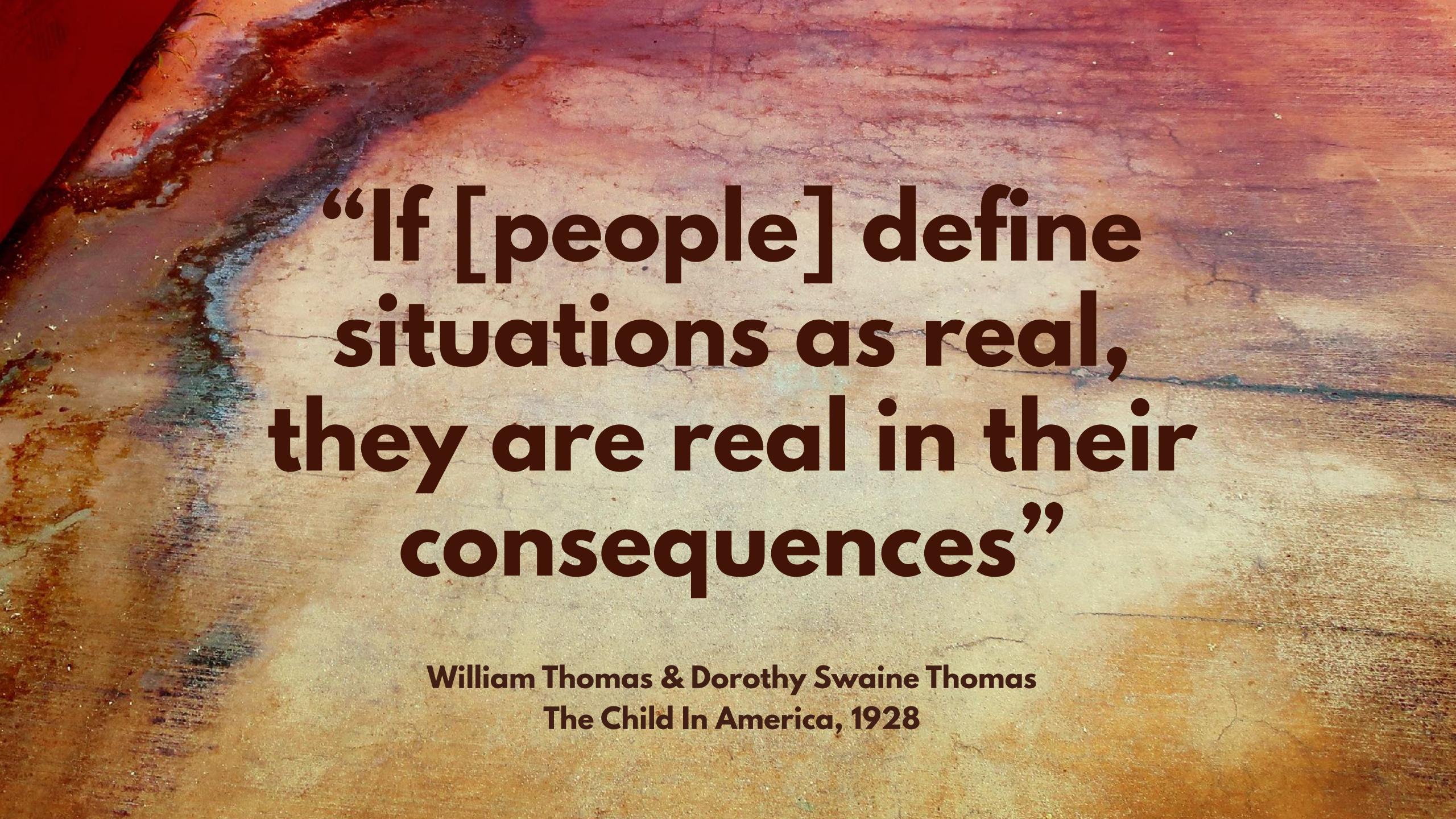


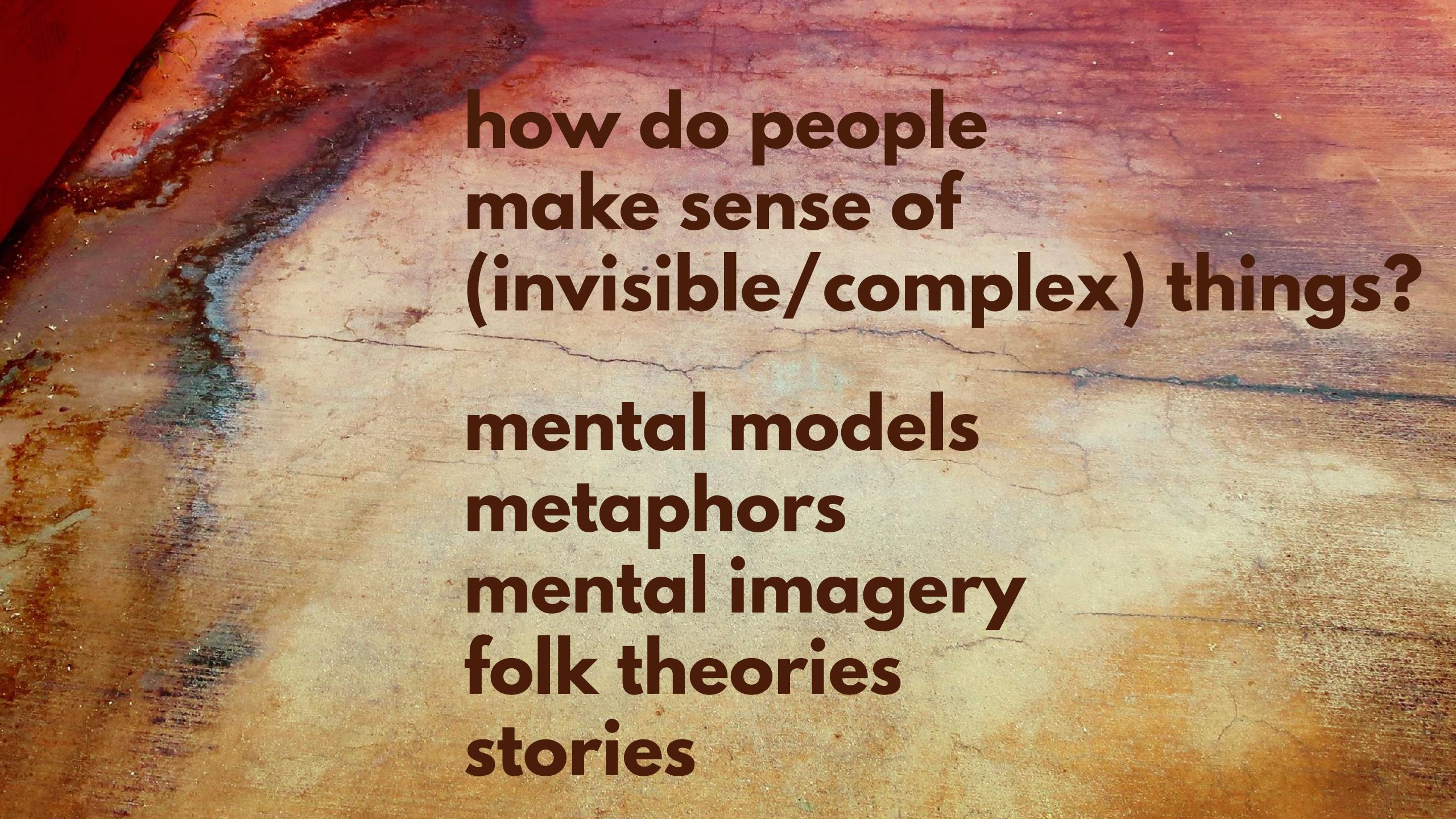
Urban Climate Futuring (in-person) workshop:
Berlin-Neukölln 2039: 18 September, led by Juli
Sikorska with Dan Lockton











Imaginaries show how "observed facts of nature are refracted through collective desires for logic and order, producing authoritative representations of how the world works—as well as how it should work"



Sheila Jasanoff and Sang-Hyun Kim, Dreamscapes of Modernity, 2015



people often act on their 'model' of the situation

(designers work with this a lot)

'When we don't know how a thing works, we make it up'

Lou Downe, former Head of Design, UK Government Digital Service

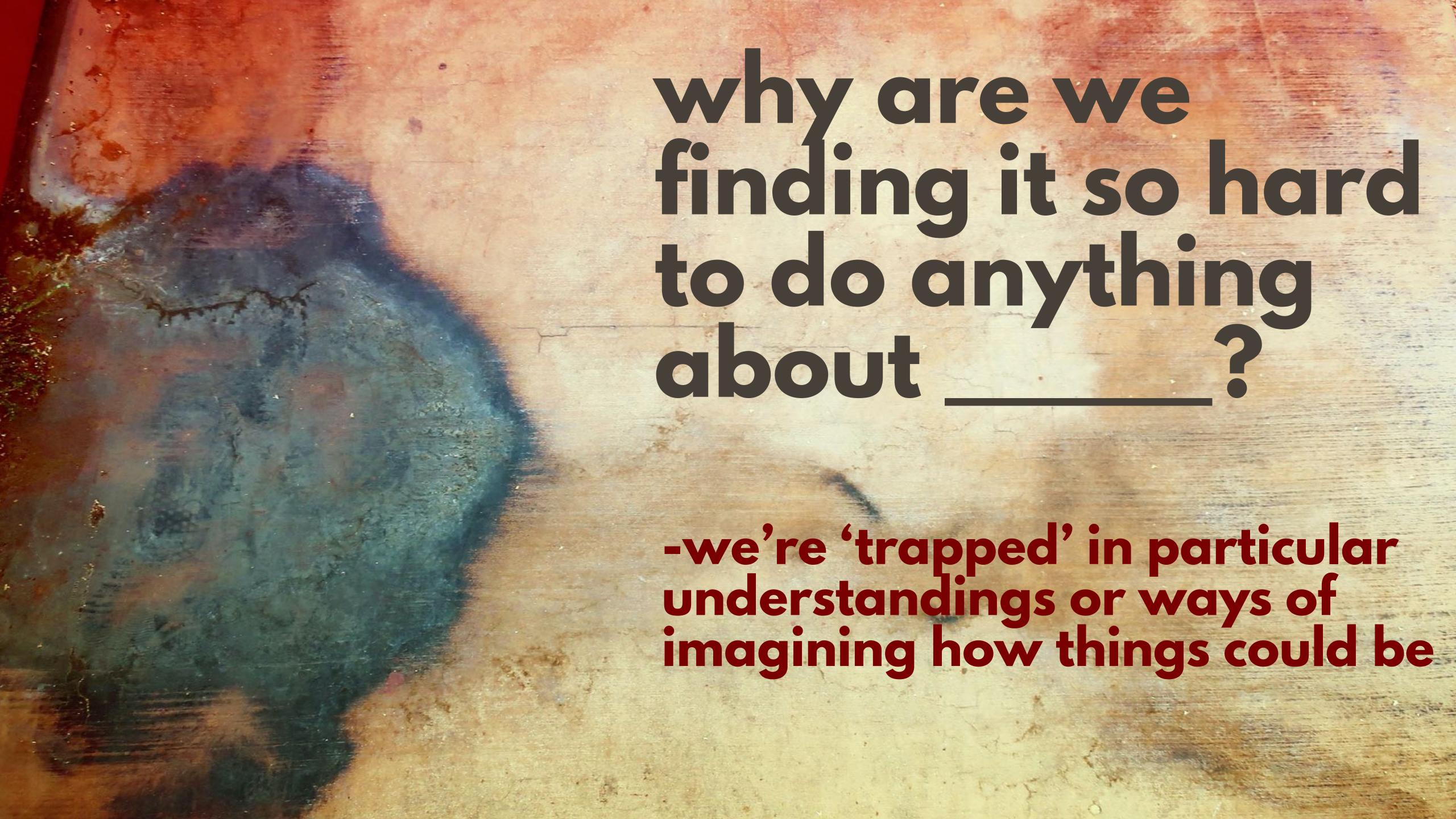


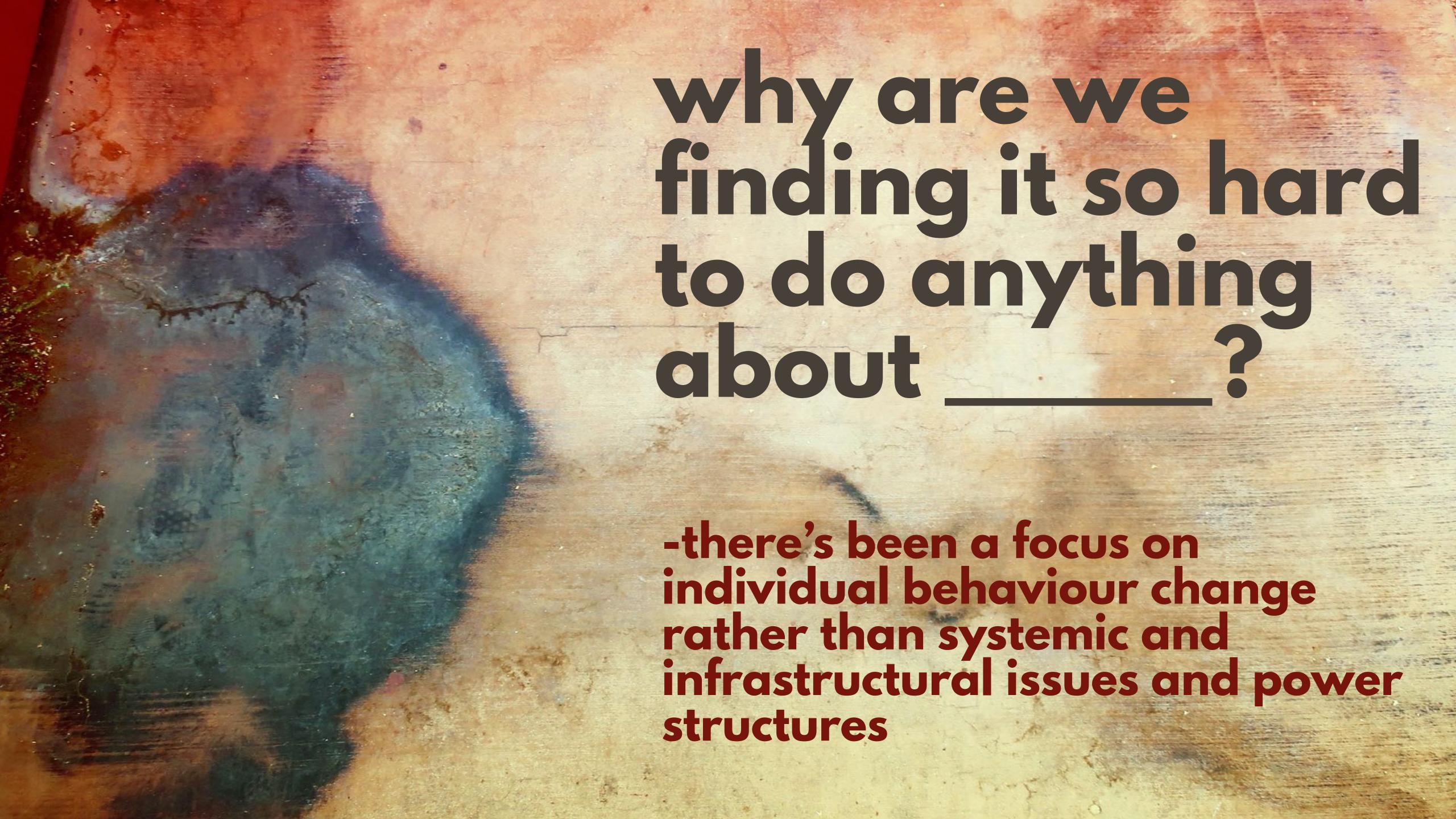
climate crisis public health (inc pandemics) resources social justice the law the government the economy quality of life

energy systems 'transitions' in general artificial intelligence 'algorithms' personal data and privacy social media 'the Internet'

cities (and rural areas) neighbourhoods communities regions organisations







Get imaginaries out of people's heads and into a shared space, together

"When thought overwhelms the mind, the mind puts it into the work of

Barbara Tversky professor emerita of psychology at Stanford University and professor of psychology and education at Columbia University



imaginaries tanglale

personal development & futuring

Designation Carnegie Mellon

Delanie Ricketts and Dan Lockton (2019). Mental Landscapes: externalizing mental models through metaphors. Interactions 26, 2









interdisciplinarity

IIT Institute of Design

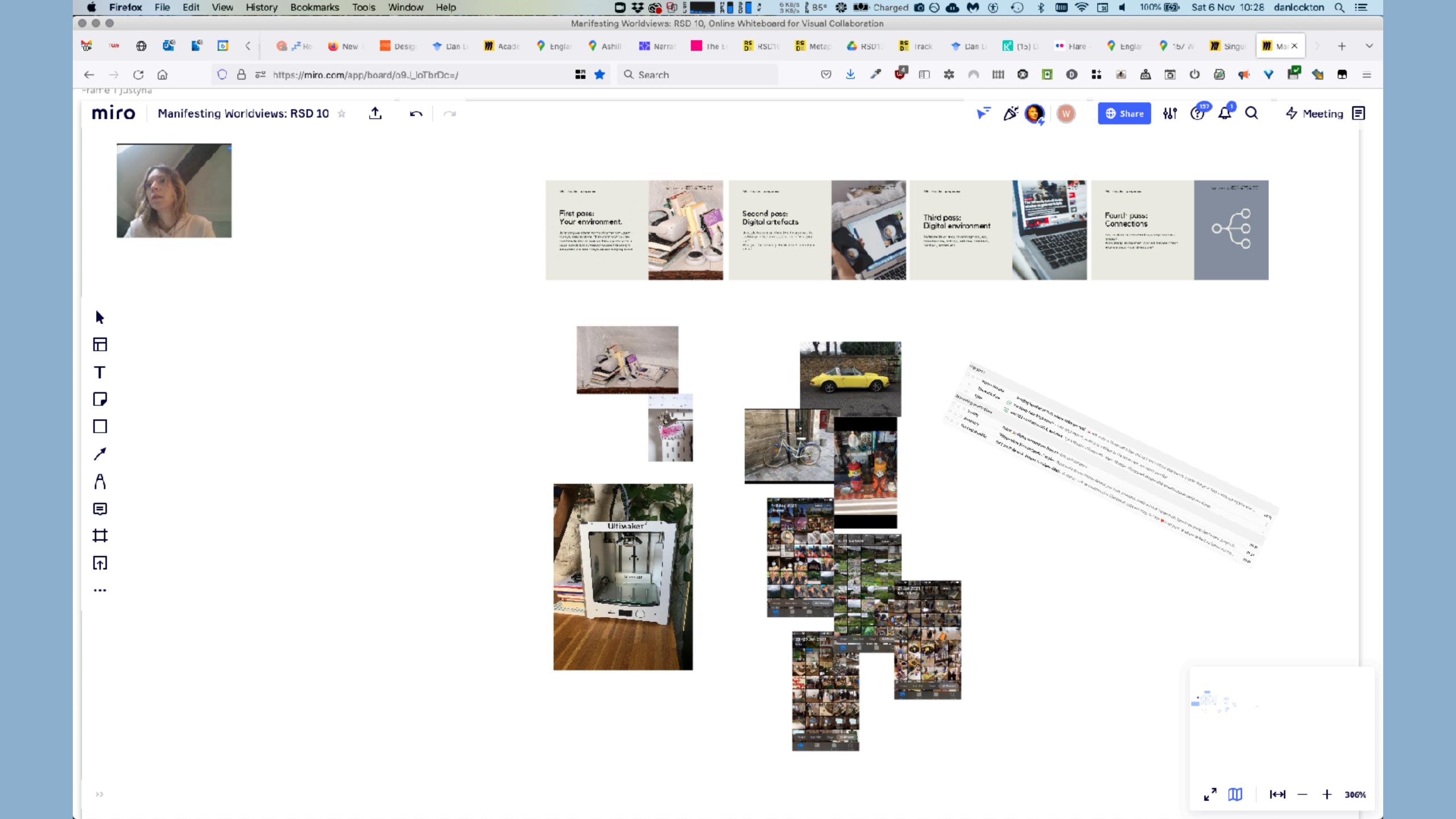


Dan Lockton, Lisa Brawley, Manuela Aguirre Ulloa, Matt Prindible, Laura Forlano, Karianne Rygh, John Fass, Katie Herzog, Bettina Nissen (2019). Tangible Thinking: Materializing how we imagine and understand interdisciplinary systems, experiences, and relationships. RSD 8, Chicago, October 2019

Dan Lockton, Laura Forlano, John Fass, Lisa Brawley (2020). Thinking with Things: Landscapes, Connections and Performances as Modes of Building Shared Understanding. IEEE Computer Graphics & Applications, forthcoming







mental health



B B C

Michal Luria, Ulu Mills, Jen Brown, Dan Lockton, et al. (2021). Materialising Mental Health: Design Approaches for Creative Engagement with Intangible Experience. In: Deborah Lupton and Deana Leahy (eds.), Creative Approaches to Health Education. London: Routledge.

































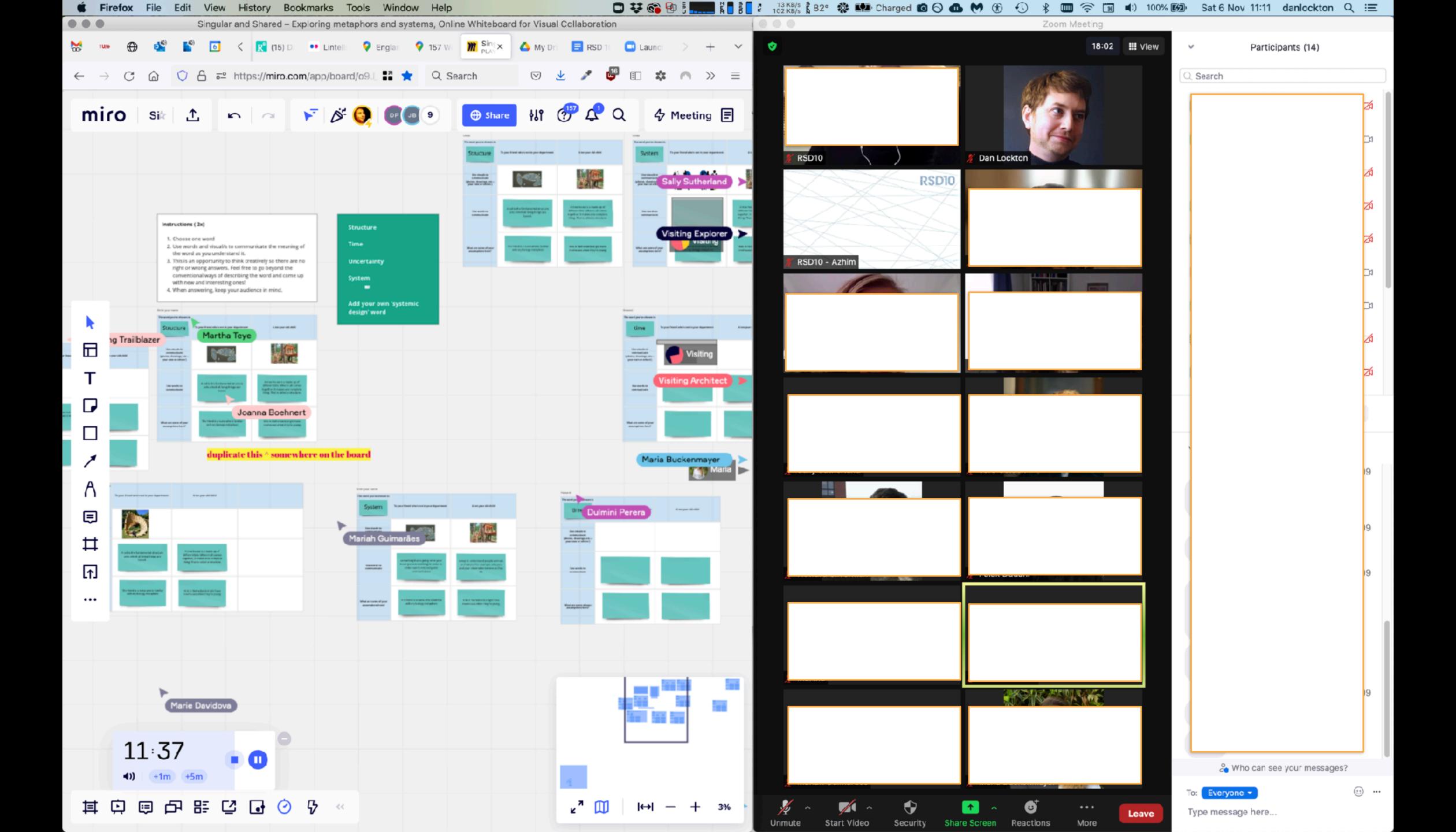












new metaphors

Dan Lockton, Devika Singh, Saloni Sabnis, Michelle Chou, Sarah Foley, Alejandro Pantoja (2019). New Metaphors: A Workshop Method for Generating Ideas and Reframing Problems in Design and Beyond. ACM C&C 2019



new metaphors

developed with designers

IXDA

Google Design

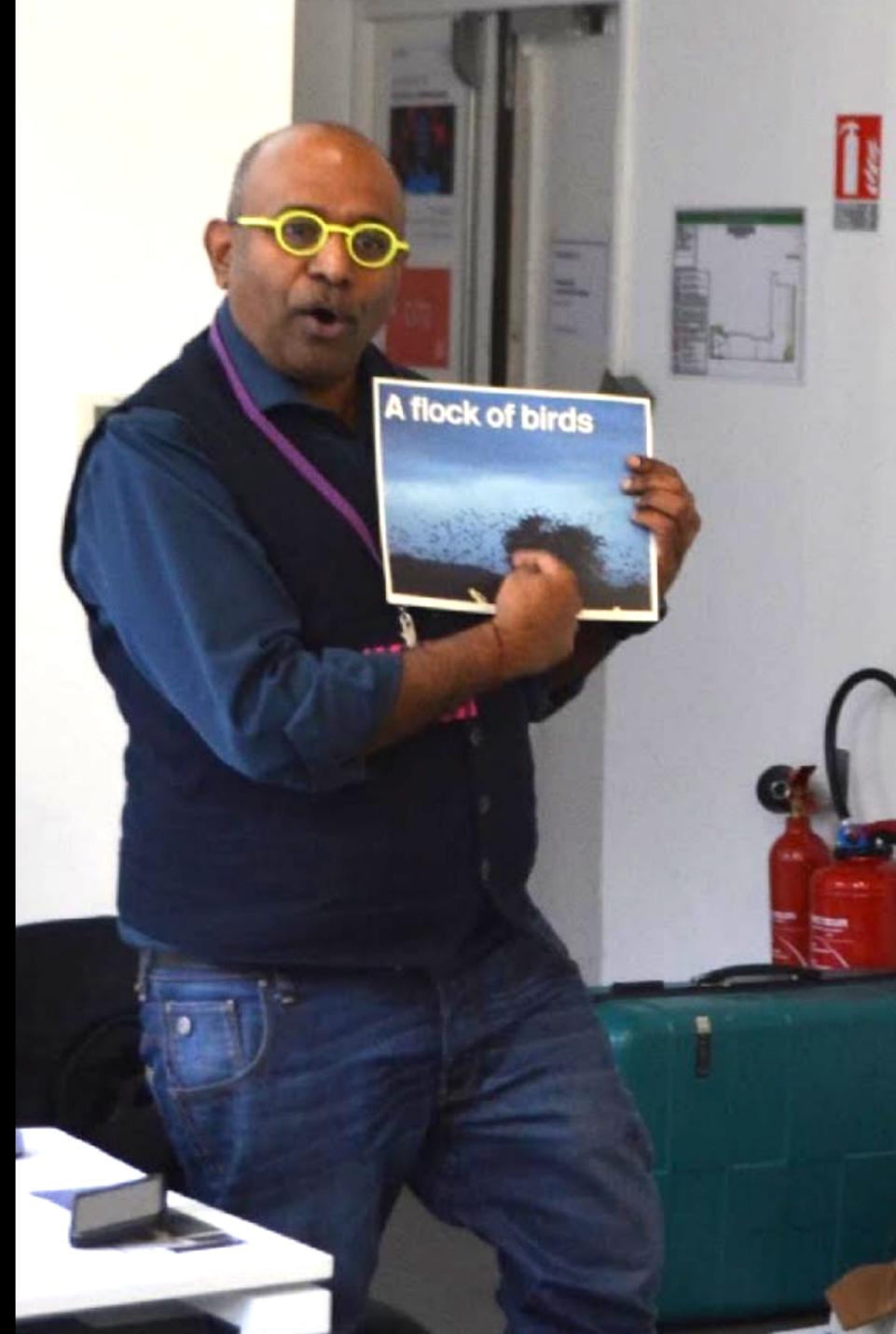












new metaphors

...and with students

Universidad del Desarrollo

Design

Carnegie Mellon University

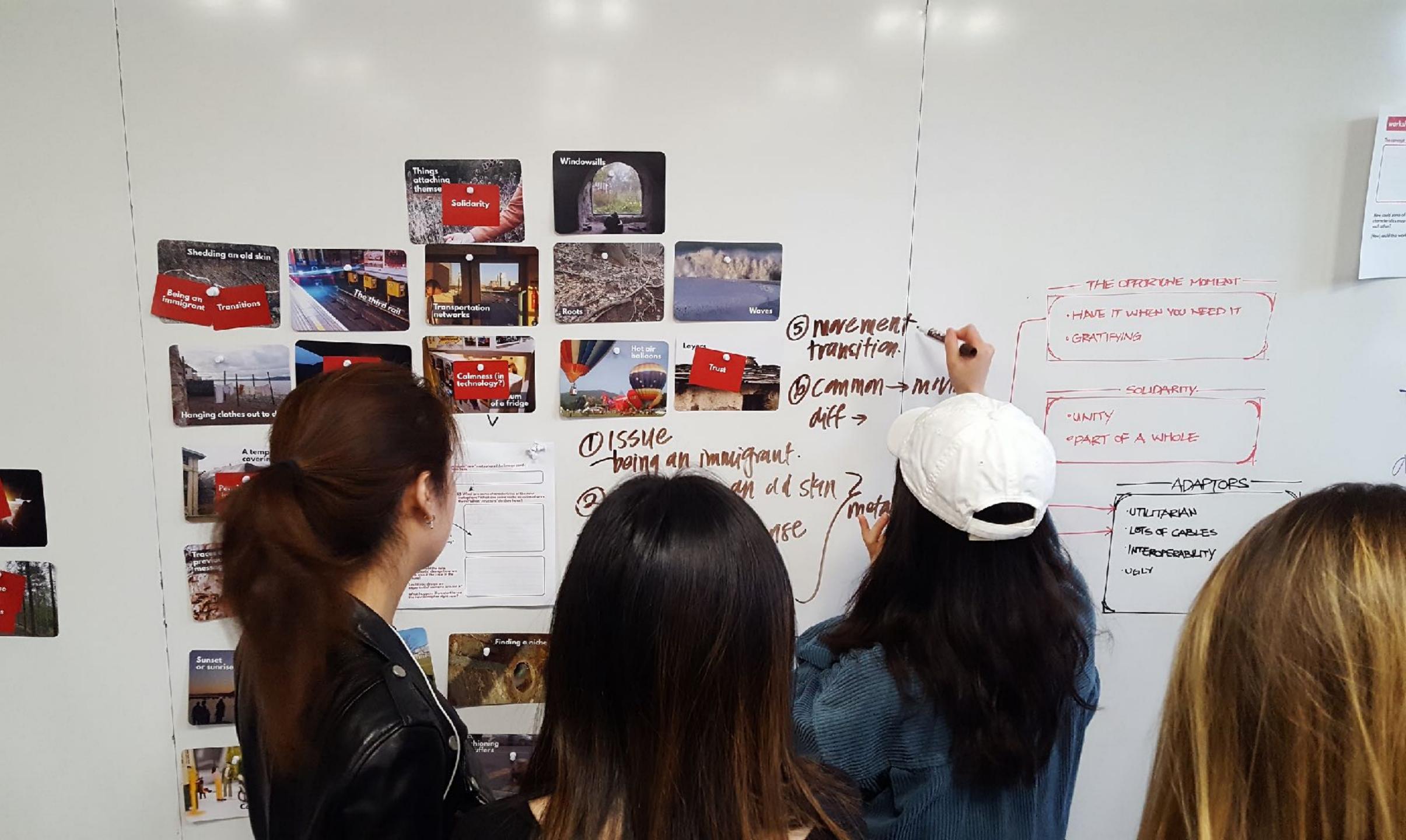


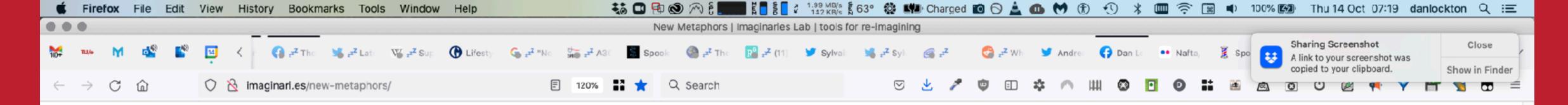












New Metaphors

Idea generation through juxtaposition, or bisociation (Arthur Koestler)

How could

be a metaphor for ...?

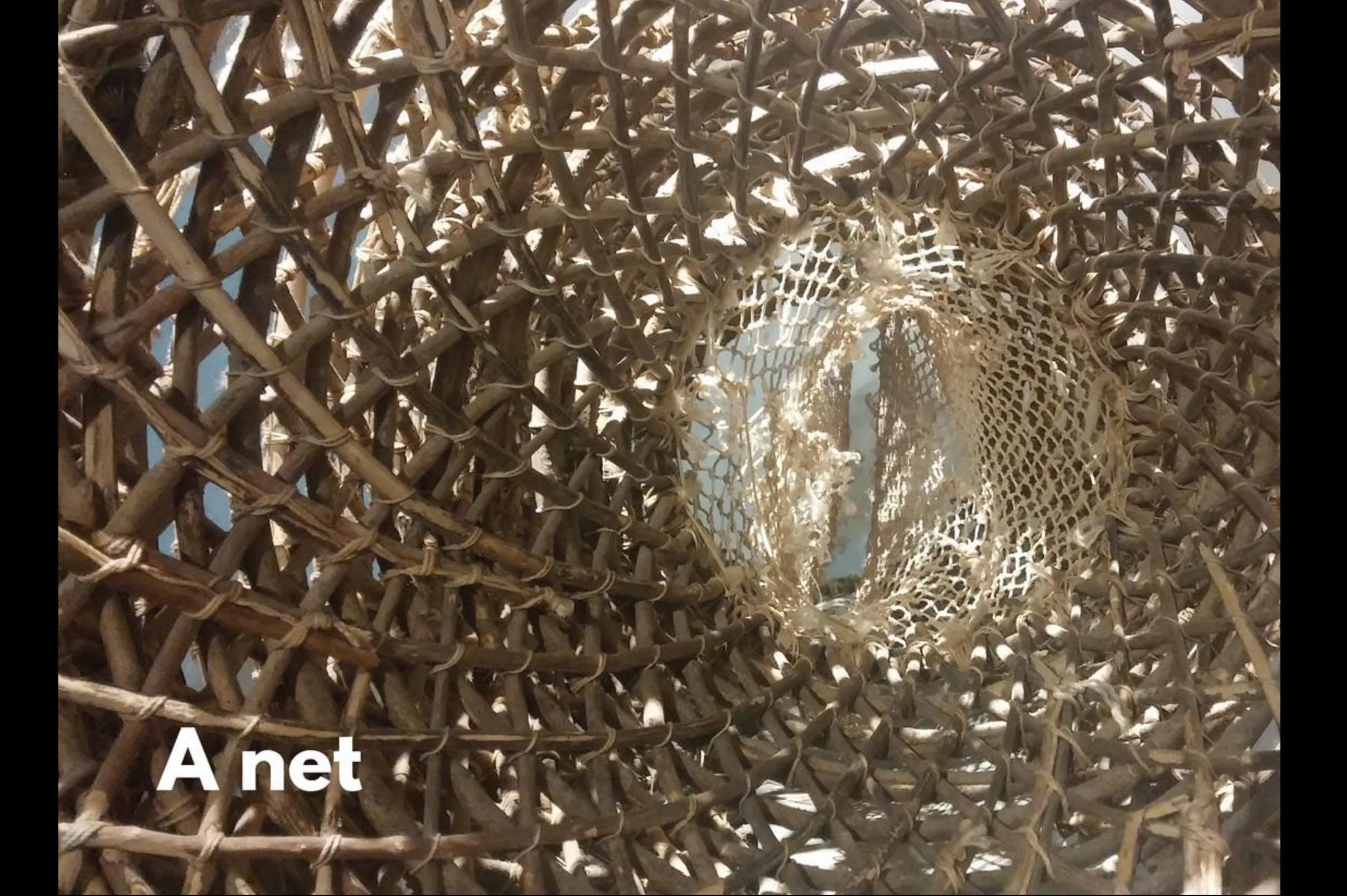


newmetaphors.com

Try another metaphor...

New Metaphors is a creative toolkit for generating ideas and reframing problems.

metaphors













literally 'carrying across'

μετά (meta), "after, with, across"

φέρω (pherō), "to bear", "to carry"





literally 'carrying across'

μετά (meta), "after, with, across"

φέρω (pherō), "to bear", "to carry"

"It is the same kind of looking that recognises the spirals of growth in shells as the frozen form of cyclones and galaxies."

Mary Catherine Bateson, 1984

"the secret connections between things."

Jorge Luis Borges, 1986





a metaphor is:

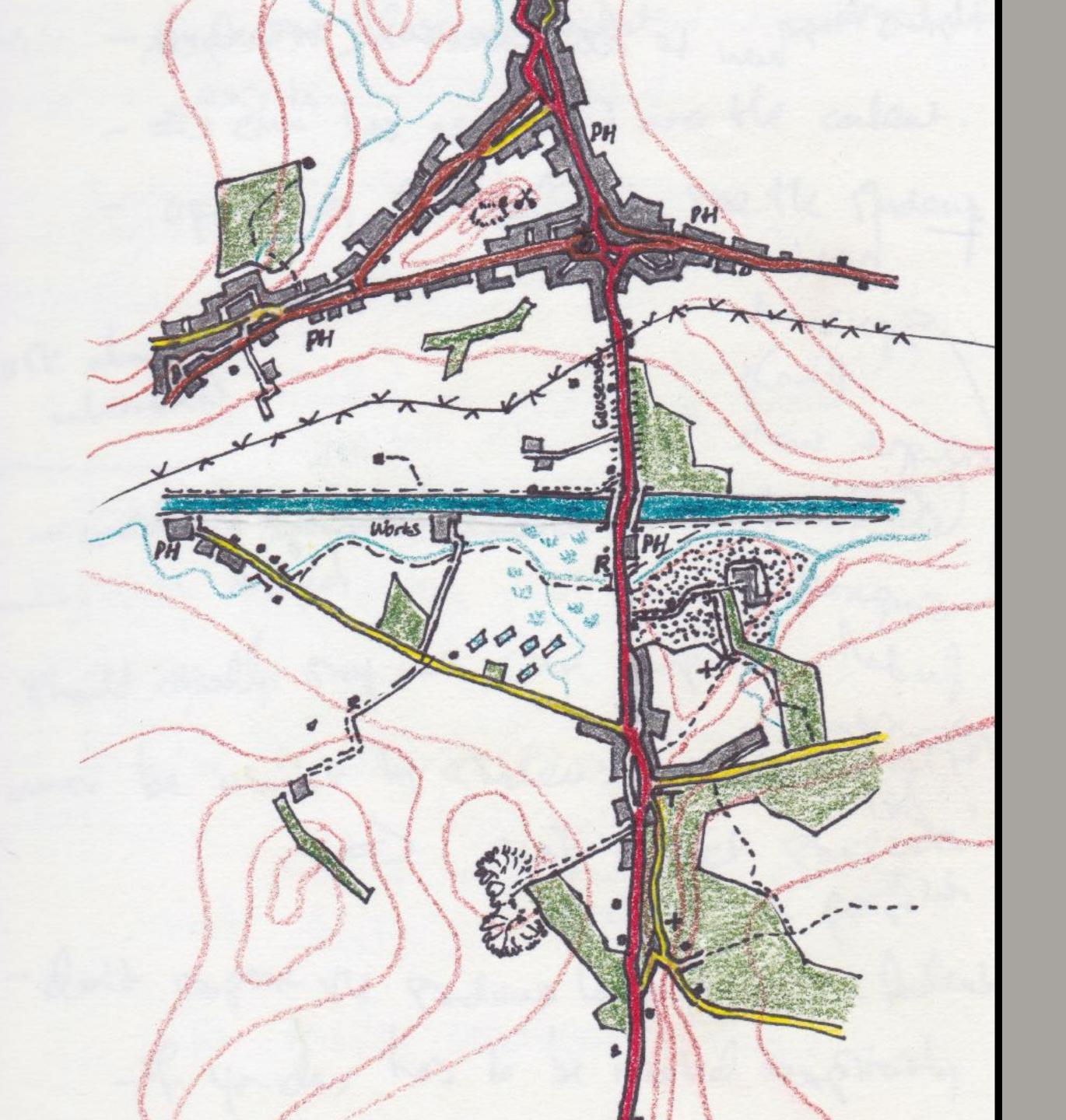
mot the thing itself

a map, not the territory

a model

'All models are wrong, but some are useful'
(George Box)

All metaphors are wrong, but some are useful, sometimes

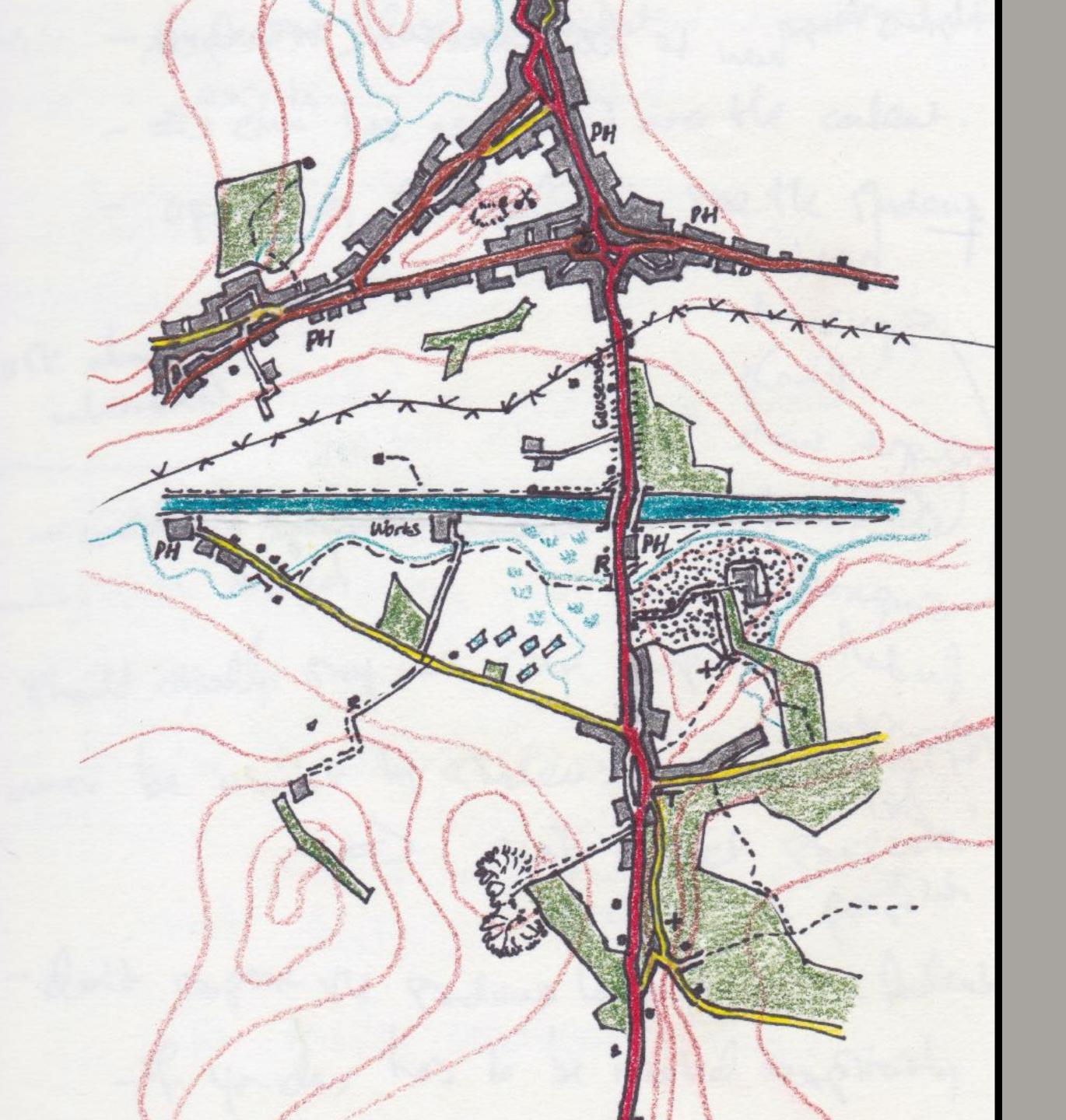


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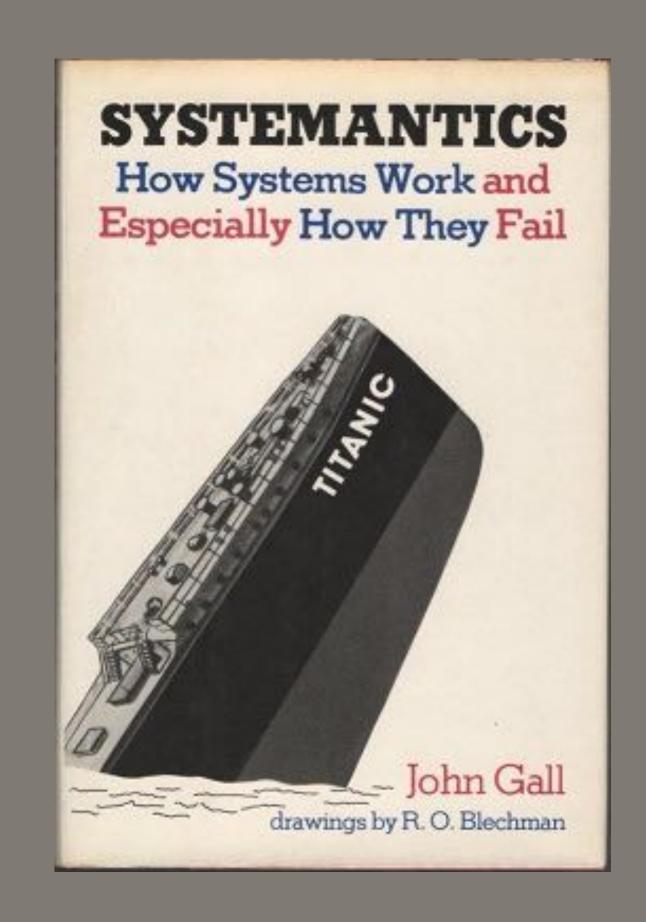
- mot the thing itself
- a map, not the territory
- a model

'All models are wrong, but some are useful' (George Box)

All metaphors are wrong, but some are useful, sometimes

systems don't exist

systems don't exist



all ways of describing systems use metaphors

but what does that do? (if we act as if they are real rather than abstractions?)

Table 1. A small selection of metaphors in common use in systems terminology (of course, there are many, many more)

soft and hard systems	loops	feedback and feedforward
layers (pace layers, shearing, other)	knots and double-binds ⁵	leverage points
horizons and foresight	paths	frontiers
transitions	landscapes	connections
forces	emergence	networks
stability and equilibrium	black (and white) boxes	goals and targets
boundaries	circularity	steering
nested systems	maps	probing
open and closed systems	machine metaphors	ecology

"The main conference theme explores design and systems thinking practices as mediators to deal fruitfully with tensions. Our human tendency is to relieve the tensions, and in design, to resolve the socalled "pain points." But tensions reveal paradoxes, the sites of connection, breaks in scale, emergence of complexity. Can we embrace the tension, the paradoxes as valuable social feedback in our path to just and sustainable futures?"

