

Final Presentations & Reflections

Sept 2, 10:15 – 12:00

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

Summer 2020

Prof. Nitin Sawhney

TA: Magda Mihalache



Aalto University
School of Science

hcrdcrisis2020.wordpress.com

Agenda

- Course Outcomes & Reflections (10:15 – 10:30)
- Presentation Maimuna Syed & Nagadivya Balasubramaniam (10:30 – 11:00)
- Presentation Floris Van der Marel, Pauliina Mattila, Tiina Tuulos (11:00 – 11:30)
- Future Directions (11:30 – 12:00)

Course Outcomes

Understanding of how **human-centred research, design** and technological innovations can productively engage the complex challenges emerging in **crisis contexts**, including natural and man-made disasters, socio-political crises, and the COVID-19 pandemic.

Critical skills to recognize the limitations and **ethical implications** of conducting **research, participatory design**, and deployment of **technologies** including **security, privacy** and any unintended consequences of such work, while applying rigorous **human-centred design principles** and practices to have a meaningful impact in such crisis situations.





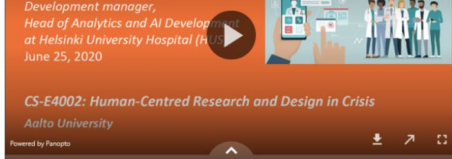
Designing for Healthcare Experiences from a Multi-stakeholder Perspective

Speaker: Prof. Johanna Kaipio, Department of Computer Science, Aalto University On June 23, 2020, we find out more about multi-stakeholder ... [More](#)



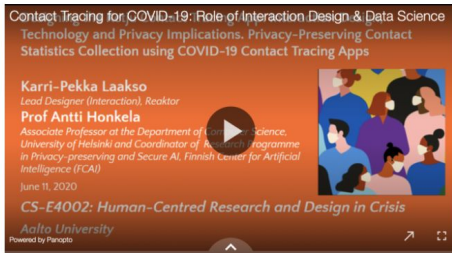
Role of ICT in Humanitarian Sector & Crisis Communication Strategies

Speakers: Ilpo Kiiskinen, Communications



Data-Driven Approaches to Healthcare Research during the COVID-19 Pandemic

Speaker: Miiika Leminen, Head of Analytics and AI Development at Helsinki University Hospital (HUS) Miiika Leminen, Head of Analytics and AI ... [More](#)



Contact Tracing for COVID-19: Role of Interaction Design & Data Science

Speakers: Karri-Pekka Laakso, Lead Designer (Interaction), Reaktor and Prof.



On Security, Privacy and Contact Tracing

Speakers: Prof. Janne Lindqvist, Department of Computer Science at Aalto University and Director at the Helsinki-Aalto Center for Information Security ... [More](#)



Real-world Challenges of Crisis & Disaster Management

A?

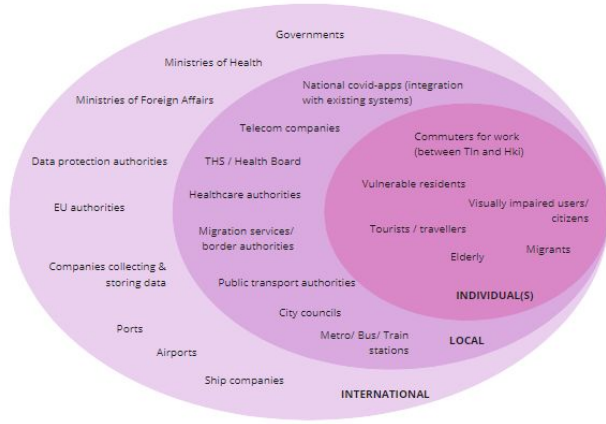
Participants Design Directions

- Reforming HCD for Contact Tracing Technologies by Divya and Kiko
- Purposeful Innovation Fitness as a Vehicle to Unlock Opportunities in Crises by Pauliina, Tiina and Floris
- Designing Human-Centric Solutions (private) by Maimuna
- Voice for Urban Mobility Platform Elaboration by Triin
- Discovering, unlearning and relearning the thinking and doing by Martina
- A multidimensional approach towards disaster and crisis management by using social media and artificial intelligence COVID-19: A Case study Proposal (private) by Ahmed
- Human-Centred Research and Design in Crisis (private) by Özge
- Ethically responsible information design for communicating of zoonoses (private) by Suvi
- Without diverse representation, there is no empathy for diverse experiences by Henriette
- Social media impact on crisis management by Maryam

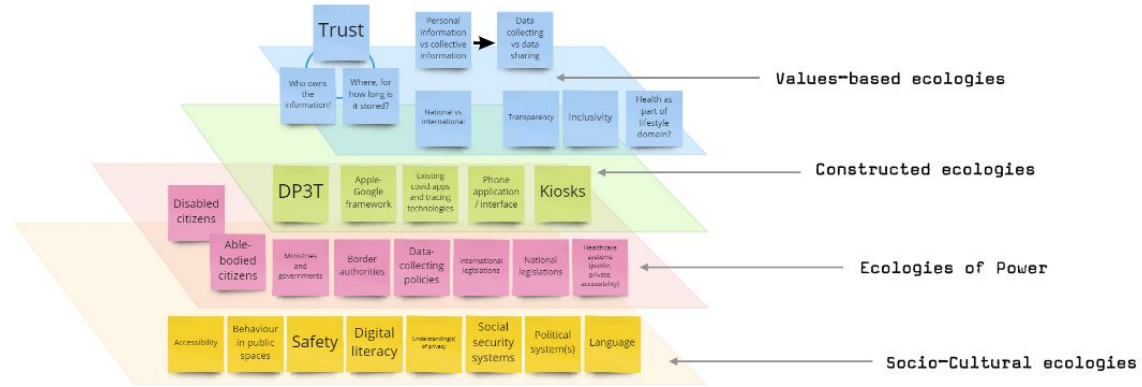


Participants Design Directions

STAKEHOLDERS MAP



MAP OF ECOLOGIES



Summary of Project Concept Presentations

« Previous / Next »

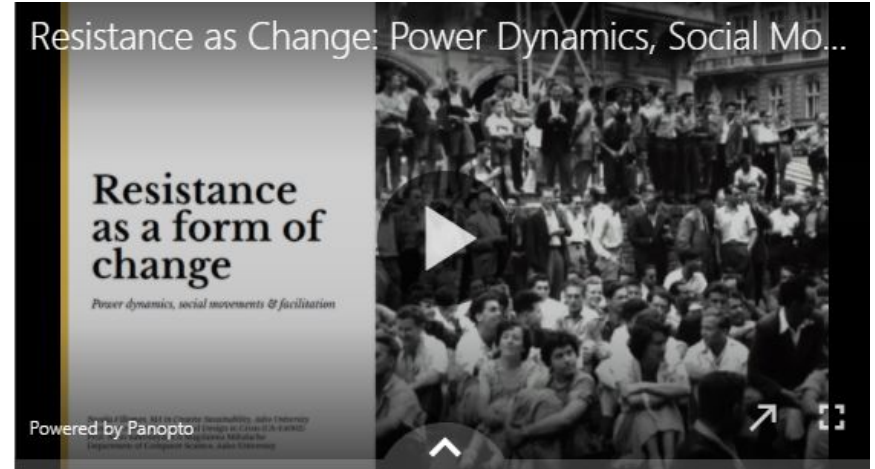
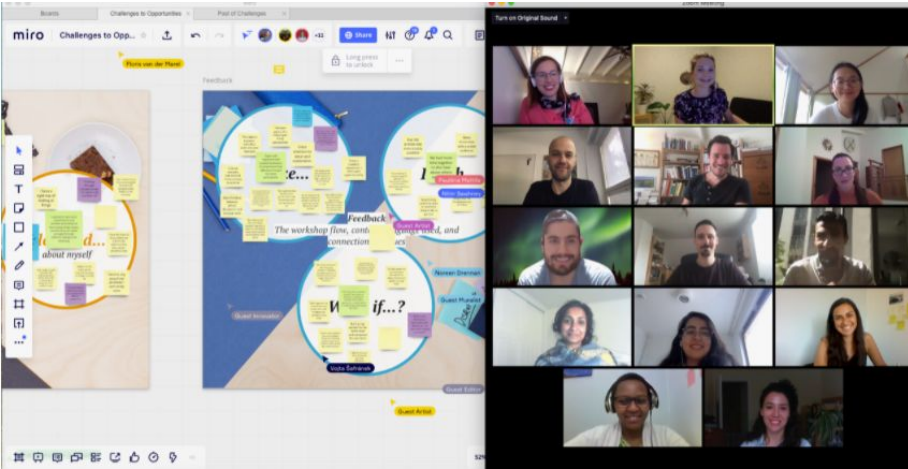
magdamihalache / July 22, 2020 / Final Assignment, Projects, Summary Reflections / Edit

Participants in the *Human-Centred Research and Design in Crisis* course are taking a two-week break from July 15-30. This provides an opportunity to reflect on the concepts learned throughout the course, as well as prepare for Part 2 which will be more project-oriented.

In wrapping up part 1, students posted their final project concepts, unveiling the design directions and putting together the assignments they have been working on over the previous 6 weeks.

The final design directions are meant to build on the 3 previous assignments and to address the crisis

Participatory Workshops



Project Presentations

- Maimuna Syed & Nagadivya Balasubramaniam (30min)
- Floris Van der Marel, Pauliina Mattila, Tiina Tuulos (30 min)

Color Code for Sticky notes

- Supports framework (Green)
- Does not support framework (Orange)
- Will be implemented in future (Purple)



Purposeful Innovation Skills to Unlock Opportunities in Crises

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



ACKNOWLEDGEMENT OF COUNTRY

On behalf of those present I acknowledge the Wurundjeri people of the Kulin Nation who are the traditional custodians of the land on which we now meet. I pay my respect to their Elders: past, present and emerging.

I also pay my respect to all Aboriginal and Torres Strait Islander people of Australia and hope that the path towards reconciliation continues to be shared and embraced.



HELLO!

A!
Aalto University
Design Factory

F 
DESIGN FACTORY
MELBOURNE



Tiina Tuulos

PhD in Capabilities for
the Future of Work



Pauliina Mattila

PhD in Innovation
Ecosystems



Floris van der Marel

PhD in Unheard Voices in
Participatory Design

AGENDA

- ✿ Scope: purposeful innovation fitness
- ✿ Two experiments + insights
- ✿ Next steps

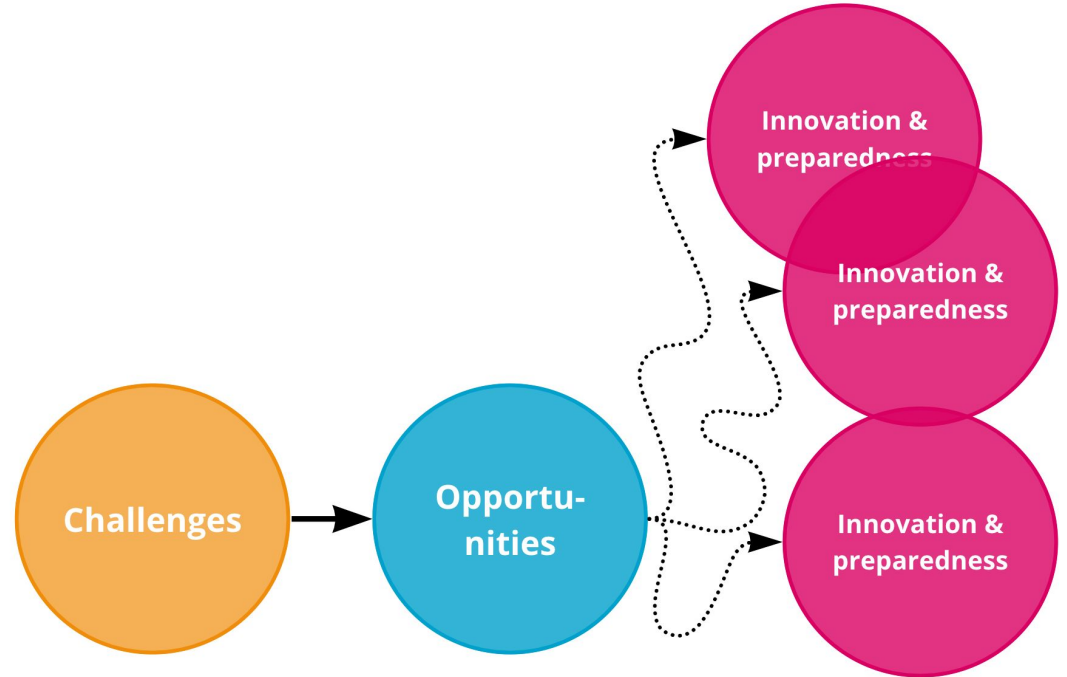


**CRISIS AND DISRUPTION
ARE OPPORTUNITIES FOR
TRANSFORMATION**

OUR PROJECT: PURPOSEFUL INNOVATION FITNESS

✿ Support professionals in being **resilient** and push for **meaningful**, sustainable **transformations** during crises

✿ Define a transferable set of **tools** and **skills**, which could be learned and experienced in various forms.



Summary [blogpost](#) of our project vision

CRISIS AS A BIRTHPLACE FOR NEW OPPORTUNITIES

-  Crises can be defined as **perceptions of a situation** that cause emotional imbalance or turmoil, where **typical toolkits and coping mechanisms no longer are sufficient** to cope and deal with the situation.
-  Crises can provide an **opportunity for transformation** and “usher in change that will be of value”. (Tedeschi 2020:128)
-  “Crises lead many people to find deep value in their jobs, develop professionally, and grow personally.” (Martela & Kent 2020)

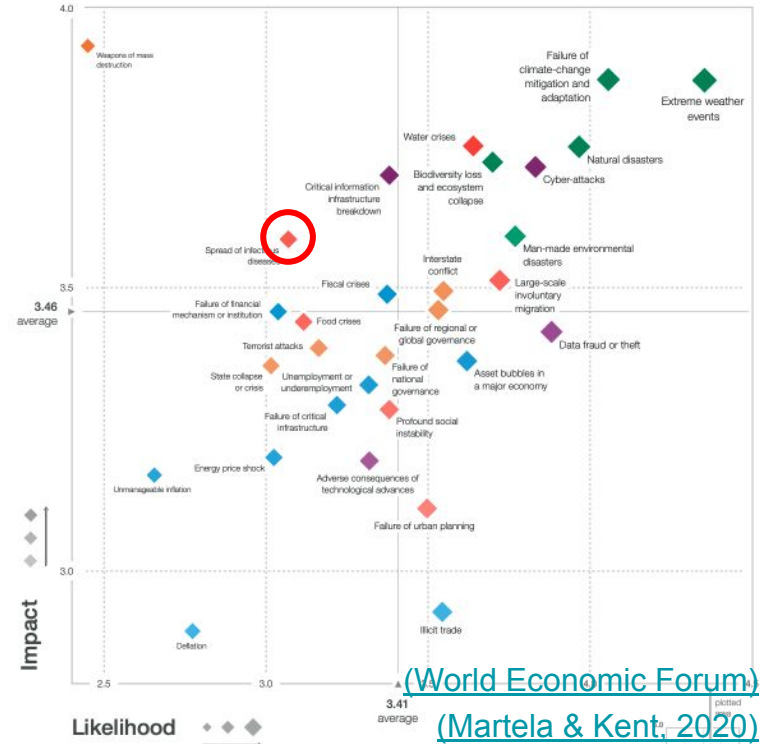
BETTER PREPAREDNESS FOR THE UNKNOWN

Figure I: The Global Risks Landscape 2019

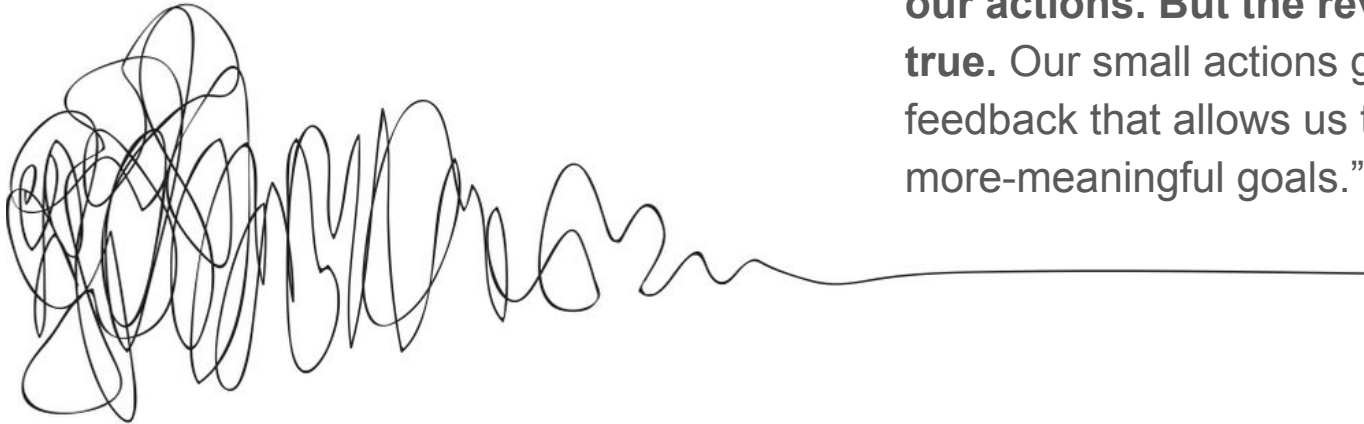
Need to be better prepared for an unknown future, not just crises.



What are the skills and capabilities that are universally beneficial in change and disruption but also in times of balance?



DESIGN AS AN APPROACH TO NAVIGATE UNCERTAINTY



“We assume that **our goals determine our actions. But the reverse is also true.** Our small actions generate feedback that allows us to discover more-meaningful goals.” [\(Martela & Kent, 2020\)](#)

Research & Synthesis

Concept / Prototype

Design

TWO EXPERIMENTS

LEARNING IS A JOURNEY, NOT A DESTINATION



- ✿ "Everyone says that **learning is essential** for companies' success—and for your own. And yet, on a daily basis, who cares for your learning? No one. **People care about what you have learned.** They care about your results..."
- ✿ "Transformational learning rarely builds up so smoothly. It does not just make us more knowledgeable. It reveals what mastery prevents us from knowing. It does not just refine our skills. **It changes our perspective.** And it is not just a matter of time."

AGENCY TO CREATE CHANGE

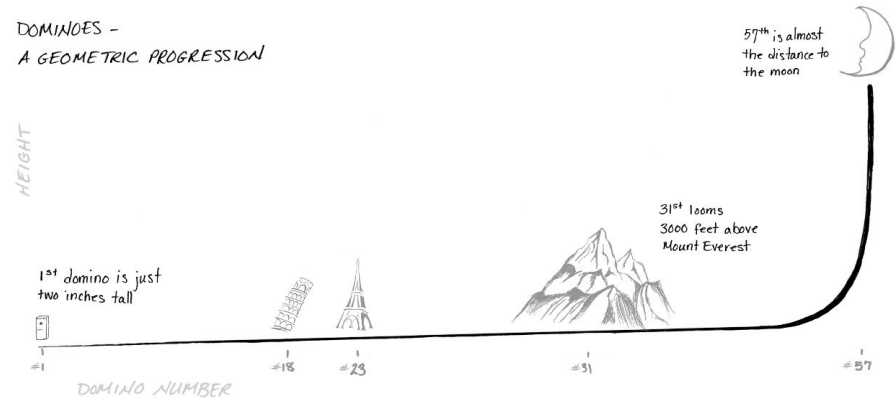


“Agency thus involves not only the deliberative ability to make choices and action plans, but the ability to give shape to appropriate courses of action and to motivate and regulate their execution.”

(Bandura, 2001: 8)

DOMINO EFFECT OF VALUE-BASED ACTIONS

“The path to great achievement is often lined with steps that are aligned with one another. No matter how small the first step is, the power generated from that first activity compounds into something much greater. There is literally no limit to the potential you can achieve when your priorities, goals and daily actions are lined up for you to knock over one by one.”



ELEMENT 1. CHALLENGES TO OPPORTUNITIES



Brett's workspace



Elwin's workspace



Dean's workspace



Dave's workspace



ELEMENT 1. CHALLENGES TO OPPORTUNITIES

Your challenges

1. Map challenges (5min)

high Impact

low Influence

low high

Prioritised challenges through mapping

2. Temperature check (5min)

studiolab.ide.tudelft.nl
Premo | Pieter Desmet

3. Underlying issues (10min)

chosen challenge

- why is this happening?
- why is this happening?
- why is this happening?
- why is this happening?
- why is this happening?

Unpacked challenges through questioning

4. Invite questions (15min)

what works? what doesn't work? why is? underlying issue what if?

5. Envision impact (5min)

underlying issue question question question

reframed issue envisioned impact opportunity as question

Actionable opportunities through reframing

6. Flip into opportunity (10min)

Possible solutions First steps

Reframe


opportunity as question


7. Temperature check (5min)

hopeful, inspired


Premo | Pieter Desmet


KEY INSIGHTS

-  *“We have much more room for action than we think, we just need to learn how to switch to a different narrative than the one we’re used to!”*
 - **Identifying and unpacking challenges increases agency**


-  *“My challenge is more about how I feel about it rather than the actual practical issues.”*
 - **Reflecting on emotions to identify hindrances**

KEY INSIGHTS


-  *“I learned to break things down into key issues, values of others, and where I can have agency.”*
 - **Breaking things down enables planning for action**

-  *“I need to seek out others to gain other perspectives on issues.”*
 - **Questioning supports unlocking new perspectives**

KEY INSIGHTS

 *“If this was done in-person would it have been as effective or more awkward? I wonder if this online approach is actually better or a hybrid approach would also work?”*

- **The digital environment created a safe space for authentic collaboration**

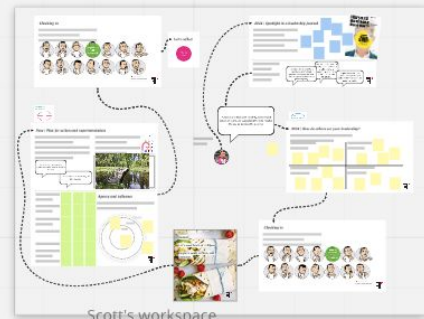
 *“We got to talk through how uncertain times are now – it helped even on a personal level to just accept that this new normal will change how we behave and think.”*

- **From fight, flight or fright to “figuring it out”**

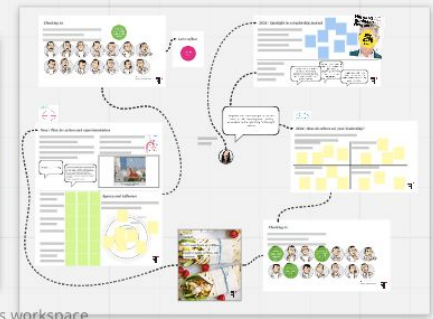
ELEMENT 2. VISION TO ACTION



Ben D'A.'s workspace



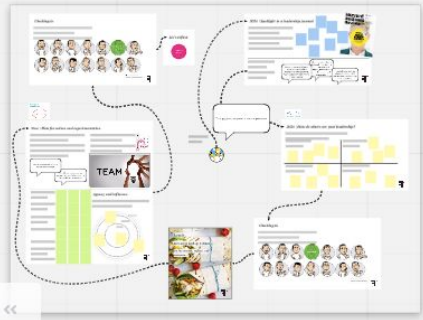
Jacqui S.'s workspace



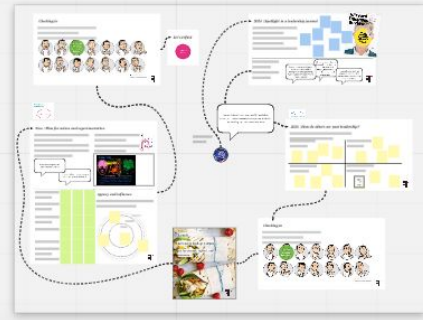
Ben J.'s workspace



Scott's workspace



Martin's workspace



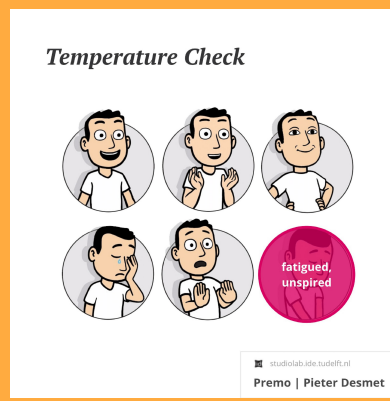
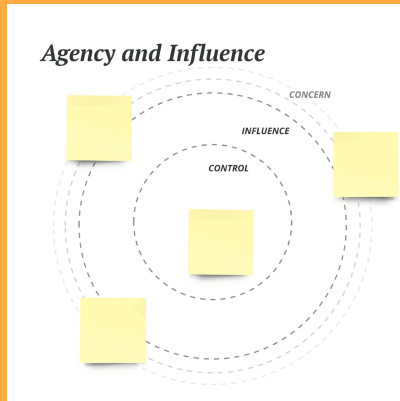
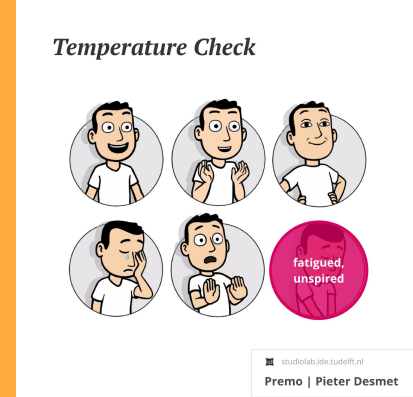
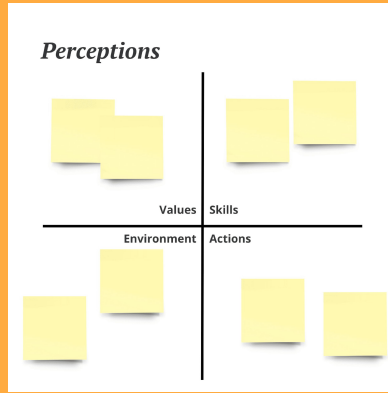
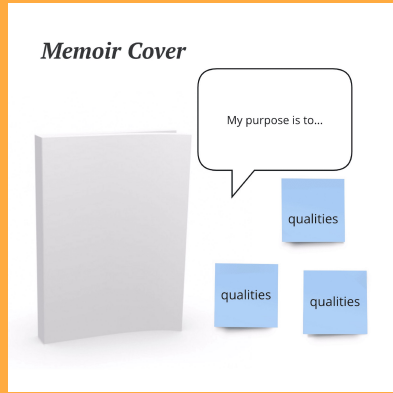
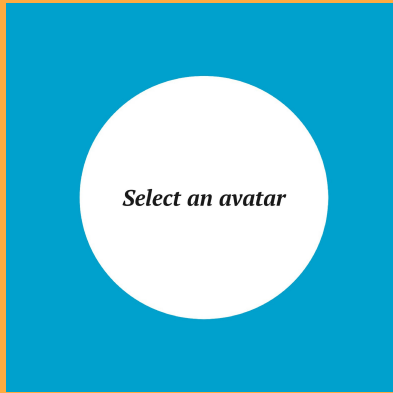
Welcome




Jacqui D.'s workspace



ELEMENT 2. VISION TO ACTION



KEY INSIGHTS

-  *“To put emphasis on my leadership mindset. Think about who I am and embracing that in my leadership style and making sure i stay authentic and true to myself”*
- **Thinking about future vision enables more meaningful actions in the present**
 - **Bringing personal purpose and values to the forefront and making them explicit.**
 - **How to be adaptive, but not changing. Be authentic.**

KEY INSIGHTS



“Reminded me of what I already know, but don't necessarily action or set time aside to reflect, plan and make changes”

- **Design approach gives tools for participants to action on issues or create change.**

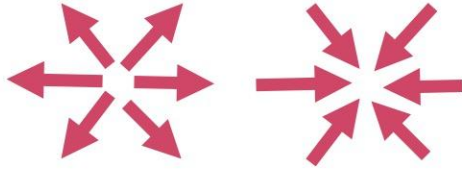


“Definitely made me think what kind of leader I want to be in the future”

- **Opportunity to create a stronger connection between vision and actions.**
- **Recognising what impact you have on other people. We don't operate in a vacuum.**

SHIFTING PERSPECTIVES ENABLES TO SEE OPPORTUNITIES AND TAKE ACTION

Inside out - outside in

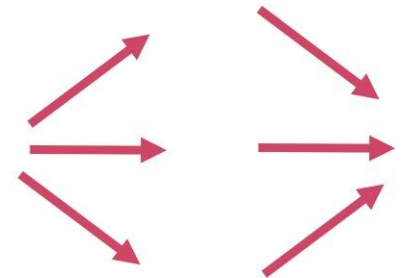


Zoom in - zoom out







Short term - long term

Divergence -
convergence







WHERE TO FROM HERE?

NEXT STEPS

-  More experimentation in different contexts (e.g. Rural Hospital in Australia)
-  Include more reflective practice and purpose-driven action
-  Populate different skills that we consider important in our toolkit
 - Identify skill, justification of its importance and related tools and methods
-  Identify ways to make learning stick
 - Identify hindrances and enablers people experience when actioning on their learnings
 - Create follow-up interventions

QUESTIONS WE CONTINUE ASKING



-  What is the world we want to be a part of creating?
-  What might enable or hinder us to make this happen?
-  How do our values and purpose manifest through behaviours and action?
-  What impact does this have for the future of work?

THANK YOU

We welcome all types of questions, reflections, ideas, concerns, critiques, and other thoughts.



REFERENCES

- Bandura, A. (2001). Social cognitive theory: An agentic perspective. *Annual review of psychology*, 52(1), 1-26.
- Keller, G. & Papasan, J. (2012). [Use the domino effect to crush your biggest goal](#), *The One Thing: The Surprisingly Simple Truth Behind Extraordinary Results*. Accessed 2nd September 2020.
- Martela, F. & Kent, D. (2020) [What to do when work feels meaningless](#). *Harvard Business Review*. Accessed 2nd September 2020.
- Mattila, P., Tuulos, T., Van der Marel, F. (2020) [Purposeful Innovation Fitness as a vehicle to unlock opportunities in crises](#).
- Mattila, P., Tuulos, T., Van der Marel, F. (2020). Reflection on a participatory workshop: [Purposeful Innovation Skills to Unlock opportunities in Crises](#).
- Newman, D. [The Design Squiggle](#). Accessed 2nd September 2020.
- Petriglieri, G. (2014) [Learning is the most celebrated neglected activity in the workplace](#), *Harvard Business Review*. Accessed 2nd September 2020.
- Scoblic, P. (2020). [Learning from the future. how to make robust strategy in times of deep uncertainty](#). *Harvard Business Review*. Accessed 2nd September 2020.
- Tedeschi, P. (2020). [Growth After Trauma](#), *Harvard Business Review*. Accessed 2nd September 2020.
- World Economic Forum, (2019). [Global Risks Report 2019 14th Edition](#). Accessed 2nd September 2020.

FUTURE DIRECTIONS: RESEARCHING HCRD IN CRISIS

What will you do with what you have learned in the course?

A green rectangular board containing seven yellow sticky notes arranged in a scattered pattern. The notes are blank, representing ideas for future directions in researching HCRD in crisis.

COURSE WEBSITE AS PUBLIC RESOURCE

What can we do to improve the website content, design and experience?

A teal rectangular board containing seven yellow sticky notes arranged in a scattered pattern. The notes are blank, representing ideas for improving the course website as a public resource.



Next: Submitting Final Write-up & Reflections on Blog

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

Aalto University

*Thank you for joining & contributing
to this exploratory initiative.*

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