



LAND OF THE CURIOUS





NEW DIGITAL FORMS OF CROSS-SECTORAL COLLABORATION: CASE FAST EXPERT TEAMS & P2X INVESTMENTS

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NEW FORMS OF ORGANIZING

NATURE OF KNOWLEDGE

- Knowledge and expertise are path dependent
- Scope and scale in knowledge production
- Collective personal knowledge as the most valuable

DIGITAL OPPORTUNITIES

- Efficient connecting across time and space
- Effective knowledge sharing via facilitation and social technologies

TRUST

- Communication, Collaboration & Commitment
- Collective goals instead of individual goals
- Sharing and using (tacit) knowledge

SOLVING COMPLEX PROBLEMS & TACKLING OPPORTUNITIES

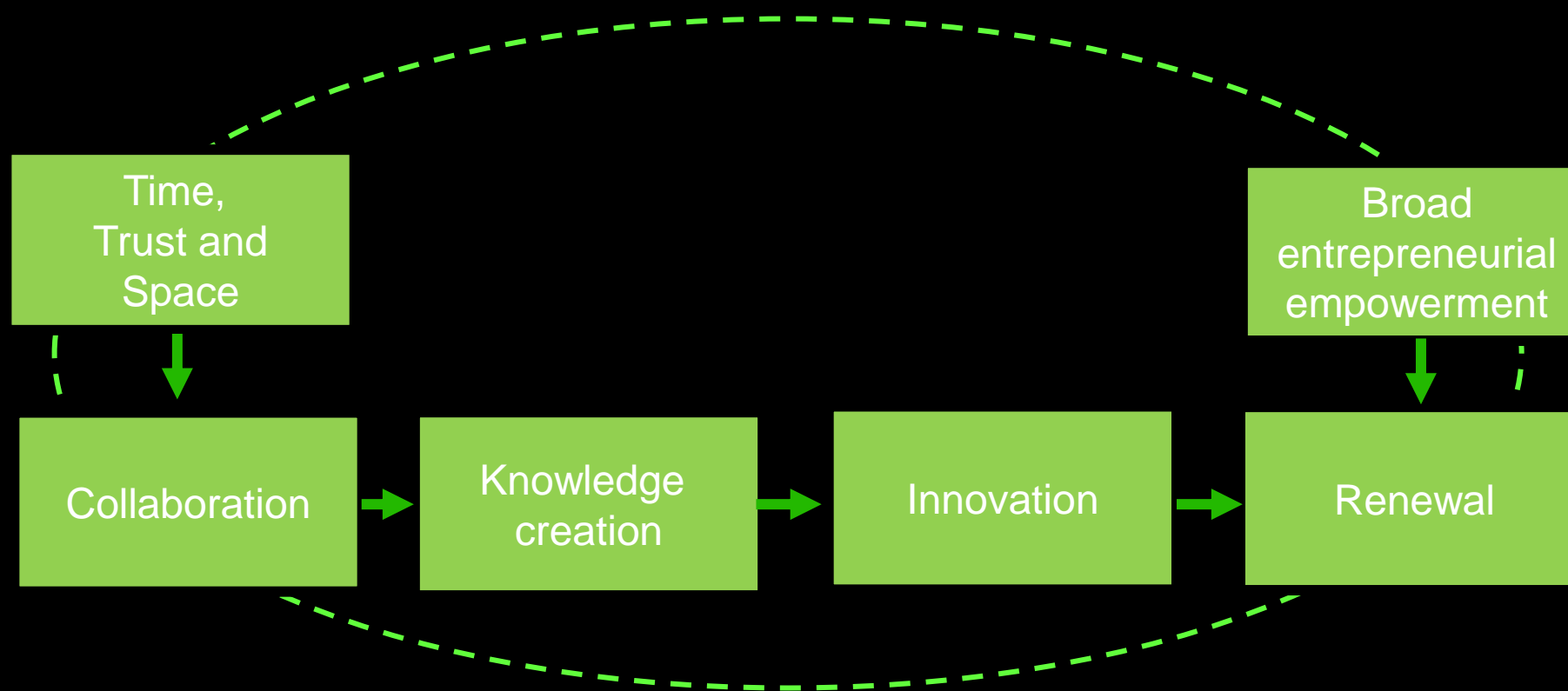
COMPANIES VS. COMMUNITIES

- Shared employer
 - Extrinsic motivation
 - Hierarchy
 - Stable structures & boundaries
 - Static
 - Limited resources
- Shared interest
 - Intrinsic motivation
 - Networks
 - Flexible structures & boundaries
 - Dynamic
 - Limitless resources

TRADITIONAL TEAM VS. TEMPORARY EXPERT TEAM

- Clear task
- Stable membership
- Given roles
- Continuity
- Familiarity
- Similarity
- Hierarchy
- Emerging task
- Dynamic membership
- Fluid roles
- Temporary
- Unfamiliarity
- Diversity
- Trust

TIME, TRUST, AND (DIGITAL) SPACE



FAST EXPERT TEAMS COLLABORATION MODEL IN A NUTSHELL

- Temporary expert community and teams tailored for the task
- Digital collaboration platform and tools for efficiency
- Intrinsic motivation of voluntary experts
- Asynchronous knowledge integration across time and place
- Facilitated process and shared leadership
- Trust building for effectiveness



FAST EXPERT TEAMS

vs. CORONA

– LET'S PREVENT FINLAND'S PARALYSIS

This report describes the Fast Expert Teams initiative of over 100 experts, outlines measures backed up by research and experience, presents the eight teams that make up the Fast Expert Teams network and includes links to reports on their work.

CASE FAST EXPERT TEAMS FOR DECONTAMINATING RESPIRATORS (2020)



Photo: Sirpa Jalkala, PV

- A multi-disciplinary team of 32 unfamiliar experts
- 12 organizations across sectors
- Digital communication
 - MSTeams, mobile phone, SMS, WhatsApp
- Building strong swift trust
 - Structures, processes & relationships

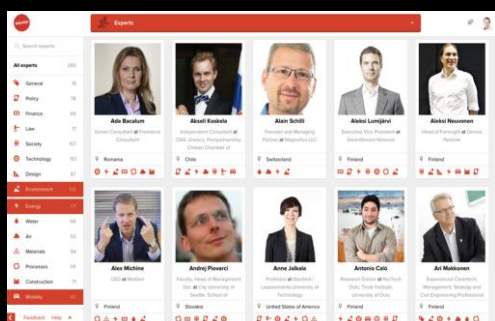


Photo: Marko Haapala, PV

FULL-SCALE PILOT PLANT IN SIX WEEKS

FAST EXPERT TEAMS CASES

Case Solved



Case Hiedanranta



Case Covid-19



Case Soletair Power



Case WORK2030



Case Clean energy & P2X



OVER 500 EXPERTS PARTICIPATED IN VARIOUS INITIATIVES

FAST EXPERT TEAMS – CASE CLEAN ENERGY & P2X INVESTMENTS

Theme How to get more clean energy & P2X investments to South Carelia and Eastern Finland?

- Complex and systemic problem requiring cross-sectoral collaboration
- Composing teams based on problem definition interviews
- Snowballing to get interested top experts engaged
- Setting expectations, 10 hrs pro bono work for a one month collaboration
- Over 60 experts joined across societal sectors
- Eight solutions for implementation

CLEAN ENERGY & P2X INVESTMENTS COMMUNITY & TEAMS

1. Electricity production and networks

2. Industry use of clean energy

3. CO2 capture

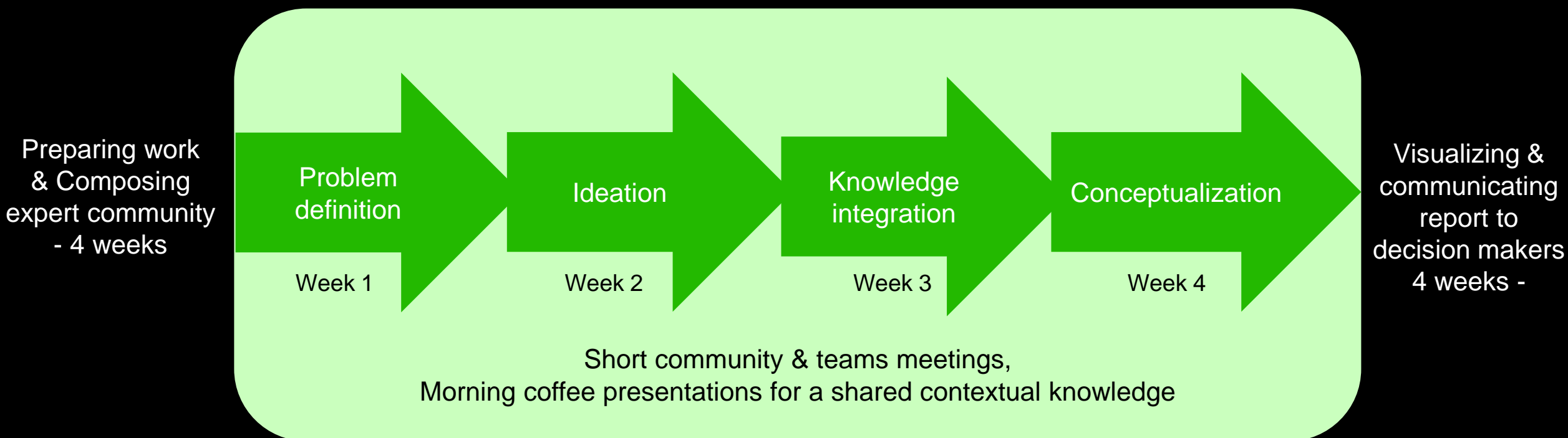
4. Start-ups & piloting

5. P2X value chain

6. Investments & funding

7. Regulation & Global context

FAST EXPERT TEAMS COLLABORATION PROCESS



GOAL ORIENTED COLLABORATION IN THE TEMPORARY EXPERT COMMUNITY AND TEAMS

SOLUTIONS

1

Mallinnetaan PtX-arvoketju toimijoiden yhteistyössä tarvittavien teknologiaratkaisuiden ja kannattavan liiketoiminnan kehittämiseksi.

2

Perustetaan hankeyhtiö toteuttamaan yritysten, LUT-yliopiston ja kaupunkien teollisen mittakaavan pilotoiteja.

3

Esitetään kansallisen tason kärkihankkeeksi itäisen Suomen teollisen mittakaavan CCUS (Carbon Capture, Utilization, and Storage) -tutkimus- ja teknologiakeskusta.

4

Kymmenkertaistetaan LUT-yliopiston tutkimuslähtöisten start up -yritysten määrä kehittämällä toimintaympäristöä.

5

Perustetaan siemenvaiheen riskirahasto tukemaan kansainvälisten ja kotimaisten opiskelijoiden energia-alan start up -yritysten perustamista.

6

Nostetaan kansainvälisten opiskelijoiden sijoittuminen itäisen Suomen yrityselämään strategiseksi tavoitteeksi.

7

Organisoidaan Invest In -verkosto tukemaan kansainvälisten energiamurroksen investointien ja rahoituksen saamista itäiseen Suomeen.

8

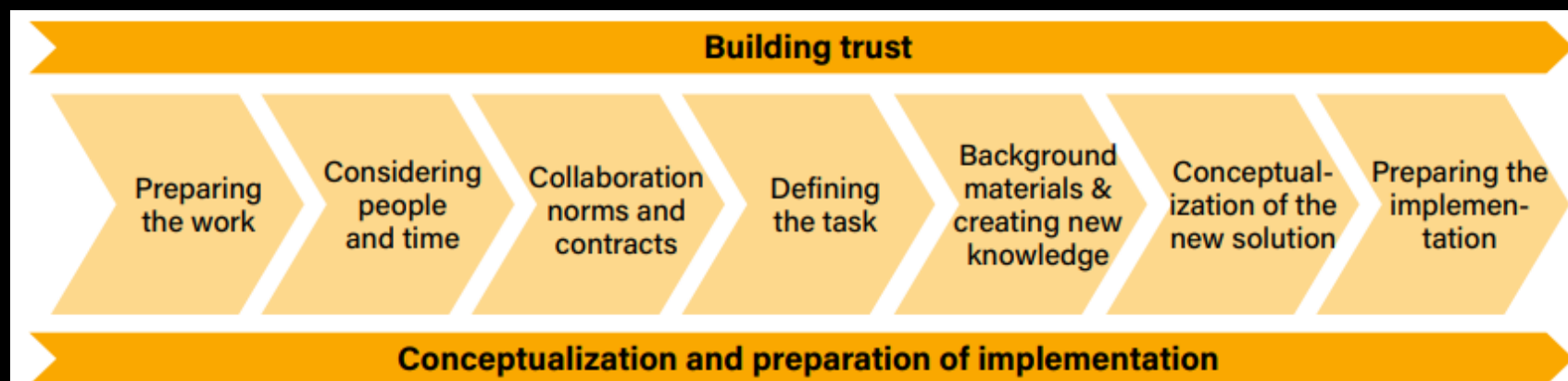
Kutsutaan asianomaiset tahot ratkomaan yhteistyössä itäisen Suomen tuulivoiman lisäämiseen liittyvät haasteet.

A WORKBOOK ON FAST EXPERT TEAMS MODEL:

Freely available online:

In Finnish <https://flippingbook.com/account/online/34406969>

In English <https://flippingbook.com/account/online/705096259>



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THANK YOU

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Six LUT Business School PhD students working with related topics

OECD reports, where Fast expert teams as a case example:

[Co-creation during COVID-19 : 30 comparative international case studies | OECD Science, Technology and Industry Policy Papers | OECD iLibrary \(oecd-ilibrary.org\)](#)

[How did COVID-19 shape co-creation? : Insights and policy lessons from international initiatives | OECD Science, Technology and Industry Policy Papers | OECD iLibrary \(oecd-ilibrary.org\)](#)

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[Kirsimarja's research papers](#) [Google scholar](#)

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