

Co-designing as co-futuring: Tonttila, a community case study in the City of Lahti

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1. Defining co-design
2. Co-designing a design strategy
with Lahti
3. Tonttila – Designing with a Finnish
community
4. What next?

1. Defining co-design

Co-design is inclusive

... an approach predicated on the concept that people who ultimately use a designed artifact are entitled to have a voice in determining how the artifact is designed

Adapted from Carroll (2006)

Co-design is inclusive

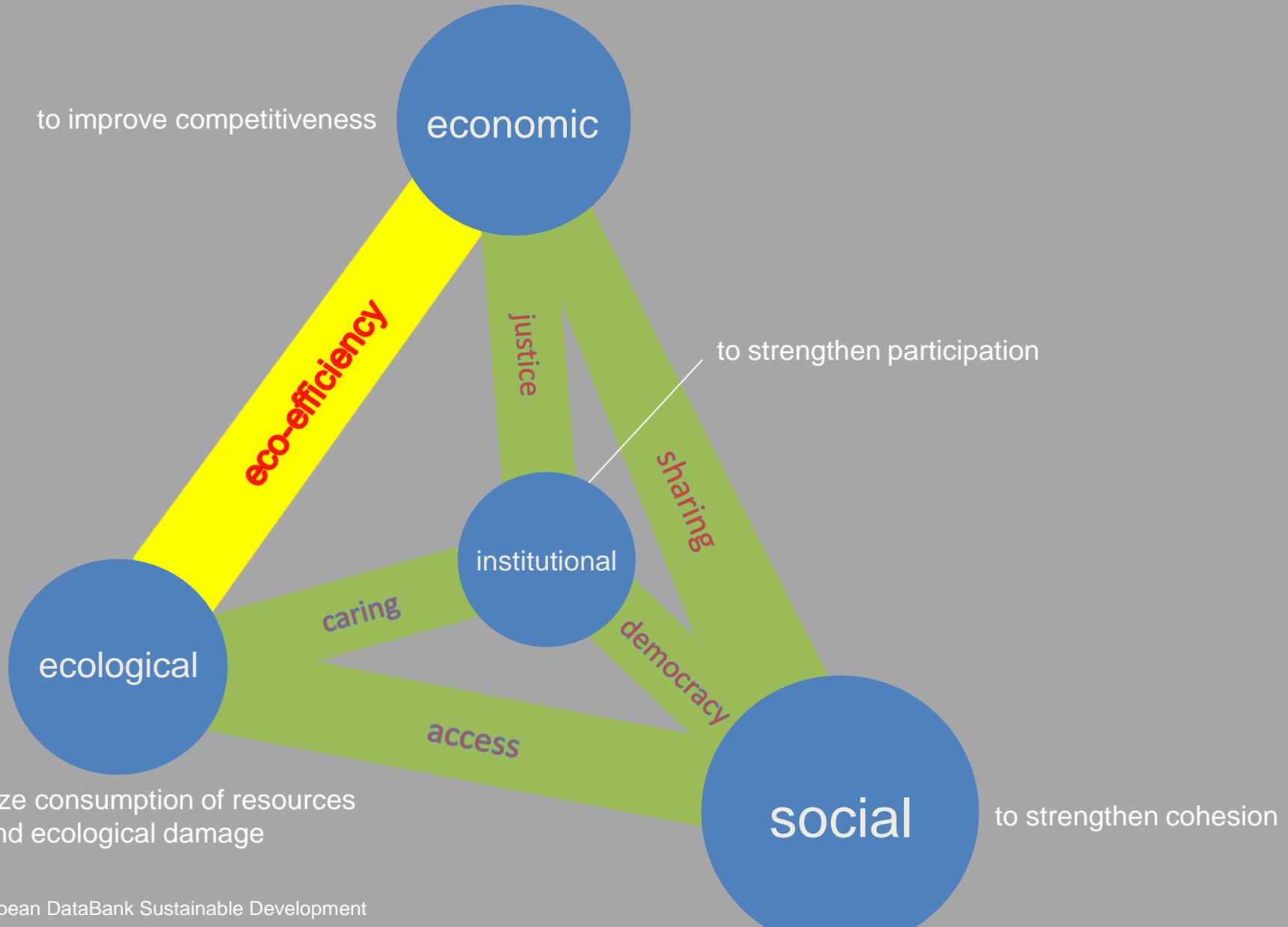
... an approach predicated on the concept that people who ultimately use a designed artifact are entitled to have a voice in determining how the artifact is designed

Adapted from Carroll (2006)

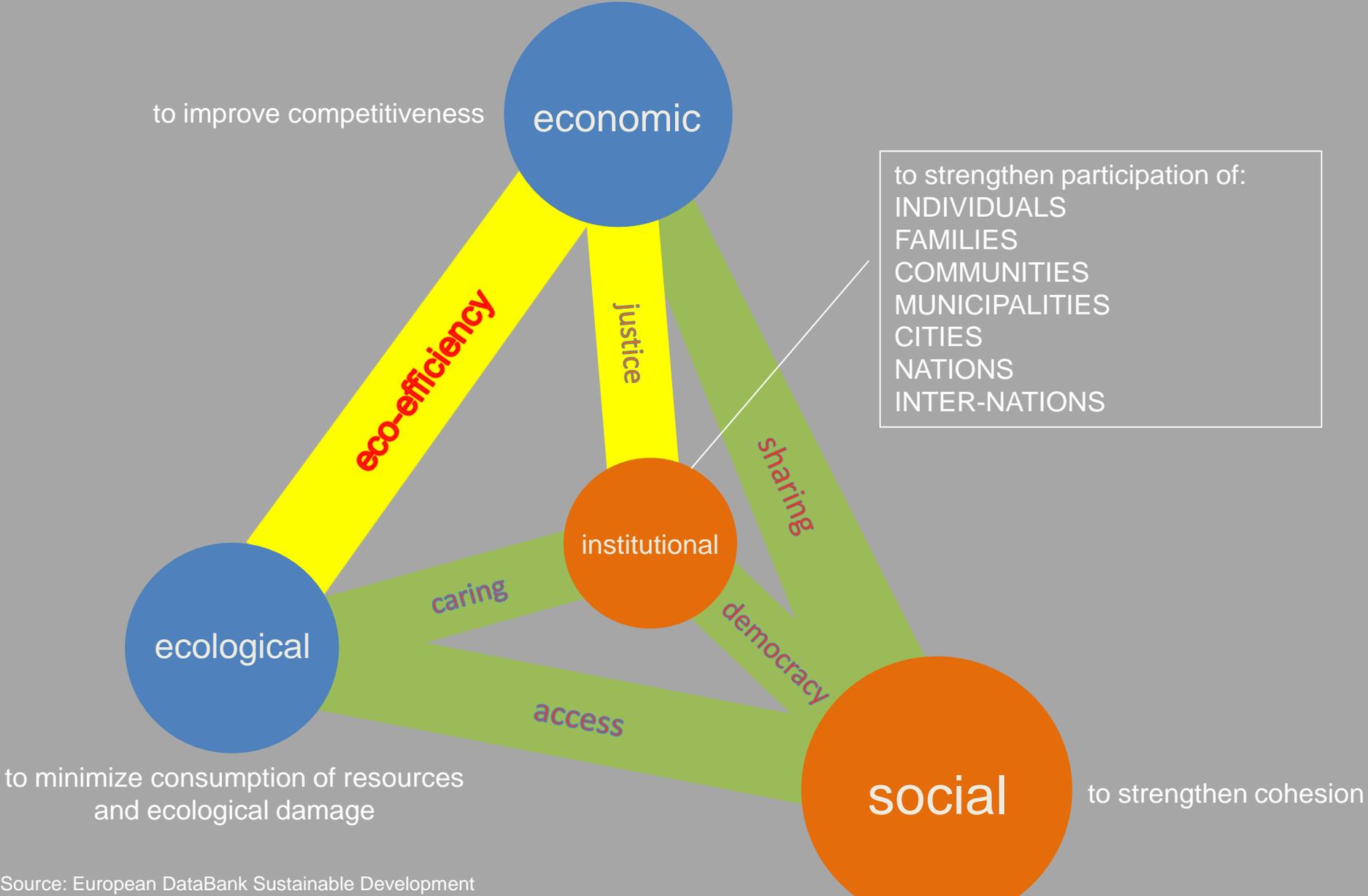
... is inclusive, encompassing, collaborative, co-operative, concurrent, human-centred, participatory, socio-technical and community design among others

CoDesign: International Journal of
CoCreation in Design and the Arts,
Taylor & Francis

Co-design for co-futuring sustainability

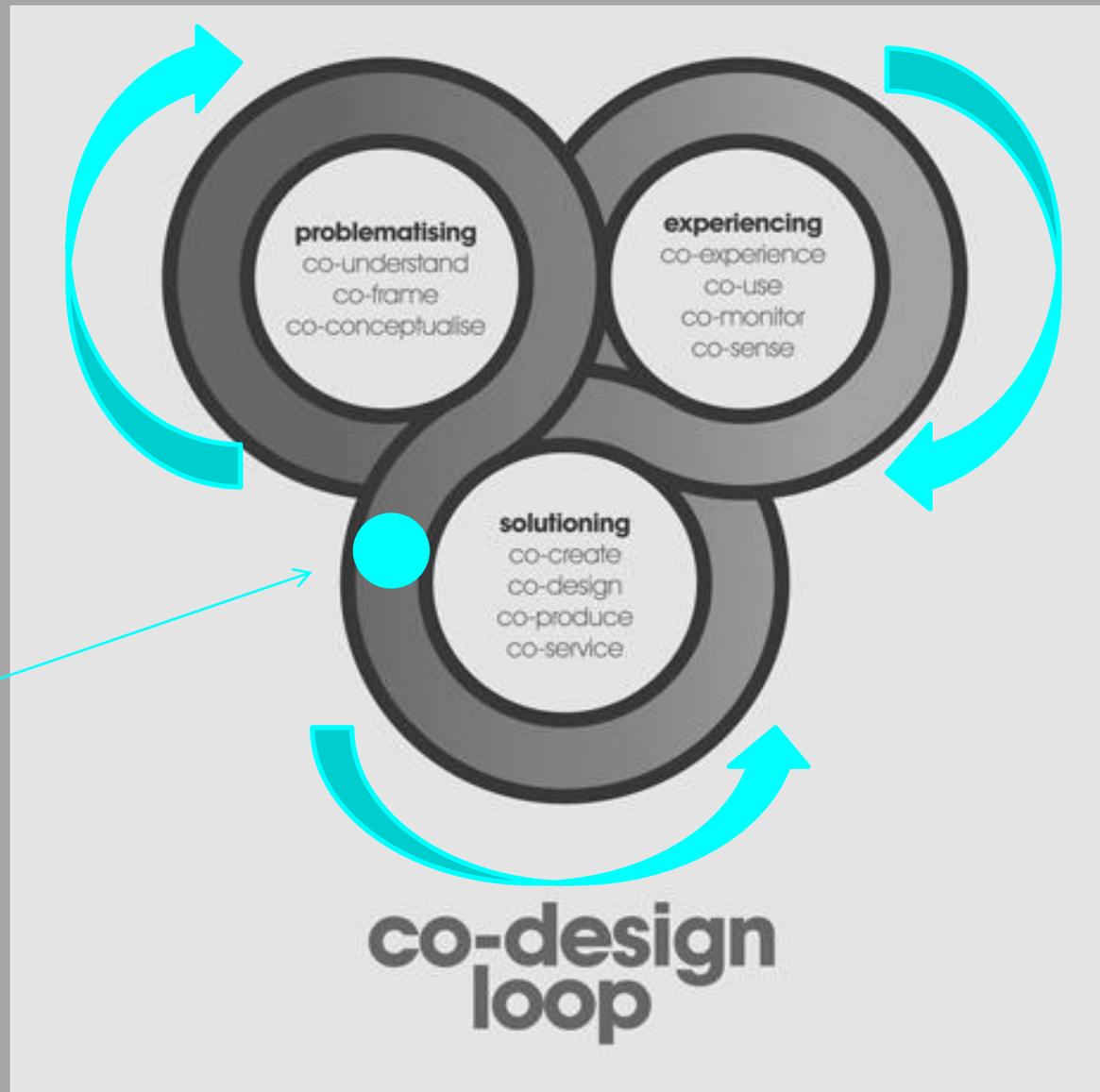


Co-design is about PARTICIPATION

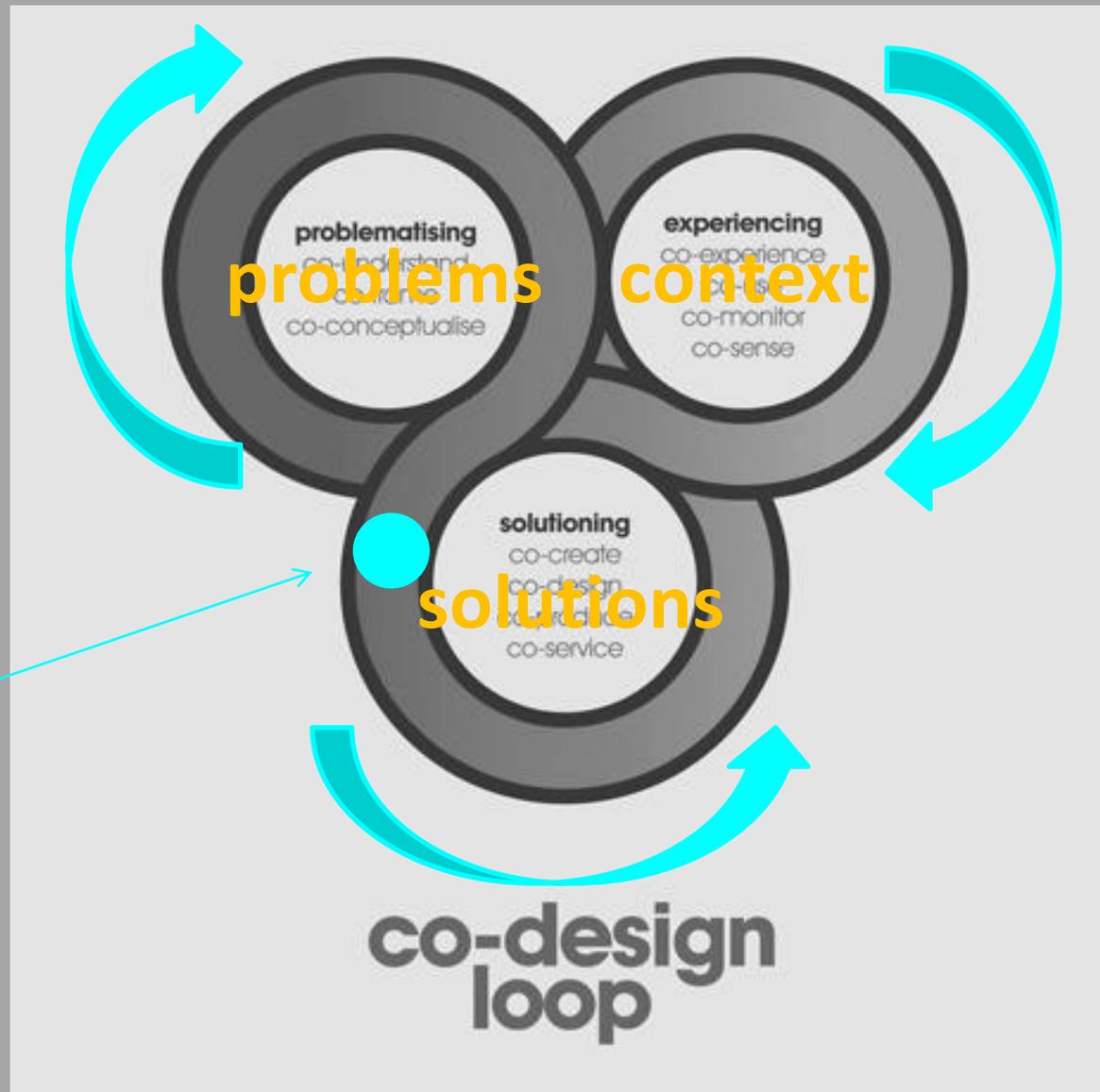


Source: European DataBank Sustainable Development

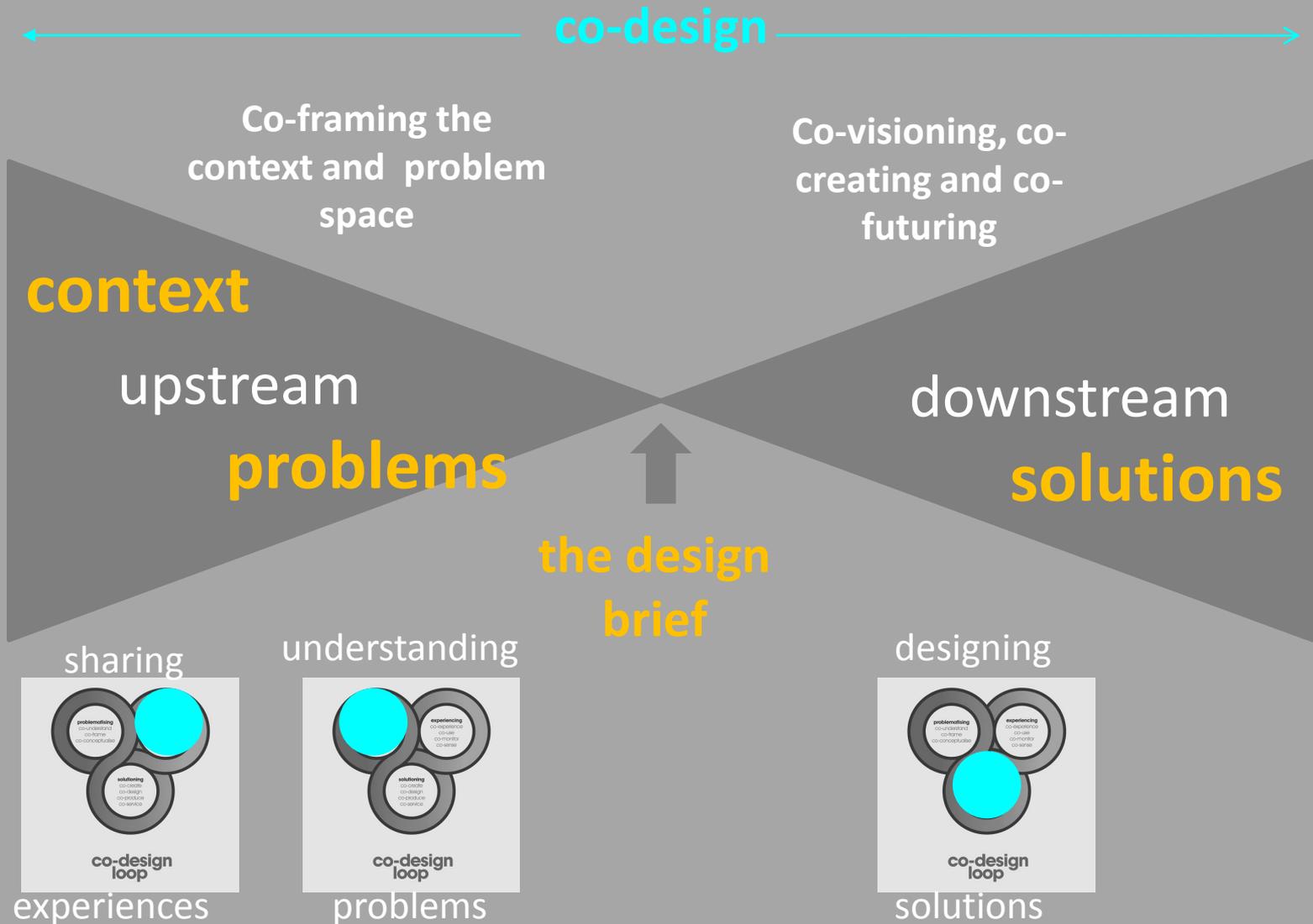
Co-designing context, metaproblems, the brief and solutions



Co-designing context, metaproblems, the brief and solutions



We need to co-design *upstream* of the design brief



2. Co-designing a design strategy with Lahti

Lahti ...what kind of sustainable city is designed?

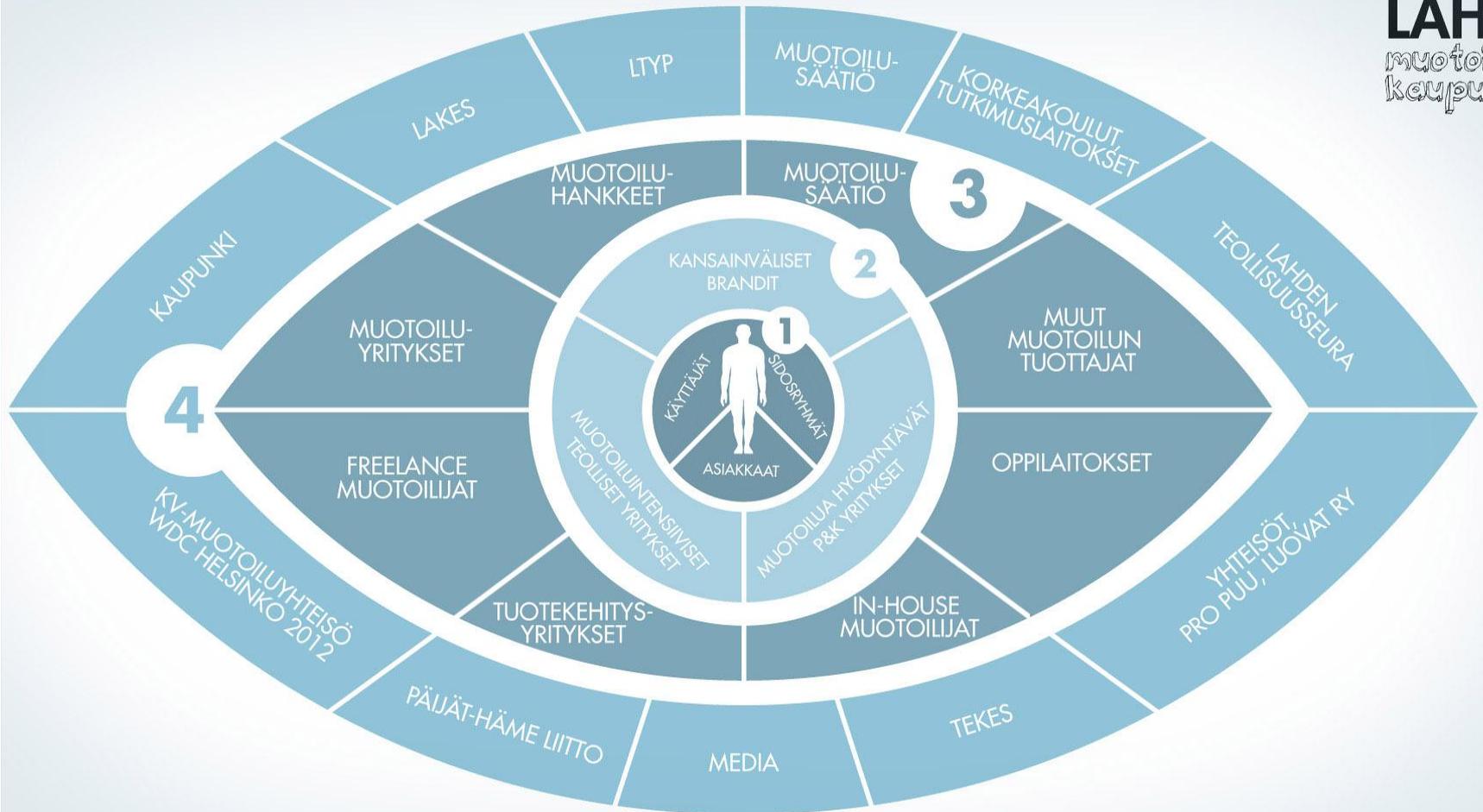


Teams mapping the stakeholders for 'Lahti design city'



Stakeholder mapping for 'Lahti design city'

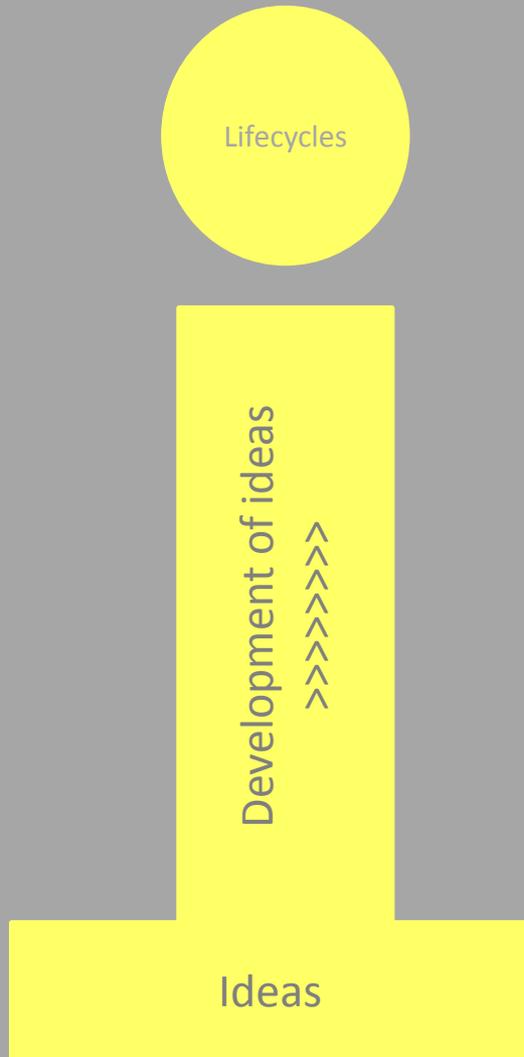
LAHTI
muotoilu=
kaupunki



1 Citizens ;2 City, Service Providers & Retailers ;3 Designers, educators, associations ;4 Industry, Funding organisations, Educational establishments in and beyond Lahti Copyright City of Lahti 2011

KAUPUNKI NÄKÖKULMA
ELINKEINOELÄMÄN NÄKÖKULMA

I.C.E. and Lahti city 'meta-design brief'



'Generating ideas and creating stories by joyful and active co-designing while recognising the importance of life cycles and real needs in our local environment and bio-region.'

Cross-functional co-design
Environmentally conscious
ideas from people

User-centred and co-design projects for Lahti 2002-2012

2002-2010
User-centred
design

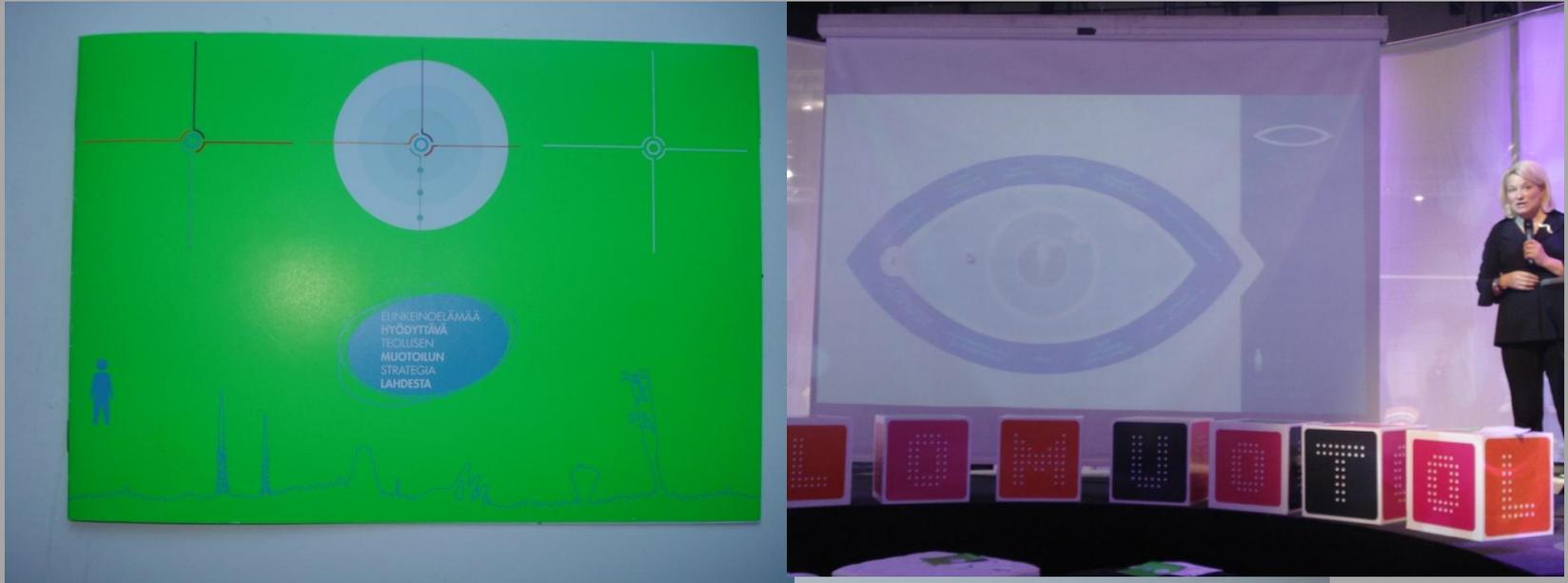
2011 onwards
Co-design



The whiteboard is filled with handwritten notes detailing various projects and design processes. Key notes include:

- 2002-2010 (User-centred design):**
 - ALHAKI FORUMI 2009
 - CITY PLANNING 2009
 - INFORMATION SESSIONS 2009
 - VEIKKILUOKKA / water fountains 2008-2009
 - KE - project: NAMING AND CROWDING OF LAHTI DESIGN CAPABILITIES
 - NO. 11, 2010 CO-DEFINING LAHTI CITY OF BELIEV 'META-SKIER'
 - DEVELOPMENT OF GREEN CITY / CITY OF LAHTI
 - ELMO ELECTRIC DELIVERY VAN PROJECT 2010
 - TIKUTUKE 2010
 - HELMI WORKSHOP 3-4/10
 - ECO-EFFICIENCY OF LAHTI OFFICES
 - FUTURE CITY CONCEPT LAHTI 2010
 - ESTATE TRACTOR WITH CITY GARAGE
 - MEIDAN ALEKSI 2011 AUTUMN
 - COOPERATIVE LIVING ENVIRONMENT J CAPEL 2010-2011
 - USER-CENTRED DESIGN TEAM DEVELOPMENT
- 2011 onwards (Co-design):**
 - FUTURE CITY LAHTI DESIGN INSTITUTE
 - 6.4.2012 TEDKO CO-DESIGN CRISIS PLAN, CONCEPT WORKSHOP FURNITURE FOR OLDER PEOPLE
 - Finlandia 100 (2010) 2012 -concepting -testing
 - Tedko workshop 05.2012 -Lahti D participants in co-design WS
 - IPAB JAN - MAY 2012: USER CENTRED INDUSTRIAL DESIGN STRATEGY
 - Co-design of Jalkaranta & Liipola schools / multifunctional buildings
 - Jalkaranta & Liipola schools 4-5/2012
 - URBAN AGRICULTURE (KAUPUNKIIN YHDESSÄ TOUGETI LANK FUTURE INSTIS - PROJ)
 - ACCESSIBILITY PROGRAM FOR DESIGN OFFICE 10.2011 → QUESTIONNAIRE 02/04 FOR GREEN AID / ACCESSIBILITY FOR DESIGN OFFICE
 - SAFE PSYCHE
 - MOBILIZING MUNICIPAL SERVICE LAHTI
 - 12/2011 QUESTIONNAIRE IN THE COMMUNITY AT LAHTI
 - 2012 Jalkaranta & Liipola schools -questionnaires -workshops -discussions

Lahti City design strategy development



Launched at OloMuoto, Lahti on 15.11.2012



3. Tonttila – Designing with a Finnish community

Radanvarsi design competition – Co-design as Planning, Form-giving



100000m² = 10 hectares



Karisto development, Lahti – Design as Planning

100000m² = 10 hectares



Zooming in on Tonttila



1960s chunk

K-mkt 1980s

YOUTH CENTRE

reps 5-market

14.11.2011
TONTTILA,
LANTTI,
visit

Zooming in on Tonttila



Marcus Lemuskoski, Architect, City of Lahti planning department

The soft side of planning – designing with people

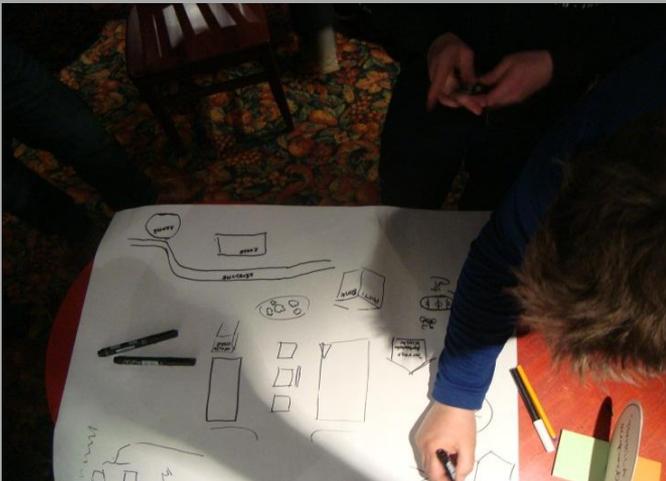


The hard side of planning – (infra)structure



Marcus Lemuskoski, Architect, City of Lahti planning department

The initial community co-design workshops in Lahti



Getting to know the Tonttola community, Lahti, May 2012, <http://window874.com/2012/06/08/tonttola-1-exploring-community-views-and-needs/>, Photos: Katharina Mosbus

Co-design, UCD, service design, design activism

12 modules
+ diverse
stakeholders



Living+



12 projects exploring how design can contribute to positive wellbeing in the lives of the elderly, Healthcare, the Suburbs, Smoke Free Environments and more, <http://365wellbeing.aalto.fi/>

Aalto and LAMK students and the community of Tonttila

365wellbeing suburb



Core teaching team:

Professor Alastair Fuad-Luke

Doctoral candidate Sandra Vina

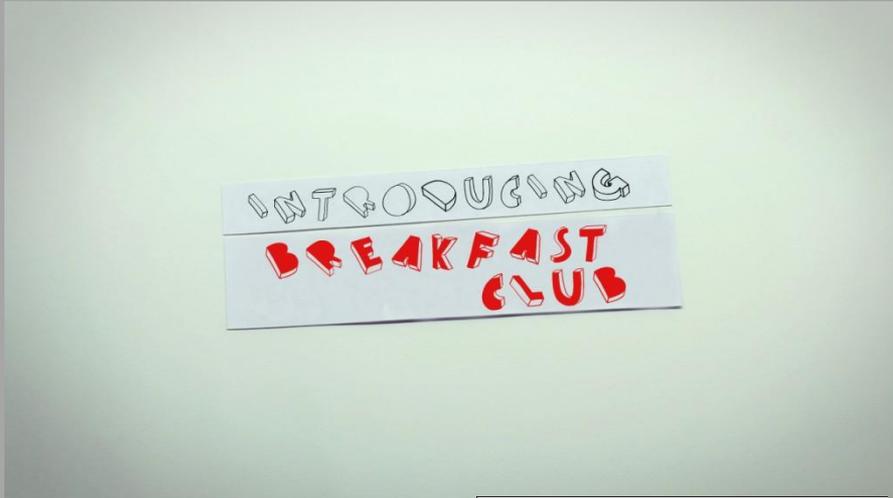
Design researcher Katharina Moebus



The community design cycle



Walking the ground and fertilising



 **TONTTILASSA**
17.11.2012
www.restaurantitay.org/fi/

Oletko jo kuullut ravintolapäivästä?
- Se on ruokakarnevaali, jona kuka tahansa voi perustaa ravintolan päiväksi!

Ravintolapäivä on saavuttanut suuren suosion kansan keskuudessa, sekä Suomessa että yhä laajemmin myös maailmalla. Tapahtuma on kasvanut kerta kerralta suuremmaksi uusien innokkaiden haasteilijakokien ja leipurien lähdeyttä mukaan ruoan juhlaan!

Minkä ruokalajin taitajana olet tunnettu ystäväpiirissä? Minkä leivonnainen on bravuuri? Laite ravintola tai kondiittoria pystytyn yhdeksi päiväksi ja tuodaan ravintolapäivä Tonttilaan yhdessä. Yllä olevaan nettisivuun kautta pääset tutustumaan konseptiin tarkemmin. Siellä näet myös muiden ravintoloiden sijainnin ja pääset ilmoittamaan omastasi!

Ravintolapäivä Tonttilassa järjestetään Aalto -Yhteisön ja Labaan ja osittain koulutuksen Marckin ja Indemestranin yhteistyönä. Kuvien oikeus on Aalto!



Walking the ground and fertilising



Tools to fit the 'design life cycle' and type of work



DSKD Method Cards: Five categories – Collaborate (black), Collect (green), Comprehend (blue), Conceptualise (purple), Create (red)

Friis, S.K. and A.K.G. Gelting (2011) *DSKD Method Cards*, Kolding, Denmark: Kolding School of Design.

Tools to fit the 'design life cycle' and type of work



H C D CONNECT BETA [Buy a Hard Copy of the Toolkit](#) | [Free Toolkit Download](#)

Methods

Tools and tips that will help you master the HCD process.

[Learn more about the Toolkit](#)

Determine who to talk to, how to gather stories, and how to document your observations.

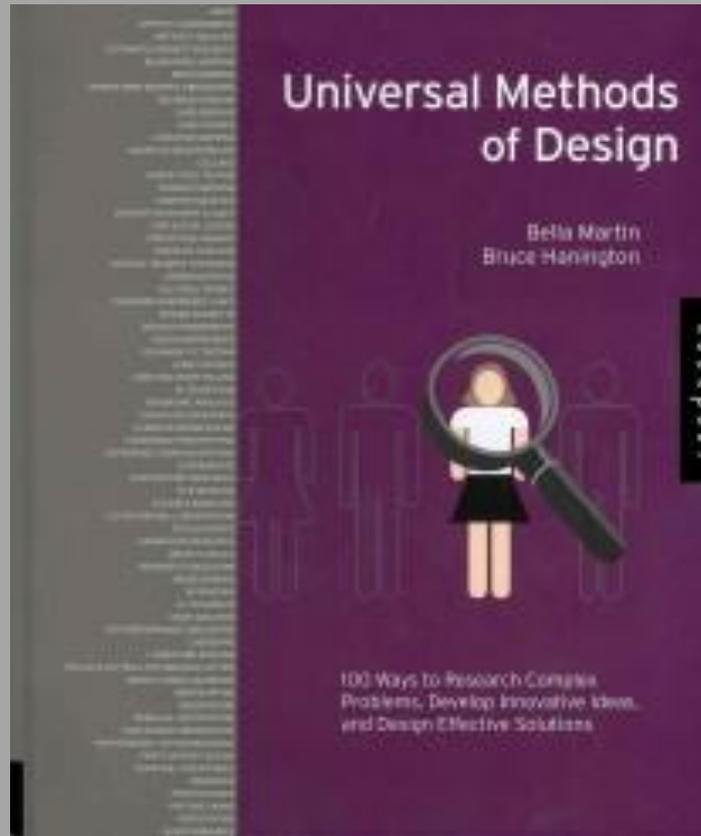
H
HEAR

- Phrasing the Challenge
- Extremes and Mainstreams
- Recruiting Tools
- Community-Driven Discovery
- Expert Interviews

IDEO Human-Centered Design toolkit

Available at <http://www.ideo.com/work/human-centered-design-toolkit/>

Tools to fit the 'design life cycle' and type of work



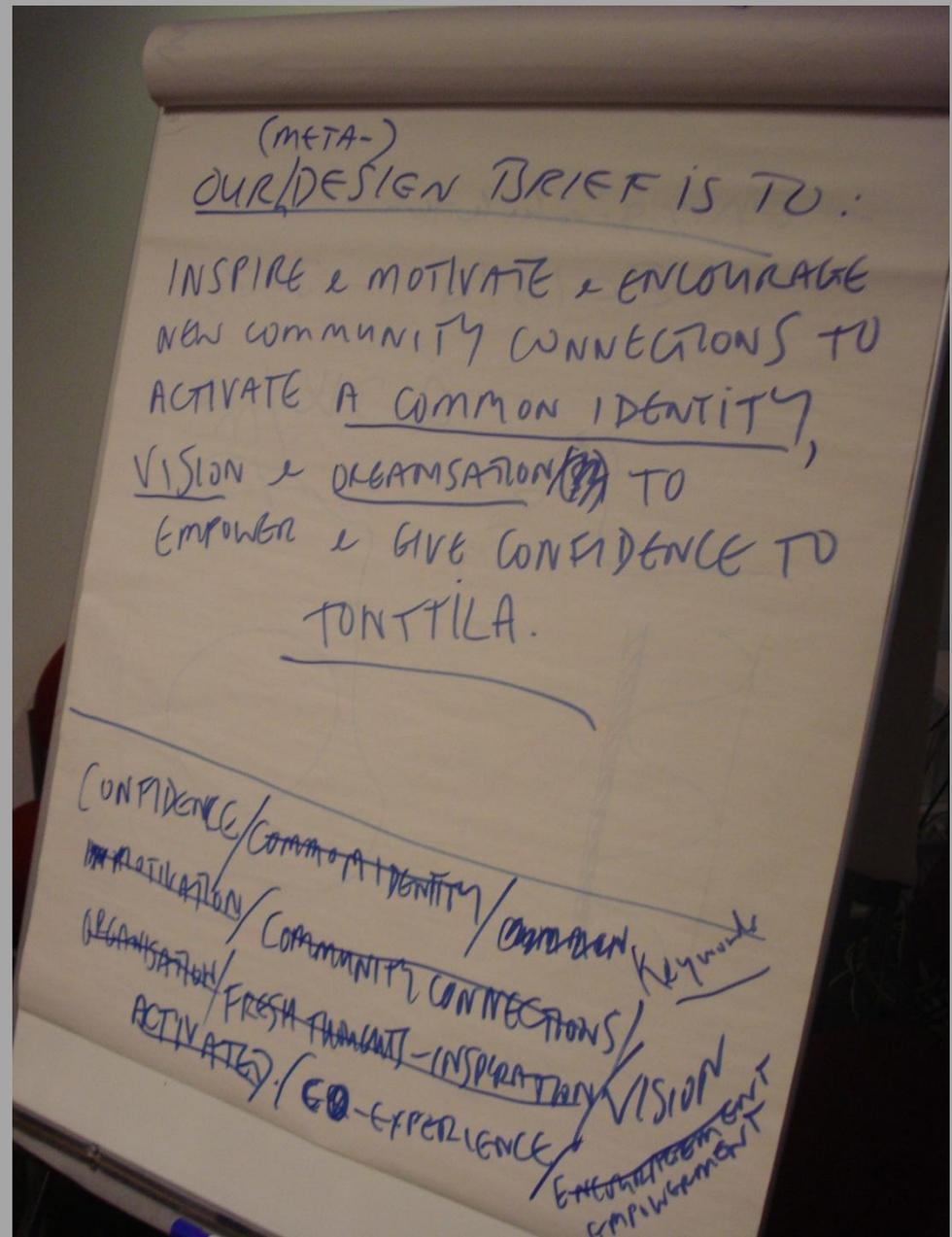
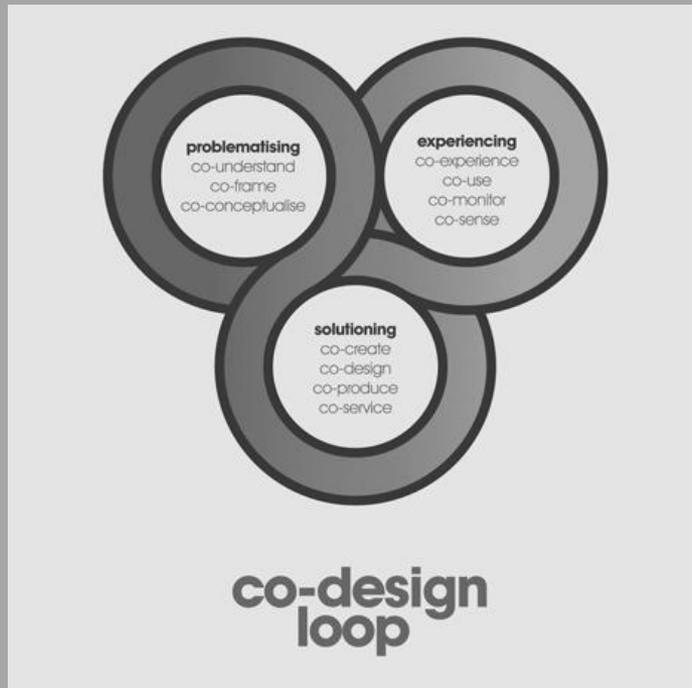
Universal Methods of Design

Martin, B. and B. Hanington (2012) *Universal Methods of Design. 100 Ways to Research Complex Problems, Develop Innovative Ideas and Design Effective Solutions*. Beverly, MA: Rockport Publishers

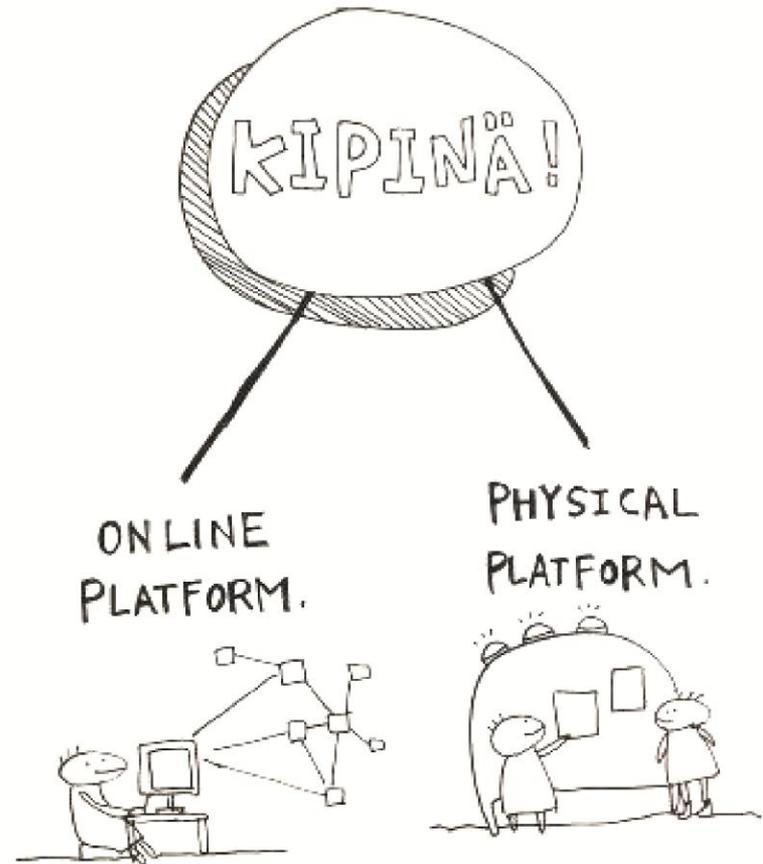
Choosing and using the right tools



the 'meta-brief' for Tonttila



Prototyping & implementation – development of concepts



KIPINÄ - To enable community and people of Tonttila

Saana Turunen, Julianna Nevari, Hyeyoon Min, June Seo and Satomi Koyanagi

Prototyping & implementation – development of concepts



HAPPINESS

what is the value of exchange =
 demand
 = happiness

Happiness is Happiness
 Prototyping an event

so people could work further
 with those methods!



People -  
 SWAP - category cards



MAP DETI • 24

THE INCREASED HAPPINESS IS
 MEASURED BY:

HOW MANY PEOPLE
 ARE INVOLVED IN DEAL

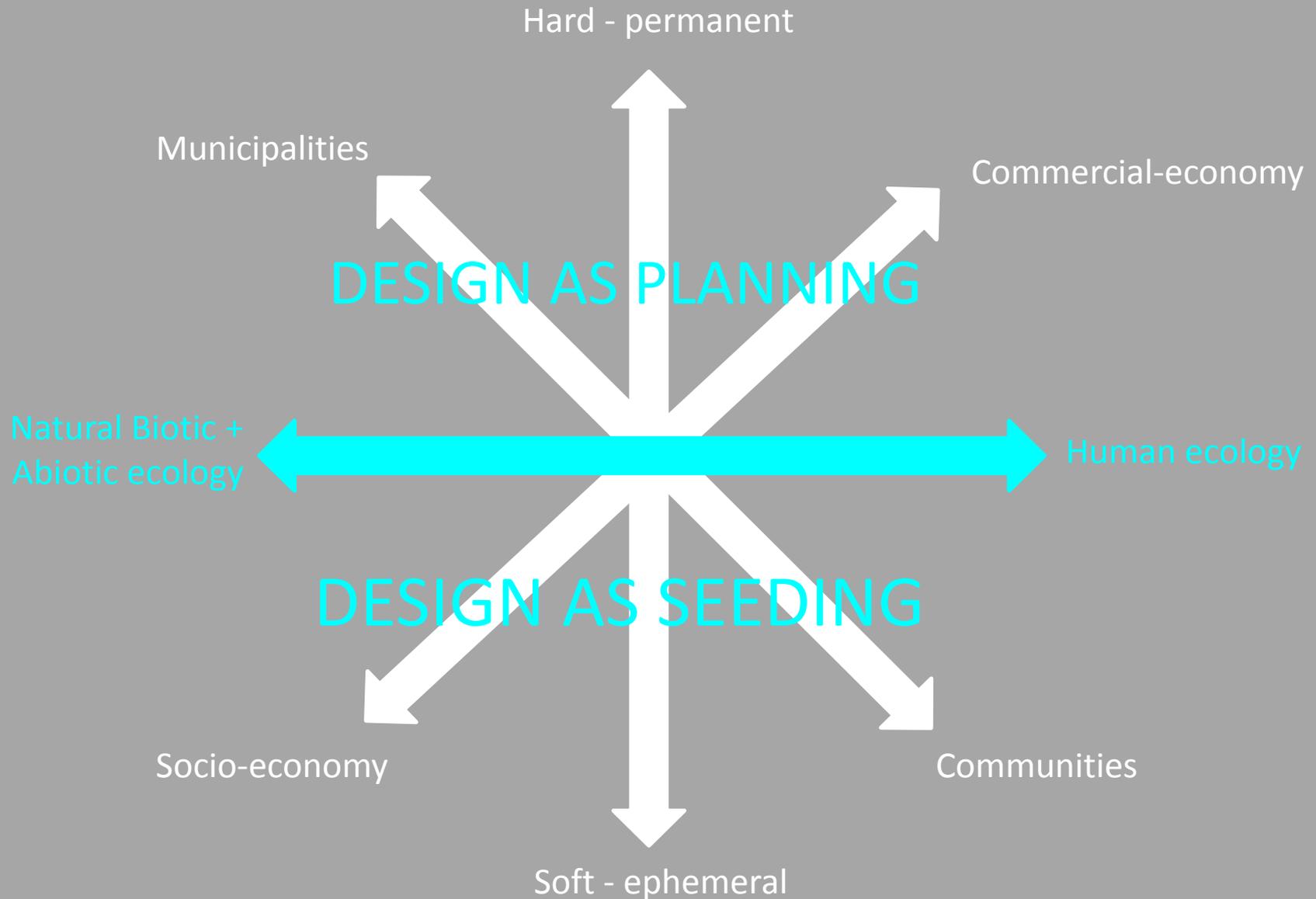
X

HOW MANY PEOPLE
 POTENTIALLY BECOME HAPPIER

=

HAPPINESS POINTS
 CREATED

How to balance Design as planning with Design as seeding?



Open co-design?

New ways of
generating concepts



Nicholas Mika's Intermodal pop-up cafe space at TEDx Grand Rapids, on openideo.com



Instructables restaurant Afrikaanderwijk, Rotterdam, at instructablesrestaurant.com

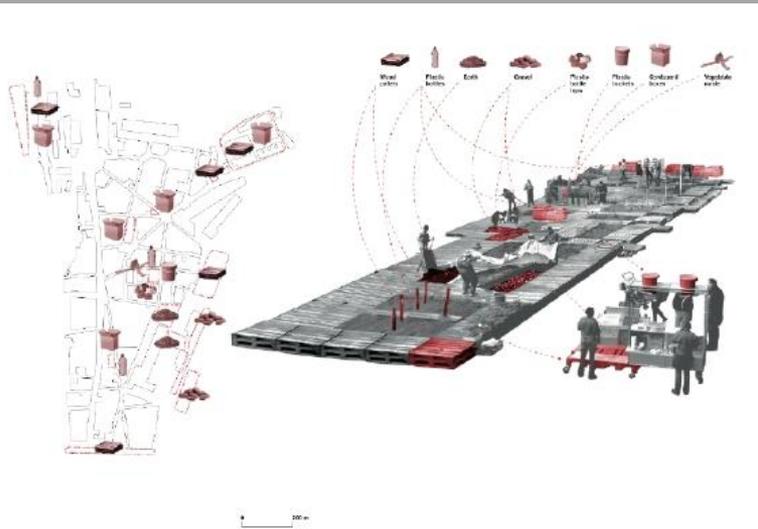
Collaborative, user-centered, user-driven, co-design, co-creation,
sharable, crowdsourcing, half-way designs

MetaboliCity – modular experiments



MetaboliCity by Loop Ph <http://loop.ph/bin/view/Loop/MetaboliCity>

Ecobox – community experiments



Taking the Street – design interventions



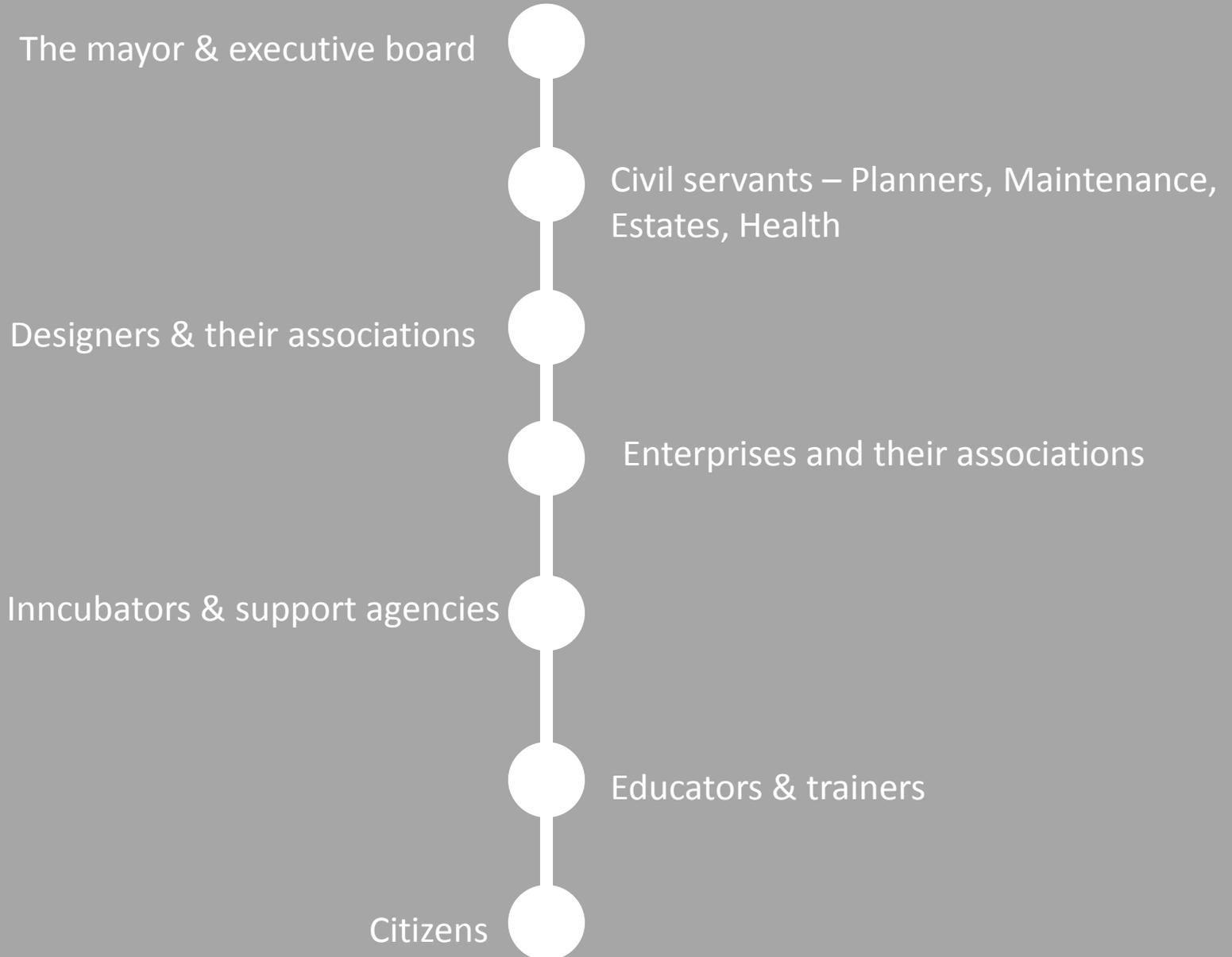
10m²

'Social' urban acupuncture – ephemeral structures

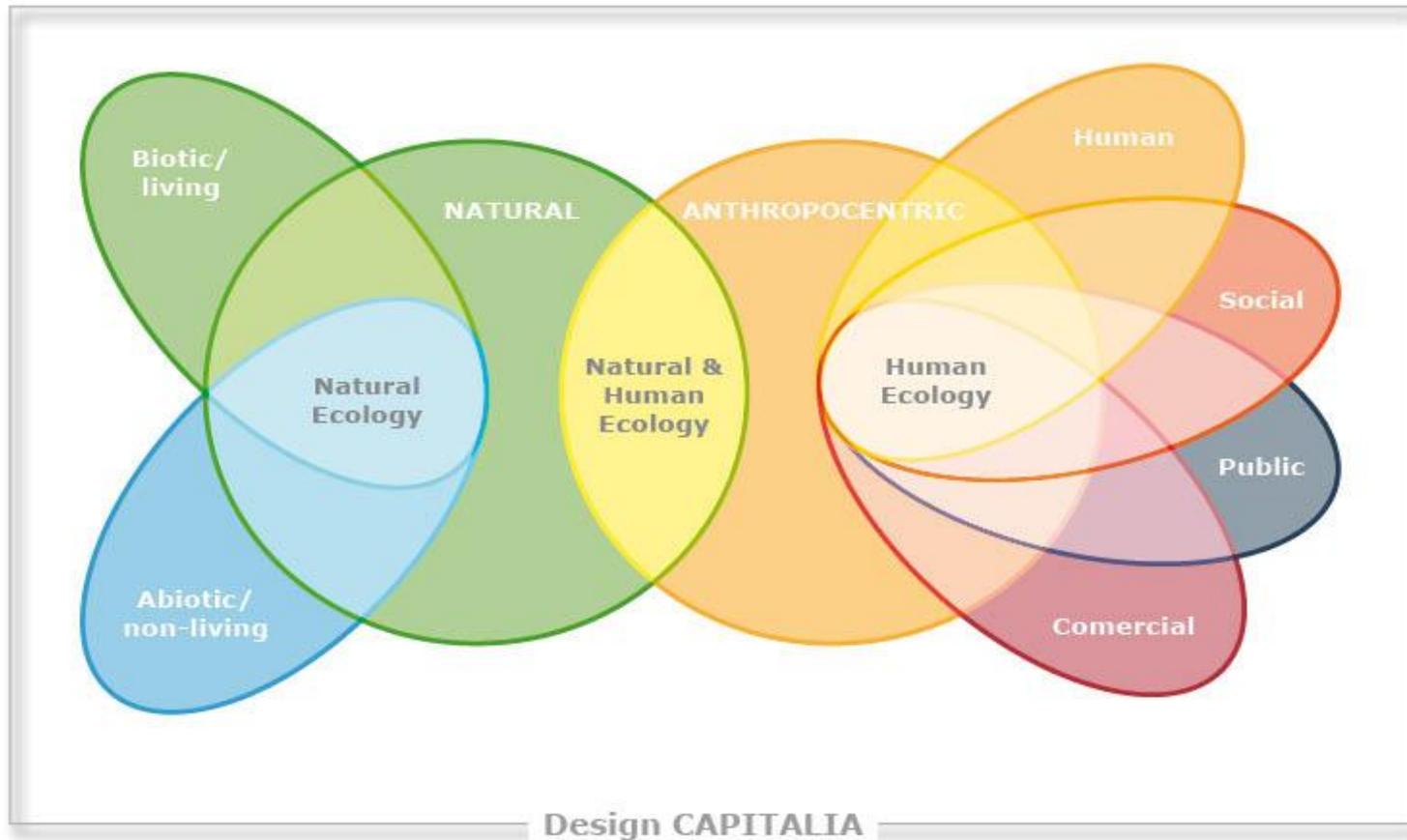


4. What next?

Training everyone in Lahti in co-design



designCAPITALIA – Two domains, six key capitals



Alpha version, launched at the Open Knowledge
Festival, Helsinki, 19.09.2012

The capital 'cards'



Six KEY capitals



32 SUB capitals

The Sub-capital 'cards'



SUB capital definitions



Blank SUB capital cards for
YOUR OWN definitions

Phase II - Interpretive

Step 3. Select the Key capitals and Sub capitals that you think are relevant to your chosen context. Lay the cards out on a large sheet of paper.

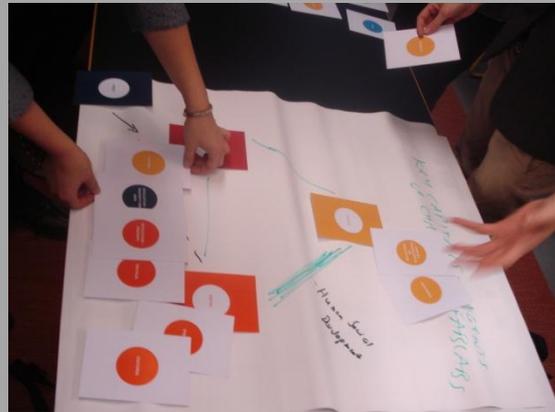
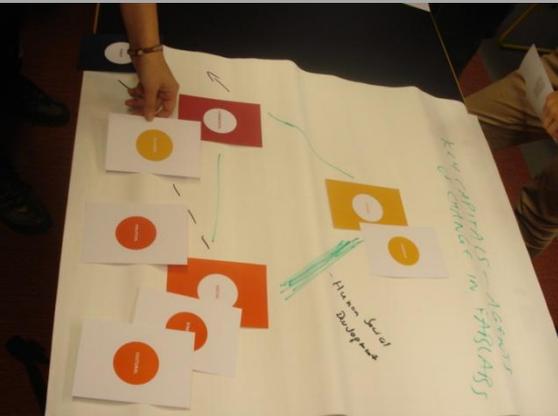


Phase II – Interpretive – FabLabs – 5 key capitals, 22 sub-capitals



Phase II - Interpretive

Step 4. Arrange the capitals in relationships which are meaningful to you. How are they related? How are they orientated to each other? Are some more important than others?



Developing designCAPITALIA as open source framework...

...the next step is to apply the framework to your own project whether it is in the conceptual or planning stage or is an existing, real life, project...



The Alpha version of designCAPITALIA is available at our blog,
<http://window874.com>

I love Atina – a Clear Village project

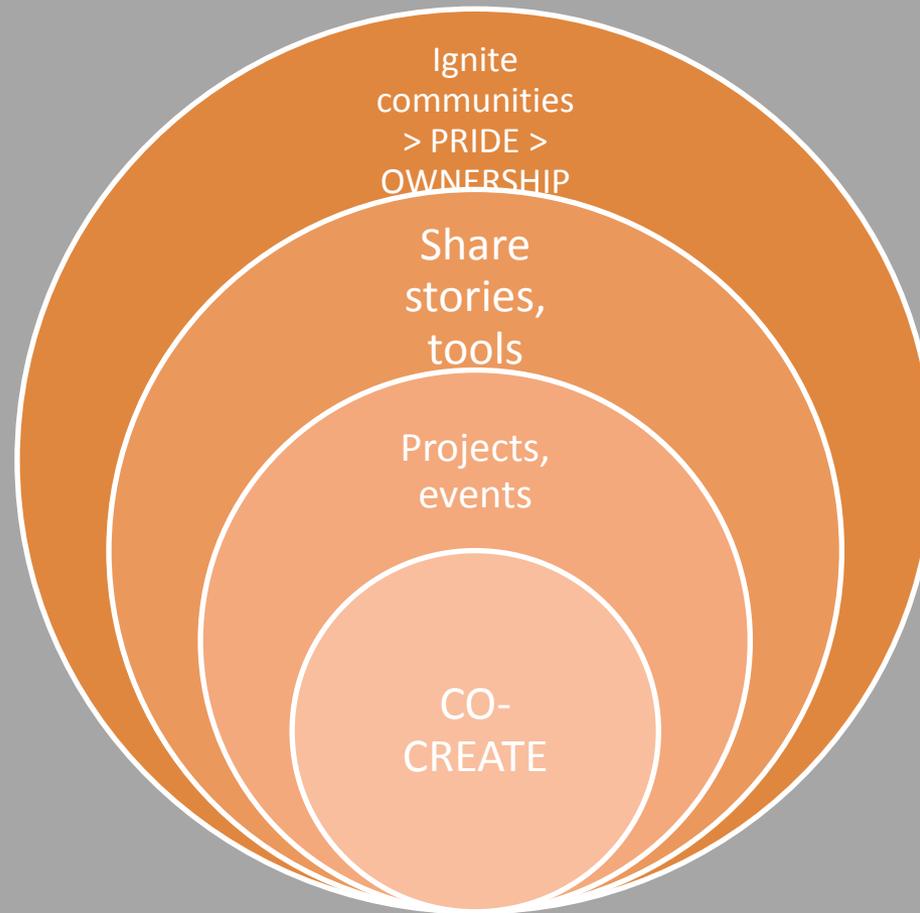


A polydisciplinary not-for-profit organisation engaging communities with a clear design communication strategy.

DESIS project – design for social innovation

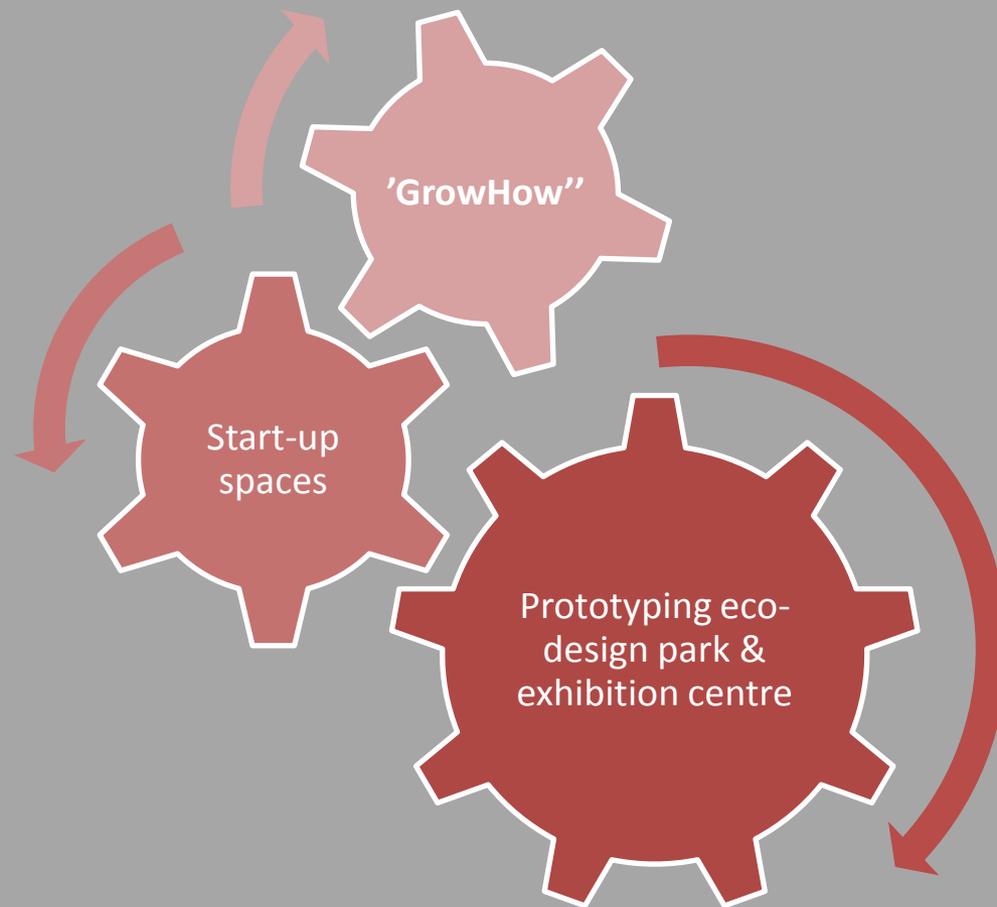


Growing 'social capital' in Lahti...



Co-create tools, stories and projects/events to share design knowledge among and within all communities in Lahti to 'ignite' the 'design city' and give it pride, while giving ownership back to everyone

Growing 'manufactured capital' in Lahti...



An exhibition and prototyping eco-design/green design park where “GrowHow” knowledge (business) sits alongside (bio-)materials, bio-mass energy, quality assurance, supply chain and technical manufacturing advice/knowledge. Inexpensive or free start-up space to help grow the design communities.

A new Clean Design Centre has recently opened in Lahti



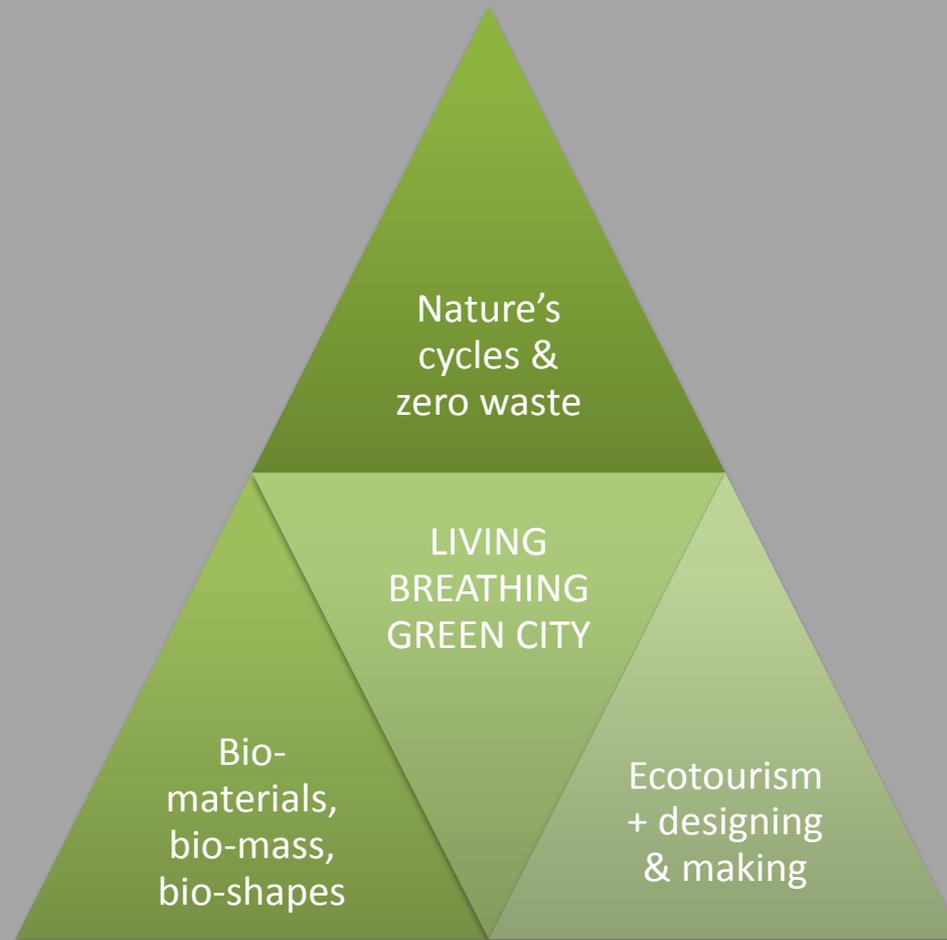
The new Clean Design centre, Lahti Science & Business Park, Rikka Salokannel and others,
http://www.lahtisbp.fi/fi/toimitilat_tutkimustilat/cleandesign_center

Growing 'financial capital' in Lahti...



More easily accessible funds and 'seed capital' for pilot projects, SMEs, young entrepreneurs, accepting that some of the funds have to accept the risk of some failure against the potential successes. Proof of Return on Design investment. Imaginative ways of raising money from not-for-profit and co-operative banks and by crowdsourcing (sourcing from communities, individuals).

Growing 'natural capital' in Lahti...



A living, breathing, zero-waste, green city reflecting nature's aesthetic shapes on a small and large scale, with hydro cycles, bio-mass energy and a vibrant 'making' ecotourism culture in and outside the city.

Involving the citizens and other stakeholders in Lahti

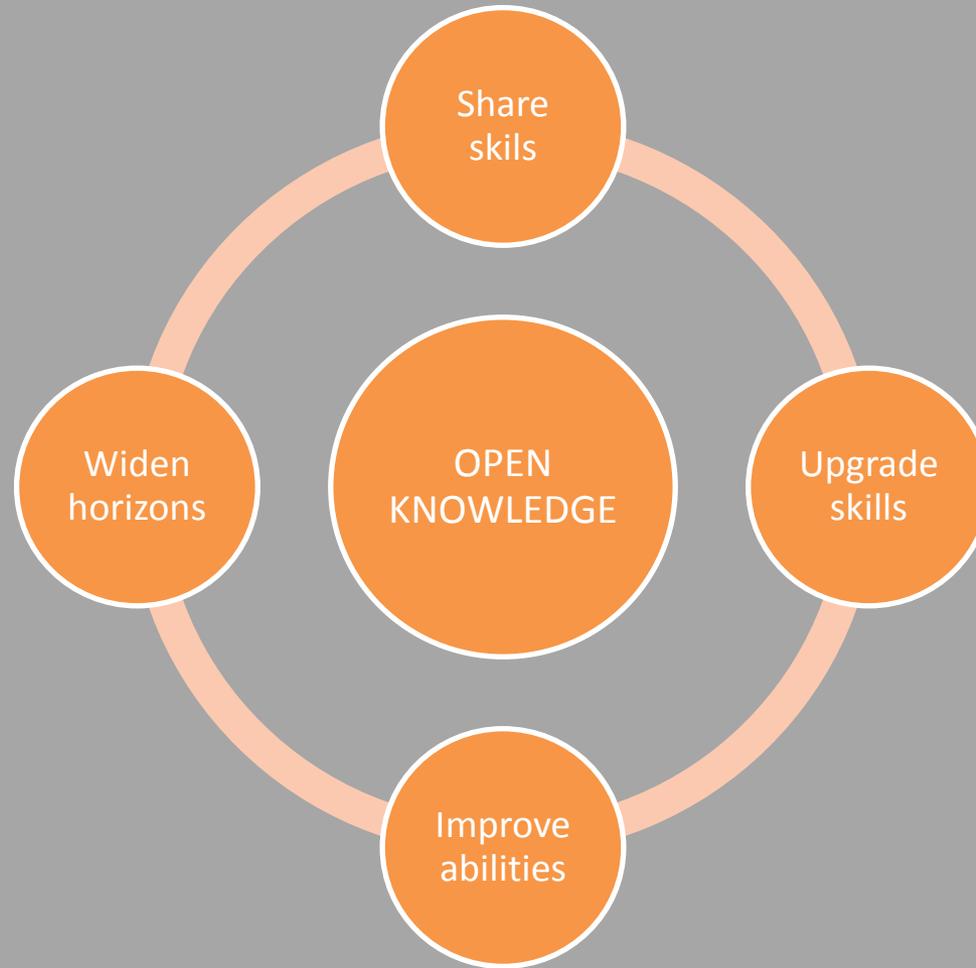
LAHTI

GreenCity a Forerunner towards Sustainability

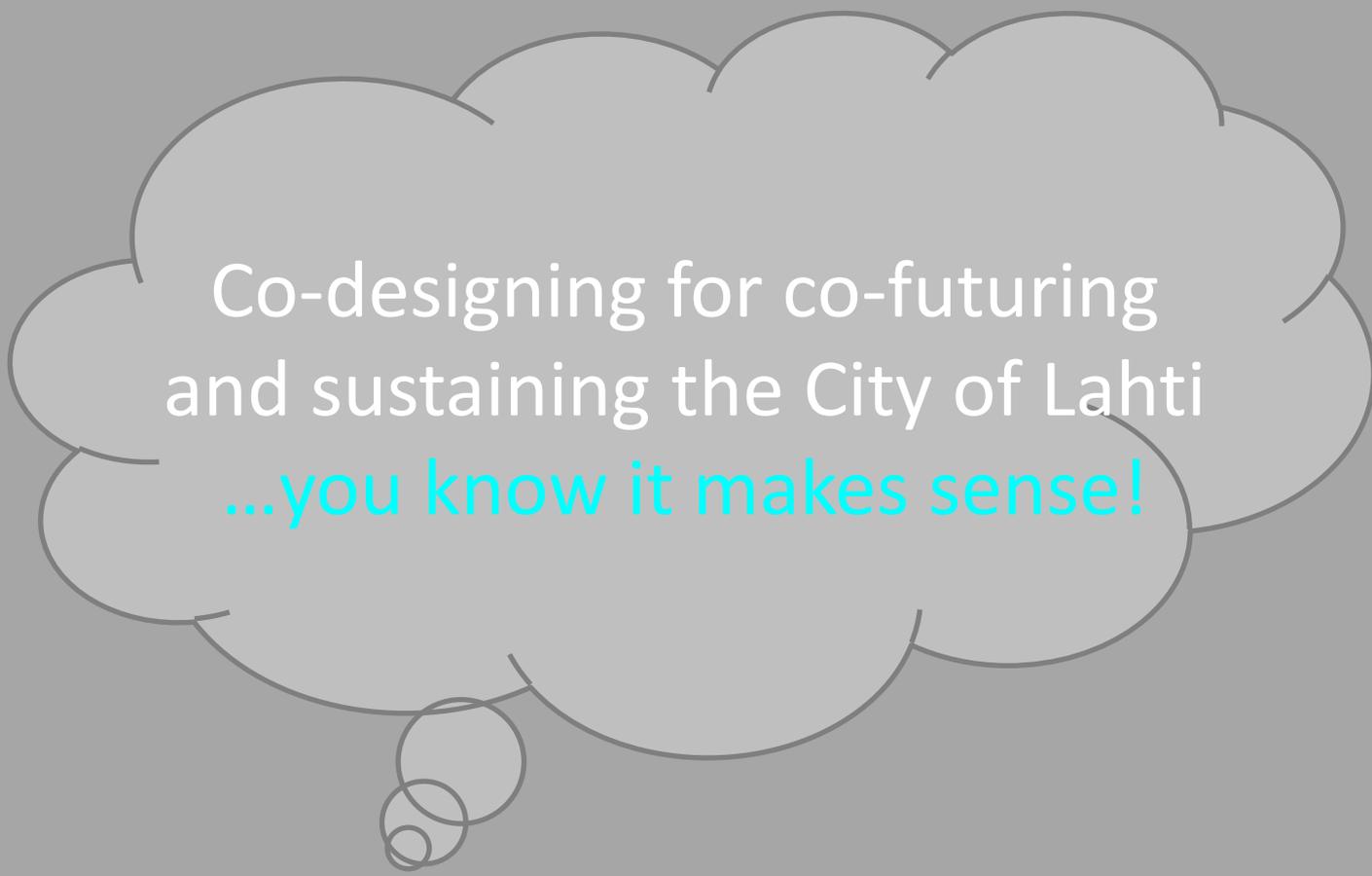


<http://www.greencity.fi/en>

Growing 'human capital' in Lahti...



Widening horizons by improving skills and abilities, then sharing them and making the knowledge open to benefit everyone. Upgrading skills to strengthen individuals [and the potential of Lahti].



Co-designing for co-futuring
and sustaining the City of Lahti
...you know it makes sense!

Kiitos! Thank you!

Alastair Fuad-Luke

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Blog: <http://window874.com>



Aalto University <http://arts.aalto.fi/en>

NODUS, Sustainable Design Research group,

<http://designresearch.aalto.fi/groups/nodus/>

Fuad-Luke <http://www.fuad-luke.com>