



Co-design of innovative business model canvas and creation of adaptable emerging business models

Reetta Turtiainen, Business Design Specialist
KONE Research
22.4.2021







Agenda for the session

- > Short introduction about KONE
- Design process and mindset for co-creation
- Business model canvases as tools for co-creation
- Discussion and wrap up



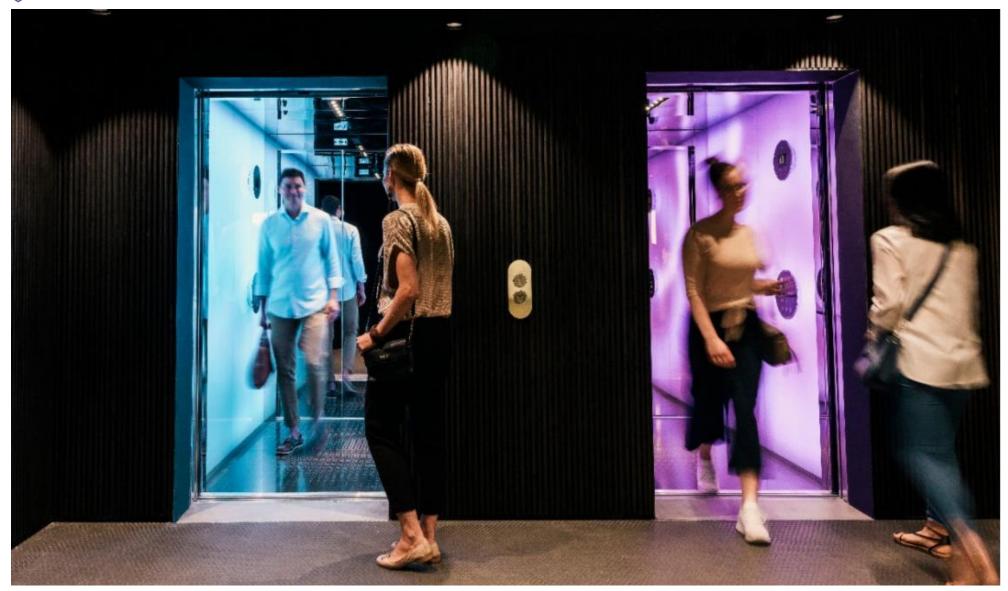


From which city are you joining this webinar?

Go to https://www.menti.com and type 6621 9540







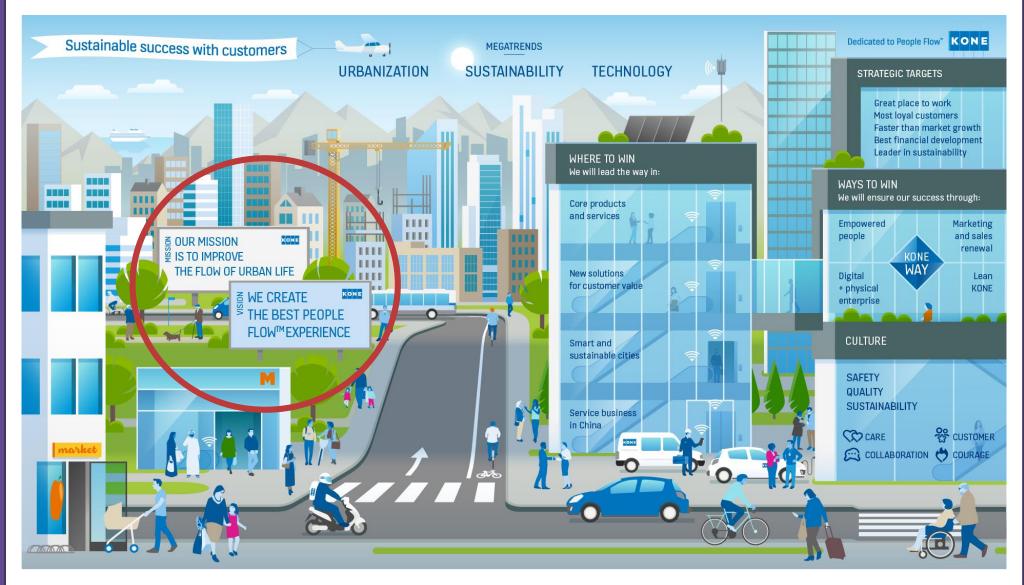
















Design process and mindset for co-creation



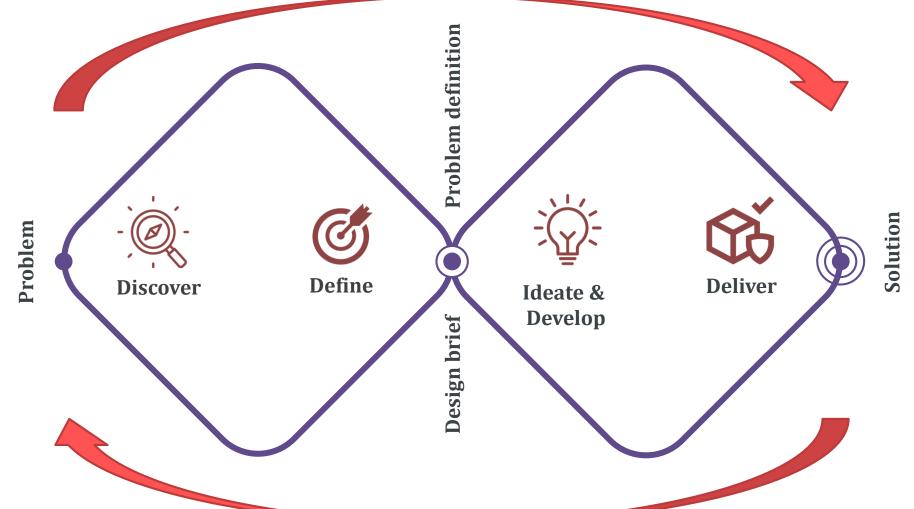
How familiar are you with design process and design methods?

Go to <u>www.menti.com</u> and type <u>6621 9540</u>





Double diamond design process



Source: British Design Council, 2005





How we design

cople Flow KONE

Human first

Whole journey

Engaging & collaborative

Real-life & empathy

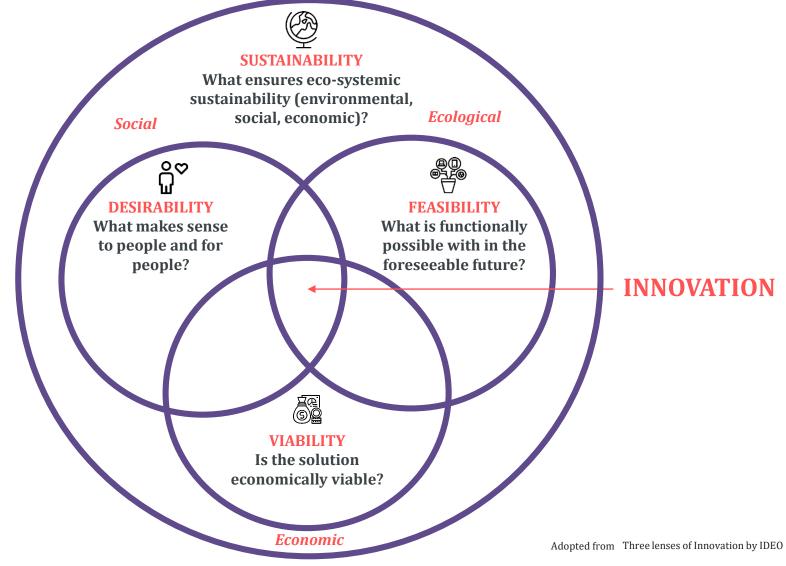
Testing & trying

Iterative





Lenses of innovation





How can we design business models that are desirable, viable, feasible and sustainable for people, planet and businesses?





Researching and co-creating sustainable future mobility with Espoo citizens in SPARCS















Co-creating sustainable mobility



1. Background research & understanding the future of mobility with experts





Citizens in the heart of the co-creation

2. Studying citizens' mobility behaviour (needs and challenges) through mobile probing

We are here!

4. Developing the concepts, creating value propositions & understanding partnership models

3. Analysing the data & cocreating initial mobility concepts





Initial concepts based on citizens' needs

Shared mobility



1. Shared mobility service within a known circle

2. Tailored mass transportation

3. Robotic taxi

Hybrid mobility



4. Optimized hybrid mobility

Material logistics



5. Moving goods in everyday life

6. Flexible pick up

Biking & Micromobility



7. Bicycle community service

Characteristics and service models



8. Additional services

9. Sustainable decision making

10. Alternative authentication

11. Citizen-generated

content





"Competition today is not between different products – it's between different business models."

Gary Hamel

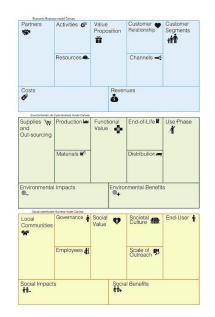






How to guide business model cocreation to the right direction throughout the process?



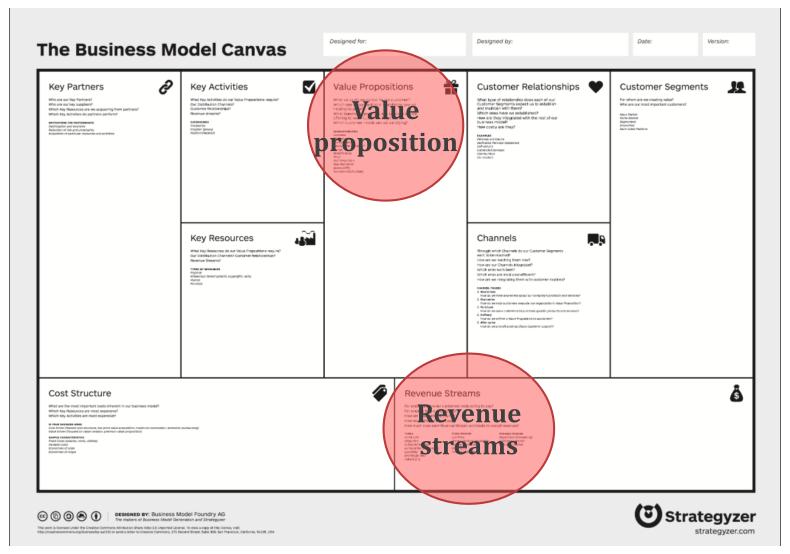




Key Actors	Key Activities	Value Proposi	ition	Actor Relationships	Network Beneficiaries
Key Astem Mose are femant ofly partnersk key palene? Completed by the desining remotive for additionation with Ack 12 of langle Ack 22 of langle Ack 23 of langle Ack 24 of langle Ack 25 of langle Ack 25 of langle Ack 25 of langle Ack 26	Roy Activities Which key antivities are required to realize the valid proposition (a. b. while proposition (b. b. while describition charactel, proposition (b. b. while describition charactel, provided the production charactel, provided the production production consistent, build production-involvablements, build production-involvablements, build production-involvablements, build production-involvablements and experience of contributing the sensor objection of the production	which of the end users' problems is the smart city project helping to solve? What bundles of products and services does the project offers to each end user? Which end-users needs is the project satisfying? (i.e.		Actor Relationships Actor Relationships done such acts expect within the network? Which can are enablished; Which can are enablished; Which can are enablished; Which can be a proposed with the rest of our housens model? Completed by such acts consider for participation of the control of the	Network Beneficiates with the service of the service of the service of the service created for? How the target users breaf from the value created and what are their needs? What specific values each of the service of
				1	
	7838F 4 SI		ty parmers.		
Key Actors Offerings (*)	Key Resources and	Data (5)		Deployment Channels	
What admitted pass was her deliver if a set hadder in the compared pass and her deliver if a set hadder in the compared pass and in the compared p	Infrastructure Votal key messions aer meginet de realize the Value Proposition (Mulling) verbelen, machines, sydens, verbelen, machines, sydens, distribution, mercenki). Our deployment chamsels? One aer relabioriship forcement ownered. Completed by the sear of the complete of the search of the complete of the search of th	You'd also will be made southed from the service southed from the service to solve me and service to solve me and service to solve and southed to solve and southed southed by the service solve the service solve		Company which described our construers want to be these are or reaching from nove! Here are our demands to high parts of the control of the	
Blodget Cest With are the cost indexest for each above deploying a amout day solution? While key resources are the most expensive? While key relative are the most expensive? While key relative are the most expensive? While key relative are the most expensive? While key are the first firs			Exvenue Nozane For what when are the network beenfeature really willing to pay? For what do they controlly toy? Boar much would they print to pay? Boar much would they print to pay? Which stoke have revenue? Which after how pare weare contributing to overall revenue? Which after how pare revenue? Completed by the reart risp adulture provider in collidation with the cryst Actar Toly;		
Actor 4 (supporting portices): Environmental Impactor Coots and Benefits What is the ecologisation of the soun ety subsets (in Contributor gas eminion, land use, energy and water used) What is the ecologisation of of the soun ety subsets.			Actor 3 (now person) Actor 4 (now person) Actor 5 (now person) Actor 5 (now person) Actor 6 (now person) Actor 6 (now person) Actor 6 (now person) Actor 7 (
N of rod-using energy consumptions N odescript the environmental foreprint Nondecript the environmental foreprint Nonpolendo by the source city solution provider and the smart city;				nation, air quality, less traffic etc.) not city solution provider and the sourt ci	

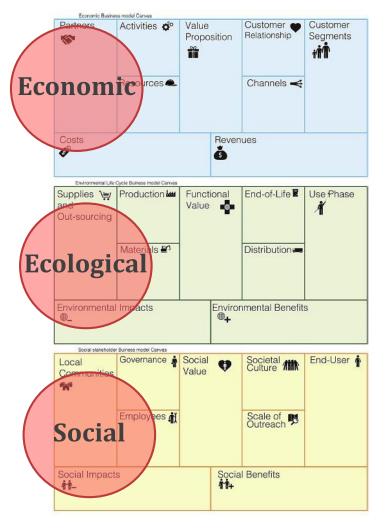
Evolution of business model (canvases)





The Business Model Canvas, Osterwalder (2005)



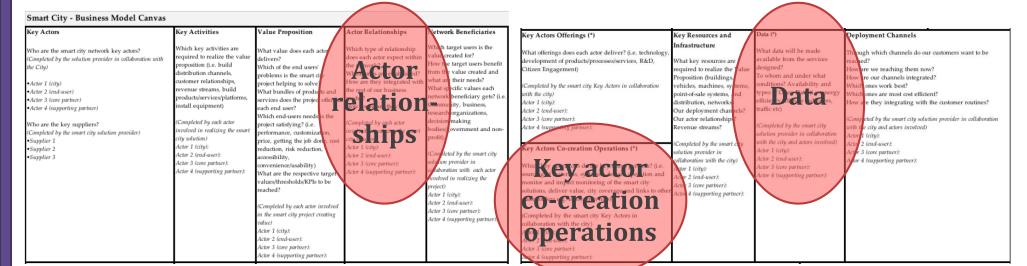




The triple layered business model canvas, Joyce & Paquin (2016)



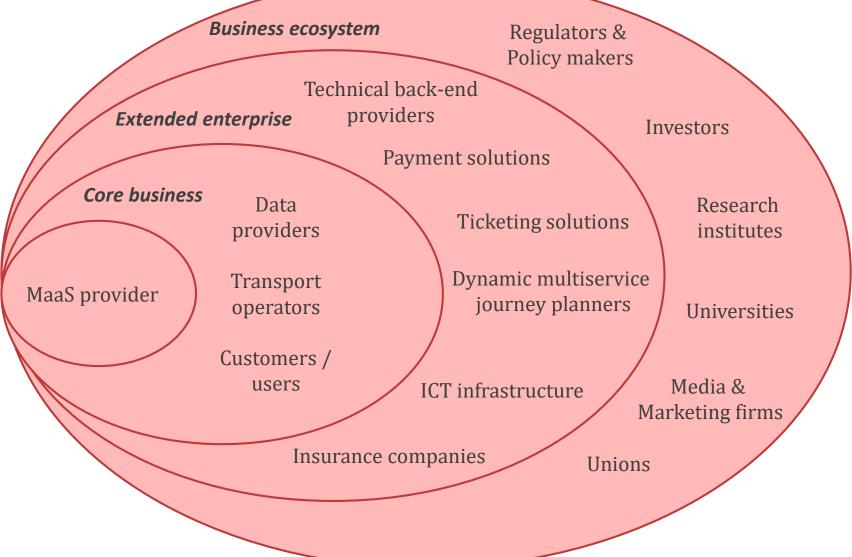




and the second s			
Budget Cost	Revenue Streams		
What are the most important costs inherent for each actor deploying a smart city solution? Which key resources are the most expensive? Which key activities are the most expensive? What cost can be covered by each actor? Is there opportunitiy for blending public funding with private financing? Which costs are covered by each mechanism? (Completed by the smart city solution provider in collaboration with the city) Actor 1 (city): Actor 2 (end-user): Actor 3 (core partner): Actor 4 (supporting partner):	For what value are the network beneficiaries really willing to pay? For what do they currently pay? How are they currently paying? How much would they prefer to pay? How much does each revenue stream contributing to overall revenues? Which actors have revenues? What are the non-monetary revenues? (Completed by the smart city solution provider in collaboration with the city) Actor 1 (city) Actor 2 (end-user) Actor 3 (core partner)		
Environmental Impacts: Costs and Benefits	Actor 4 (supporting partner) Social Impacts: Values and Costs		
What is the ecological cost of the smart city solution? (i.e. Greenhouse gas emissions, land use, energy and water used) What is the ecological benefit of the smart city solutions? % of reducing energy consumption % reducing the environmental footprint (Completed by the smart city solution provider and the smart city)	What is the negative social value generated by the Smart City Solutions? (i.e. Social exclusion, digital illiteracy, accessibility to advanced services etc.) What is the positive social value generated by the Smart City Solutions? (i.e. Growth, job creation, air quality, less traffic etc.) (Completed by the smart city solution provider and the smart city)		

Smart City Business model canvas, Giourka et al. (2019)





The Mobility-as-a-Service ecosystem, Kamargianni & Matyas (2017)







Four lenses of innovation tool

Do we know the origin of the materials used and that they are produced in sustainable ways?

Have we considered what happens to the solution after its usage?

Does a solution bring additional value to users compared to the competitors on the market?

Desirability

Is a solution' life cycle producing as little CO2 emissions as possible and have we counted it?

Is a concept valuable and usable for diverse users (gender, disability etc.) and enhancing wellbeing?

Do we have all the resources available that we need?

What is the

maturity level

of technology?

Do we know where to ge the all the needed data?

Feasibility

Work in progress

Is the solution solving the real user needs?

Has the solution been tested with the users?

How likely would the users choose and recommend our solution for others?

0=unknown 1=poor 2=average 3=good 4=excellent

Do we know who are the potential paying customers and what would they pay?

Have we benchmarked the competitors and found the best partners in the market?

Have we consireded different revenue models and tested them?

Viability

How likely the business will be alive in eg. 5 years?

Horizon 2020
European Union funding
for Research & Innovation

This project has received funding from the European Union's Horizon 2020 research and innovation programme under Grant Agreement No. 864242 Topic: LC-SC3-SCC-1-2018-2019-2020: Smart Cities and Communities





What are the most important questions to ask and criteria to achieve under the four lenses of innovation (sustainability, desirability, feasibility, viability)?

Go to <u>www.menti.com</u> and type <u>9714 5606</u>





- ► Filling in one business model canvas does not guarantee a good business
- ► Co-creation process requires constant development, testing and validating with users and the ecosystem stakeholders
- Design and business challenges are complex and solutions require systematic change



How could you use co-creation and business model tools in your own organization?

Go to <u>www.menti.com</u> and type <u>9714 5606</u>





Questions, thoughts or comments? You can also leave questions during the break.

Go to <u>www.menti.com</u> and type <u>8220 5882</u>



Reetta Turtiainen / KONE reetta.turtiainen@kone.com

https://www.sparcs.info/





@SPARCSeu





Stadt Leipzig



CÂMARA MUNICIPAL DA MAIA



























































This project has received funding from the European Union's Horizon 2020 research and innovation programme under Grant Agreement No. 864242 Topic: LC-SC3-SCC-1-2018-2019-2020: Smart Cities and Communities