Why foresight?

Planning in the age of global megatrends

Roope Mokka Founder Demos Helsinki







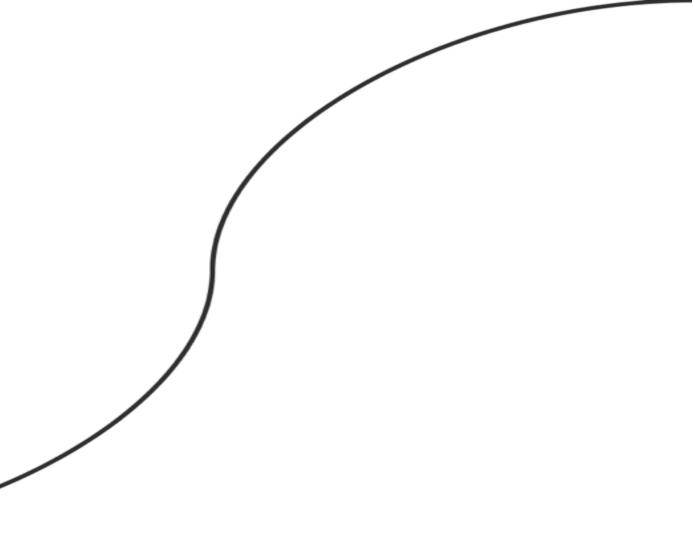
Two best outocomes

 Foresight helps in understanding the core of strategy målkonflikter
The future-table really helps in getting rid of today's

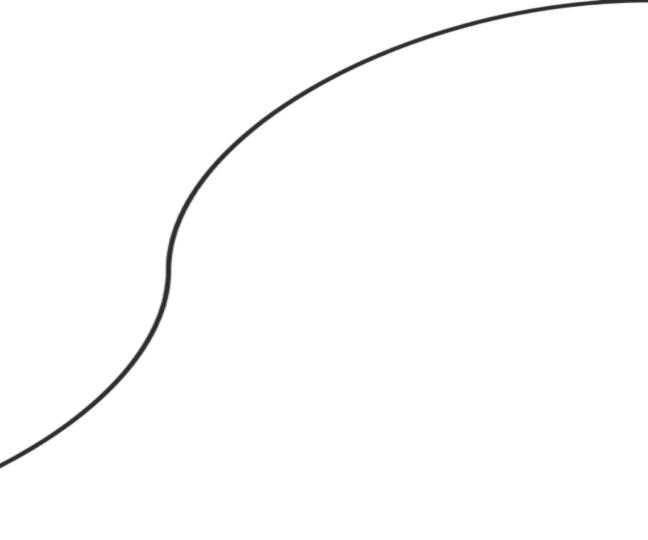
topics.

orecasting

Mobile phones

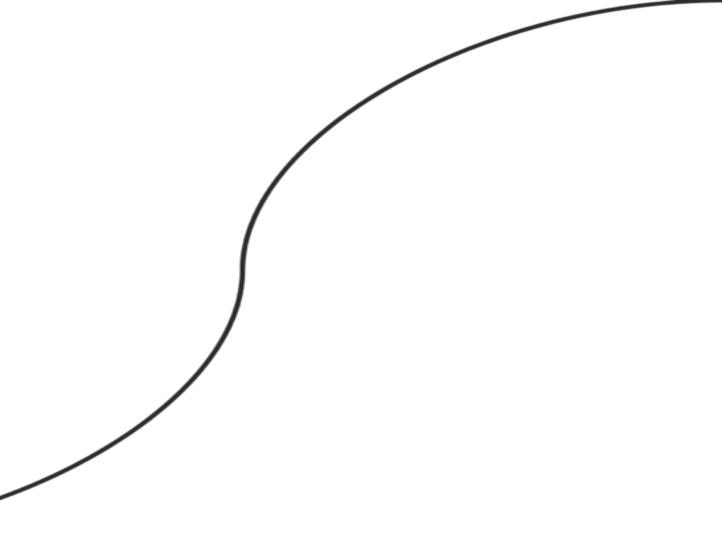




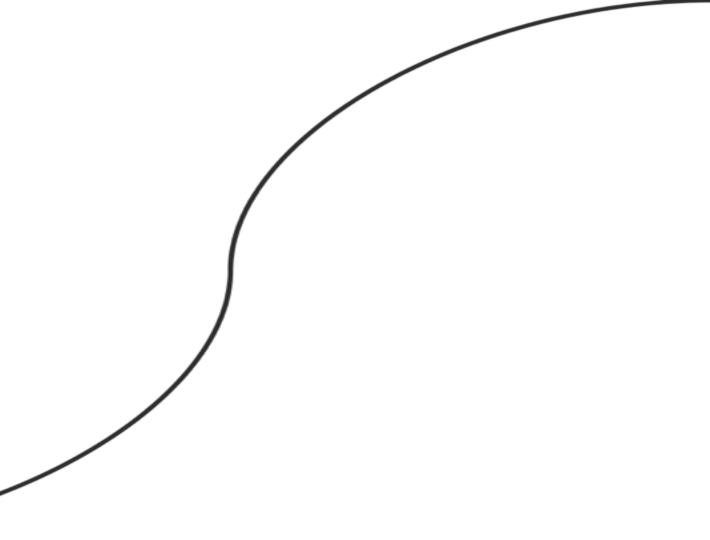


PCs

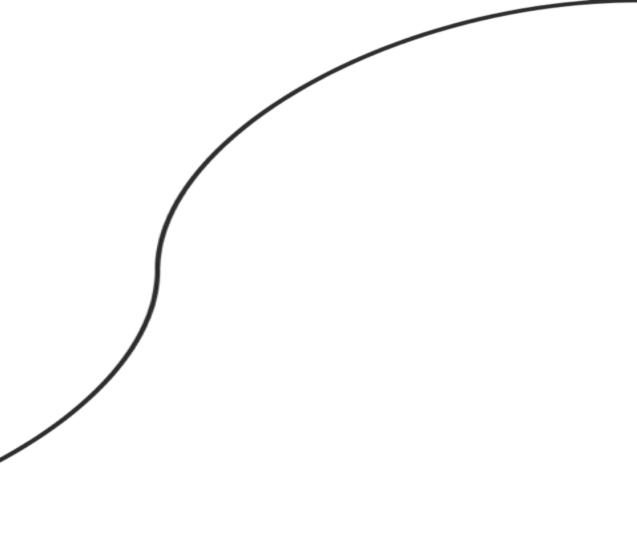
Inhabitants



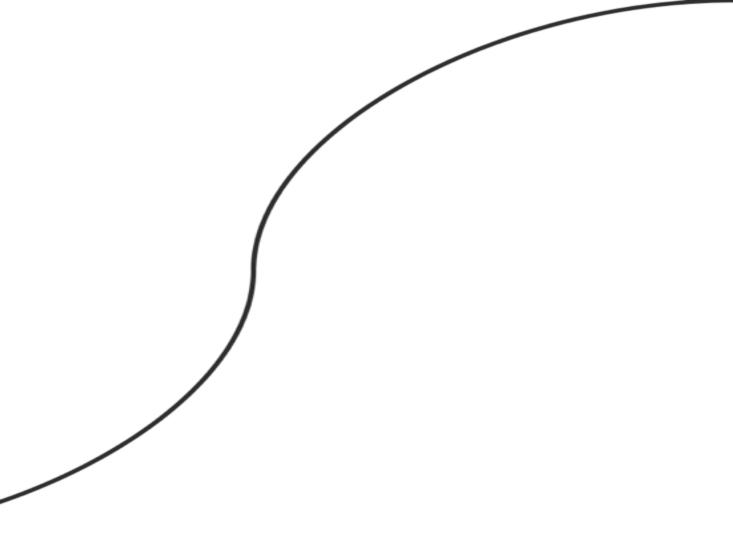
Tax revenue



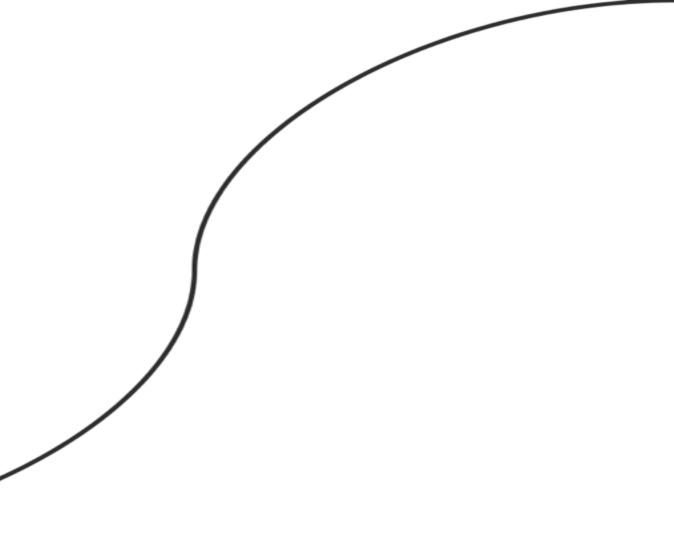
Kilometres of roads



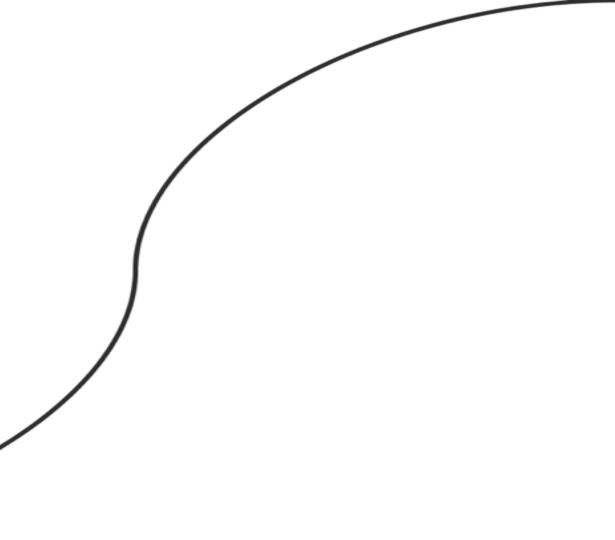
Hot dogs sold



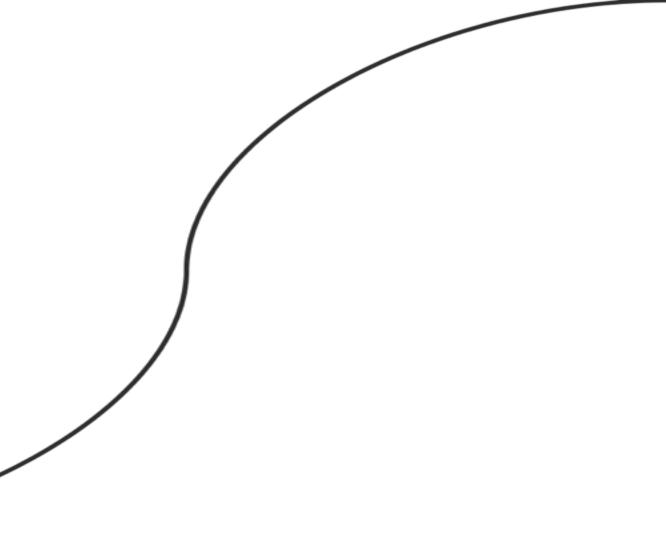
TEDx seminars



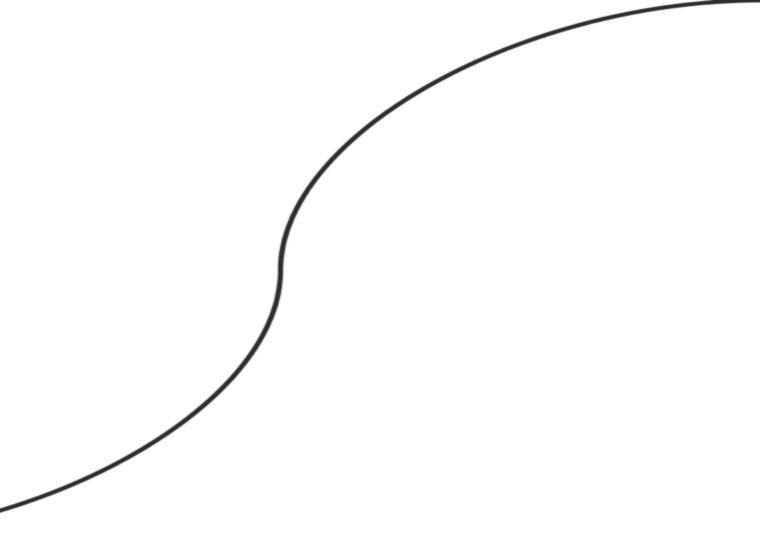
Consumption of energy



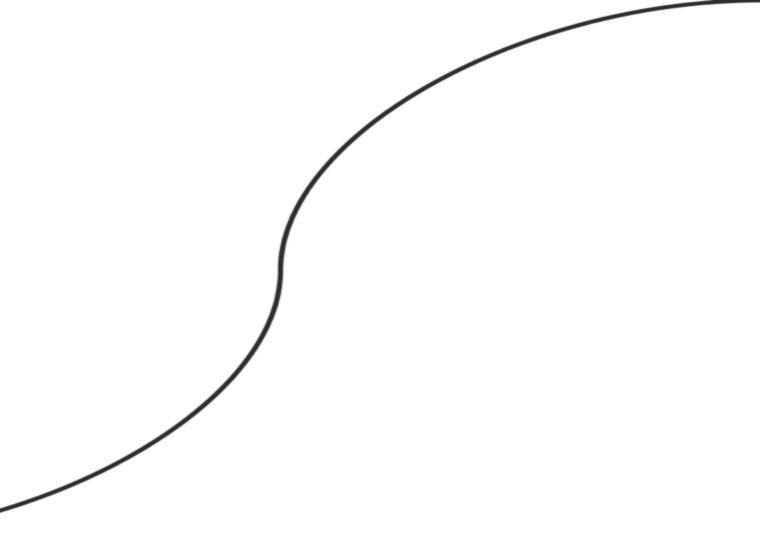


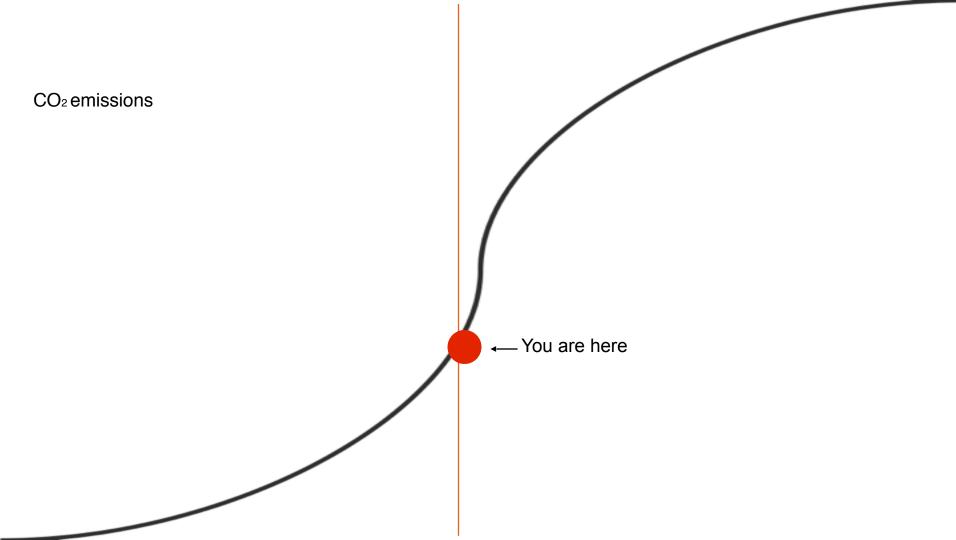


m2 / person

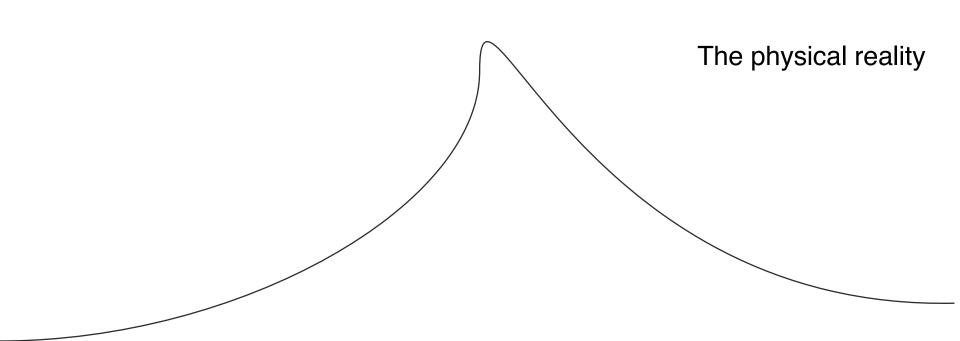


m2 / person





CO₂ emissions



Foresight looks at these points in future. Its about understanding discontinuities.

Instead of extrapolating a single trend (robotisation, work) it looks at a collection of megatrends to get a holistic picture.

Negairenc

What are megatrends: •a list! •affect everything •unlikely to go away •interact with each other •create trends, technologies and industries •may change in definition, but remain the same in essence •a short(est possible) list of phenomena you can explain the future with

What megatrends are not:

Trends or fashions Technologies or industries Local phenomena Something you can abolish with a **magic bullet**

5 DEMOS HELSINKI MEGATRENDS

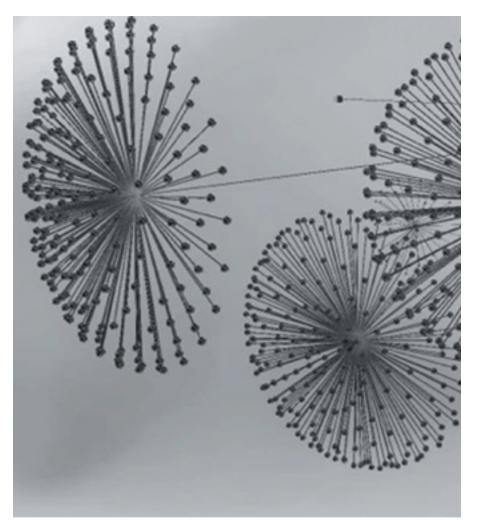
1. Planetary technology combines bits and atoms

2. Population tetris replaces population segments

 Individualisation turns into participation
The emerging metropolises become the dominant global structure

5. Resource economy delivers constant disruptions

(Demos Helsinki, 2015)



MEGATRENDS BECOME REAL ONLY IN A GIVEN REGION.

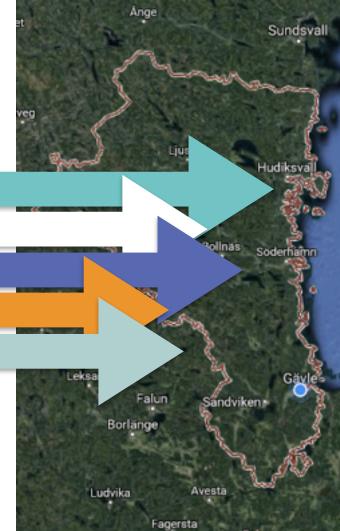
Planetary technology

Population tetris

Individualisation becomes participation

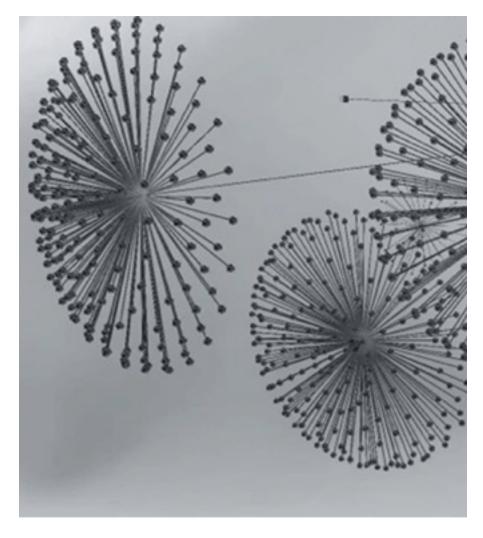
The emerging metropolis

Resource disruptions



MEGATREND 1

Planetary technology combines bits and atoms. The next phase of digitalisation connects the entire planet into a web of data, that is getting beyond human control.



When is the last time that you watched your mobile phone?



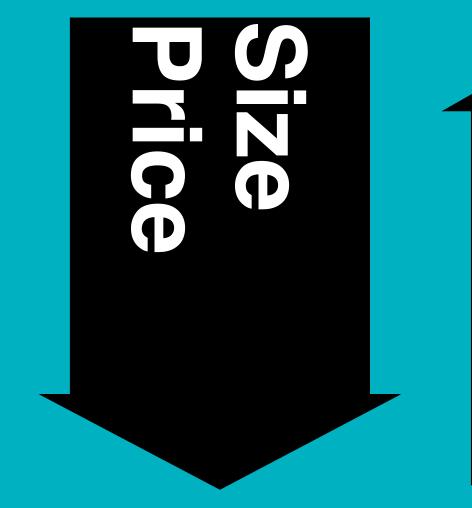
We look at our phone every 6th minute



In ten years time we will never look at our phones.





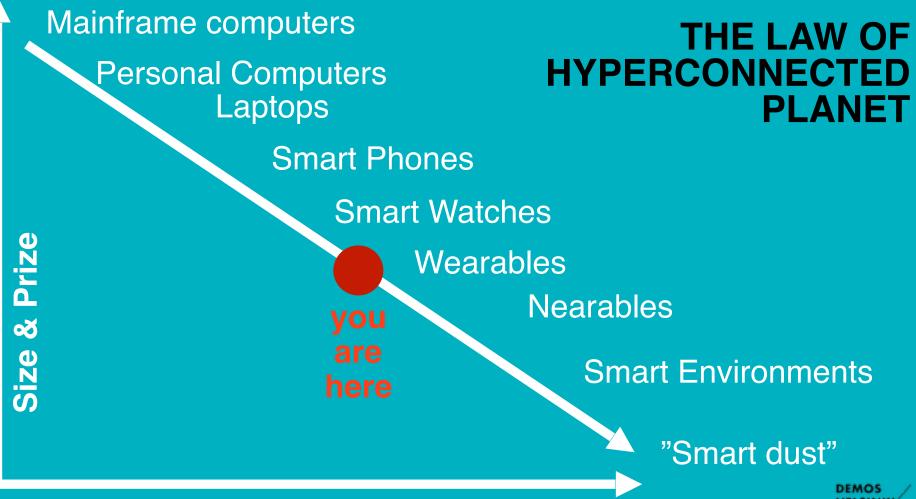




Mainframe computers THE LAW OF **HYPERCONNECTED** Personal Computers Laptops PLANET **Smart Phones Smart Watches Wearables Nearables Smart Environments** "Smart dust"

Functionalities

DEMOS HELSINKI



Functionalities

Bits and atoms are joining already and its creating a lot of value. Already.

Uber ≈ \$18.2bn Airbnb ≈ \$30bn

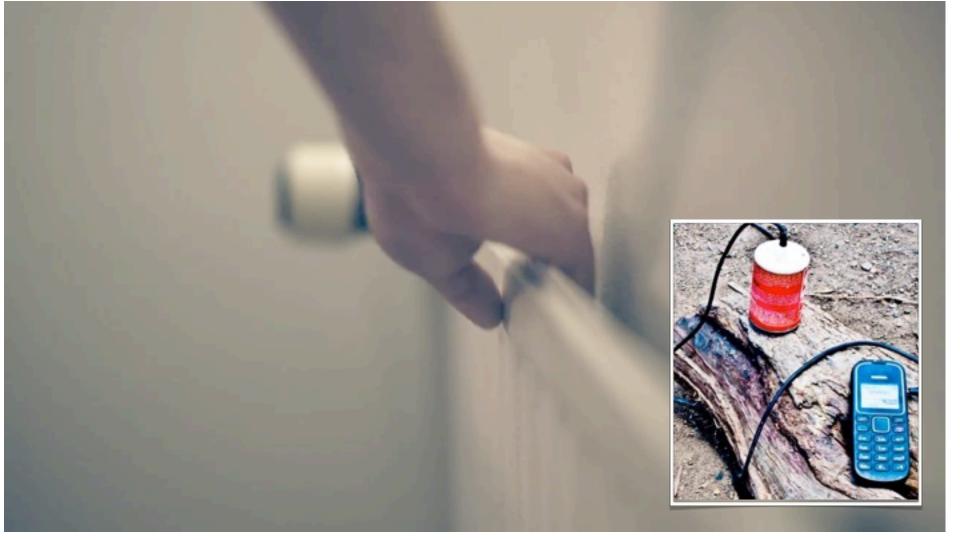


Pokemon GO increased the valuation of Nintendo w. \$11 bn (oops!)



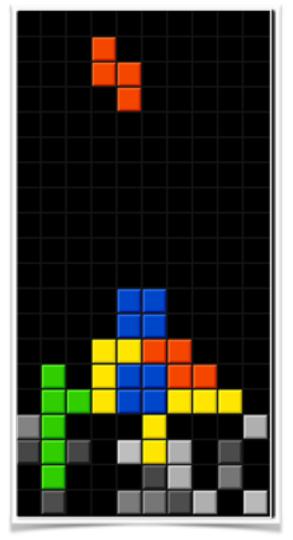


DEMOS HELSINKI



MEGATREND 2

Population tetris replaces population segments. There are holes in the society and reaching everyone is hard..



The Economist

NUMBER OF THE PARTY AND

China cracks down on microblogs New opportunities for organised crime Google and the internet of things UKIP: normal for Norfolk?

If the French ran America

Coming to an office near you...



Population tetris replaces

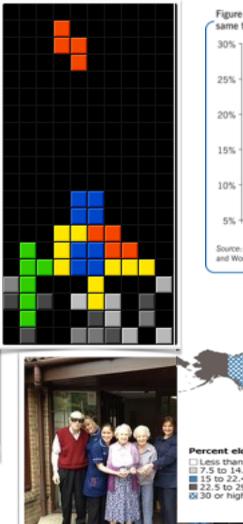
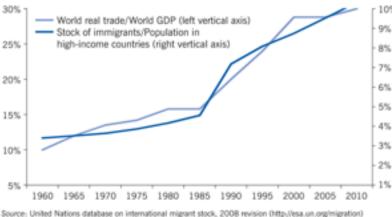


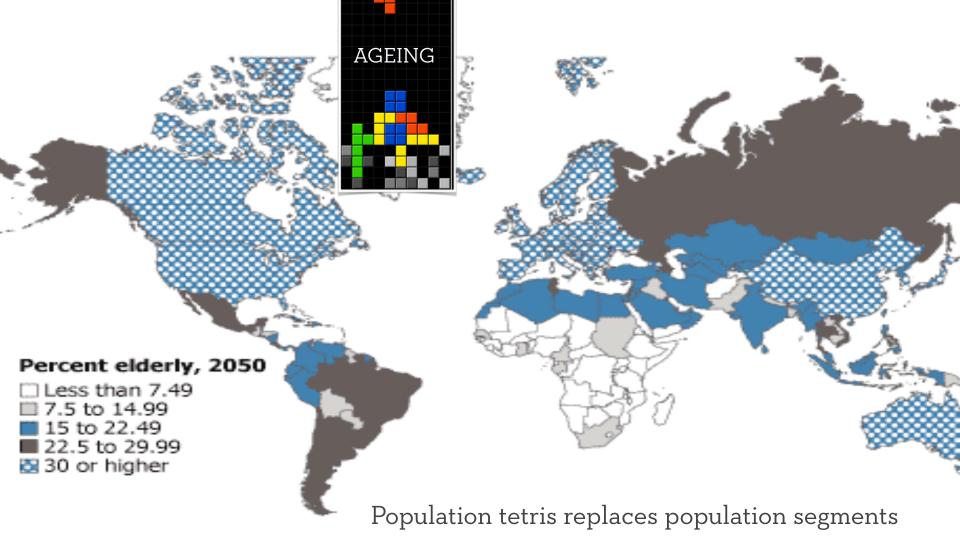
Figure 1. Immigration rates in high-income countries have tripled since 1960, following the same trajectory as the trade/GDP ratio



Source: United Nations database on international migrant stock, 2008 revision (http://esa.un.org/migration and World Trade Organization online database (http://stat.wto.org).

2 million

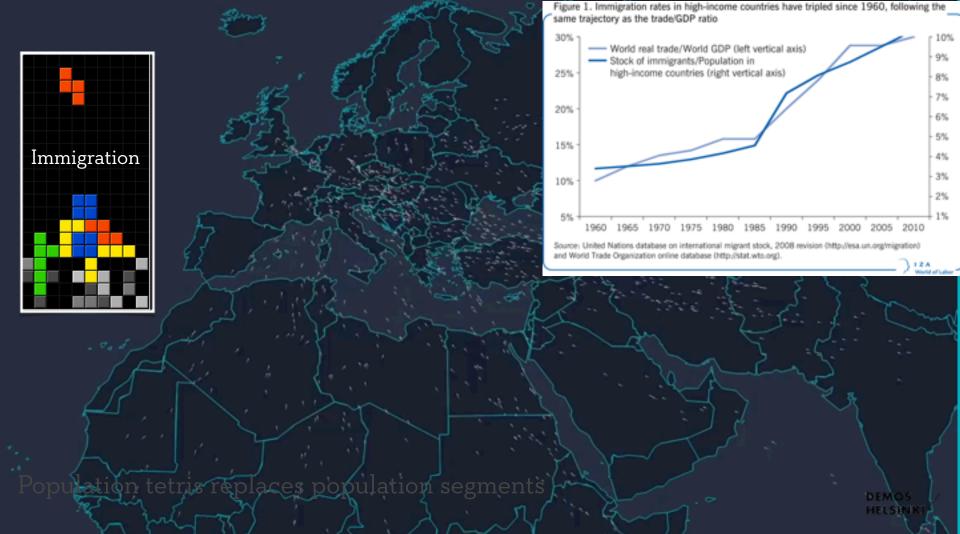






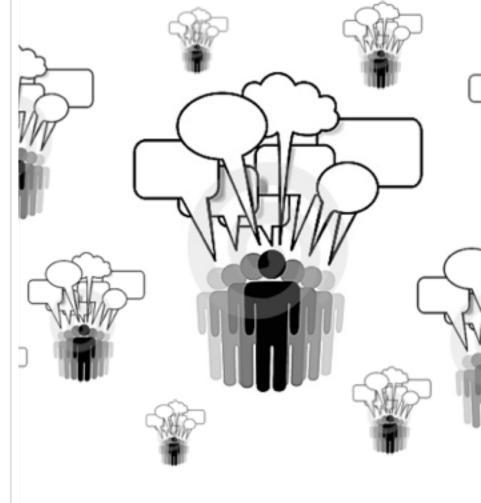
What today's technology will do to

12 +7 2 3 in 42 Yu CR SOHJOA.FI EZ10 GRief.



MEGATREND 3

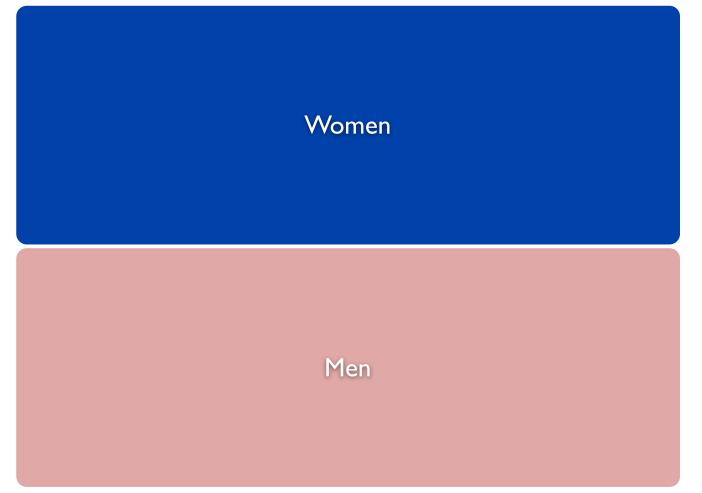
Individualisation happens through participation. We become individuals through participating in many informal groups.



Individualisation through participation replaces population segments with groups.



DEMOS HELSINKI



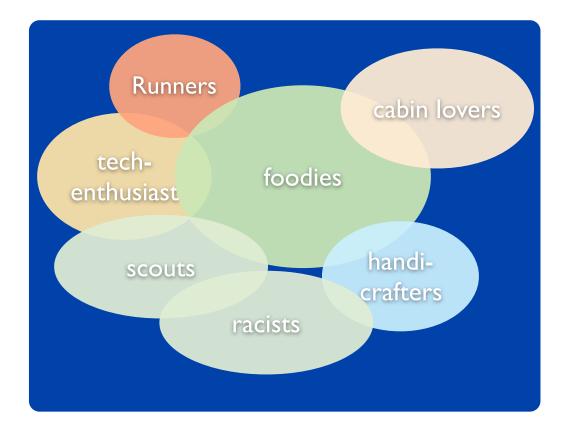
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Fully employed

Students and pensioners

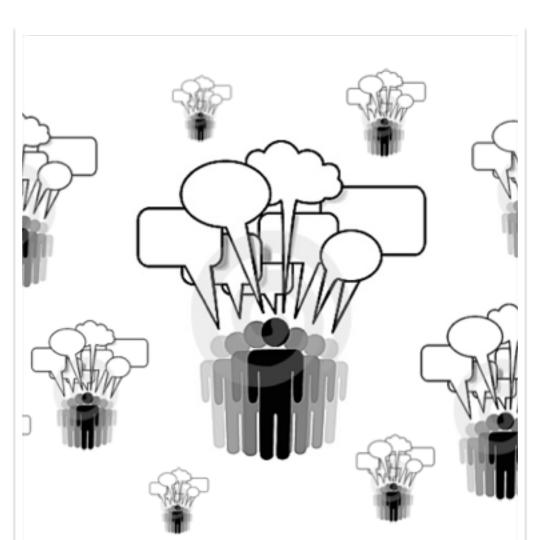
The unemployed



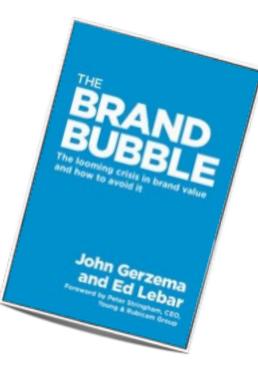


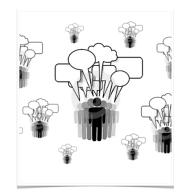
Groups challenge institutions power

fundamentally.









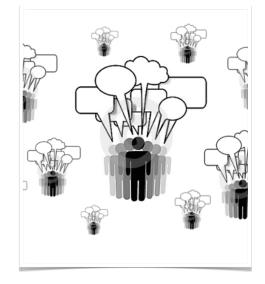
Reaching people with top down approach fails:

...consumer trust in brands has **declined by 50%** in a decade, down from 52% **to 25%**. Instead, people trust their **peers**.



Individualisation through participation shows in new economic structures.

Corporations in the Collaborative Economy Frequency of adoption by month/year in the sharing economy, maker movement, crowd funding, and co-innovation Source: Crowd Companies April. 2014



The Mayor's Crowdfunding Programme

#CrowdfundLDN

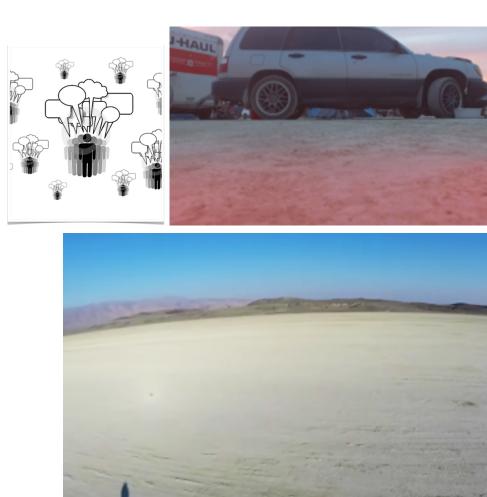
We want to help you create special local places that bring Londoners together.

LEARN MORE



Black Rock City - A Future City?

- No money, everything is free
- Everything is produced by the attendees "burners"
- Tickets sell in seconds
- Desert city of 75 000 inhabitants
- A platform for co-creation

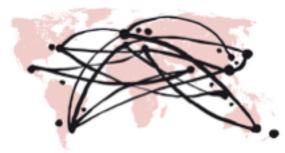


MEGATREND 4

The emerging metropolises become the dominant global structure. The economic and soon cultural dynamism moves to Asia and then to Africa.

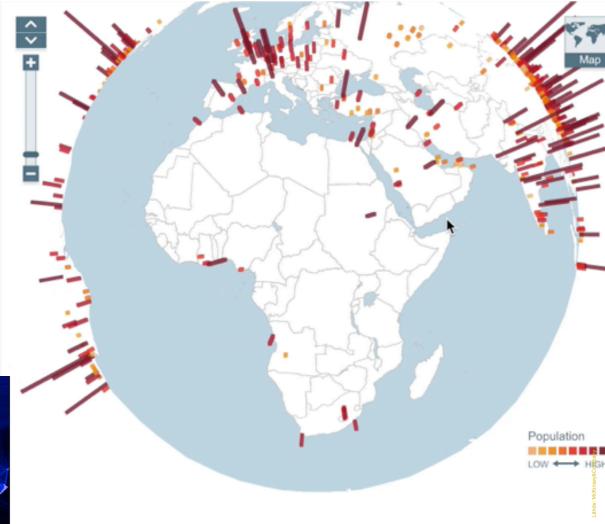


The emerging metropolises remake the map, beyond national states.



THE RETROPOUR - THE CORE OF THE WORLD HAP IN THE TWENTY-FIRST CENTUR





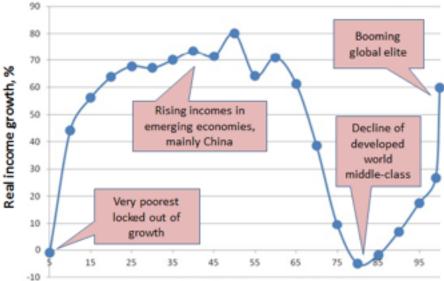
The emerging metropolises make most of the growth and world economies

Figure 2.1. 2015 GDP Growth Forecasts and the Effects of an Oil Supply Shock.

(Percent)

1. 2015 GOP Growth Ferecasts¹ 10 -10 ess than Creater than or equal to 6 ⇒ insufficient data

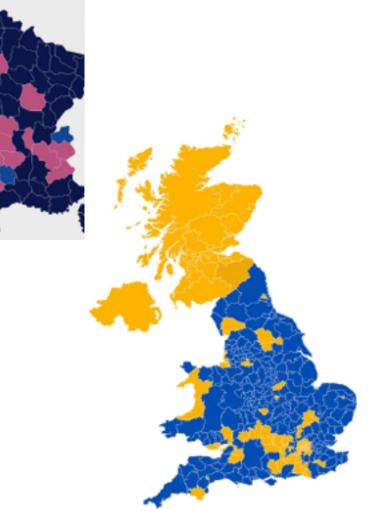
Global income growth from 1988 to 2008



Poorest ← Percentile of global income distribution → Richest

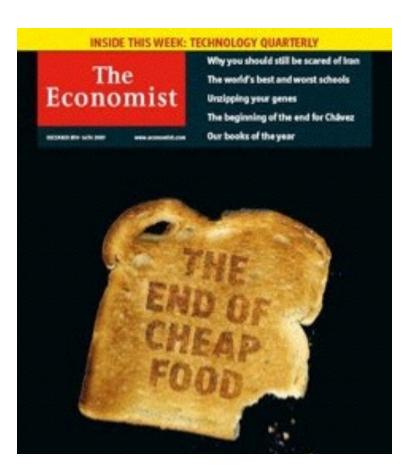


The emerging global metropolises grow out of the periphery and slow growth cities.



MEGATREND 5

Resource economy delivers constant disruptions in consumption, business and infrastructure. Food, housing, transportation and energy change and become digital services.

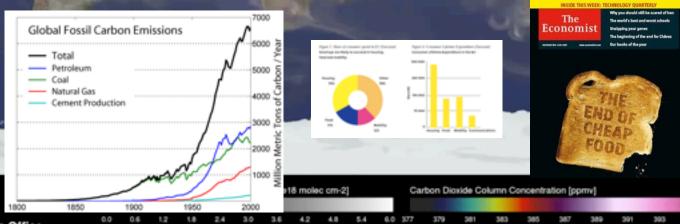


Resource economy delivers constant disruptions



Resource economy delivers constant disruptions



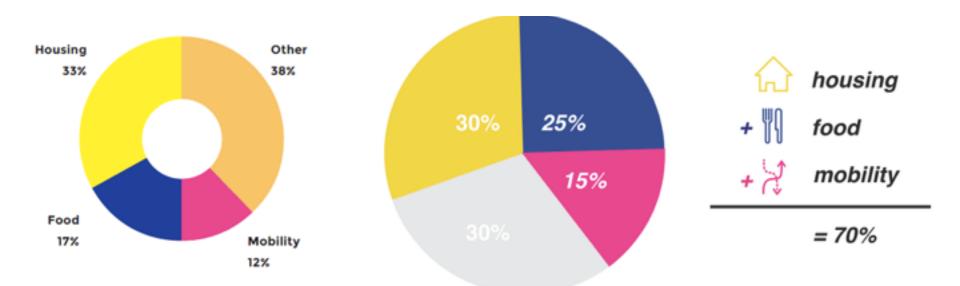


Global Modeling and Assimilation Office

Resource economy under constant disruptions - mostly in housing, food and transportation.

Share of consumer spend in EU [Eurostat]

Energy consumption per household [Eurostat]



Rectonal impact <u>dimegairends</u>

MEGATRENDS BECOME REAL ONLY IN A GIVEN REGION.

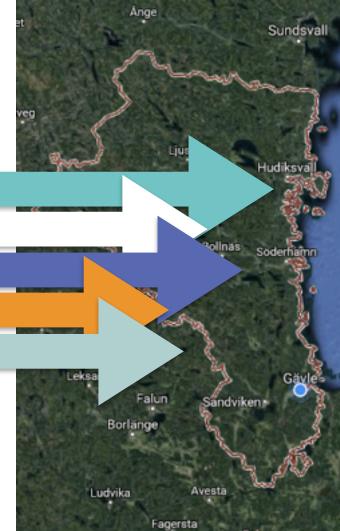
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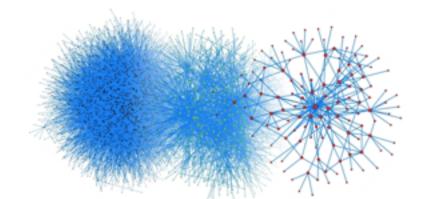
The emerging metropolis

Resource disruptions



Megatrends mean **black swans** and **complexity** for the regional level.





Black swans

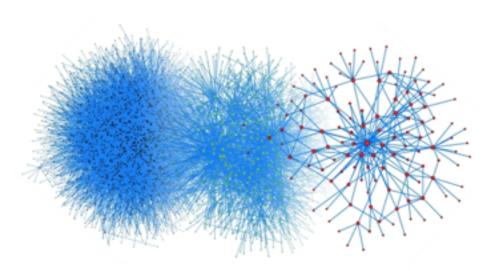








HOW COME WE DID NOT SEE THIS COMING?



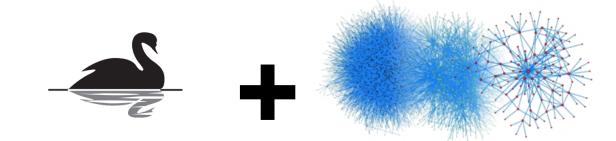
Complexity



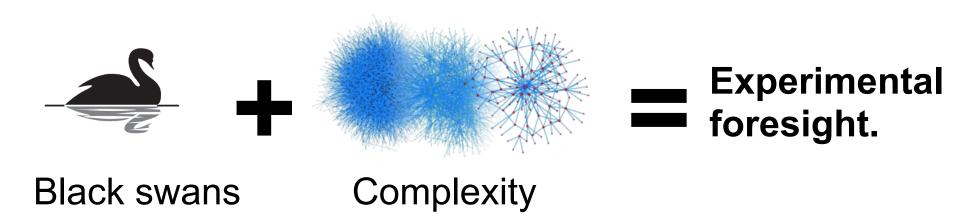
You can not do just one thing for any given action ramifies to a greater or lesser degree throughout the whole ecosystem.

John C. Hendee, George H. Stankey, Robert C. Lucas - 1978 - Nature conservation

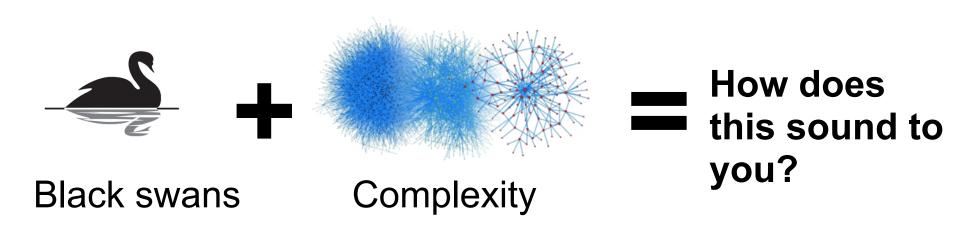
How to plan for the future of black swans and complexity?









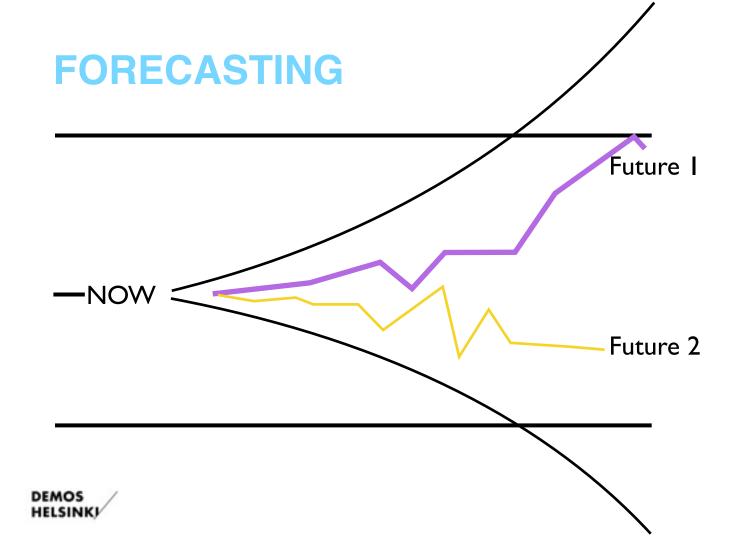


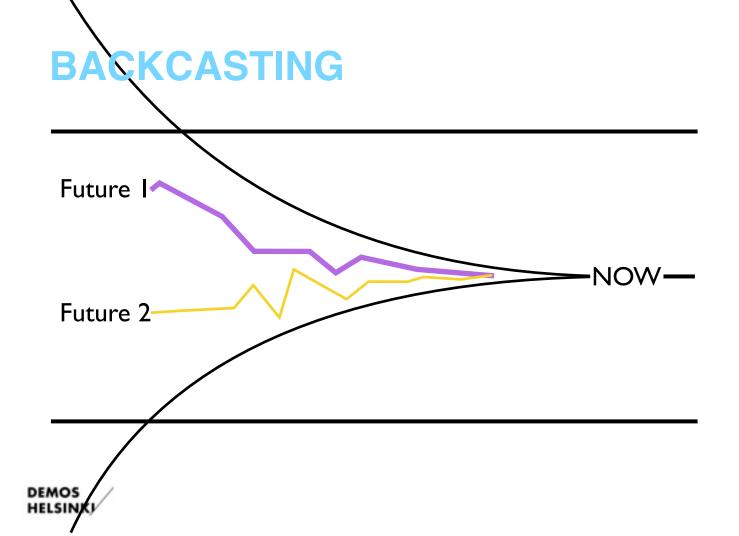


EXPERIMENTAL FORESIGHT IS THE NEW PLANNING.

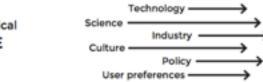








AN Contra Co he word transformation management



Socio-technical REGIME



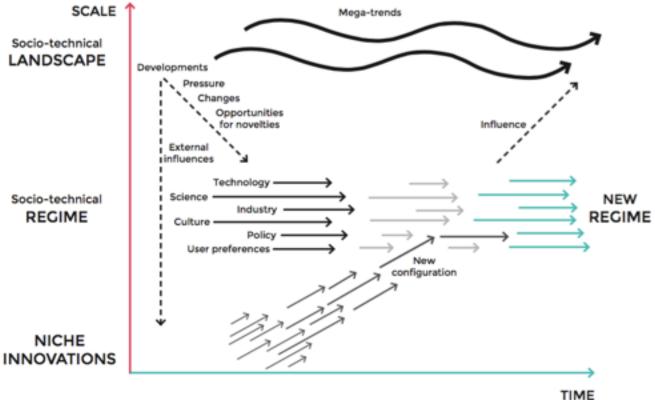




NICHE INNOVATIONS

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Increasing structuration of activities in local practices





The world's largest basic income experiment



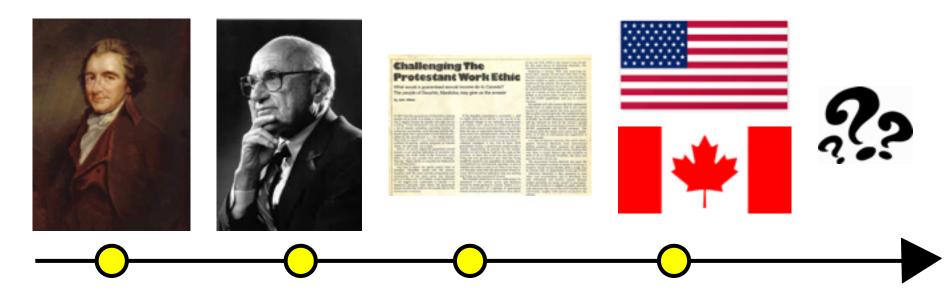
By PETER S. GOODMAN DEC. 17, 2015

Finland's experiment in a nutshell:

- Duration 2 years
- Nationwide pilot
- Started on January 1, 2017.
- Covers 2,000 unemployed Finns
- Age between 25 and 58
- Guaranteed sum of \$625 / month, which equals average monthly unemployment benefits in Finland.
- Unemployment benefits were replaced
- Payments take place even if the recipient works or has other income.



The idea of UBI (universal basic income) is over 200 years old



Thomas Paine proposed a basic capital grant for individuals in 1797.

DEMOS

In 1962, economist Milton Friedman advocated a minimum guaranteed income via a "negative income tax. Mincome was an experimental Canadian guaranteed annual income project that was held in Manitoba, during the 1970s. From 1968 to 1982, the US and Canadian governments conducted a total of five negative income tax experiments.

Then it was forgotten for decades...

Today, there is much UBI hype, but setting up experiments is a struggle

The City > News Columnists > The Nexus

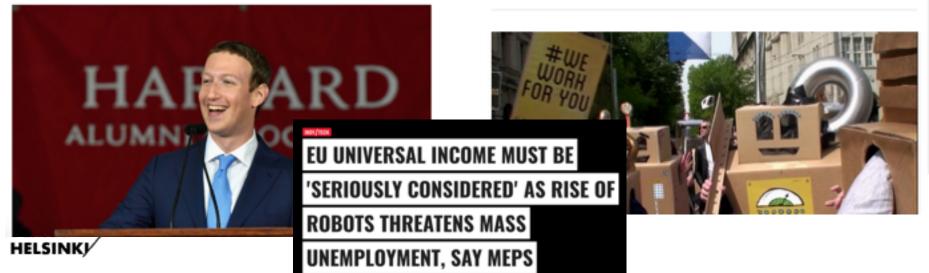
Universal Basic Income: Mark Zuckerberg wants to give you free money for being alive

Y combinator needs to make its universal basic income experiment in Oakland public and transparent

Switzerland's voters reject basic income plan

O 5 June 2016 Europe

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How did Finland succeed in launching a nationwide UBI pilot?

Secret Sauce:

Experimentation Unit

- Changes innovation outlook
- Creates experimentation culture
- Located in Prime Minister's Office
- Collects cumulative knowledge of experiments
- · Outsources the experiments and oversees them
- · Links experiments to relevant government bodies
- Provides feedback loop

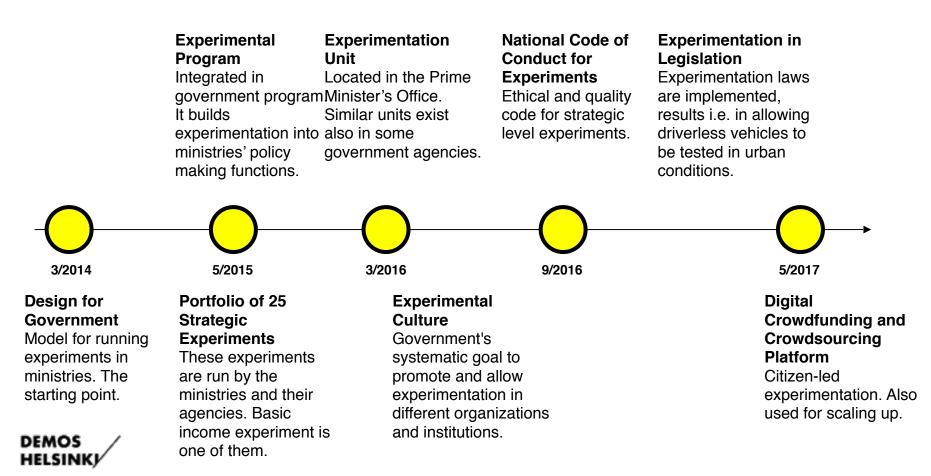


HELSIN

"…The [Experimentation Unit] model includes new and bold practices that support the interaction between the government and the civil society. It constitutes a foundation for future policy making..."

Anu Vehviläinen, FInland's Minister for Local Government and Public Reforms

UBI is only one of 25 strategic pilots in Finland. How was hunger for experiments created?



Traditional approach		ch Nudge unit	Experimentation unit
Core of policy design process	Linear, based on assumption of predictability	Single Experiments, non-systemic	Authentic learning in government, knowledge cumulated inside the government
Where improvement takes place	Policy is designed traditionally and linearly	Policy implementation and delivery becomes more efficient	Policy design is collaborative from beginning and experiments gain legitimacy, leading to better policies
Public involvement	Closed and controlled, if any	Closed and controlled	Open and transparent
Methodology	Planning committees, working groups	Behavioral methods	Behavioral and data methods complemented with emancipation and participation
Desired end result	Planning gives birth to a good policy	Experimentation improves policy's efficiency	Collaborative policy design and experimentation make more broadly accepted and tested policies

Fimpa fint-försök fick effekt Snygga askkoppar minskade nedskräpningen

Nedekräpningen i Gdoeborg har minakat latort med undaning av fimper som ofte slängs of markets

I att föradk att minaka antidet fimper placerades Regularia ech konstruktigt fekorerade sakkopper ut på nägra utvalda hällplatser vilhat faktiskt fick ginsborgarna are forget på eller seklet.

 Minist 2016 generalfindes ett. make dir Onderspired -Trans, vachary and, i sumarbets and A Win Win World och Dennis Melsinki använde betrendevetenthe property is not in the second s of the second second species of the second sec fiki naf gäller tigarvitfingar. I Combond.

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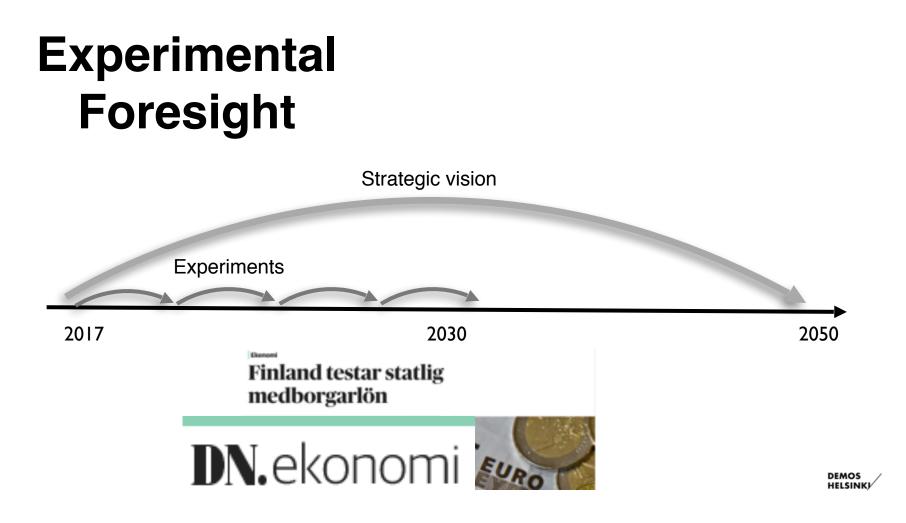


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TRADITIONAL PLANNING

EXPERIMENTAL FORESIGHT

Variants of single trends 0,25-4 year time horizon Great for managing continuity Starts with numbers Predicting the future Interest in continuities Medium term resource allocation

Discontinuities of multiple trends interacting 2-50 year time horizon Great for managing transformation Finds new numbers Making with the future Interested in discontinuities Long-term vision and short term experiments



LET'S DIVE IN!

KIITOS! Tack!

Roope Mokka Founder Demos Helsinki





