## *Moving beyond prediction - using foresight to flourish in turbulent times*

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## A new normal – connected challenges and inevitable surprise

10 years ago who would have predicted....

- Global financial crisis of 2008 (and slow recovery)
- Brexit referendum (and outcome)
- Incursion of ISIS into Iraq
- A sustained low oil price
- A "super-hot" Arctic winter
- A migration crisis in Europe

#### OR

- The global success of Uber, AirBnB, Facebook
- The world's first trillionaire

• .....



## Swedish regional development in a shifting world

**Global accelerations create uneven impacts at local levels** 



1-3 based on: 'Thank you for being late' – Thomas L. Friedman, 2016

## Markets, Mother Nature, Moore's Law

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#### Markets

- Explosion of economic interdependency and global value chains
- Financial globalization faster accumulation of wealth and new extremes in inequality
- Technological globalization winner-takesall dynamics of internet economy
- What will be traded in future?



#### Mother Nature

- Global climate change momentum is still increasing (Paris Agreement shaky)
- Local increasing water stress, habitat destruction, species extinctions, icemelt
- Transboundary ocean acidification, shifting circulation patterns
- Getting ahead of connected challenges?



#### Moore's law

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- Digitalization Big Data, Internet of Things
- Multiple frontiers converging robotics, nano-, bio-, AI, materials, genomics, synbio
- Can social, political and institutional

#### Microprocessor Transistor Counts 1971-2011 & Moore's Law



Based on: 'Thank you for being late' – Thomas L. Friedman, 2016

## A conventional way of engaging the future...

Assume continuity and all other things remain the same...



## The costs of over-simplicity

Forecasting lets us down most, when we need it most - when the trends bend!



For more than three decades, macroeconomics has gone backwards. ...Their models attribute fluctuations in aggregate variables to imaginary causal forces that are not influenced by the action that any person takes.

--Paul Romer, World Bank, Dec 2016

## KISS vs. Open Futures

**Comprehensive vs. Comprehensible?** 



## What about - Migration, Militarisation, and Motivations?

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#### Migration

- Historic levels of flow new waves of migration in multiple world regions (into USA, into EU, into Australia, etc.)
- More lone children and families on the move
- Increasing pressures for migration conflict, economic, environmental stresses and crisis

#### (Re)Militarisation

- Rising tensions within and between countries
- NATO defence spending (Europe and Canada) has been increasing since 2012, with the sharpest rise in 2016
- IHS Jane's forecasts spending in the Asia-Pacific region will climb 23 percent to \$533 billion annually by 2020

#### Motivations

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- Boomers, Gen X, Millennials, Globalities values
- Instant gratification vs. a shift from growth to well-living
- A new global vision no one left behind; universal and multi-dimensional
- A redefining of progress inclusive vs. exclusive, pragmatic vs. ideological



#### Maritime arrivals to southern Europe





## One future vs. too many?



## A Different Way....

Create and use a limited number of futures



## Foresight does not claim prediction

- Business-as-usual sows the seeds of its own demise
- Trends, bend and break
- The future is already in the here-and-now
- The future is first and always a fiction
- Open the future as a safe space to learn and to shape the future

Being better prepared, designed for disruption, able to implement the imaginable

## Looking beyond business-as-usual

Using technological-, European- and global-foresight examples



Global Europe 2050, Directorate-General for Research and Innovation Socioeconomic Sciences and Humanities, 2012 3 Scenarios:

- Standstill in European Integration – 'Nobody cares'
- Fragmented European Integration – 'EU Under threat'
- Further European integration – 'EU Renaissance'

GLOBAL TRENDS PARADOX OF PROGRESS

A publication of the National Intelligence Council





*World Energy Scenarios,* World Energy Council

Global Trends.

National

Intelligence

Council, 2016

3 global orders:

Communities

Islands

Orbits

3 energy futures:

- Modern Jazz
- Unfinished
- Symphony
- Hard Rock



Global E-tailing 2025, DHL

#### 4 Scenarios

- Hybrid consumer
- Self presentation
- Artificial intelligence
- Collaborative consumption

<text>

An OECD horizon scan of megatrends and technology trends in the context of future research policy, OECD, 2016

- Centre of gravity of the world economy is shifting east- and southwards, new emerging state and non-state actors
- Digitalisation will drive economies and shape the ways we work

## Four foresight methodologies

No single best method, choice and mix of methods depends on purpose, users and their uses



Horizon Scanning



Megatrends



Scenario Planning



Visioning

## Horizon scanning

Looking beyond the business-as-usual time frame...

## Signals and stories of new and different futures already emerging



The future is already here, its just unevenly distributed - William Gibson

### Megatrends

Not single trends but interacting trends and pattern shifts



## Scenario planning

different to expected futures coming at us independent of our will - using the might of "might"



Only God or a Fool would claim to know the future – Pierre Wack

## Visioning (& backcasting)

The pull of the preferred future



The future cannot be predicted but futures can be created – Denis Gabor

# WBCSD

(multi-sectoral; vision-led; integrated pathways)

REF: Wilkinson, A. & D. Mangalagiu, 2012. Learning with futures to realise progress toward sustainability: The WBCSD Vision 2050 Initiative. *Futures*, 44(4), 372-384.



#### **The pathway to Vision 2050** To a sustainable world in 2050



TODAY



Connecting through ICT

Research and influencing: Policies Investments

Consumers

3 new business domains (overcoming market failures)

# NEF

## (social change lab; mixed methods; growing a new EU)

Ref: Wilkinson, A., Mayer, M. and V. Ringler, 2014. Collaborative Futures: Integrating Foresight with Design in Large Scale Innovation Processes- Seeing and Seeding the Futures of Europe, Futures, 18(4), 1-26. Report of the Unconventional Summit 2012

N÷F

Celebrating the 10th Anniversary of the Network of European Foundations

#### Seeding the Future of Europe





# Slovenia

(whole-of-society visioning; disruptors and scenarios; new national development strategy)



## **Realistic Hope**

#### **Translating Vision-to-Strategy-into-Action**



#### Strategic Direction: Vision 2050

- A "whole of society" vision
- Five linked elements: wellbeing, trust, shared value

#### Strategic Planning - Choices & Setting Goals

- 4 priorities, 50 goals by 2030, supporting indicators
- key linkages between policy goals new solution

#### Stress testing vision and action plans

- Global and regional scenarios

#### Self awareness

• 5 core values: coexistence, creativity, collaboration, can do, critical thinking

## Futures F.I.T not "future proof"

How flourishing-in-turbulence is achieved....









**Chartres** Unity of Purpose + Craftmanship **Higgs Boson** Positive Deviants + Improvisation

**Butterfly** Imaginal Cells + Self-organisation **E.U.** Started as a hack-athon

#### **STRATEGIC CONVERSATION + 'SOFT' SYSTEMS THINKING + DESIGN**

# THANK YOU!