



Nordic Innovation



9 February 2022

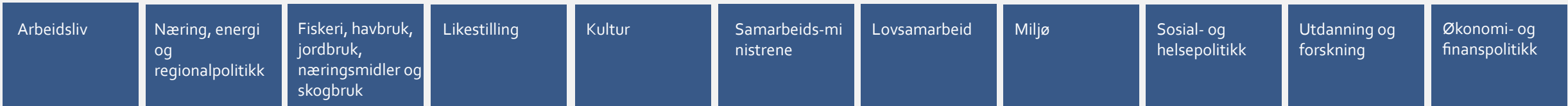
Nordisk ministerråd består av samarbeidsministrene og **10 fagministerråd (MR)** for de forskjellige sektorene som støttes av 16 embetsmannskomiteer (EK)

Generalsekretæren har ansvaret for den daglige driften av det nordiske regjeringssamarbeidet.

12 samnordiske institusjoner og 3 baltiske kontorer



↓
Nordisk ministerråd



↓
**Generalsekretær
Nordisk ministerråds sekretariat**



European Innovation Scoreboard 2021

Top 5 EU Innovation System Performances

(plus Norway, Iceland and EU27 average)

156 Sweden

151 Finland

147 Denmark

143 *Belgium*

139 *Netherlands*

133 Norway

124 Iceland

105 *EU27 average*

Source: European Commission



Combined, the Nordics is the 11th largest economy in the world

Ranking	Country	GDP
1	United States	22,68
2	China	16,64
3	Japan	5,83
4	Germany	4,32
5	United Kingdom	3,13
6	India	3,10
7	France	2,94
8	Italy	2,11
9	Canada	1,88
10	Korea	1,81
11	The Nordics	1,75
12	Russia	1,71
13	Australia	1,62
14	Brazil	1,49
15	Spain	1,46

*Source: IMF World Economic Outlook
April 2021. Numbers in trillion US
dollars.*



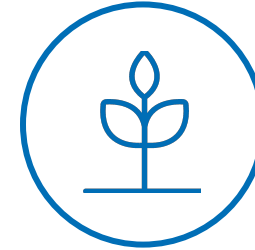
Our vision 2030

The Nordic region
will become the
most sustainable
and integrated
region in the world



A **green** Nordic region

Together, we will promote a green transition of our societies and work towards carbon neutrality and a sustainable circular and bio-based economy



A **competitive** Nordic region

Together, we will promote a green growth in the Nordic region based on knowledge, innovation, mobility and digital integration

A **socially sustainable** Nordic region

Together, we will promote an inclusive, equal and interconnected region with shared values and strengthened cultural exchange and welfare





8 nye nordiske initiativer skal drive erhvervslivet fremad

8 new Nordic initiatives
will drive business communities forward

Programs 2021 – 2024 (Vision 2030)



**Nordic Green
Mobility**



**Sustainable
Construction**



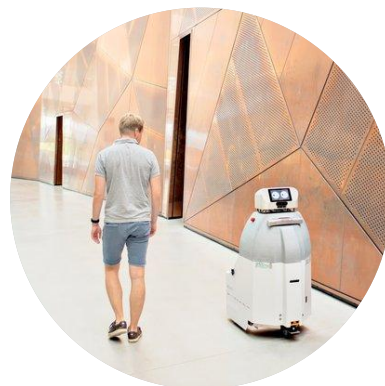
**Circular Business
Models**



Sustainable Minerals



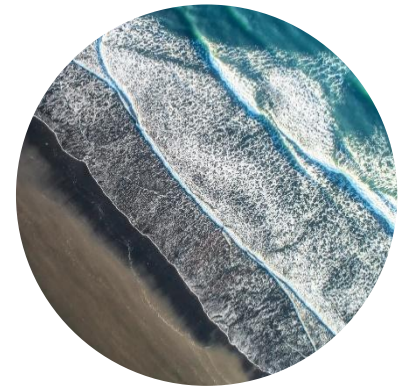
**Smart
Connectivity**



AI and Data



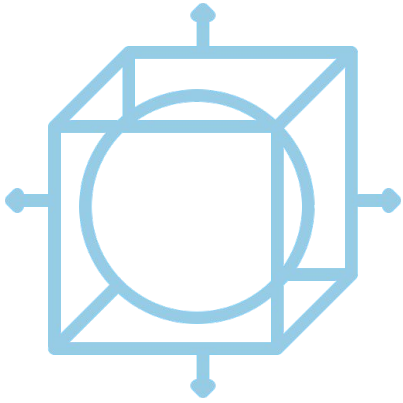
**Life Science and
Health Tech**



**Sustainable Ocean
Economy**

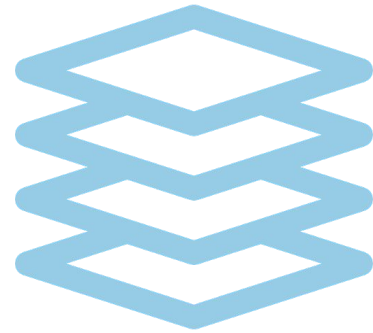


Aspects of systems change



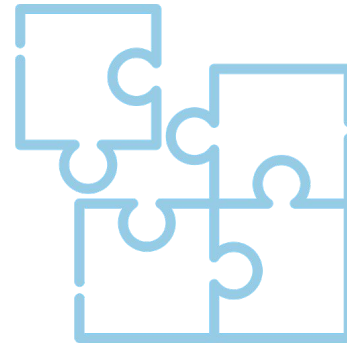
Multidimensional

Involves a wide variety of actors, institutions and technologies.



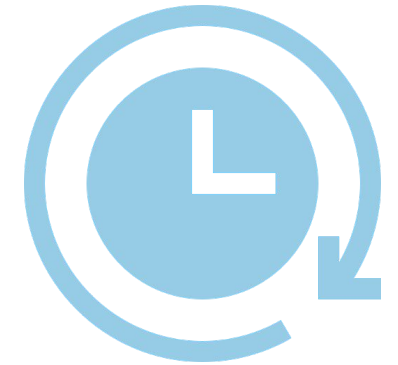
Multi-Scale

Change takes place on many different levels across different scales.



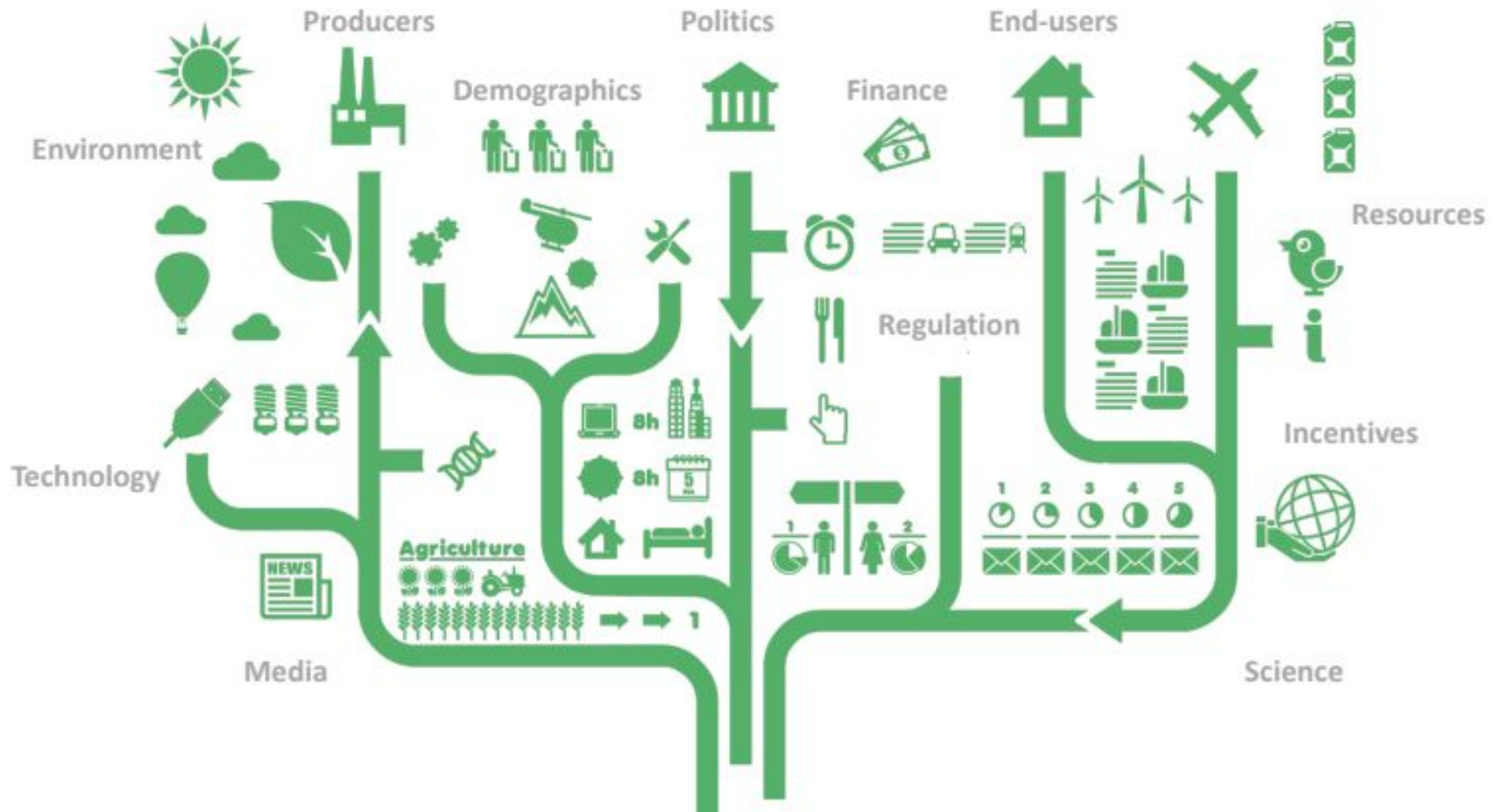
Co-evolution

Co-development of different systems, processes and elements



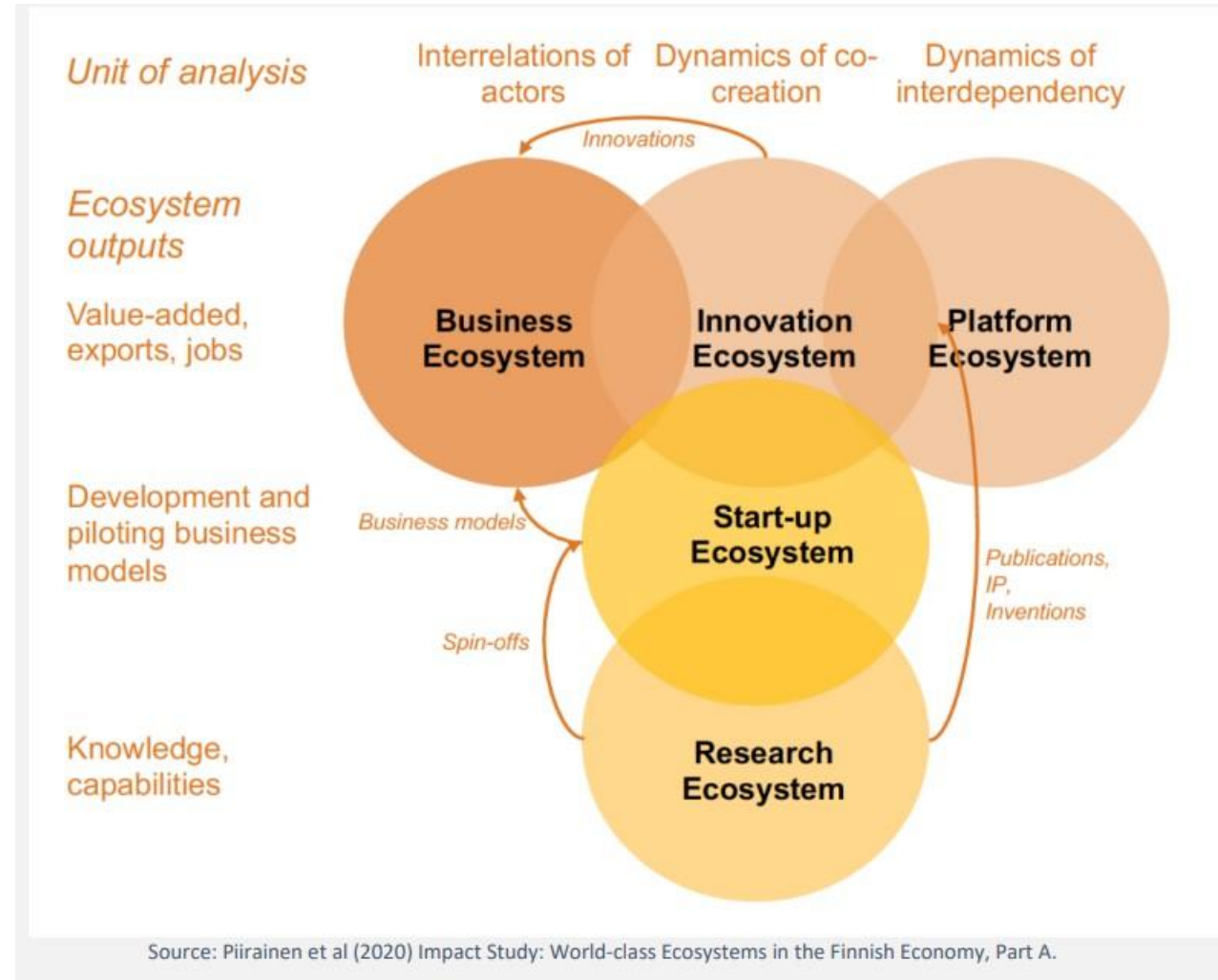
History

Prolonged processes that develop over the course of multiple decades



Innovation ecosystem

- Global and inter-regional nature
- Blurring of industry and sector borders
- Dynamic interaction and co-opetition
- Common goals, interests and values
- Self-directing and regulating, distributed responsibilities and decision-making
- Open knowledge exchange
- Adaptability to new environments
- End-users/customers have an active part in value creation



Five key stakeholders critical to the success of innovation ecosystem creation



Nordic Innovation

Innovation Intermediator

Visions

creating narratives for sector specific problems and the rationale for innovation. Provide grounds for interaction and give direction to learning processes and technical development activities.

Solutions

give opportunities and arenas for companies to engage demonstrate, test, piloting and show-case new and cutting-edge solutions.



Ecosystems

create platforms for interaction with the surrounding eco-system of actors. Enhancing alignment and learning of multi-actor network.

Learning processes

facilitate exchange of experience and knowledge. Stimulate out-of-the-box thinking and encourage targeted knowledge transfer and information exchange.

Enabling Transition

Cross sector matchmaking

Identifying barriers/enablers

New markets & opportunities

Scaling and internationalisation

Creating Nordic added value

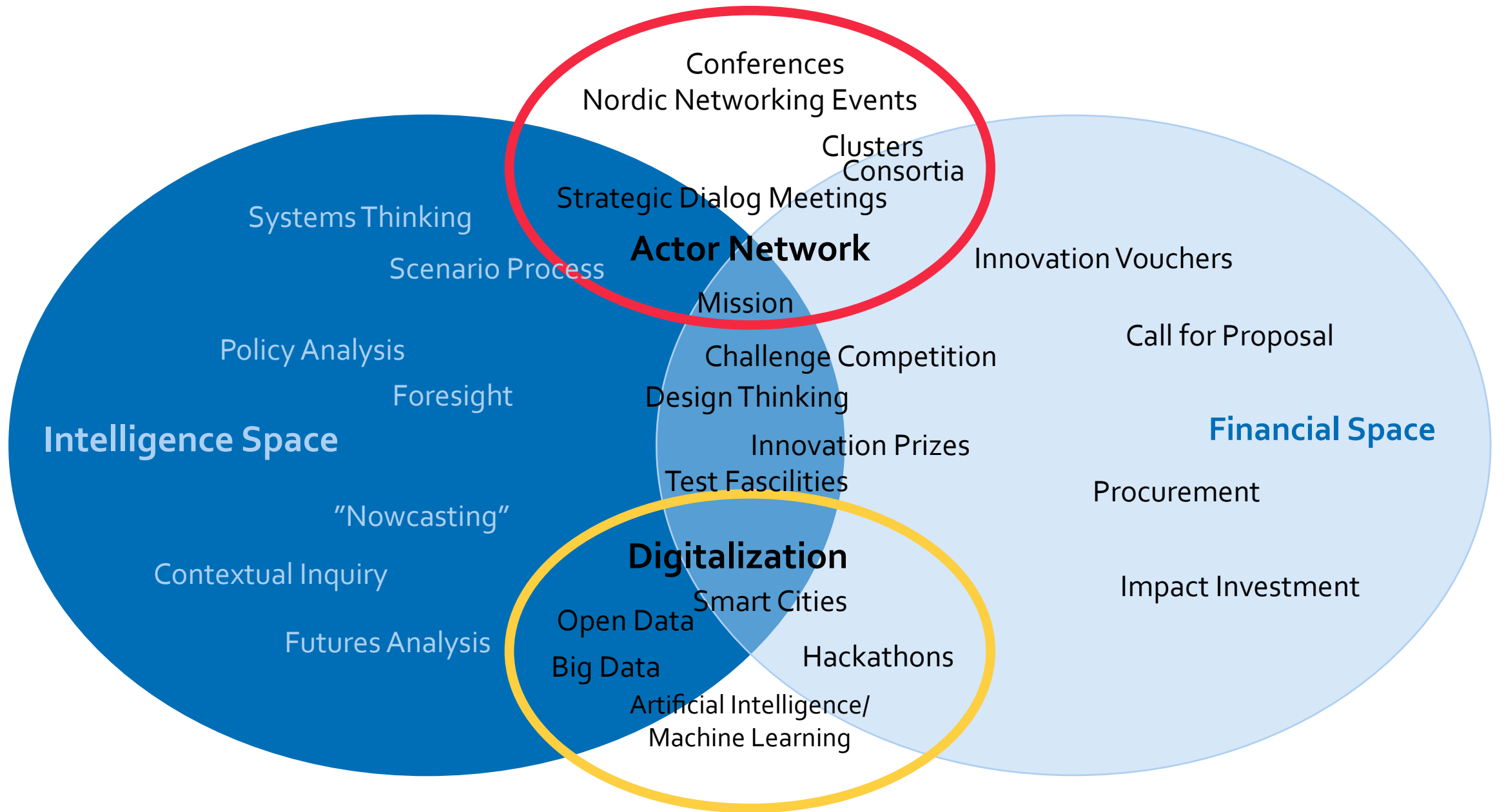
Strong Nordic internal market

Nordic wide solutions

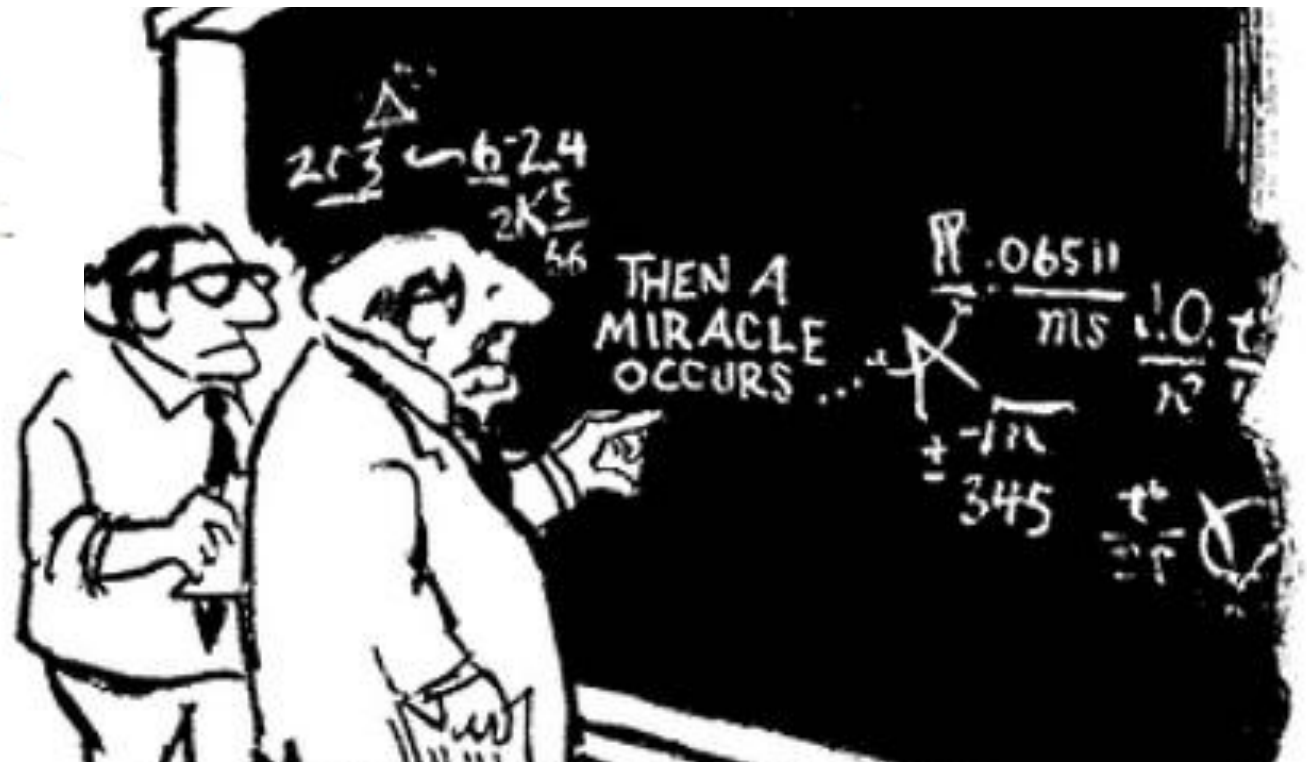
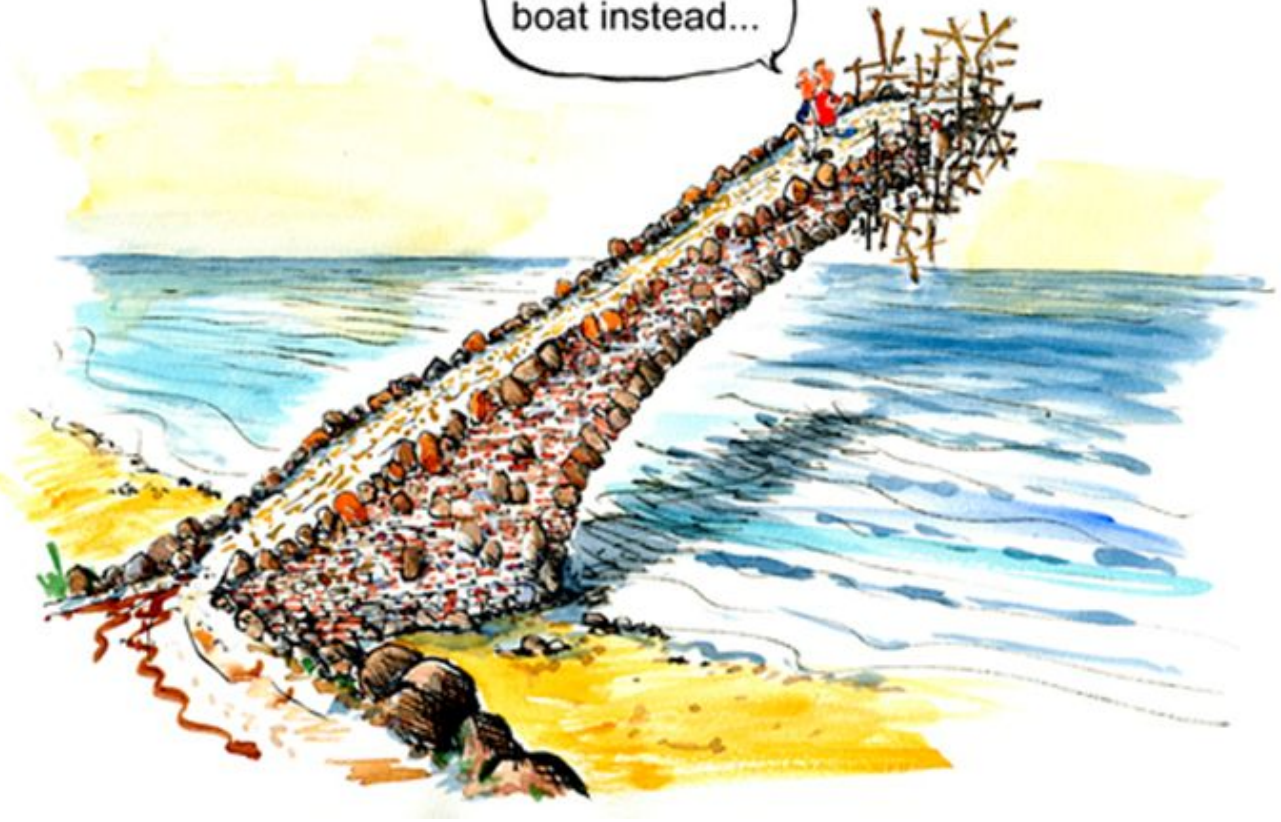
Common Nordic policies and standards

Nordic brand





Maybe we should build a boat instead...



Theory of Change

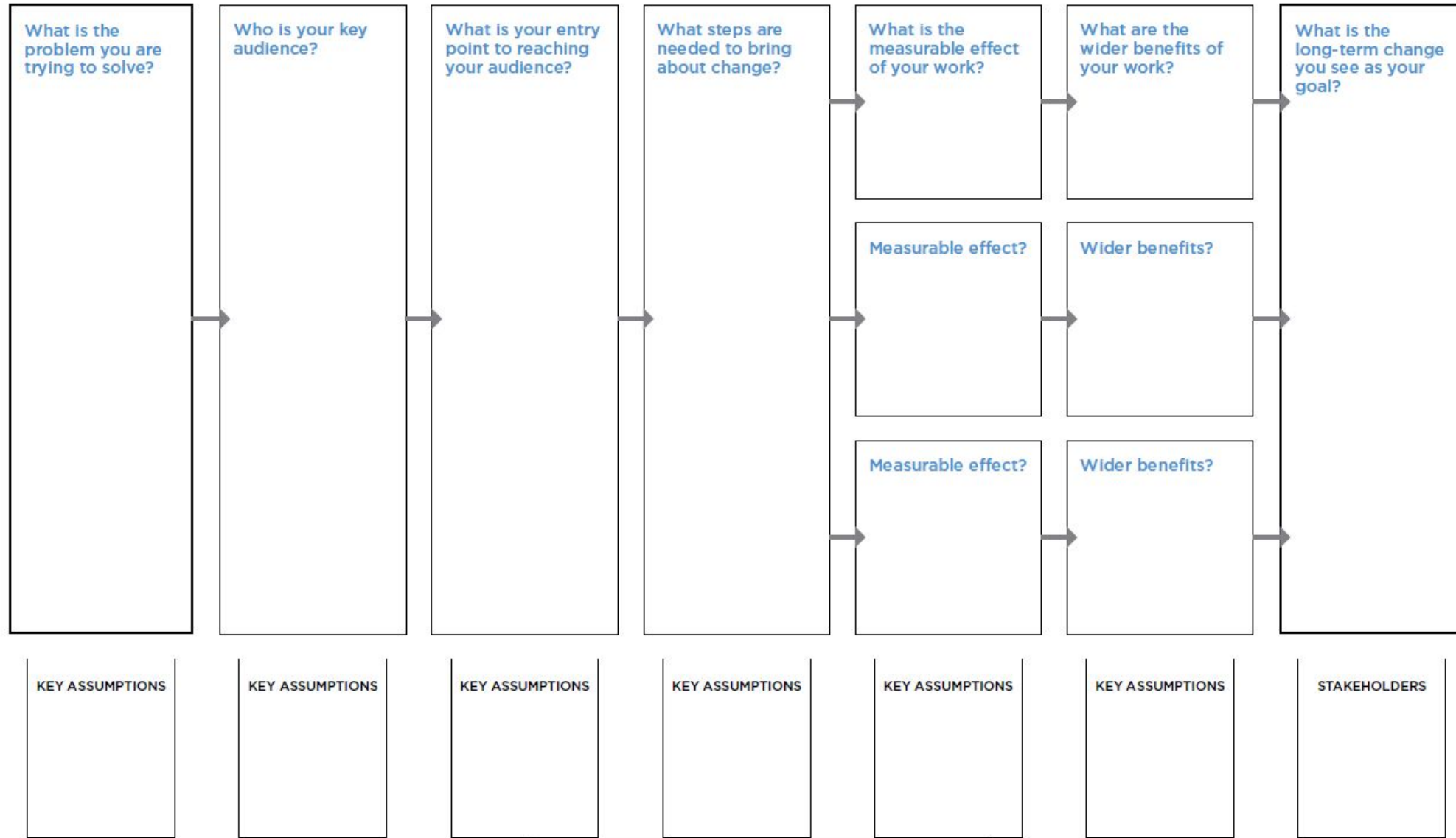


Theory of change - steps

1. Identify the problem area or opportunity to be addressed by your programme (preconditions and causes)
2. Identify the long-term and intermediate objective of your programme/activities
3. Develop an impact pathway
4. Develop indicators

THEORY OF CHANGE

Define your goals and how you will achieve them



How does a theory of change support policy implementation and monitoring

- Unravelling the problem: direct and indirect causes and their interrelations
- Helps to develop a roadmap or pathway of change/change process
- Includes and spells out assumptions
- The ToC is descriptive and takes into account aspects less easy to quantify (e.g. awareness raising, networking changes)
- Outputs, outcomes and impacts are clearly spelled out
- Be a basis for monitoring and evaluation (M&E)



The policy cycle and identifying mechanism of change





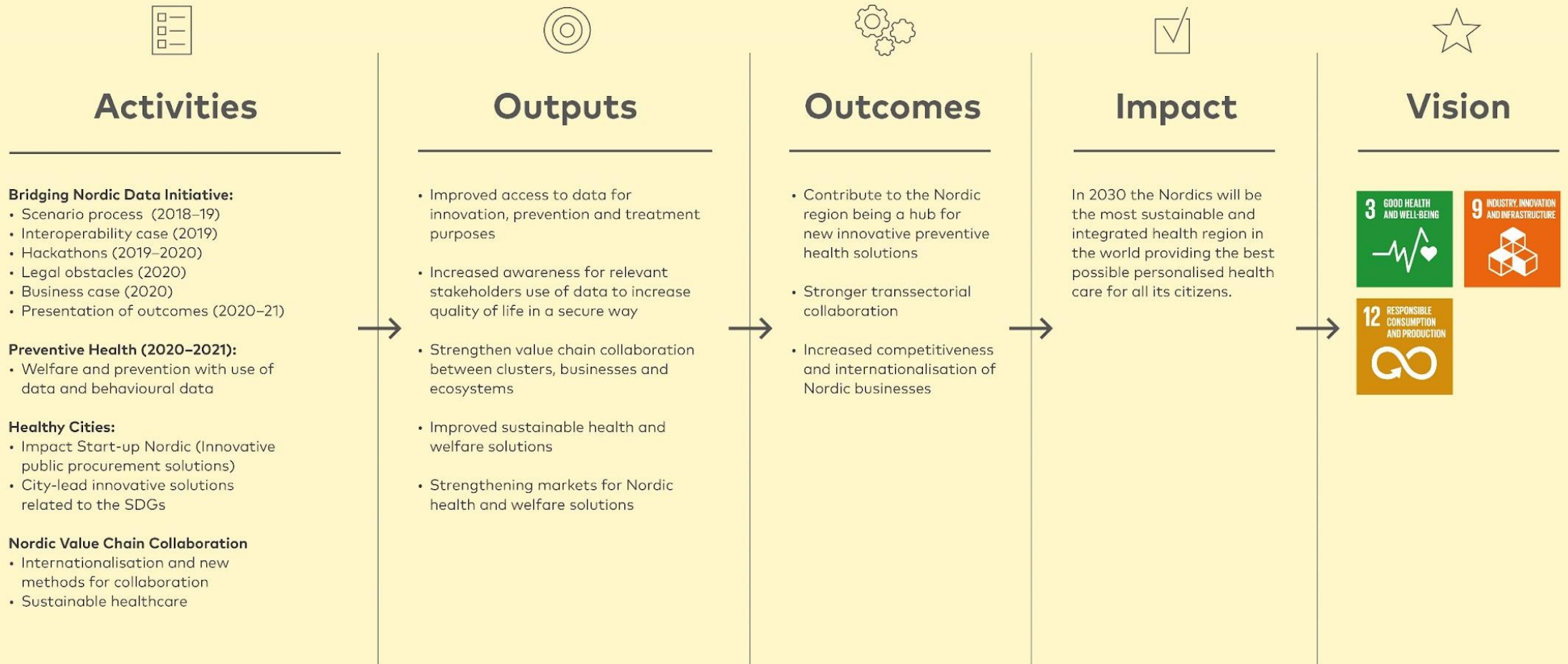


SPACE

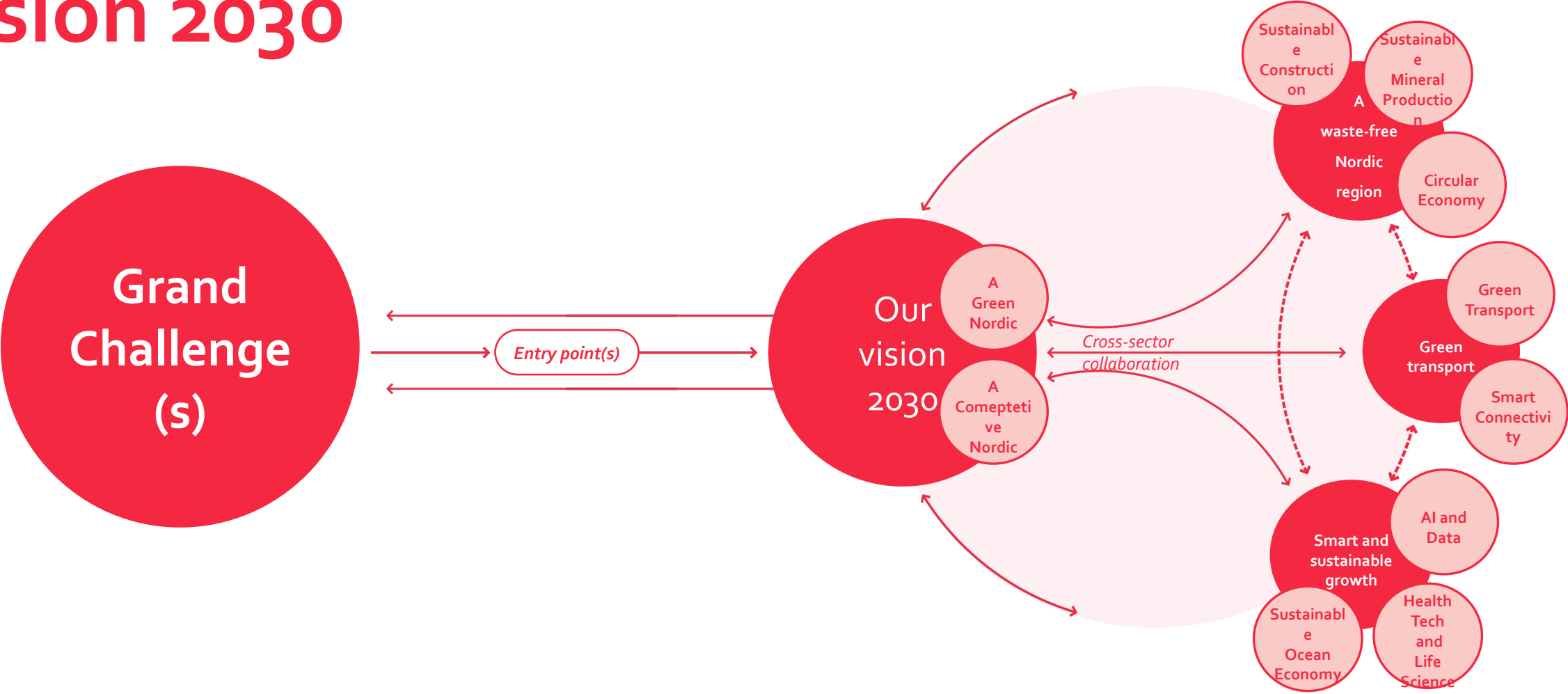
SURFACE

SUBSEA

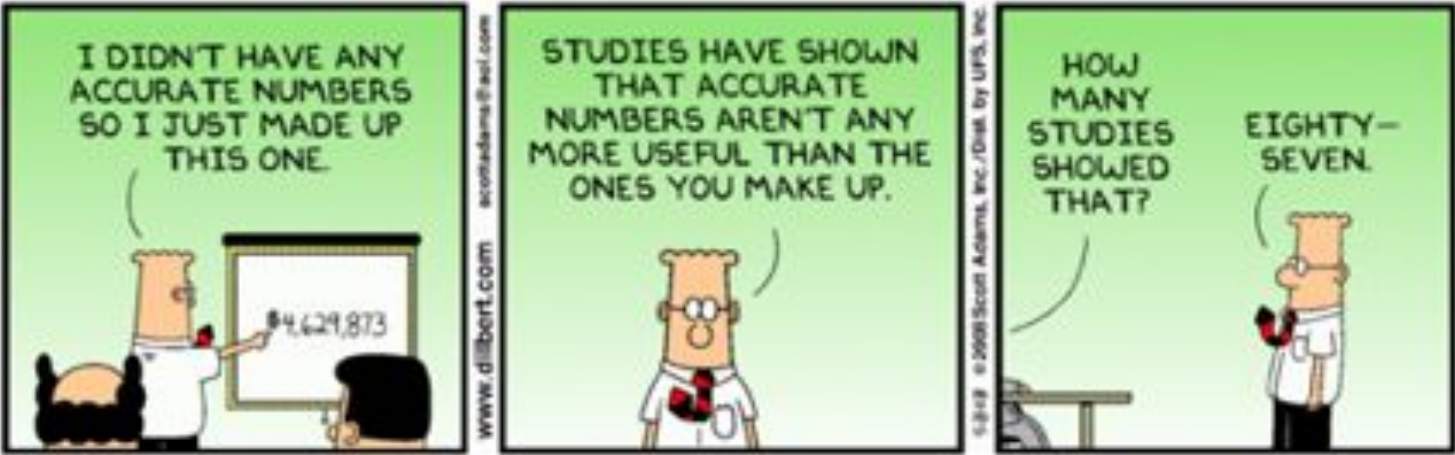
Health, Demography and Quality of life



Nordic Innovation Vision 2030



Indicators or the search for the magic number



Key do's and don't's for an effective monitoring and indicator system

Do

- Set up a system that takes account of time lags, complexity and risky nature of innovation (policy);
- Adopt a mixed-methods approach, don't expect monitoring & evaluation to result in a single number that captures all impact
- Look for behavioural additionality by observing changing co-operation patterns & capabilities of firms/organisations to innovate.

Don't

- ...forget to take account of external factors that may be bottlenecks to improved innovation performance of supported organisations
- ...Expect to prove significant short-term (1-2 years) quantitative impacts of interventions;
- ...Limit indicators to those that count direct outcomes of projects/activities.

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