Innovation Pioneers

TANK MEETING NR. 48 - 4/12

How can we strengthen Sweden's innovation capacity ?

VINNOVA

Goal for today

Innovation is often achieved through collaboration

NETWORK, INSPIRE AND IDEA GENERATE

Goal for today

Explore, understand and future looking

TOGETHER WE CAN CREATE IMPACT AND CHANGE

Quest of the day:

How can we strengthen Sweden’s innovation capacity?

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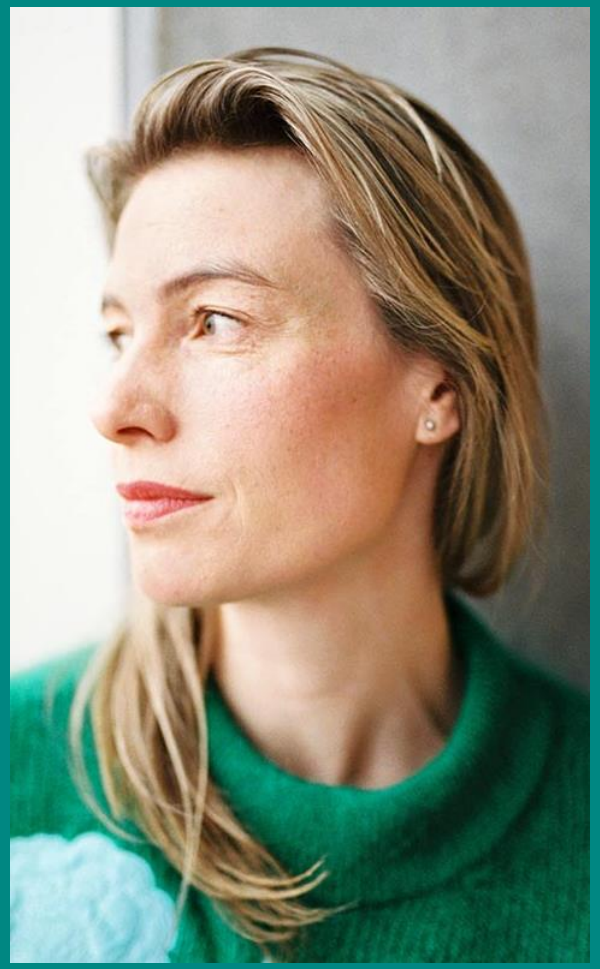
An amazing country to live in



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A country of multinationals

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A world-class start-up scene

Image: Henrik Trygg/VisitStockholm

New types of challenges

Complex social challenges such as climate change, demographical changes, mental ill-health and growing inequality require radically new ways of thinking, cooperating and acting.

Innovation is more important than ever and necessary to transform us into a sustainable society

- DARJA ISAKSSON
GENERAL DIRECTOR VINNOVA

GLOBALA MÅLEN
för hållbar utveckling

SUSTAINABLE GROWTH

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Agenda part 1

- 9.20 – 10.00 Introduction to Vinnova
  Ylva Strander
- 10.00 – 10.30 From local to global – Vinnova in a global context
  Andreas Aurelius
- 10.30 – 11.00 Mission Possible part 1- What is missions? How are we working with it and how can you work with it?
  Andrea Råsberg & Tobias Öhman
- 11.00 – 12.30 Mission Possible part 2- Interactive workshop with the missions team
  Andrea Råsberg, Tobias Öhman & Filip Kjellgren
- **12.30 – 13.30 Lunch**

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Agenda part 2

- 13.30 – 14.00 AI for good - The governments vision and what Vinnova is doing within the area
  Daniel Rencrantz
- 14.00 – 14.45 AI for good - Discussion about AI for good
  Annie Lindmark & Joakim Skog
- **14.45 – 15.15 Coffee**
- 15.15 - 16.15 How can we help strengthen Sweden’s innovation capacity?
  Glenn Gran & David Renemark
- 16.20 - 16.30 Wrap up from innovation pioneers
  Susanne Fuglsang

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Vinnova mission & vision

Ylva Strander

Head of Department
Vinnova

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Q

HOW DO YOU KNOW VINNOVA?

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Sweden - A country of transformation

Photo: Anna Sigge/Smart Textiles/imagebank.sweden.se

A top nation for innovation

European Innovation Scoreboard

Global Innovation Index

SDG Index

VINNOVA

Photo: Simon Paulin/imagebank.sweden.se

Source: Stockholm Resilience Center

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The worlds first fossil free welfare nation requires system innovation

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It’s time for a change

Photo: Melker Dahlstrand/imagebank.sweden.se

Vinnova is tasked with promoting sustainable growth by funding needs-driven research and development of effective innovation systems.

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Three roles

FINANCIER

NATIONAL EU NODE

EXPERT AGENCY

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Vinnova- organization

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Q

EXPERIENCE OF VINNOVA FINANCING?

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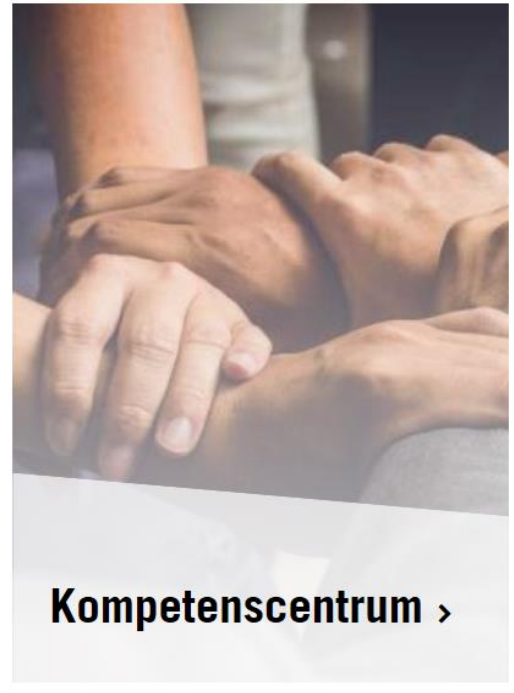
Forskning om fordon - FFI ›

Strategiska innovationsprogrammen: samarbete för hållbar innovation ›

Utmaningsdriven innovation ›

Vinnväxt skapar innovation i regioner ›



Kompetenscentrum ›

In Sweden, smart policy development is paving the way for a sustainable future
Opinion: Sweden's innovation agency is creating policy labs with other departments

Bildelning blir enklare efter smart policyarbete >

Skatteverket utvecklar nya regler för delningsekonomin >

Naturvårdsverket tog fram smartare styrmedel med positiva effekter >

Livsmedelsverket skapar nya regelverk som fungerar för rennäringen >

Transportstyrelsen banar väg för självkörande fordon >

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Gästspel i organisationer ska innovatio

Publicerad: 29 november 2(

Snabba arbetsmetod(
programmerare som
i en ny Vinnova-satsn
värdorganisationen ol

Nya digitala hjälpm människors funktio

Publicerad: 15 november 2019

Vinnova har beslutat att finansiera 12 nya ir
som kan öka människors funktionsförmåga c

PRESSMEDDELANDE

Ny satsning på visionsdrivna innovationsmiljöer inom hälso

Digitala tjänster ska stärka förtroende mellan medborgare och det offentliga

Publicerad: 25 oktober 2019

äldre,

det mellan
som fördjupar

En bil a

PRESSMEDDELANDE

93 startup-bolag får dela på 28 miljoner

Publicerad: 24 oktober 2019

Nu får 93 startup-bolag med innovativa affärsidéer dela på 28 miljoner från Vinnova. Bolagen får finansiering för att vidareutveckla nya lösningar som kan bidra till hållbar utveckling och stärkt konkurrenskraft.

Bolagen får ett bidrag på upp till 300 000 kronor för att till exempel ta fram prototyper eller utveckla sin affärsmodell.

From local to global

Andreas Aurelius

Head of Department
Vinnova

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From local to global – Vinnova in a global context

EMMA BÄCKE, INTERNATIONAL COOPERATION

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Sveriges innovationsmyndighet

The Global Competitiveness Report 2016 - 2017

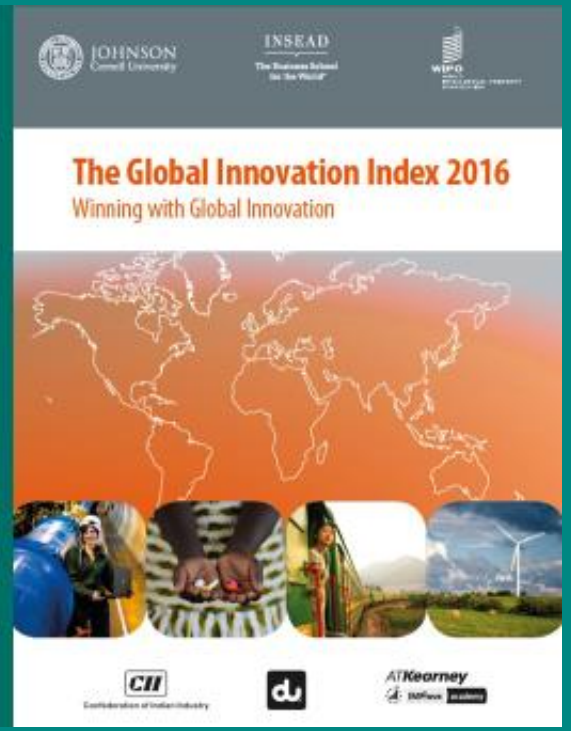
1. Switzerland
2. Singapore
3. United States
4. Netherlands
5. Germany
6. **Sweden**
7. United Kingdom
8. Japan
9. Hong Kong SAR
10. Finland

The European Innovation Scoreboard 2016

1. **Sweden**
2. Denmark
3. Finland
4. Germany
5. Netherlands
6. Ireland
7. Belgium
8. Great Britain
9. Luxemburg
10. Austria

The Global Innovation Index 2016

1. Switzerland
2. **Sweden**



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EU and International Cooperation

Vinnova supports the development of international networks for Swedish innovation stakeholders.

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Vinnova offices

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Ongoing International Collaborations

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Invest in research and innovation

National EU-node

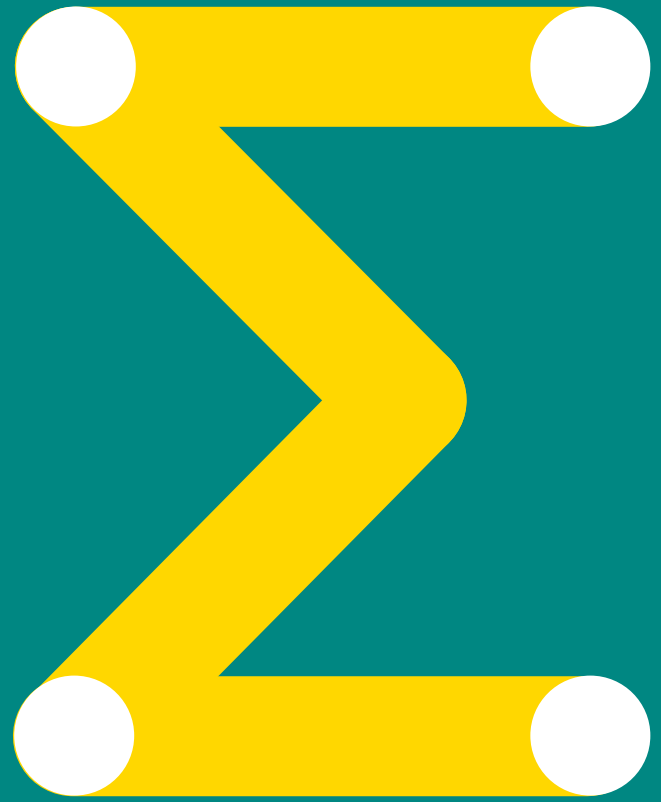
Expert Agency

Full members
Associated countries

EUREKA is…

Leading **platform** for international cooperation

Intergovernmental **network**



Supporting **market-oriented R&D** projects

Facilitating **access to finance**

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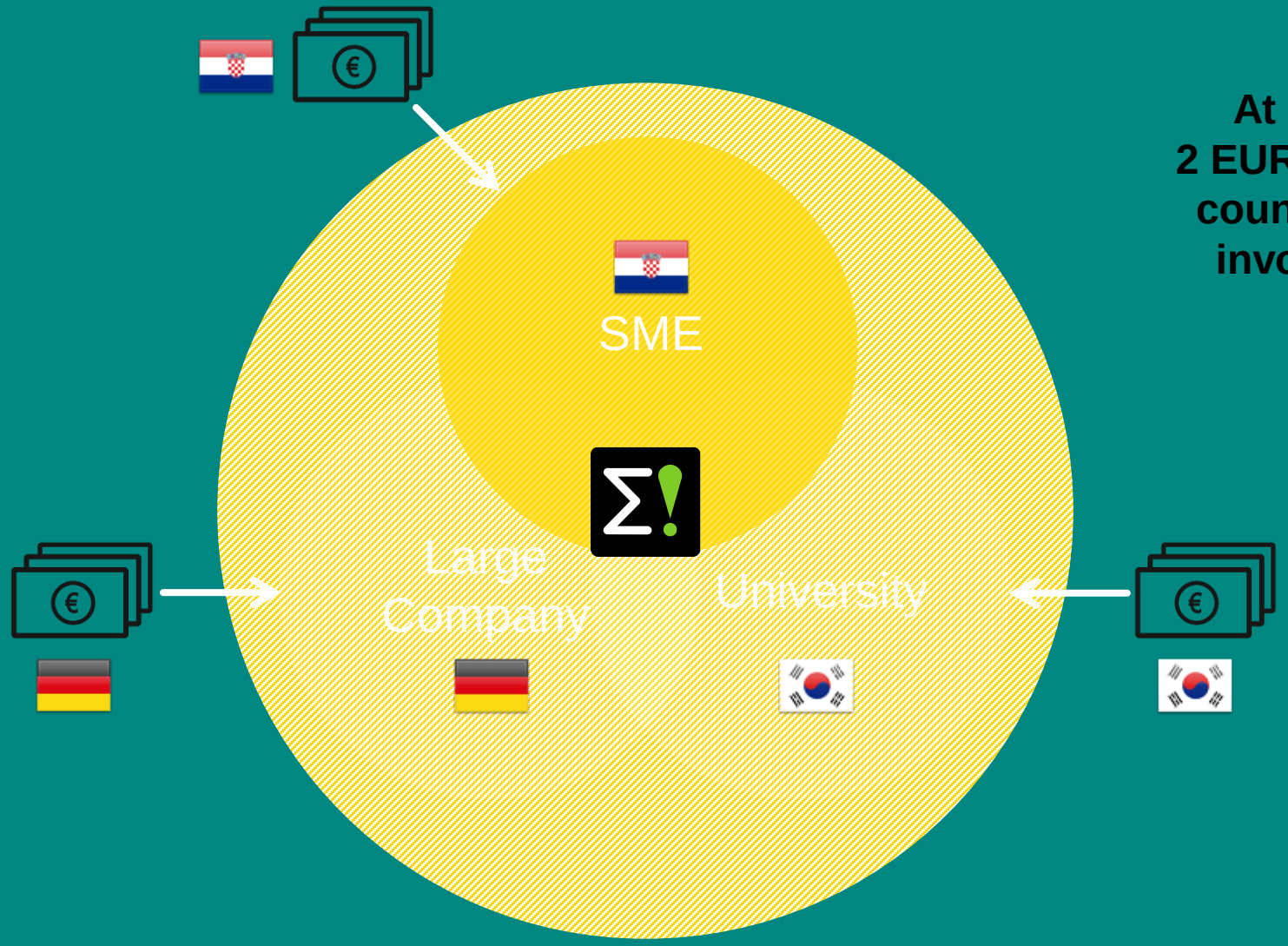
Public-private partnership



At least 2 EUREKA countries involved

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French-Swedish partnership

Declaration between France and Sweden on cooperation in European affairs and updating the French-Swedish partnership for innovation and green solutions

Europe is at a crucial point in time. Multilateralism and the European security order are being tested, basic European values questioned and our planet is facing major threats of climate change. At the same time, European cooperation has never been more needed and support for the European Union is increasing in Europe. The governments of France and Sweden are firm believers in the European Union and agree that many of today's challenges and opportunities are best faced together.

Sweden and France have today taken a new step to further increase our bilateral cooperation, at national level, within the European Union and globally.

In November 2017, France and Sweden entered into a bilateral partnership to spur innovation and green solutions. Today, significant steps are being taken to deepen and advance our bilateral cooperation with an updated partnership. It aims to develop closer ties on sustainable city development, green mobility solutions, world-leading research infrastructures, sustainable digital transformation and artificial intelligence, green financing and space innovation. The partnership will also foster cooperation on life science and health care and encourage innovative solutions through small- and medium-sized companies.

Sweden and France consider social dialogue to be a key driver for inclusive competitiveness and innovation, where initiatives such as the Global Deal and the Paris Peace Forum are important examples. We will always stand up for democratic and open societies and we will fight all types of discrimination. We remain deeply concerned about the rise of antisemitism in Europe and beyond, which we consider a threat to our democratic societies. France and Sweden are committed to working together in the preparation of the Malmö International Forum on Remembrance of the Holocaust and Combating Antisemitism.

With a view to the next Strategic Agenda for the European Union, France and Sweden are committed to delivering on our citizens' needs and expectations. We will strive for a Union that defends democracy and the rule of law. A Europe that shows solidarity in times of need, decisiveness in times of challenge, optimism in times of change and above all, a clear vision for the future of the EU. We want the EU to be a leader in climate transition, to foster a

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1.Smart sustainable cities

2.Green mobility solutions (batteries and electric roads)

3.World-leading research facilities

4.Sustainable digital transformation and AI (5G, life science and smart mobility)

5.Green finance

6.Space as an enabler of innovation and sustainable development

7.Optimal health outcomes

8.Innovative solitions through SMEs

9.Sustainable mobility and energy

10.Collaborative decision-making processes at all levels of governance

11.Inclusive and social economy innovation

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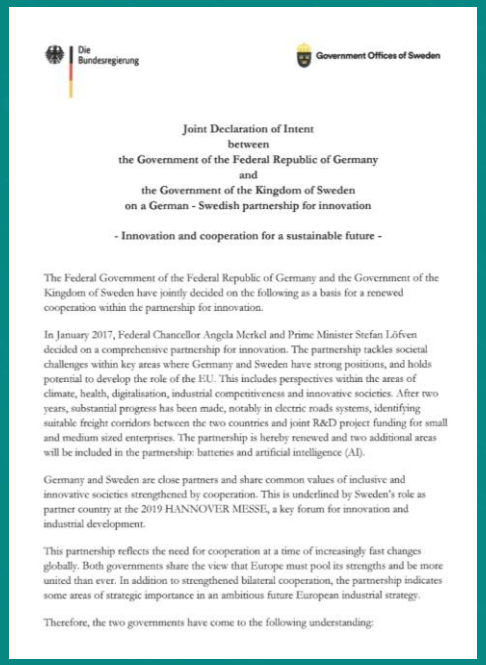
German-Swedish partnership



Die Bundesregierung

Government Offices of Sweden

Joint Declaration of Intent
between
the Government of the Federal Republic of Germany
and
the Government of the Kingdom of Sweden
on a German - Swedish partnership for innovation

- Innovation and cooperation for a sustainable future -

The Federal Government of the Federal Republic of Germany and the Government of the Kingdom of Sweden have jointly decided on the following as a basis for a renewed cooperation within the partnership for innovation.

In January 2017, Federal Chancellor Angela Merkel and Prime Minister Stefan Löfven decided on a comprehensive partnership for innovation. The partnership tackles societal challenges within key areas where Germany and Sweden have strong positions, and holds potential to develop the role of the EU. This includes perspectives within the areas of climate, health, digitalisation, industrial competitiveness and innovative societies. After two years, substantial progress has been made, notably in electric roads systems, identifying suitable freight corridors between the two countries and joint R&D project funding for small and medium sized enterprises. The partnership is hereby renewed and two additional areas will be included in the partnership: batteries and artificial intelligence (AI).

Germany and Sweden are close partners and share common values of inclusive and innovative societies strengthened by cooperation. This is underlined by Sweden's role as partner country at the 2019 HANNOVER MESSE, a key forum for innovation and industrial development.

This partnership reflects the need for cooperation at a time of increasingly fast changes globally. Both governments share the view that Europe must pool its strengths and be more united than ever. In addition to strengthened bilateral cooperation, the partnership indicates some areas of strategic importance in an ambitious future European industrial strategy.

Therefore, the two governments have come to the following understanding:

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Background to the Call-for-Proposals

Innovation and cooperation for a sustainable future
A German & Swedish partnership for innovation
(31 January 2017)

"The German & Swedish partnership for innovation is an important step for bilateral cooperation between our countries. It brings together governments, businesses and institutions, and paves the way for deepened future cooperation"

Photo: Henrik Montgomery, TT

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SWEDEN-INDIA
INNOVATION PARTNERSHIP

- The Governments of Sweden and India have agreed to deepen the collaboration in the field of innovation through a strategic innovation partnership, signed April 17, 2018
- Several thematic and cross-cutting fields are included
- Vinnova has been assigned by Swedish Government to operationalise a significant part of the partnership – ”Smart Cities”
  - Joint activities will start from 2019

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Differences in funding mechanisms may affect the acitivites supported in Sweden and in India

INDIA

- Funding through ”Royalty Based Conditional Grant”
  - A sort of convertible ”loan”
- Good possibilities for the results to reach market, chance to pay back if successful
- ”Technology Readiness Level”
  - TRL ~6-8
- Closer-to-market activities allowed on the Indian side

SWEDEN

- Funding through grants, no requirements for return
- EU state aid rules (GBER art 25)
  - Industrial Research
  - Experimental Development
- ”Technology Readiness Level”
  - Up to TRL ~6 (experimental dev.)
- Swedish partners must ensure that financing of R&D activities beyond ”Experimental Development” are covered from other sources (internal, other funding mechanisms, etc.)

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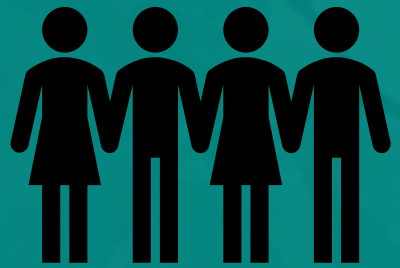
An example of local going global

Challenge driven innovation going global

Challenge in focus

Innovation with System perspective



Cross collaboration

Long-term funding in three steps

To contribute to the SDG's

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Mission Possible

Andrea Råsberg
Tobias Öhman

Missions team
Vinnova

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Sweden's Innovation Agency

STREJK
R
ATET

Sweden
better

We must innovate how we innovate.

We are prototyping mission-oriented innovation practices, working with many others. We are placing a strong emphasis on learning through doing.

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Mission-oriented innovation

Missions are bold, inspirational, with wide societal relevance. They indicate a clear direction, ideally targeted and measurable, with ambitious innovation actions.

They are delivered through multiple top-down and bottom-up solutions, and co-created via cross-disciplinary, cross-sectoral and multi-level relationships and activities.

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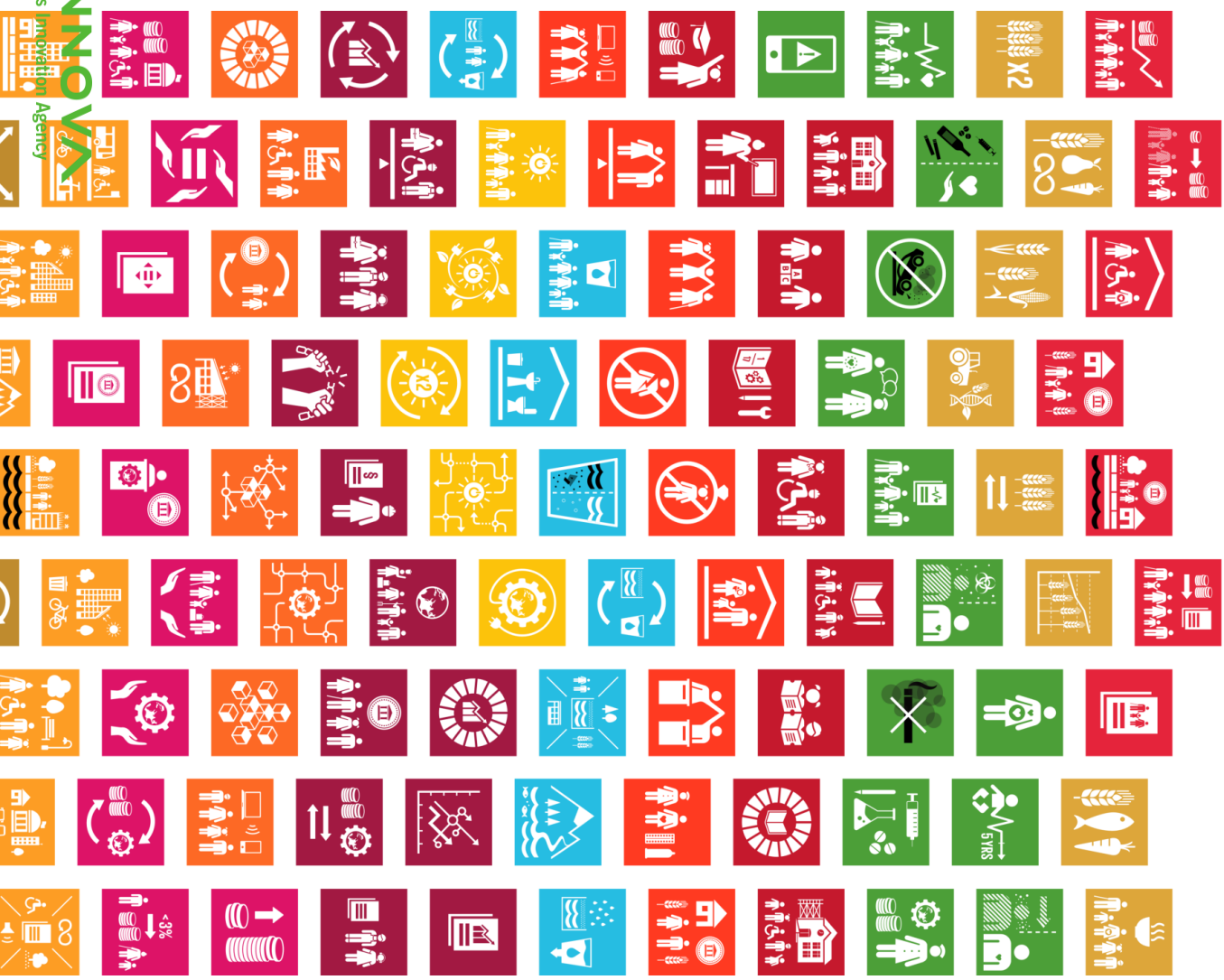

Targets Action

Missions
Example

Apollo missions (1961–73)
"Land a man on the Moon by the end of this decade and return him safely to the Earth."

Missions

Example

Miljonprogrammen (1965) One million affordable new dwellings by 1974.

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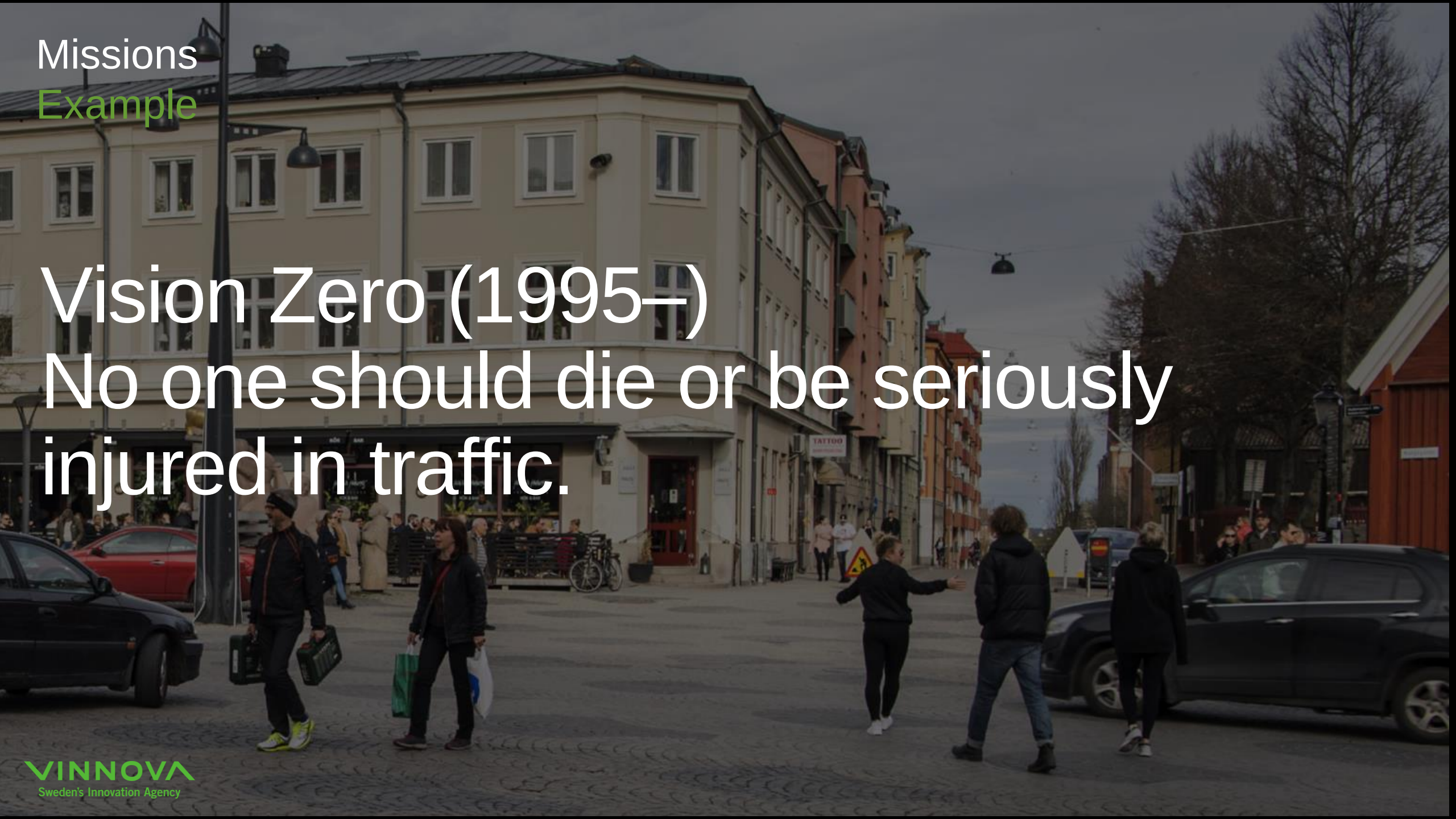
Missions

Example

Vision Zero (1995–)

No one should die or be seriously injured in traffic.



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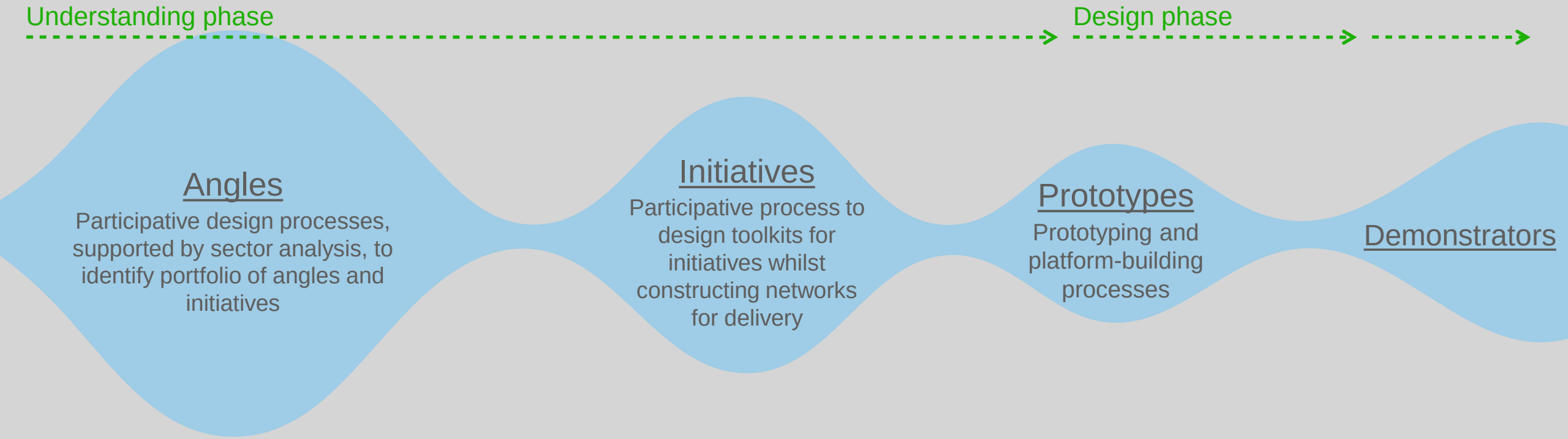
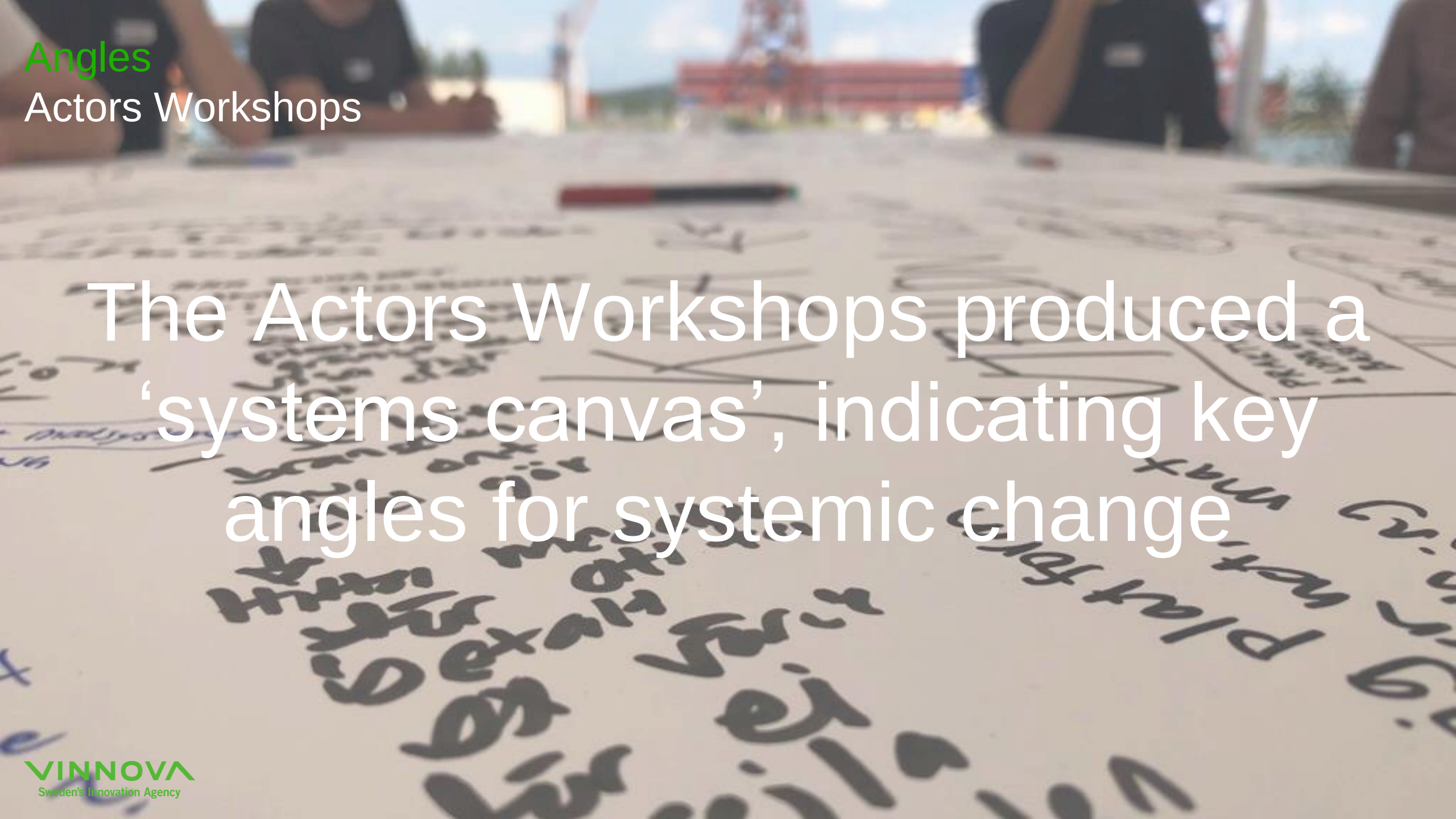
Actors Workshops

Over May and June, we engaged over 75 diverse organisations in various exercises to define new forms of systemic intervention in healthy sustainable mobility and healthy sustainable food.

Overall design process





The Actors Workshops produced a ‘systems canvas’, indicating key angles for systemic change

Actors Workshops

Systems Canvas

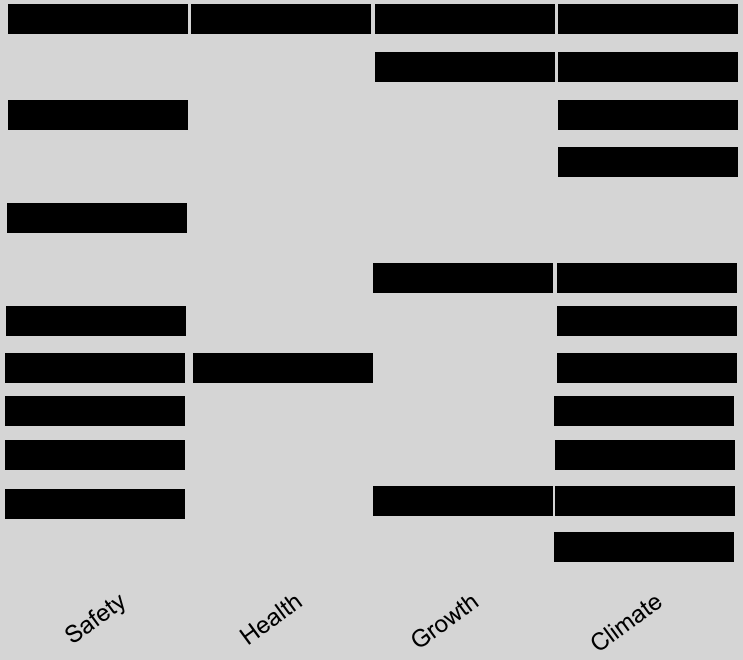
The process is noisy and involves far more open-ended and contentious meetings than traditional production cycles—and far more dialogue between people versed in different disciplines, with all the translation difficulties that creates

Desktop analysis

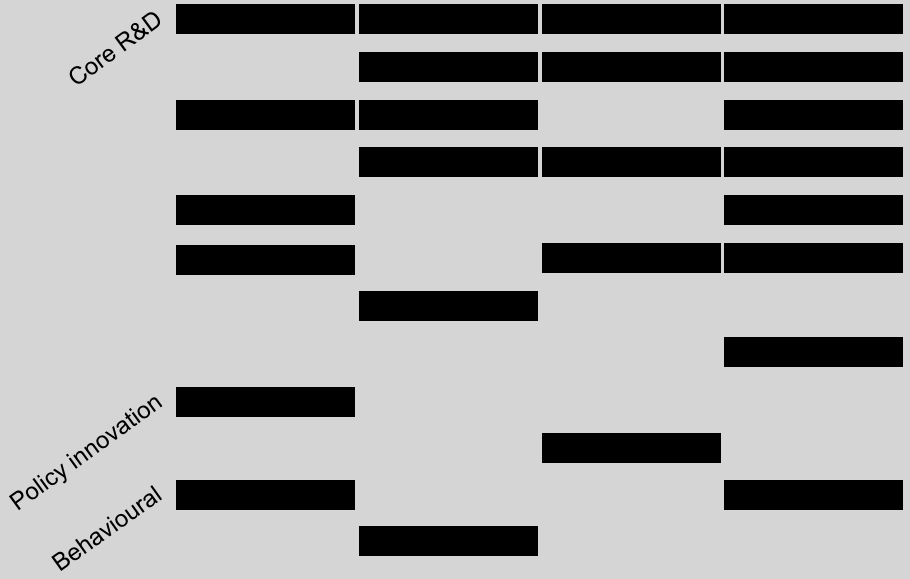
Insights from strategies and roadmaps

1 / National/municipal ‘airgap’

2 / Research and innovation in ‘silos’



3 / Bias away from implementation



Design Workshop

In October, the second wave of actor workshops, featuring 30+ organisations, start developing initiatives via a design-led process.

And in this case, with various system actors co-designing the School Food initiative

Ensure every street in Sweden is healthy, sustainable and vibrant by 2030.

Ensure every student in Sweden eats healthy, sustainable and tasty school food by 2025.

Now it’s your turn!

Workshop goal

Co-design integrated initiatives which can steer complex systems towards societal outcomes.

Or

Work across silos for shared outcomes.

Or

Six months in ninety minutes.

Introductions (5 min)

Create a mission (15 min)

Design interventions (30 min)

Assess outcomes (15 min)

Reflection (10 min)

Introductions (5 min)

- Namn och organisation
- Dela med dig av din senaste kontakt med bordets tema

Create a mission (15 min)

- Läs igenom exempelformuleringen på ett mission och titta på de globala, nationella och regionala målen
- Skapa bordets egna mission

Design interventions (30 min)

- Läs starten på historien … och fortsätt berättelsen
- Beskriv ett händelseförlopp i en värld som styr mot ert mission.
- Använd personkorten om ni vill.
- Komplettera berättelsen genom att rita på kartan

Assess outcomes (15 min)

- Markera de nyttor som uppstår till följd av er berättelse på kartan
- Använd nyttoplupparna
- De tomma plupparna kan ni själva fylla med innehåll (skriv bredvid)

Reflection (10 min)

- Reflektera runt bordet kring övningen
- Var det något nytt som kom fram som berörde er?

AI for good

Daniel Rencrantz

Head of Department
Vinnova

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Context

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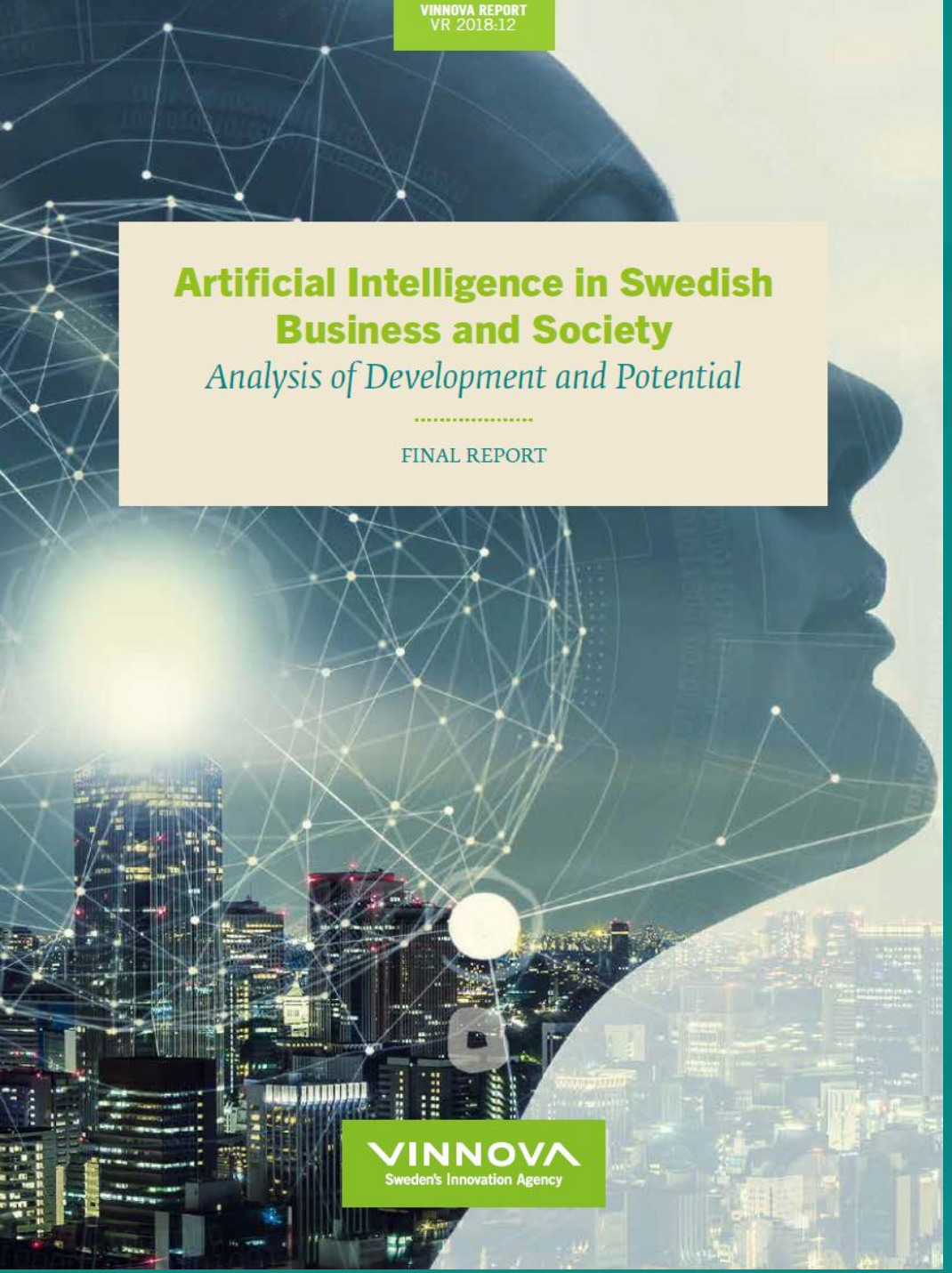

Sweden's AI capability

- Digitalisation in society
- Competence base
- AI-patent
- Industry
- AI-related research
- Research priorities
- Supplementary education in AI
- Public sector

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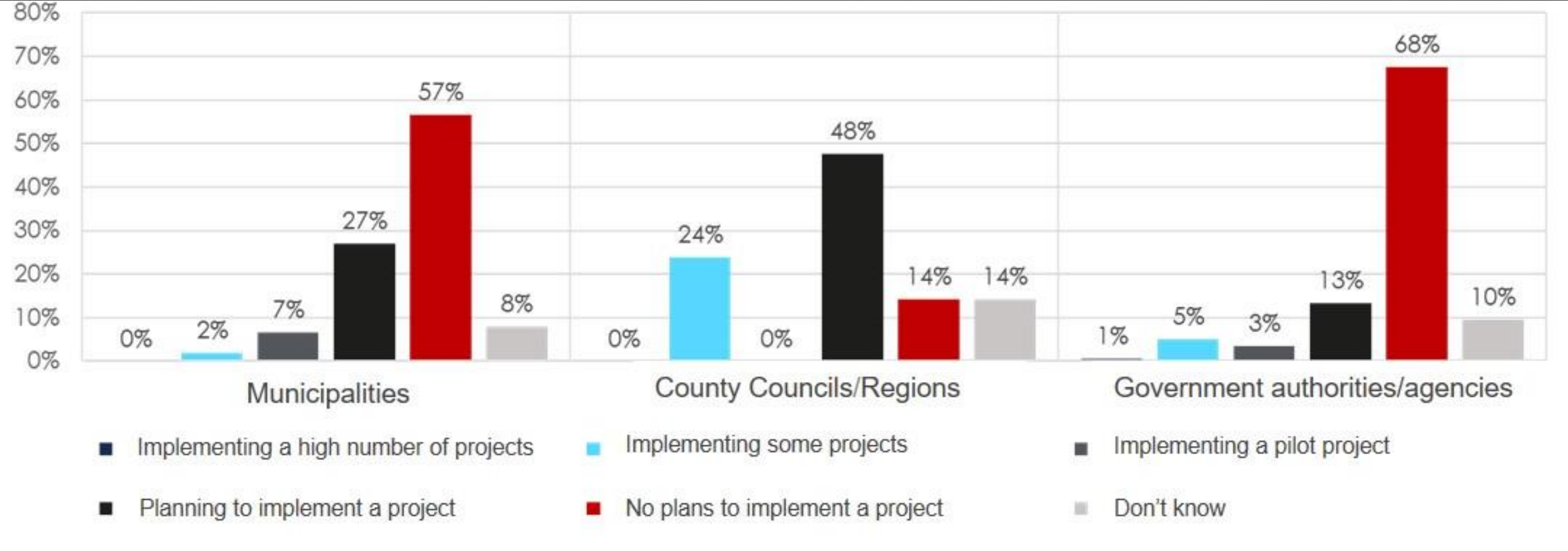
Source: conclusions from Vinnova's report "Artifical intelligence in Swedish business and society" in 2018

The public sector



Graph illustrates ongoing/planned AI projects
Source: Governo

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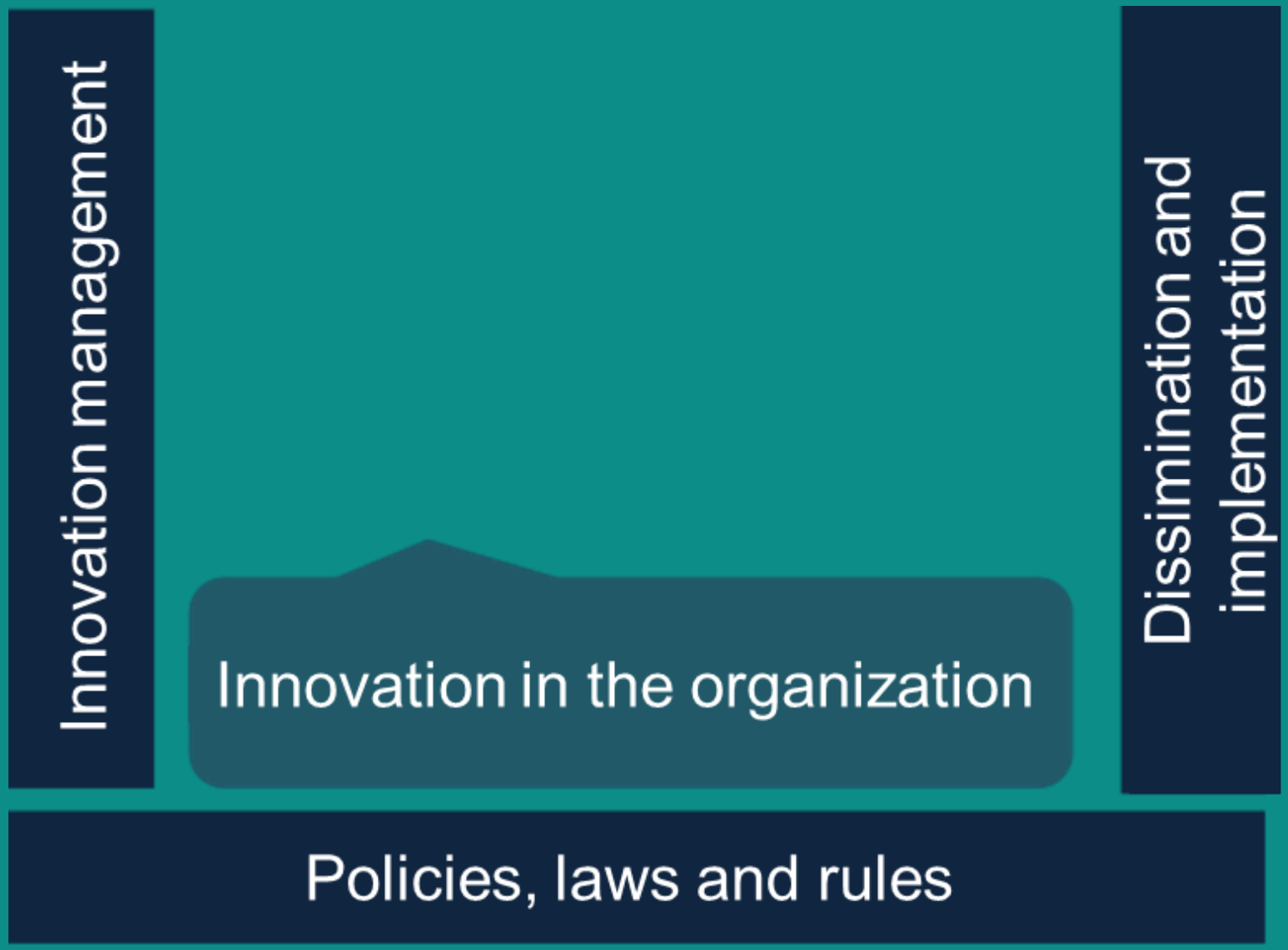
AI-roles for the public sector



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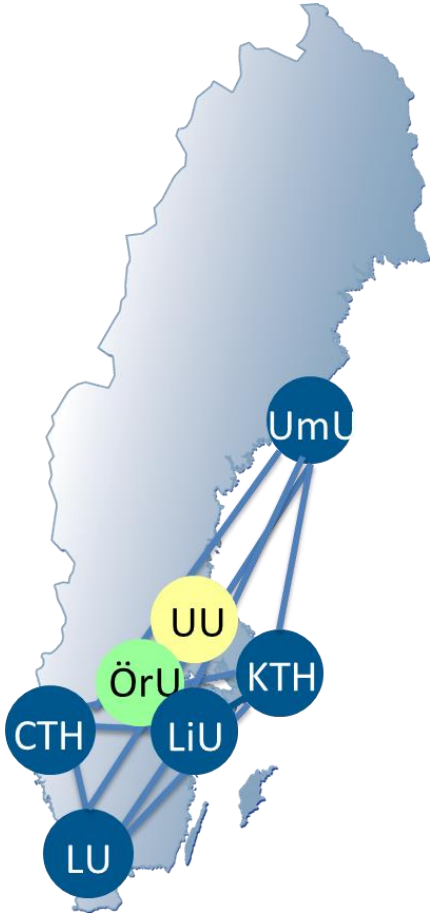
AI Competence and Research in Sweden



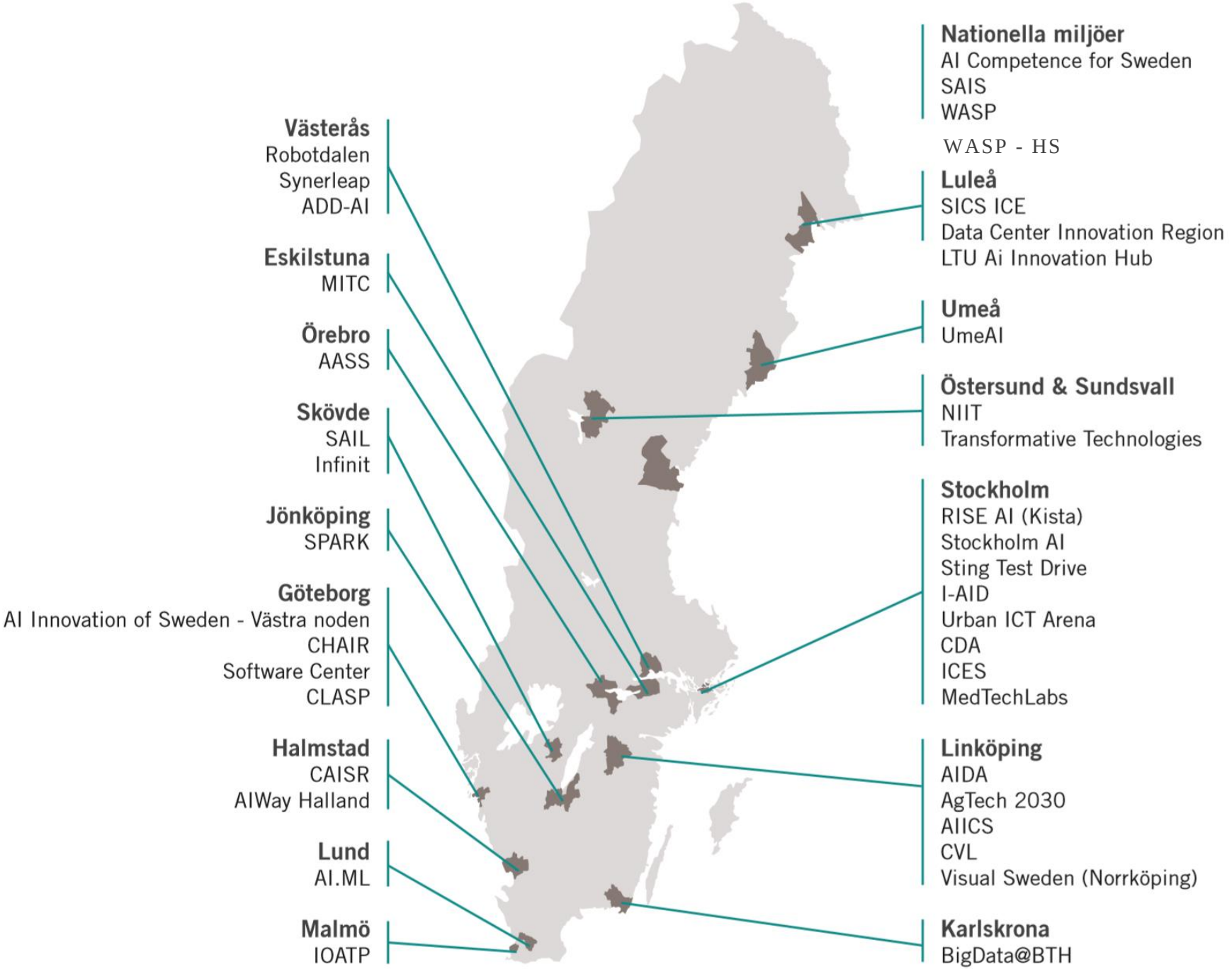
AI Competence of Sweden

WASP | WALLENBERG AI, AUTONOMOUS SYSTEMS AND SOFTWARE PROGRAM

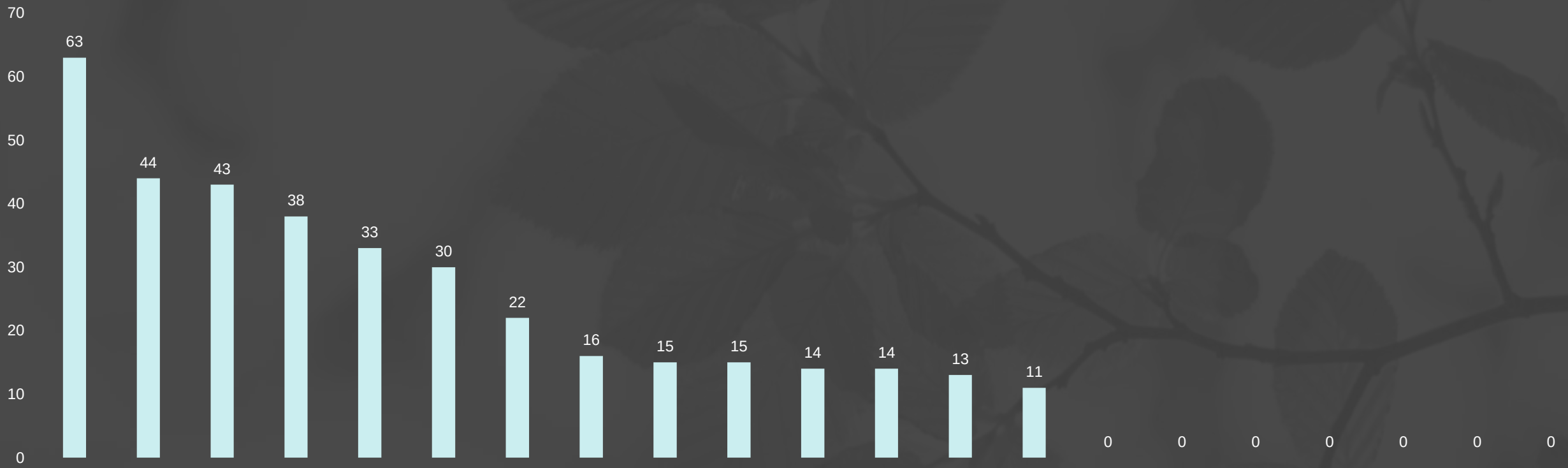
CHALMERS UNIVERSITY OF TECHNOLOGY · KTH VETENSKAP OCH KONST · LINKÖPINGS UNIVERSITET · LUNDS UNIVERSITET · UMEÅ UNIVERSITET · UPPSALA UNIVERSITET · ÖREBRO UNIVERSITY

Elements of AI

AI-milieus


Nationella miljöer
AI Competence for Sweden
SAIS
WASP
WASP - HS
Luleå
SICS ICE
Data Center Innovation Region
LTU Ai Innovation Hub
Umeå
UmeAI
Östersund & Sundsvall
NIIT
Transformative Technologies
Stockholm
RISE AI (Kista)
Stockholm AI
Sting Test Drive
I-AID
Urban ICT Arena
CDA
ICES
MedTechLabs
Linköping
AIDA
AgTech 2030
AIICS
CVL
Visual Sweden (Norrköping)
Karlskrona
BigData@BTH
Västerås
Robotdalen
Synerleap
ADD-AI
Eskilstuna
MITC
Örebro
AASS
Skövde
SAIL
Infinit
Jönköping
SPARK
Göteborg
AI Innovation of Sweden - Västra noden
CHAIR
Software Center
CLASP
Halmstad
CAISR
AIWay Halland
Lund
AI.ML
Malmö
IOATP

No of women in management group (%)



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Where is the innovation potential?

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GLOBALA MÅLEN
för hållbar utveckling

Direction?

– how to reach change at the system level

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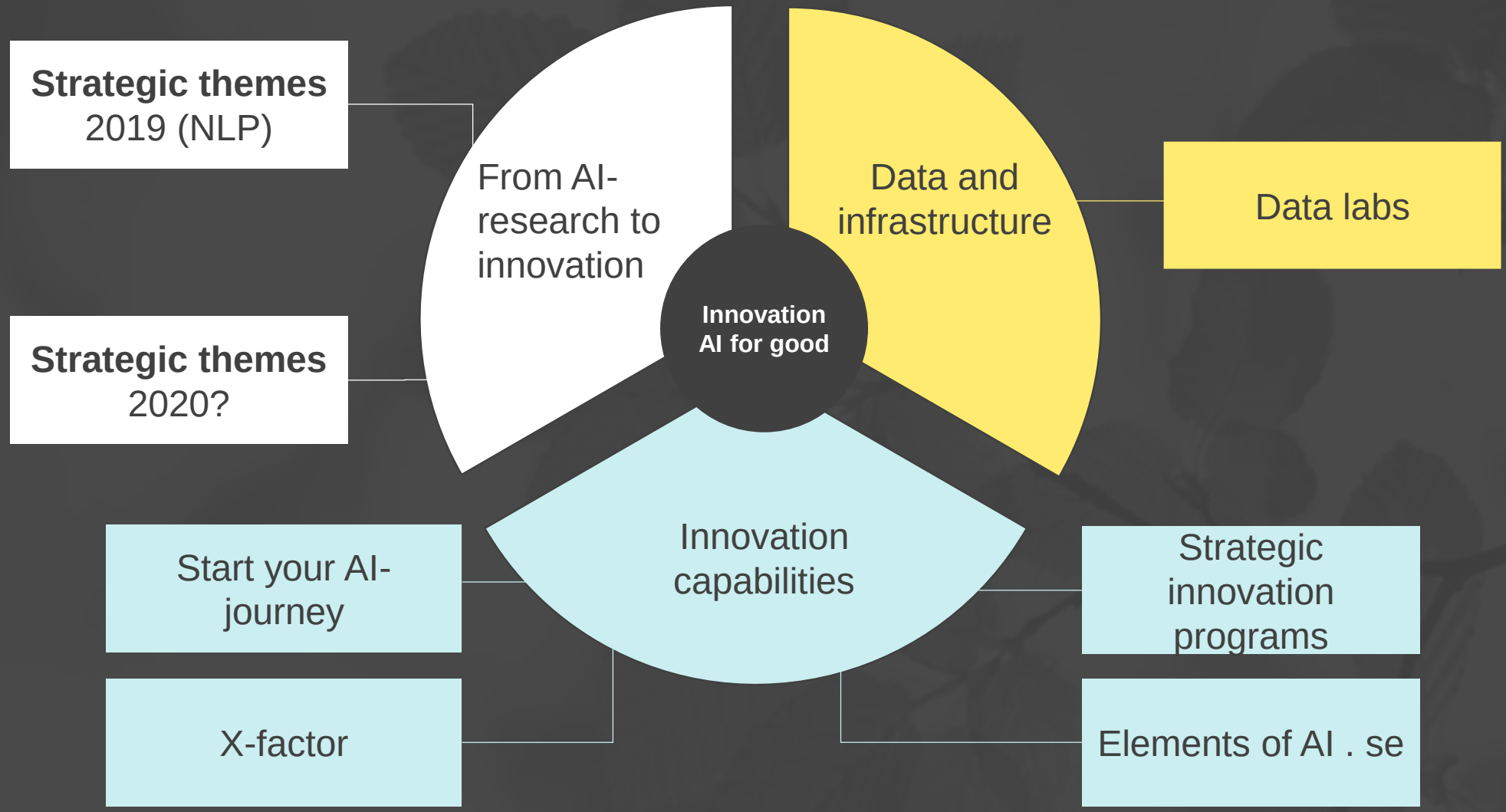
Strategic themes
2019 (NLP)
Strategic themes
2020?
From AI-research to innovation
Data and infrastructure
Data labs
Innovation
AI for good
Innovation capabilities
Start your AI-journey
X-factor
Strategic innovation programs
Elements of AI . se

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How we strengthen the Swedish AI eco-system

AI INNOVATION of Sweden

Vision

Sweden is a leading nation in the holistic application of AI solutions in industry and society, and internationally recognized from an innovation, ethical and security perspective.

Partners

- Lifelong Learning
- Corporate
- Public funding
- Core technology partner
- Public organizations
- SMEs & Startups
- Academia & Research Institutes
- Medium sized companies & Consulting

AI INNOVATION of Sweden

Partners

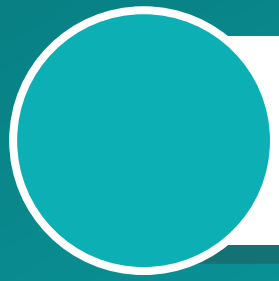
AI INNOVATION of Sweden

Accelerate through horizontal resources

Knowledge

Thought leadership, network, seminars, education

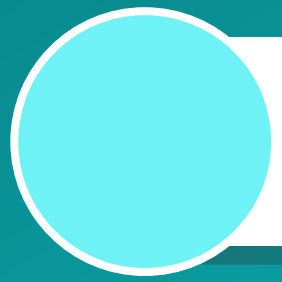
- Competence for excellence
- Best practices
- General knowledge



Data Factory

Accessible data & infrastructures

- Basic infrastructure
- Partner data and dedicated data sets



Collaboration

Project management and regional co-locations

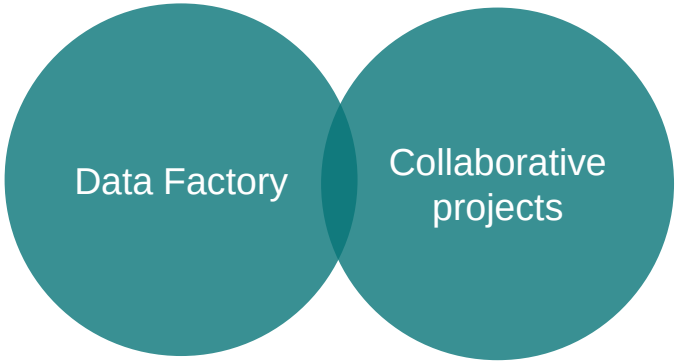
- Active facilitation of collaboration on project basis
- Access to funding
- Co-location of researchers and teams

Accelerate through horizontal resources

National resources

Data Factory
Project management
Ethics & legal expertise
Internatinoal relationships

Thought leadership
Founding fellows
Communication
Educational programs



Regional nodes

Gothenburg
National responsibility
Regional resources

Co-location
Activities

Greater Stockholm
National responsibility
Regional resources

Skåne
National responsibility
Regional resources

Norr
National responsibility
Regional resources

Örebro
Jönköping
Linköping

AI INNOVATION of Sweden

Our shift in focus

Collect

Store

Publish (api)

Learning, decision, service

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Important barriers (examples)

Rules and regulations (in general and GPDR in specific)

- Data that cotains personal data is hard to share, in particular after processing byg partners in collaboration (e.g. contracts, accountability and responsibility distribution when sharing data)
- Format, standards and API:s

Storage capacity

- Datasets are generally large (e.g. Zenuity 500 TB) resulting in costly storage and management

Computational capacity

- Active research and innovation accelerates in a dramatic fashion when actors can access relevant infrastructure. Albeit needs are still unclear.

Competence

- Numerous competencies required for effective development, e.g. annotation. Few organizations have the needed competencies inhouse.

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#1 Challenges/Missions

Base data #2

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Base data

- Geospatial data, e.g. maps and postcodes
- Earth observation and environment
- Meteorological
- Statistics
- Company and ownership
- Mobility

Challenges/Missions

Anti-corruption and public sector

Healthy and climate-neutral mobility

Healthy and climate-neutral food

Healthy and climate-neutral buildings

Precision health for all

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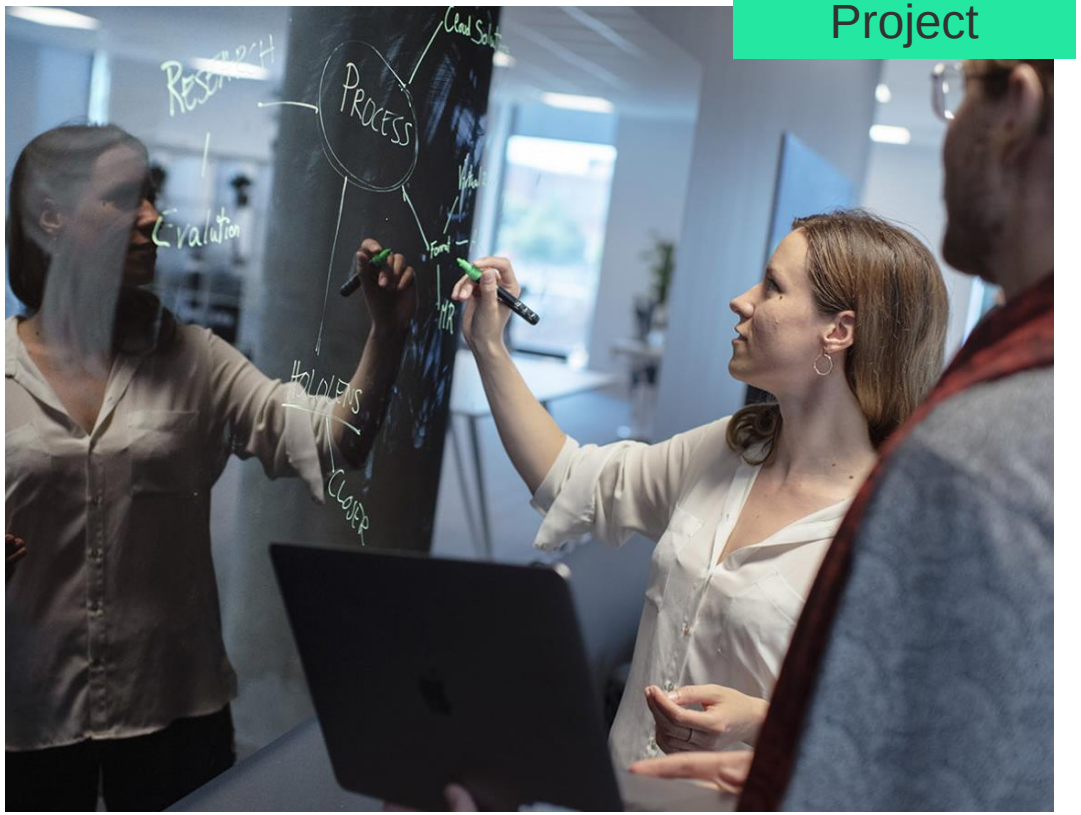
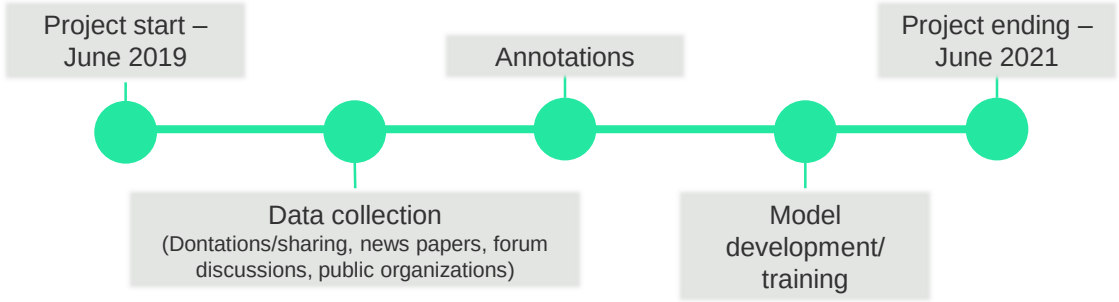
Swedish Language Data Lab

Project

- Provide access to annotated, classified Swedish text data, and fully trained models in our Data Factory
- Establish a national knowledge node within Natural Language Processing (NLP) Develop Swedish reference datasets and models for NLP
- Data collection (donations/sharing – news papers, forum discussions, public organizations) – annotation – models





Recorded Future

Sveriges Kommuner och Landsting

Gavagai

UNIVERSITY OF GOTHENBURG

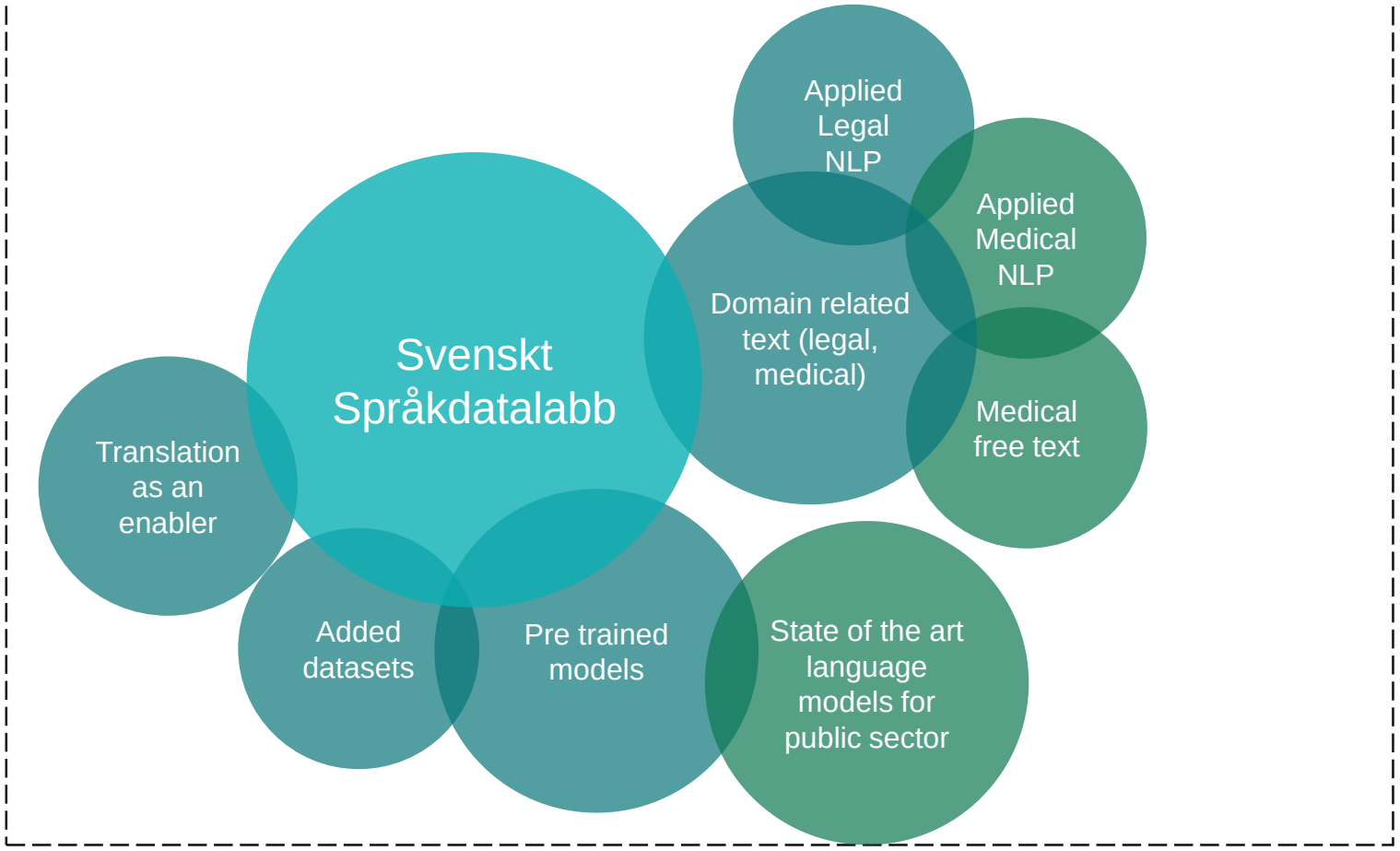
Talkamatic
NEXT GENERATION OF CONVERSATION

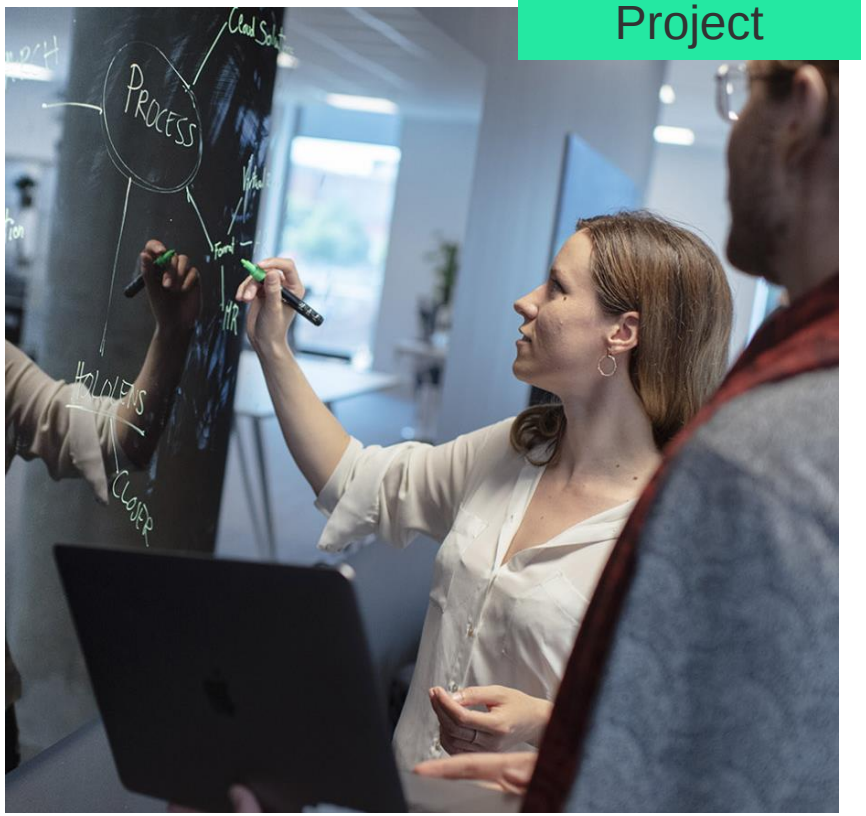
AI INNOVATION of Sweden

Swedish Language Data Lab

Project

Road Map

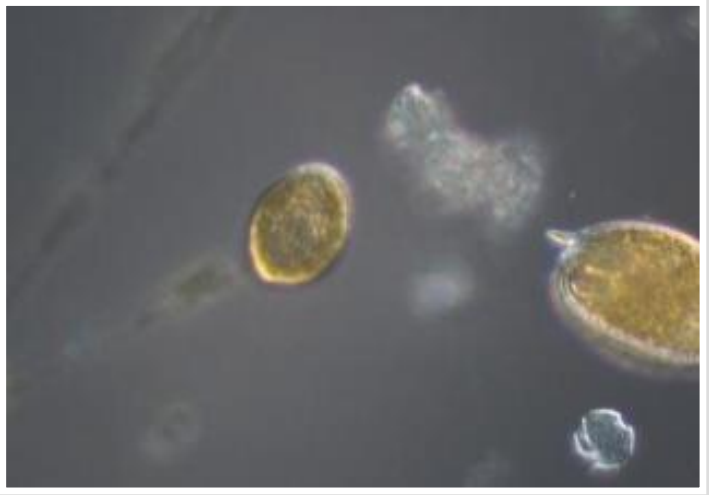




AI INNOVATION of Sweden

OCEAN DATA FACTORY

”make Sweden a global enabler for sustainability and innovation in the digital blue economy”



2019

- A Sustainable Use Case
  - Focus on 2 Invasive Species
  - Use Open Data (physical, biological, shipping)
  - AI to Help Preventing Spread
- Getting Settled
  - Establishing Work Flows
- Hackathon
  - Open Sea Lab (Belgium; EMODnet)
  - 'Sillgrisslor' (Göteborg; AI Innovation of Sweden)

In sum

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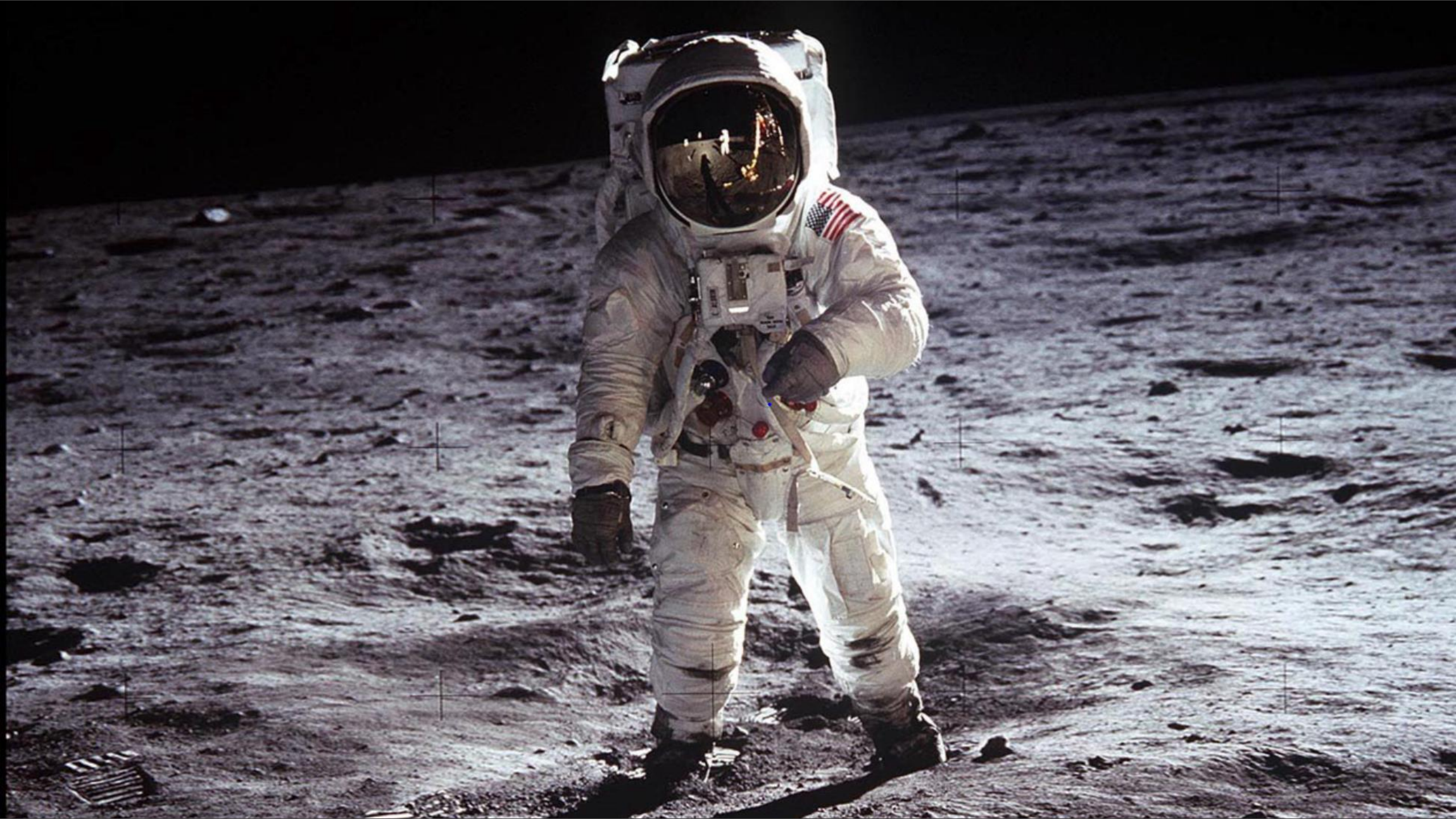

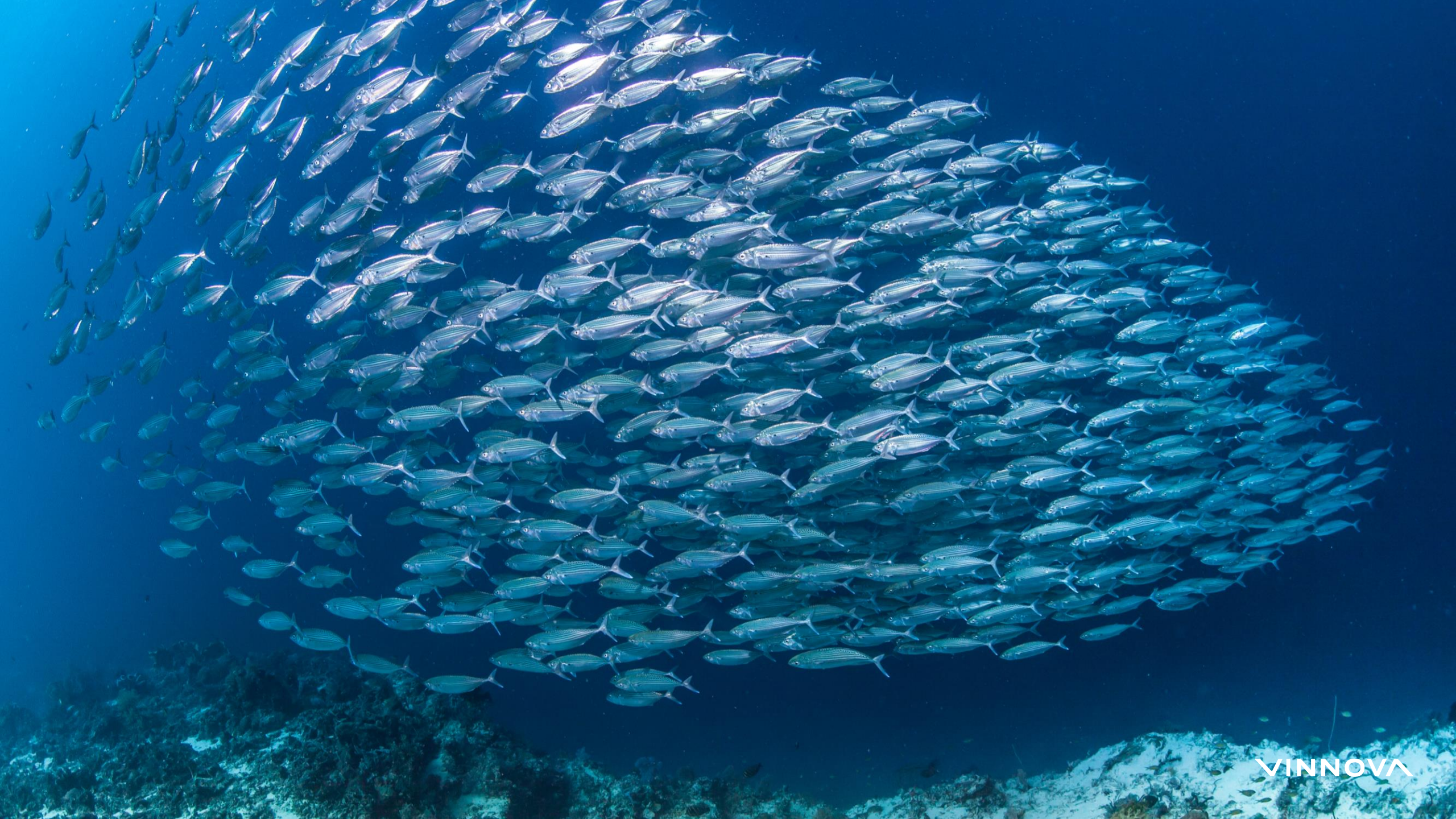
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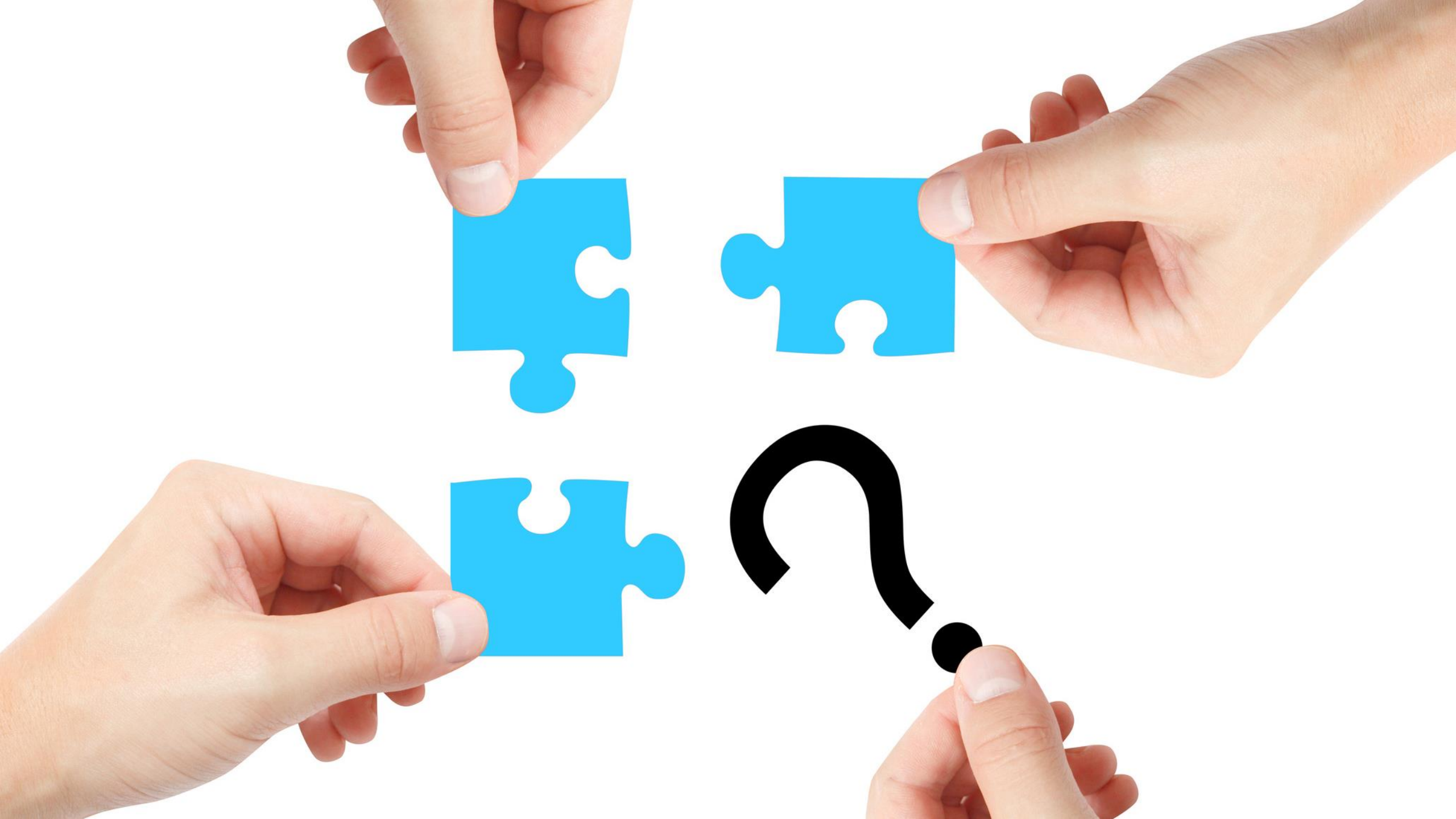

Innovation Pioneers

TANK MEETING NR. 48 - 4/12

How can we strengthen Sweden's innovation capacity ?

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AI for good

Annie Lindmark
Joakim Skog

Open Innovation
Vinnova

VINNOVA

Open Innovation

Data labs

Innovation challenges

Makers

Hack 4 Sweden

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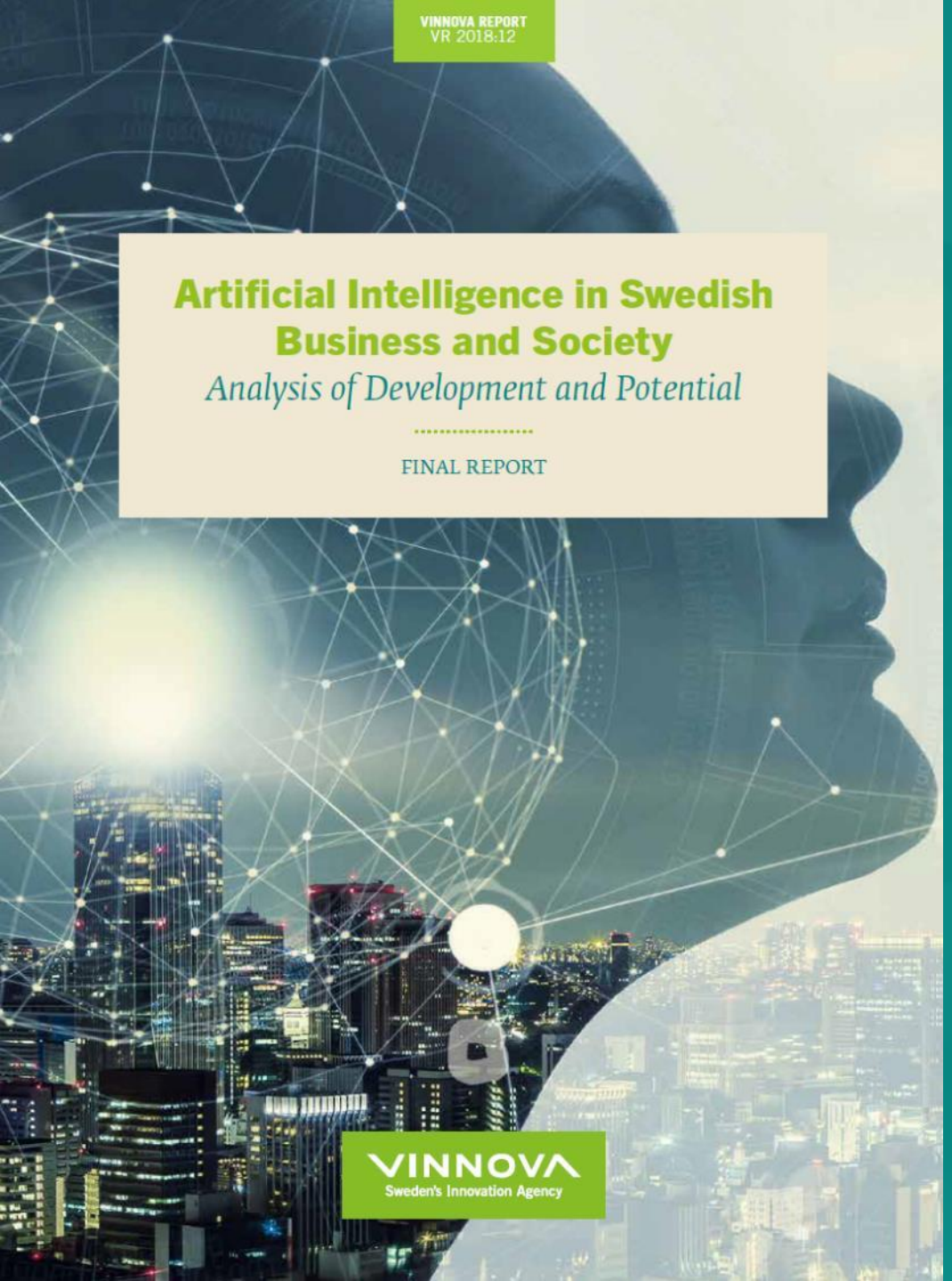

Sweden's AI capability

- Digitalisation in society
- Competence base
- AI-patent
- Industry
- AI-related research
- Research priorities
- Supplementary education in AI
- Public sector

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Source: conclusions from Vinnova's report "Artifical intelligence in Swedish business and society"

DISKUSSIONSFRÅGA

What are your challenges when it comes to AI?

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Finding solutions to societal challenges in all areas

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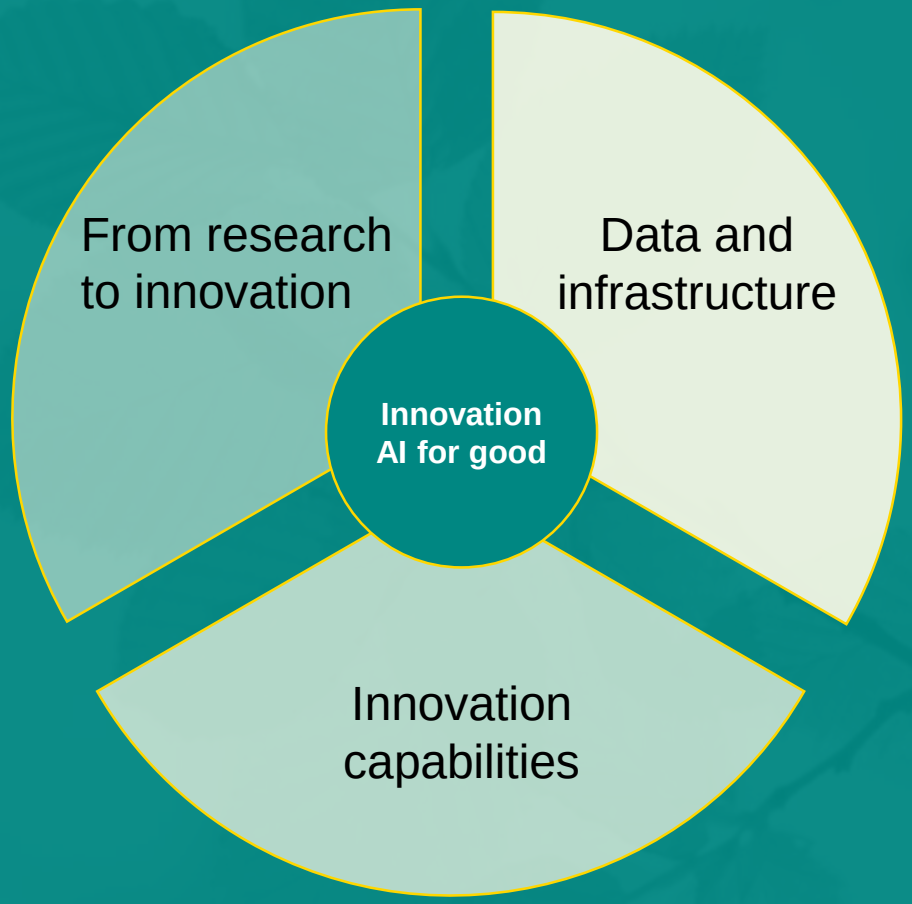
Sweden should be a international leader in taking advantage of the opportunities of using AI can give, with the purpose of strengthening both the Swedish welfare and the Swedish competitiveness

MAY 2018

Three parts



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DISKUSSIONSFRÅGA

What can Sweden do to take the leading role in the development of AI for good?

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COFFEE BREAK

BACK KL15.15 I NOBEL

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Quest of today

Glenn Gran
David Renemark

Innovation Management
Vinnova

VINNOVA

Quest of the day:

How can we strengthen Sweden’s innovation capacity?

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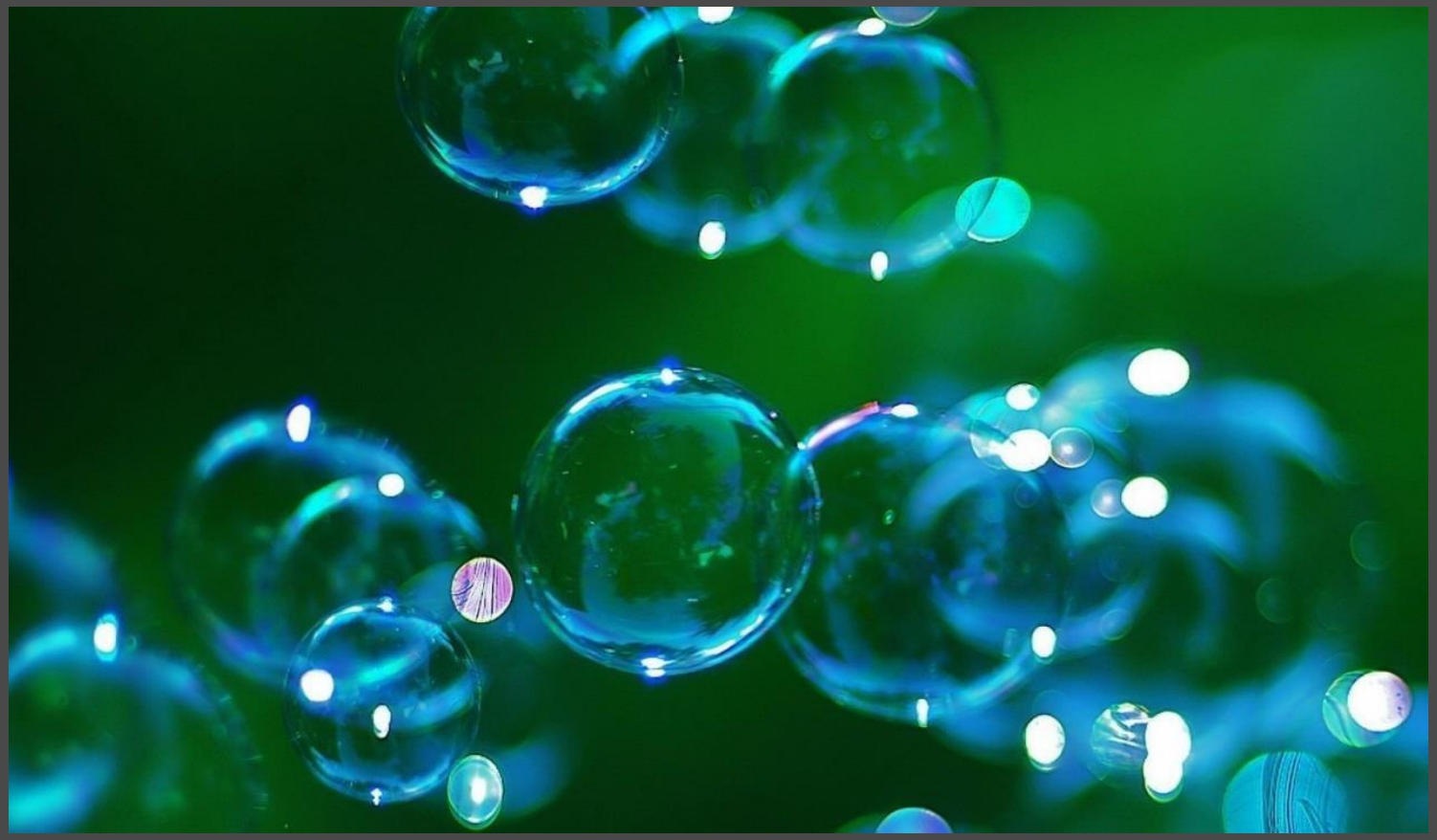
Innovation
Management Support



Support for increased impact during project-life-cycle

'Package' research-based knowledge from the innovation management programme.

1. Develop an innovation management support for Vinnova-funded projects
2. Test tools, models tom strengthen the innovation capacity in Vinnova-funded projects
3. Improve the capacity to collaborate within and between prganisations to overcome silos and lock-ins

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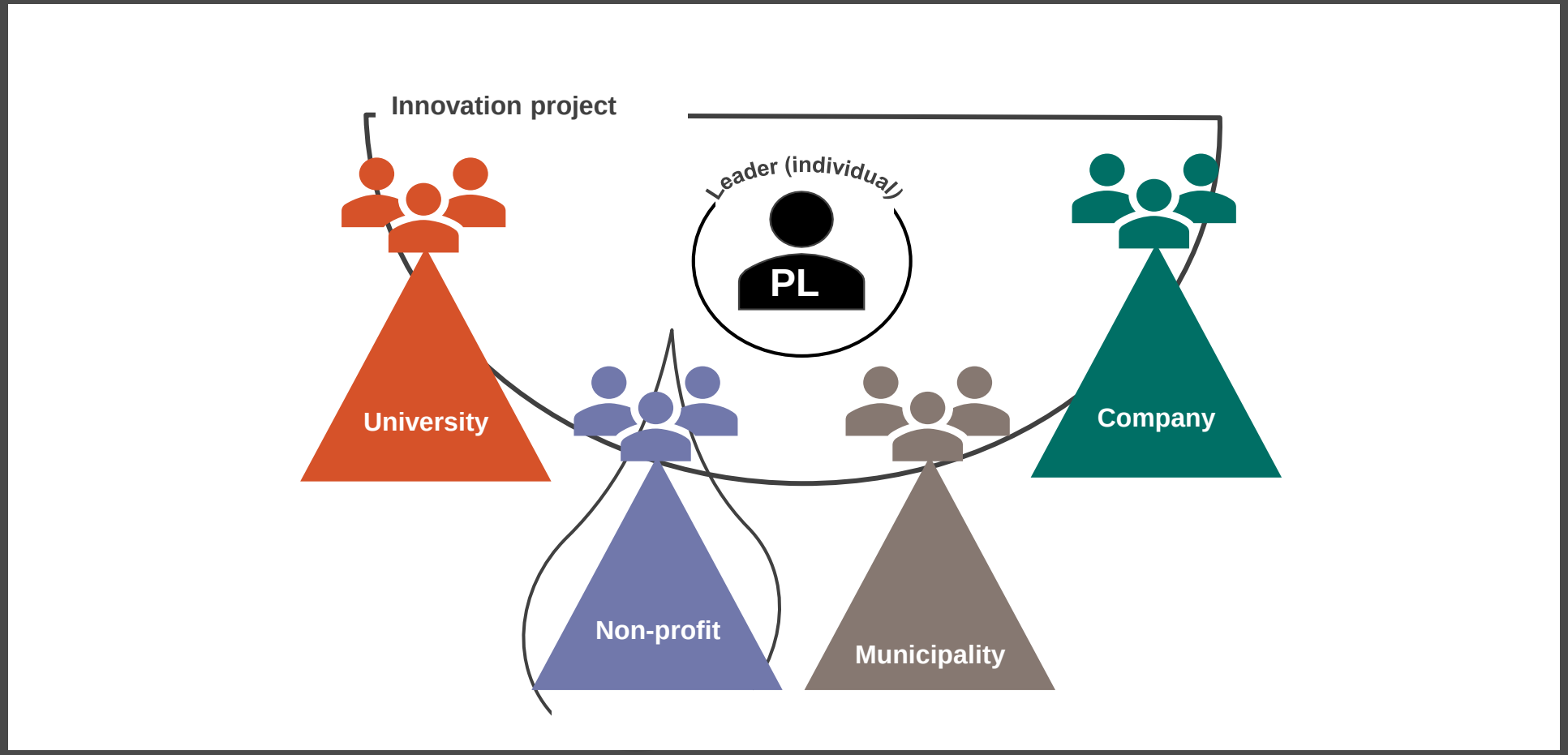
Support at different levels



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Needs-assessment

Workshop 1 –
identify needs
(½ day)

Survey
– capture needs

Workshop 2 –
verify needs
(½ day)

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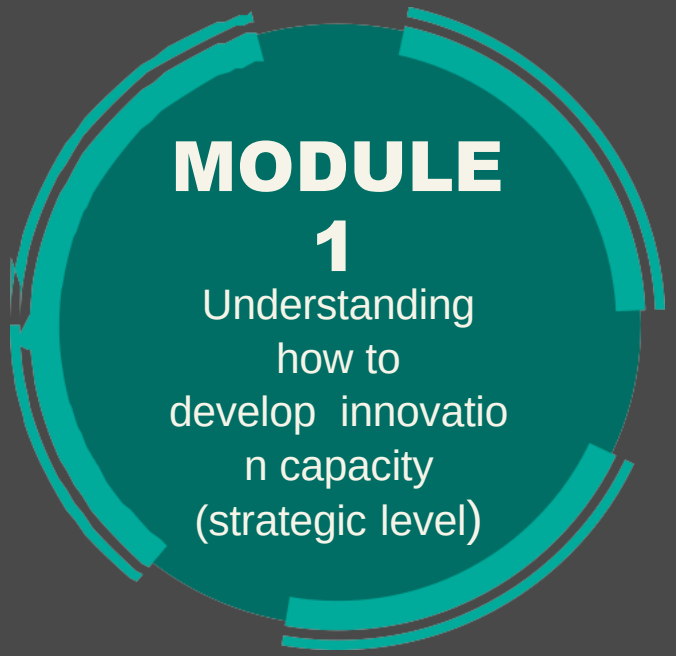

SUPPORT MECHANISMS	FORMATE
Market analysis	Training
Understanding the challenges in innovation projects	Training
Framework / management system for innovation	Training+Model
Measure clollaboration	Method
Meassure innovation capacity	Training+metho d
Develop innovation strategy and action plan	Method

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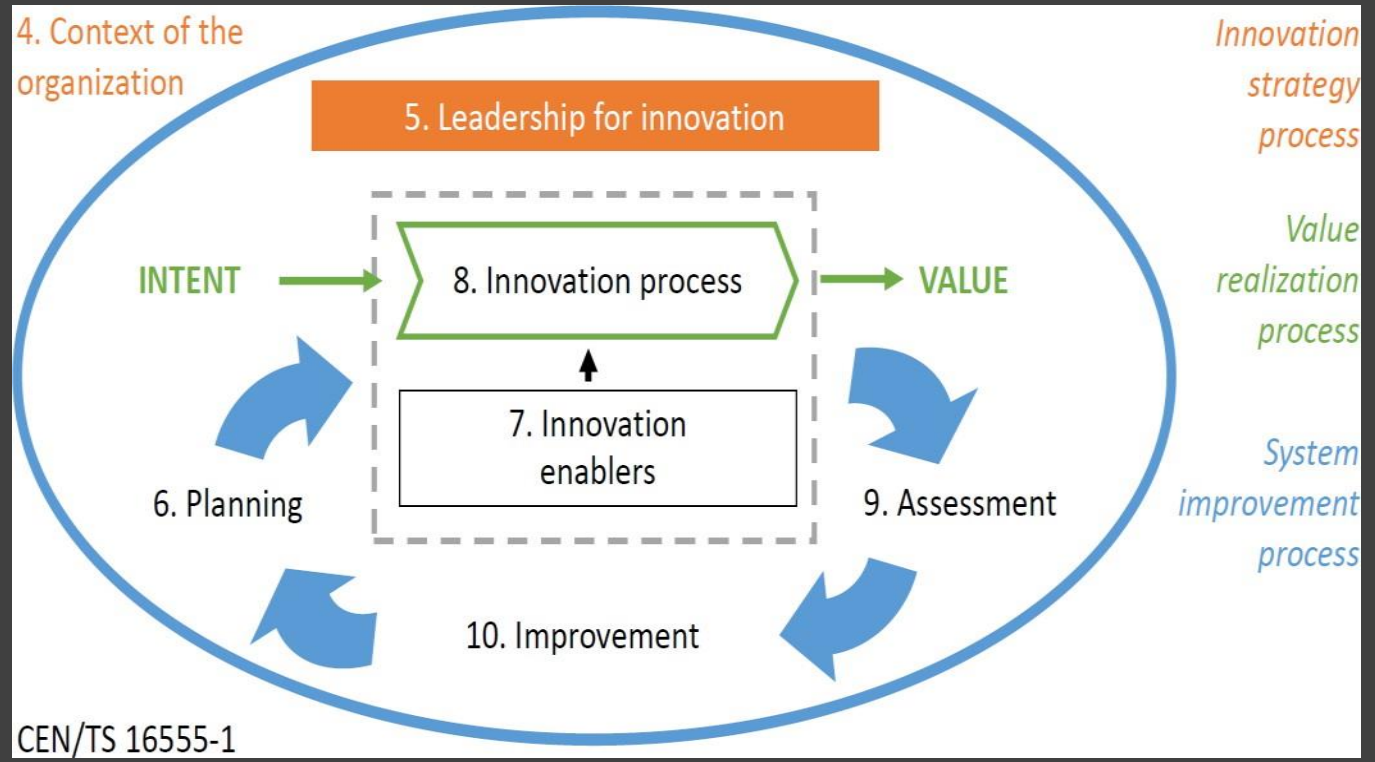
Exampel:
Strategic support

ISO 56002 offers a framework to systematically develop innovation capabilities in organisations.



Innovation Management Principles

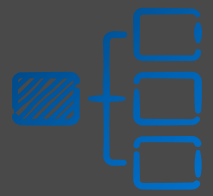
Realization of value

Exploiting insights

Future-focused leaders

Strategic direction

Systems approach



Adaptable structures

Innovation culture

Managing uncertainty

ISO 56000:2019

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MODULE 2

Managing the innovation process (operational level)

SUPPORT MECHANISM	FORMATE
Dealing with lock-ins	Training+method
Cooperation between small and large organisations	Model/Method
R&D partnership	Tool
Develop teams	Model
Developing ecosystems	Tool
Developing circular flows	Model
Cluster development	Training

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MODULE 3

From idea generation to implementation (operational level)

SUPPORT MECHANISMS	FORMATE
Design Thinking" and user-driven innovation	Method+training
Idea generation	Modell/Metod
Idea managment	Modell/Metod
Prototypying and implementation	Metod

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MODULE 4

SUPPORT MECHANISM	FORMATE
Project-/process management	Training
Innovation management	Training
Innovation coaching	Coaching
Mentor network	Mentoring

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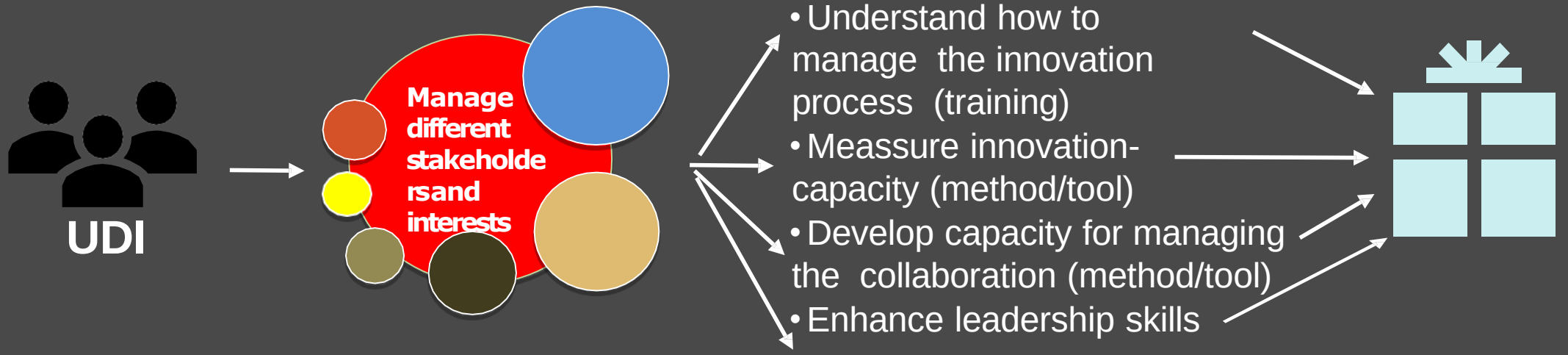
Needs-driven packaging

Use case **Needs** **Modules**



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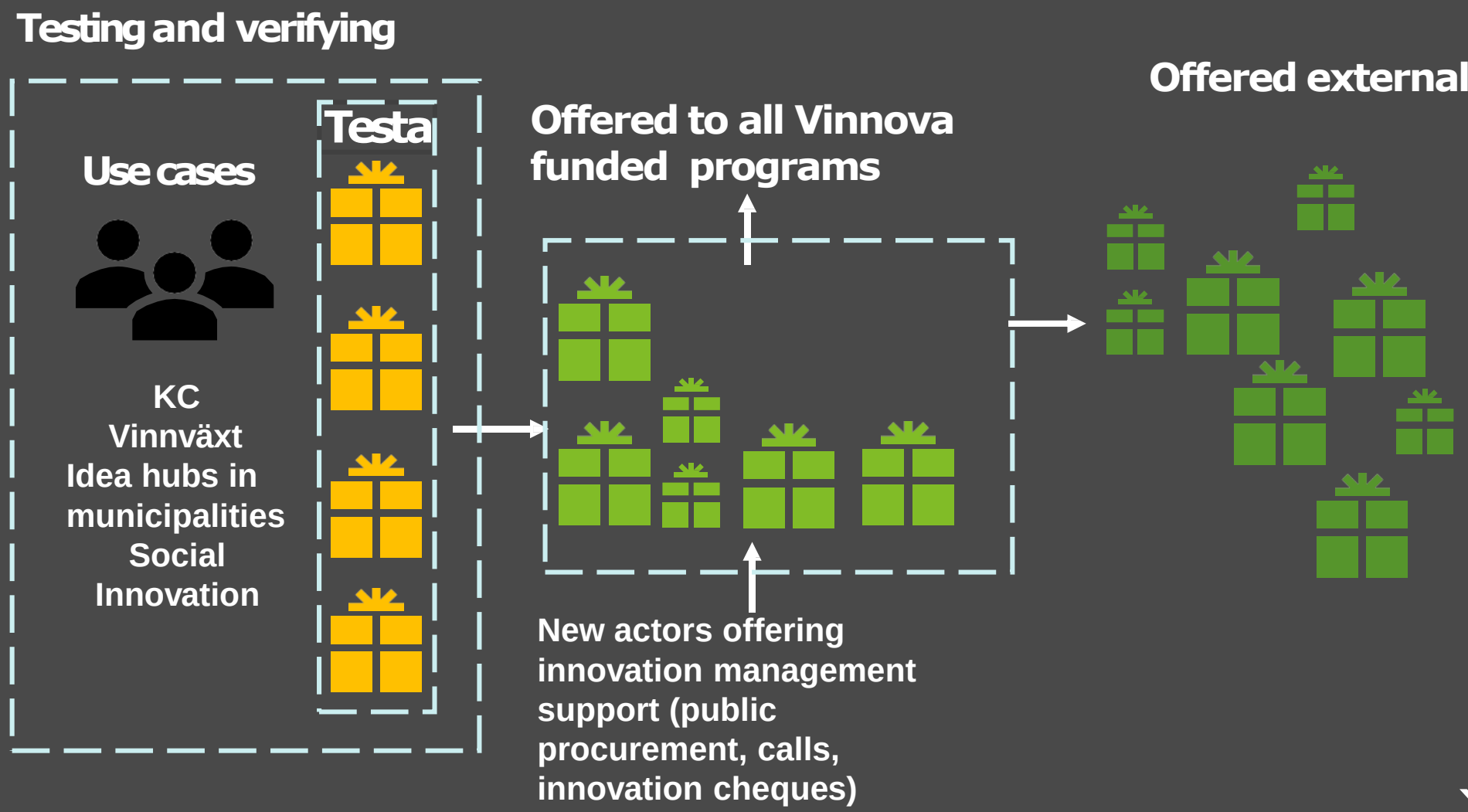
Testing innovation management support



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Leadership in a fast-moving world - increased ability to lead innovation and transformation processes

--- Modules procured

--- Modules for which iHubs Sweden is responsible

1. Introduction and goal-seeking start
- Basic education in innovation management
- Needs analysis at present
- Action plan

2. Adapted action activities towards transformative innovation

Leadership
- Leadership & innovation
- innovation management
- Management in spaces
- innovation Coaching
- Measuring innovation

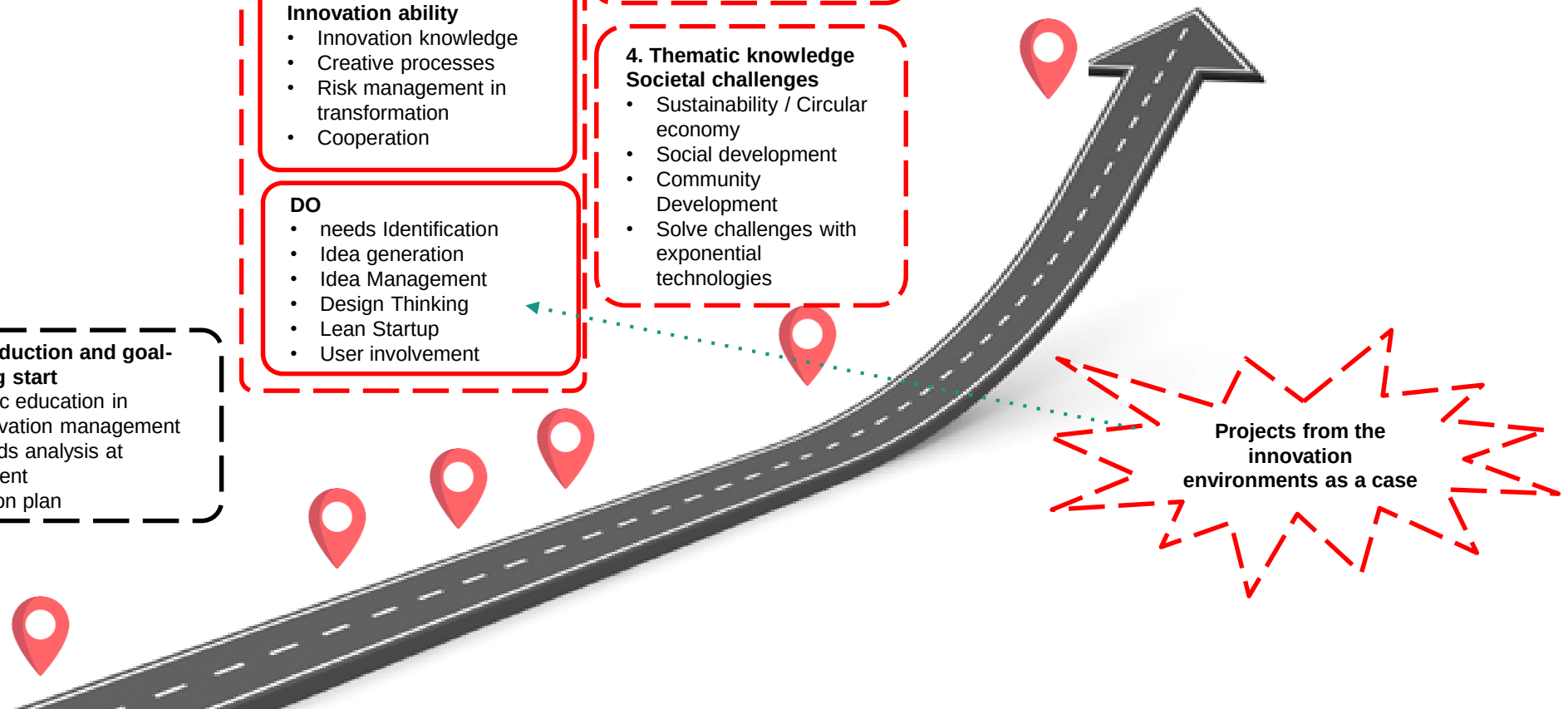
Innovation ability
- Innovation knowledge
- Creative processes
- Risk management in transformation
- Cooperation

DO
- needs Identification
- Idea generation
- Idea Management
- Design Thinking
- Lean Startup
- User involvement

3. Collaborative at transformative level
- Cooperation companies
- Collaboration Innovation environments
- Design of networks
- team Management

4. Thematic knowledge Societal challenges
- Sustainability / Circular economy
- Social development
- Community Development
- Solve challenges with exponential technologies

5. Follow-up
- New analysis
- mentoring
- Action plan



Projects from the innovation environments as a case

TASK 1. *WHAT DO YOU DO TODAY*?

Reflect upon what your organisation is currently doing to strengthen Sweden’s innovation capacity (5 min)

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TASK 2A. *WHAT ARE THE MAIN CHALLENGES?*

Discuss what is hindering your organisations from contributing further to strengthen Sweden’s innovation capacity (10 min)

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TASK 2B. *WHAT CAN YOU DO TOGETHER?*

Discuss how you could work together to strengthen Sweden’s innovation capacity (10 min)

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WHAT CAN WE DO (VINNOVA)?

Suggestions to Vinnova on how we could better facilitate cooperation between different stakeholders and further strengthen Sweden’s innovation capacity

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Innovation Pioneers

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Thank you!

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Sweden's Innovation Agency

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