



Supporting, driving & building large mission driven initiatives: Perspectives from Aalborg University, Denmark

Aalborg University (AAU), Denmark

NARMA Årskonference marts 2025

Niels Bech Lukassen
Head of Mission Unit, PhD
AAU



A mission-oriented university

Our deep expertise, comprehensive interdisciplinary approach, and proactive societal engagement provide us with unique opportunities to work with complex challenges.

Together with our surrounding community, we define and participate in missions that contribute to solving these challenges.

These missions should be the driving force behind our actions. In short, AAU is a mission-driven university.

My background & AAU



Niels Bech Lukassen

Head of Mission Unit
PhD in Educational Psychology

Previous employments:
Investment Manager, Innovation Fund Denmark
Chief Consultant, Danish municipality
Associative Professor, University College

AAU Facts

+17.700 full time students
+ 3.500 researchers & administrative staff
4 faculties
+800 PhD students
Missiondriven University
Problem based University
Located in Aalborg, Copenhagen & Esbjerg
Strategy – Knowledge for the World

AGENDA

Topics in mixed order:

Why we are a mission-oriented university

What is a Mission Unit? Mandate?

What's in it for me?

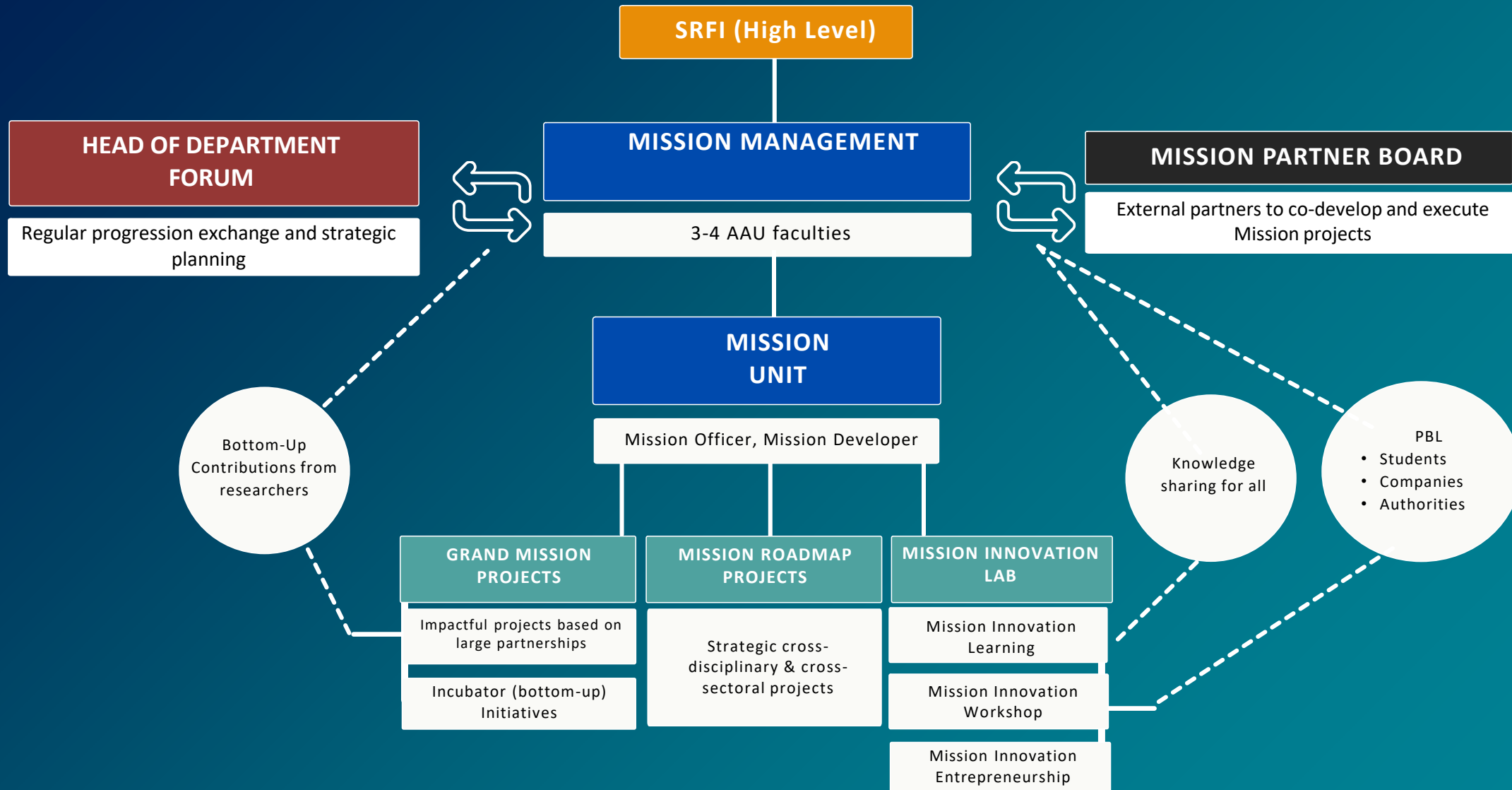
Which missions do we have?

How we govern and drive missions

QUESTIONS and dialogue



MISSION GOVERNANCE MODEL



MISSION MANDATE

“We believe that knowledge can and must change the world.”

“Therefore, AAU is a university with ambitions that extend far beyond its walls to the heart of the most pressing global and local trouble spots (...).”

*“We **define and take part in missions** that help solve those challenges.”*



What is a mission?

- Bold, inspiring with broad societal relevance
- Targeted, measurable, and time-bound
- Actions should be ambitious and realistic regarding research and innovation
- Interdisciplinary, cross-sector innovation across stakeholders
- Encouraging bottom-up solutions
- Realistic opportunity to obtain external funding to support these

What is a Mission Unit?

What do we do?



*Data collection & analysis – Mission Dashboard
Learning activities, workshops, conferences etc.*

Developing mission roadmap

Partnership building – Quadrouble Helix

Strategic funding activities

Managing Mission Partner Boards

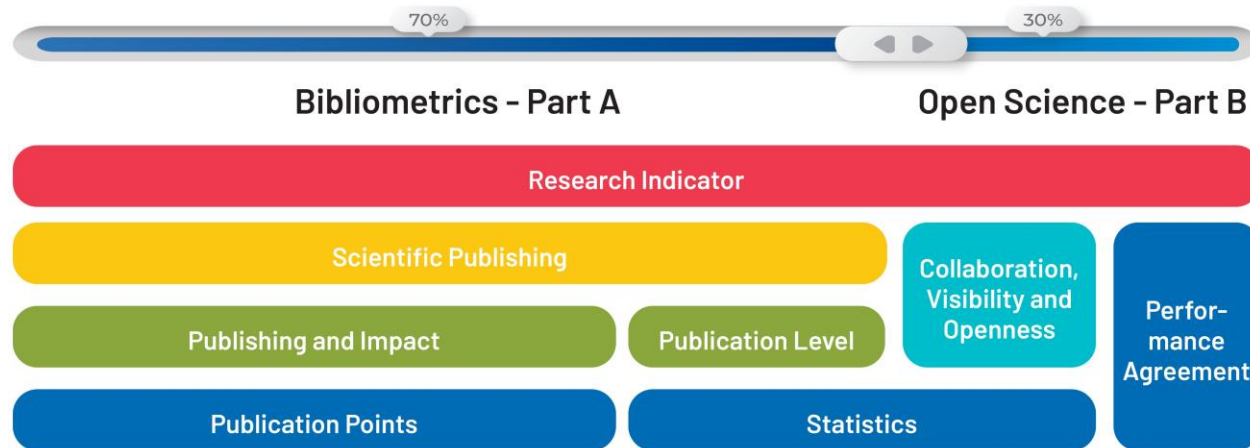
Research indicator – 70 % (BFI) + 30 %

Working closely with Mission Management, AAU top management and the entire AAU

In the Mission Unit, our task is to connect the dots, engage in professional dialogue with researchers and decision-makers, ensure process management and portfolio management, and involve AAU's departments as well as external partners in each of the three missions.

We aim to facilitate connections between the outside world and our researchers

AAU Research Indicator



Conclusion:

Part A = subject neutral and applied directly to support internal distribution of basic research funding

Part B = developed to showcase subject specific research strategies at the department level

AAU MISSION UNIT *Dashboard*

Pathways to establish AAU as a missiondriven university (numbers as examples only)

Mobilizing & managing

Mission Partner Board

C-level members in AAUs Mission
Partner Boards – Energy & CYP

13

Internal AAU meetings

Meetings & learning activities
arranged and facilitated by
Mission Unit & Management

750

Strategic funding

Dialogues with national &
international funding bodies

54

External partners

Municipalities, regions, private &
public actors, organization of
interests

189

Mission Projects

Energy mission projects

Portfolio-based mission projects
created for the joint mission

16

CYP mission projects

Portfolio-based mission projects
created for the joint mission

10

Institutes

Cross disciplinary projects
achored locally at institutes
within mission themes

418

Publications

Number of AAU related
publications including selected
mission-keywords

100

Agreements & investments

Agreements – external partners

Various agreements: MoU,
Collaboration, NDA, IPA, DSA,
consortium etc.

11

Funding applications

Applications for various
national/international funding
bodies from Mission Unit.

10

7

In process Applied

Joint mission funding

Applications to support joint
mission endeavours.

4

0

In process Applied



What's in it for me?

Example health mission

| Stakeholder Group | Collaboration | Career Development | Real-World Impact |
|--|---|---|--|
| Young Researchers (PhD, Postdoc, Assistant Prof.) | Collaborate with experienced researchers across faculties | Mentorship, training, and leadership skill-building | Contribute to technology- driven solutions for societal challenges |
| Senior Researchers (Associate and Full Prof., Deans) | Lead interdisciplinary teams on impactful projects | Opportunities to mentor others and lead key initiatives | Shape legacy through societal-scale research solutions |
| Students | Participate in cross-faculty projects | Develop interdisciplinary and collaborative skills | Apply learning to real-world interdisciplinary challenges |
| Patients | Contribute insights on care needs and experiences | Empowerment through patient-centered initiatives | Improve quality of care and health outcomes |
| Clinicians | Collaborate with researchers to influence solutions | Access to tools for professional growth and decision-making | Develop tools to streamline clinical workflows |
| Leaders in Healthcare System | Coordinate with policymakers and researchers | Leadership opportunities in health reform efforts | Drive systemic healthcare improvements |
| Governmental Organizations | Co-develop strategies with stakeholders | Support policy-focused career development | Achieve measurable societal outcomes |
| Non-Governmental Organizations | Partner in advocacy and collaboration | Empower leaders in NGOs with strategic roles | Address global health equity challenges |
| Industry | Public-private partnerships to develop scalable solutions | Access to innovation hubs and funding opportunities | Develop and market globally scalable solutions |
| Foundations | Collaborate with researchers to fund impactful work | Support long-term mission- aligned research initiatives | Support transformational research aligned with global goals |

SHIFTING ROLE OF UNIVERSITIES

| Traditional Research-Based Innovation | Mission-Research Based Innovation |
|--|--|
| We develop towards the future | We place ourselves in the future |
| Project-based | Projectportfolio-based |
| Funding competition | Funding collaboration |
| Governance is an expense | Governance is an investment |
| Siloed project learning | Cross-project learning |
| People with ideas for specific solutions | People committed to the mission, not a singular solution |
| Internal innovation teams | Cross-disciplinary and external teams |
| <i>Innovation managers</i> | <i>Mission managers</i> |

Missionerne på Aalborg Universitet



ET BÆREDYGTIGT DANSK ENERGISYSTEM

Missionens mål er at etablere et borgerinddragende, modstandsdygtigt og bæredygtigt dansk energisystem inden 2045.

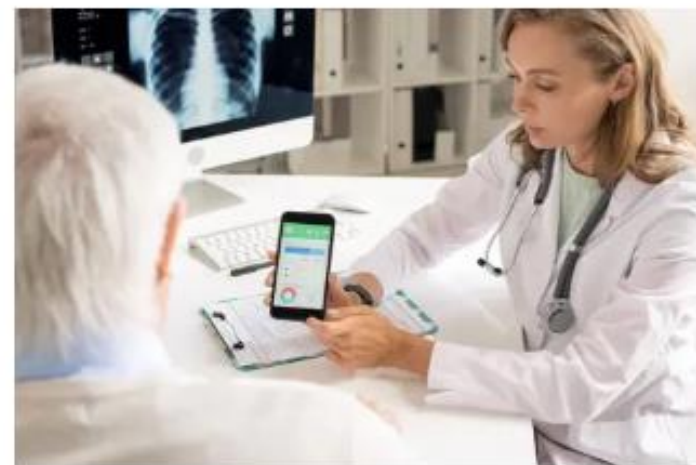
missionbaeredygtigenergi.aau.dk ➤



ØGET TRIVSEL BLANDT BØRN OG UNGE I DANMARK

Missionens mål er at øge den fysiske, psykiske og sociale trivsel blandt børn og unge i Danmark inden 2040.

missionbornogungestrivsel.aau.dk ➤



ØGET SUNDHED GENNEM SAMMENHÆNG OG INDIVIDUALISERING

Missionens mål er at øge sundheden for patienterne gennem teknologiunderstøttende og sammenhængende forløb, målrettet den enkelte patient

Mission øget sundhed gennem sammenhæng og individualisering ➤

The Missions long term goals: 2045

To increase children and youths physical, mental and social well-being

To establish a citizen-centric, resistant and renewable energysystem in Denmark

To improve patient health through technology-supported and coherent care pathways tailored to the individual

Signs of impact

The changes we can observe, when the changes starts happening - from implausible to possible!

E.g. a new technology is implemented in a real context

Reduction in unnecessary tests and hospital admissions

Inflection points

(A notable change, that has a substantial importance for the goal of the mission: Technological-, market-, regulatory-, systematic- or cultural shift)

E.g. (well-being: Regulation of screentime / digital breaks in the educational sector)

E.g. (Energy: Citizens acceptance of windmills in their community)

E.g. (Health: Digital technologies assisting patients in managing their illnesses independently in everyday life)

Possibility-inducing prerequisites

AAU leaders/Partner Boards/learning activities/engagement/interdisciplinary cooperation/intern & extern funding

Portfolio of mission projects

Key challenges

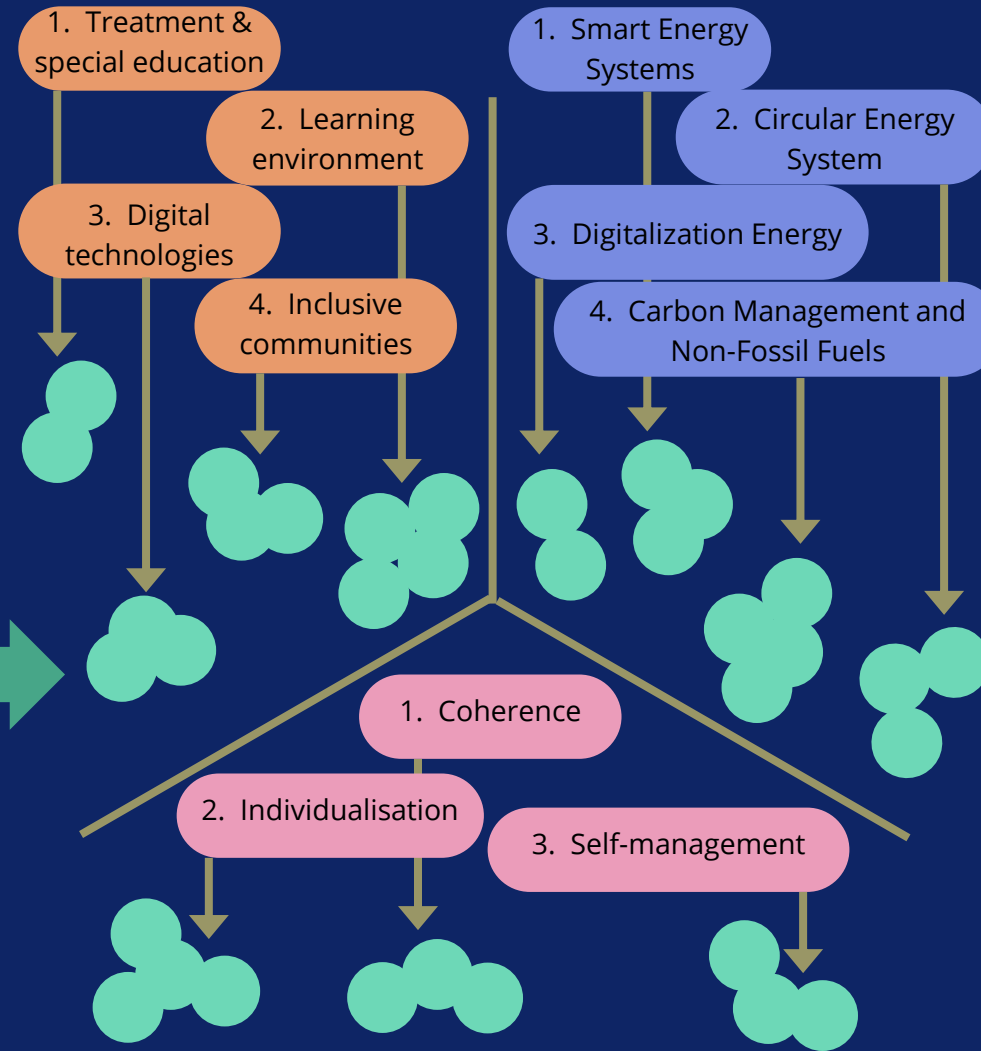
Milestones

E.g. how can we engage the industry better? Funding applications repatriated? New types of workshops?

Milestones

A milestone for each key challenge

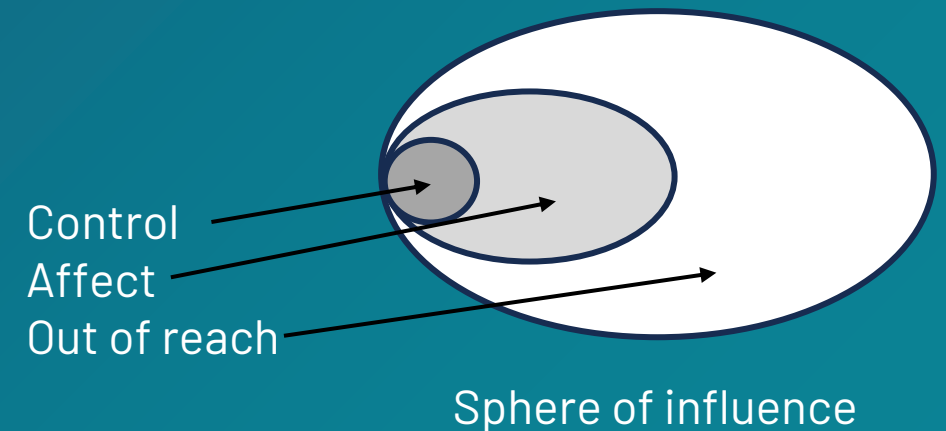
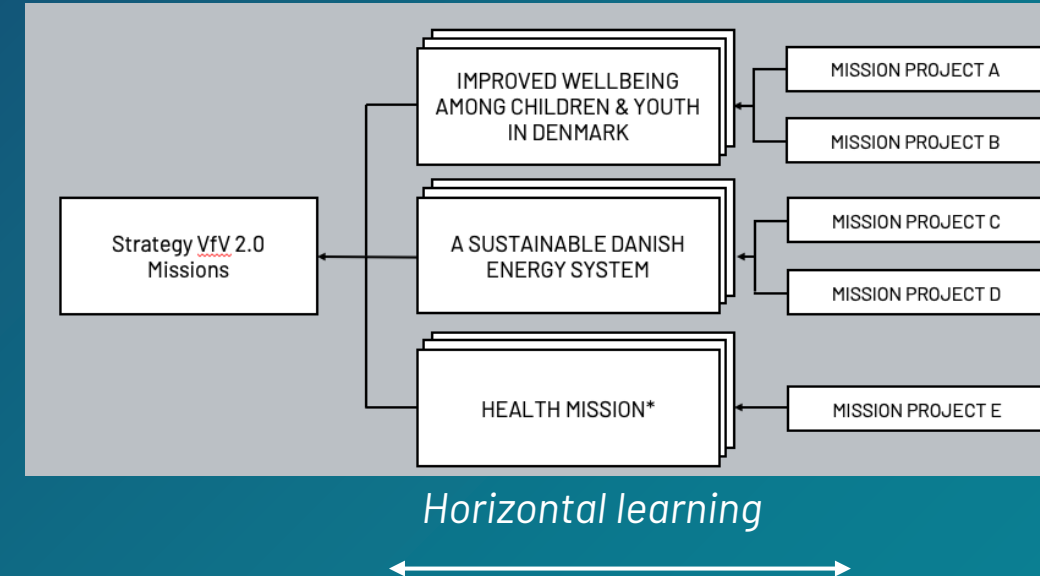
Key Challenges



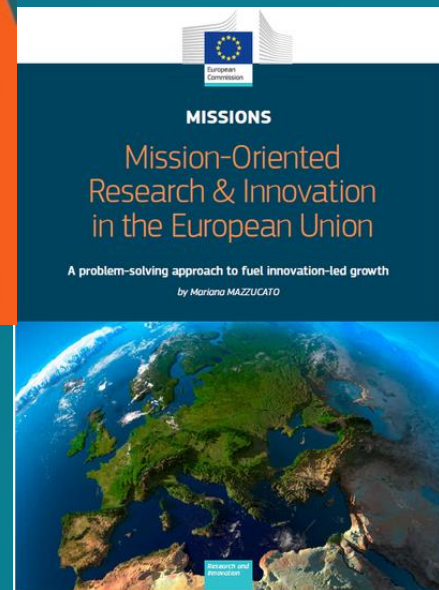
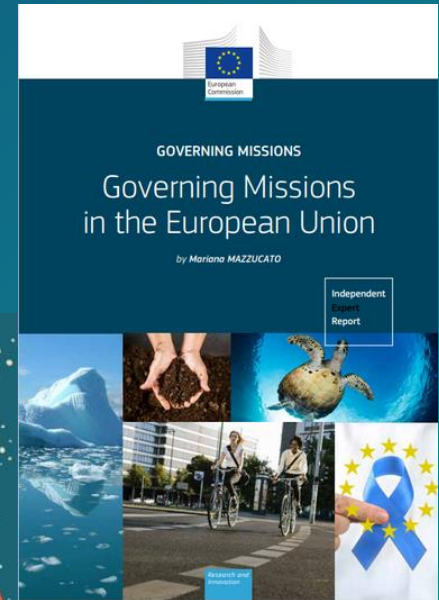
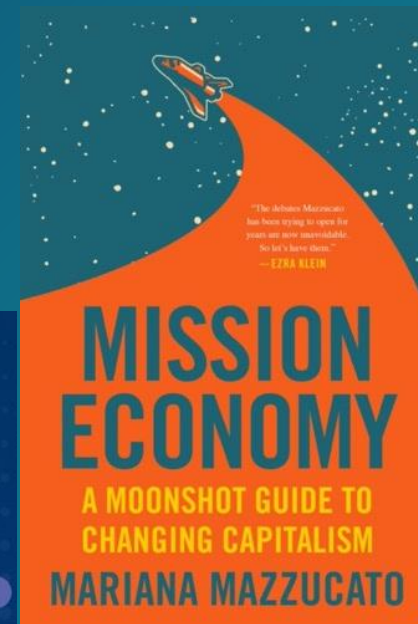
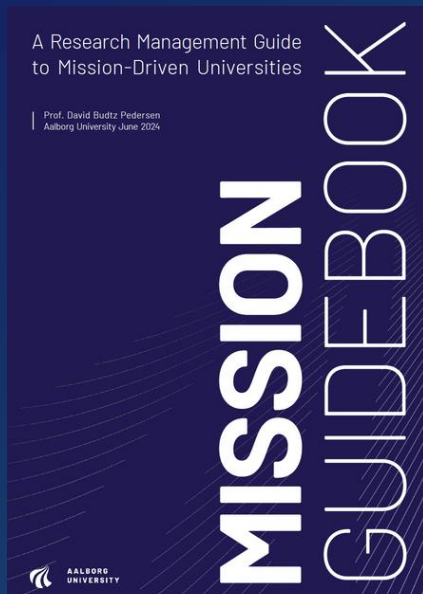
Building a learning Mission Portfolio

KEY TAKE AWAYS

- It takes courage to 'walk slowly' – wait for the ketchup effect!
- Systems change starts with behavioral change at individual level – from KPI-view to KBI-view
- “True synergies have to be found to enable scaling of initiatives; no need to ‘annoy project managers’”
- Scaling ‘effort’ – work with a ToC



MISSION RESEARCH





THANK YOU

Time for

dialogue



THE GLOBAL GOALS

HOW WE DO IT

Grand
Challenge

A strong mission unit:
management, administration,
researches and support systems

Portfolio of Collaborative Cross-disciplinary Mission
Projects: Innovation, transformative research and best practice

Student
involvement
(Problem Based
Learning and
entrepreneurship)



Overall
Mission

Mission
Partner
Boards

CROSS SECTORIAL
CLUSTERS OF
✓ PUBLIC PARTNERS
✓ PRIVATE PARTNERS
✓ NGOs & THINK TANKS
✓ CITIZENS

Setting directions, mobilising systems and actors, building
capacity

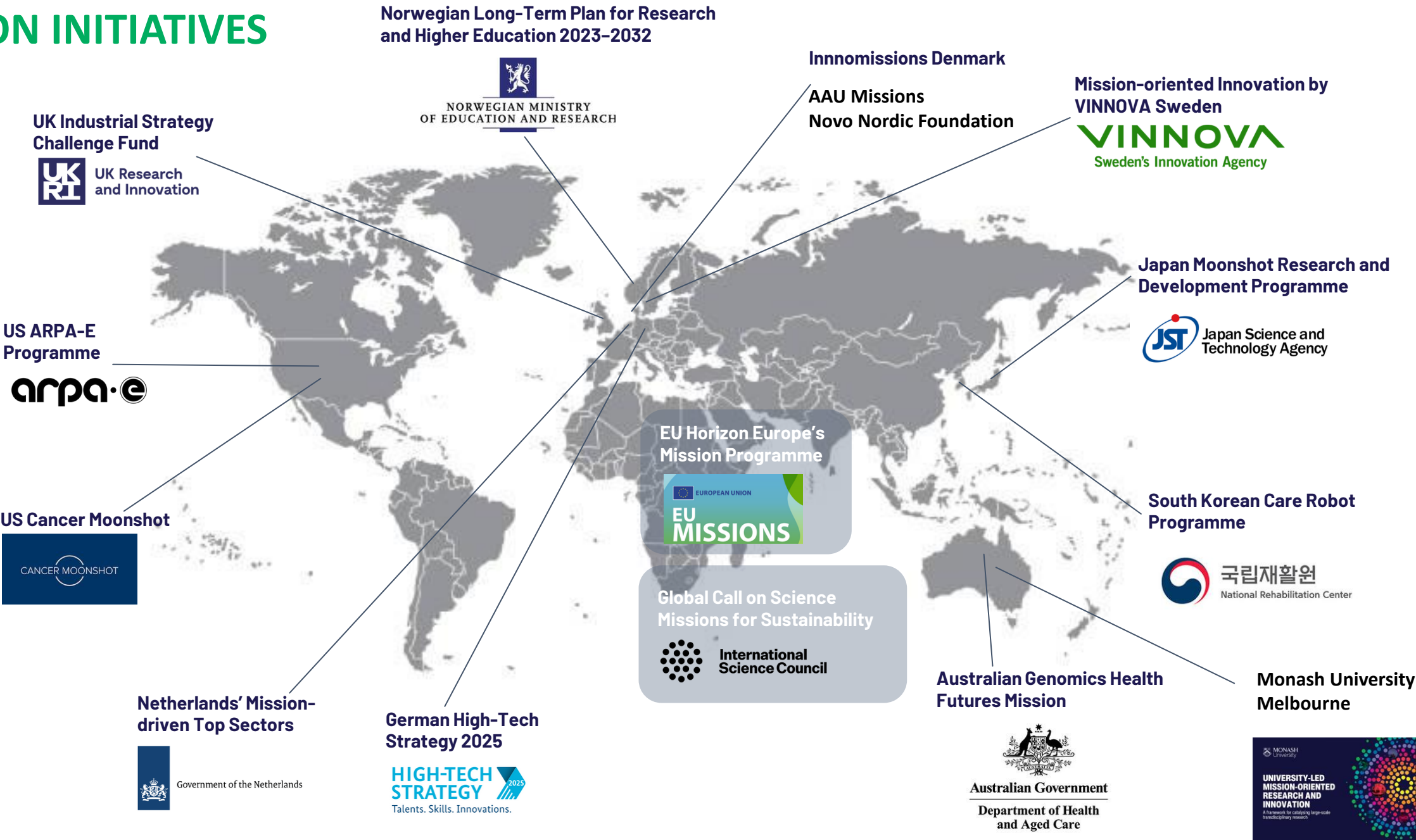
Co-creating impact & and the grounds for uptake
on a national and international scale

REAL WORLD CHANGE



AALBORG
UNIVERSITY

MISSION INITIATIVES

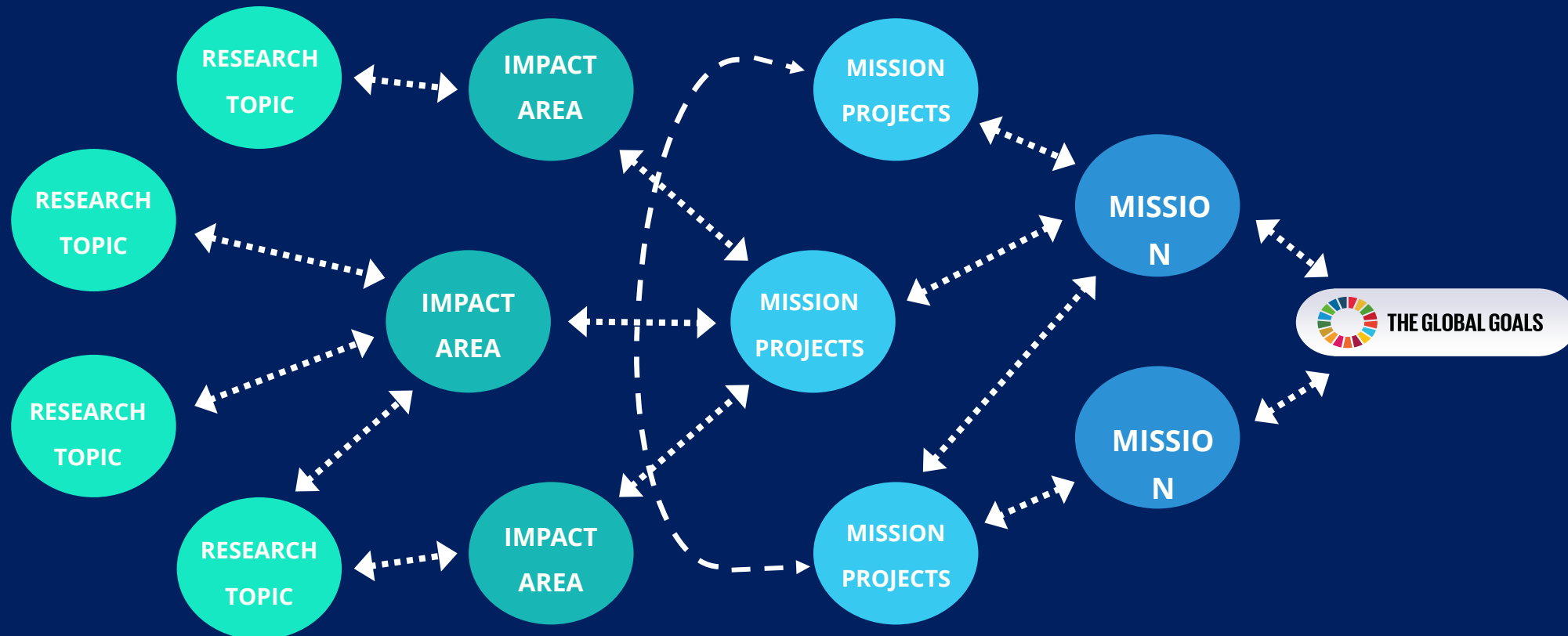


Mission Unit Support – A Change Agent Approach to...



WHY AAU IS MISSION ORIENTED

- AAU has a strong impact focused culture (top scores at Times Higher Education Impact Ranking)
- AAU has strong tradition for partnerships
- AAU research aligned with EU Mission areas



Research Support Setup



Governance structure with AAU partners – *The Mission Partner Board*

Task and Mandate:

As a member of the Mission Partner Board, you have **genuine influence** on the mission's progression and professional content. The Mission Partner Board, in collaboration with AAU Mission Management and the AAU Mission Unit, is responsible for:

- Ensuring the **mission's progress at the project portfolio level** – including committing to and engaging in supporting the cultivation, development, and utilization of synergies between mission projects
- Ensuring that members' assessments of the mission's activities **guide the mission at both an operational and strategic level**

MISSION PARTNER BOARD - Wellbeing of Children & Youth



Members:

1. Asger Kjær Sørensen, Forperson, **Danske Gymnasieelevers Sammenslutning (DGS)**
2. Steffen Raun Fjordside, vicedirektør, **Børns vilkår**
3. Tina French Nielsen, Salgs- og forretningsudviklingschef, **KMD Base/Børn og Uddannelse**
4. Trine Hammershøj, Direktør, **Det Sociale Netværk**
5. Frans Hammer, 2. Næstformand, **Danmarks Idrætsforbund (DIF)**
6. Anna Bjerre, Direktør, **Girltalk**

MISSION PARTNER BOARD - ENERGY

Members:



1. Bo Svoldgaard, CTO, **Energy Cluster DK**
2. Kristian Thulesen Dahl, Direktør, **Port of Aalborg**
3. Kasper Roed Jensen, VP, **Vestas**
4. Kia Marie Jerichau, Director, Fleksibilitet og balancering **Energinet**,
5. Morten Westergaard, Middelfart Kommune, **Energifællesskaber Danmark**
6. Søren Gais Kjeldsen, CEO, **Aalborg Forsyning**
7. Søren Hageman, Direktør, **NIRAS**

Mission based research in an EU context

- The promise of societal impact is motivating for *all* researchers
- Broad stakeholder partnerships are more challenging but also offer significantly larger potentials
- **Challenge:** how can EU FPs evolve from individual ‘island’ projects to project portfolios, work with progressive roadmaps and linking better to EU policy?
- **Challenge:** working with the national political level on mission frameworks is cumbersome, but seems even harder in an EU context. How can direct paths be established?

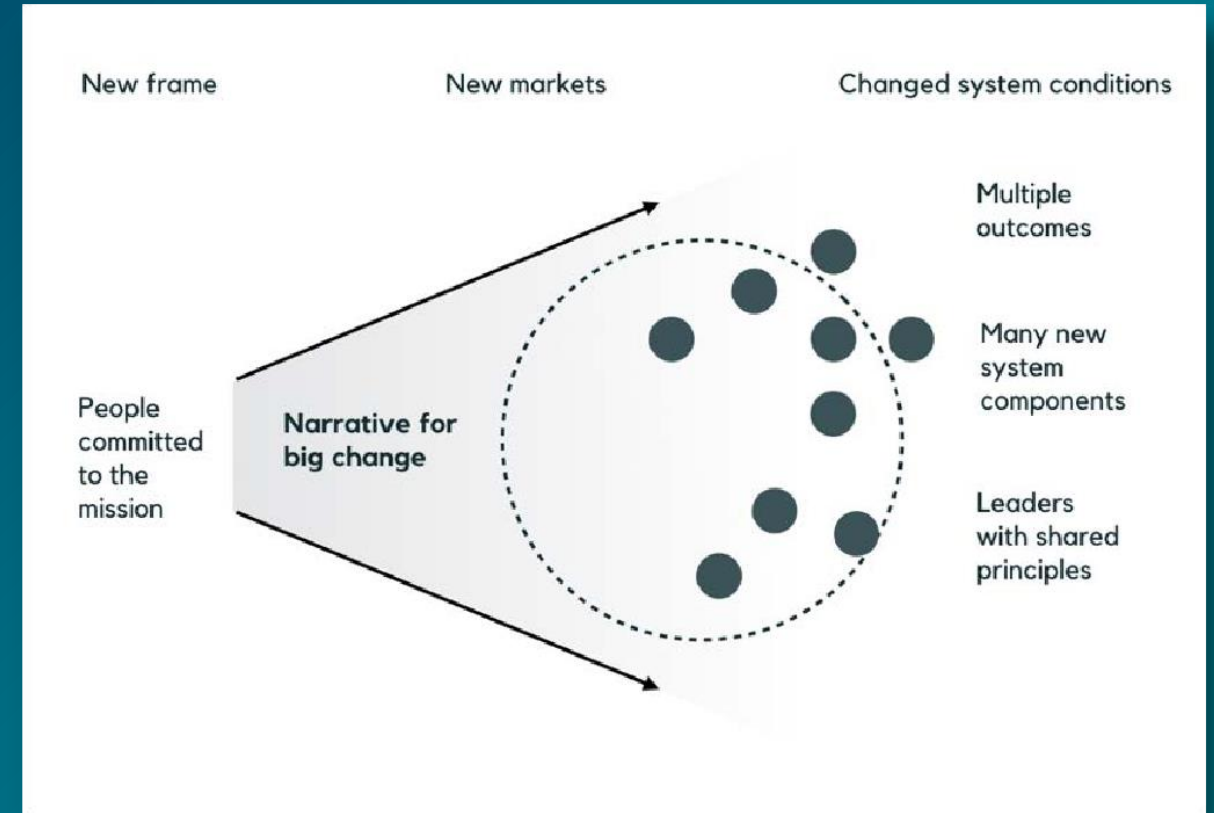
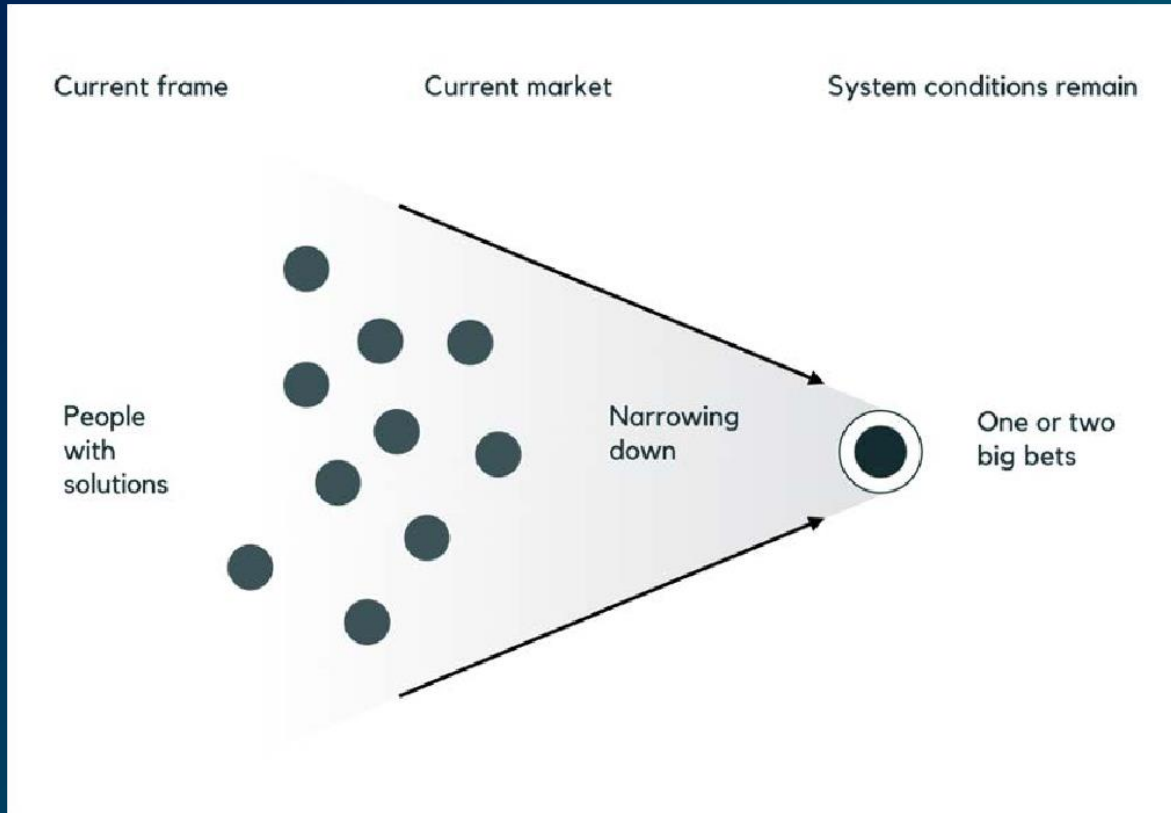


FROM THE FUNNEL TO THE MEGAPHONE

– *a reversed innovation approach*

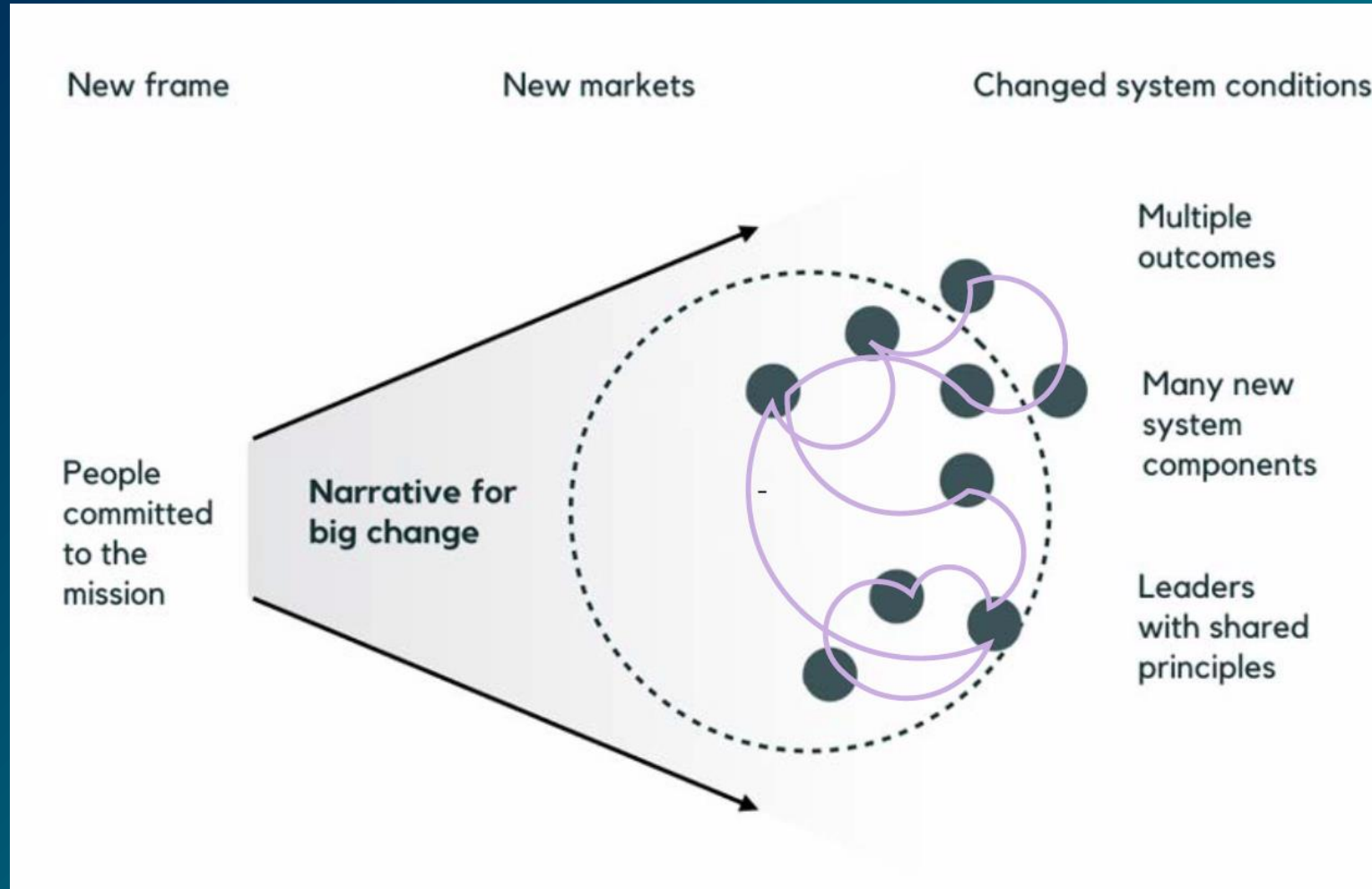


AALBORG
UNIVERSITY



*Figure is an adaption from Conway, R., Leadbeater, C. & Winhall, J. (2019). The Impact Entrepreneur: Building a New Platform for Economic Security in Work (pp. 14–15). Royal Society for the Encouragement of Arts, Manufacture and Commerce

LEARNING HAPPENS *BETWEEN* PROJECTS



Government

Innovation support, policy framework, regulation, professional expertise, scalability

Business

Entrepreneurship, R&D, venture capital, product and service development, market needs,

Academia

Basic and applied research, education, capacity-building, competence framework, incubator, spinoffs,

Civil society

Collaboration, practical know-how, networks, mobilisation, legitimacy, acceptability, lay expertise

