

# On Practical Innovation Policy Learning

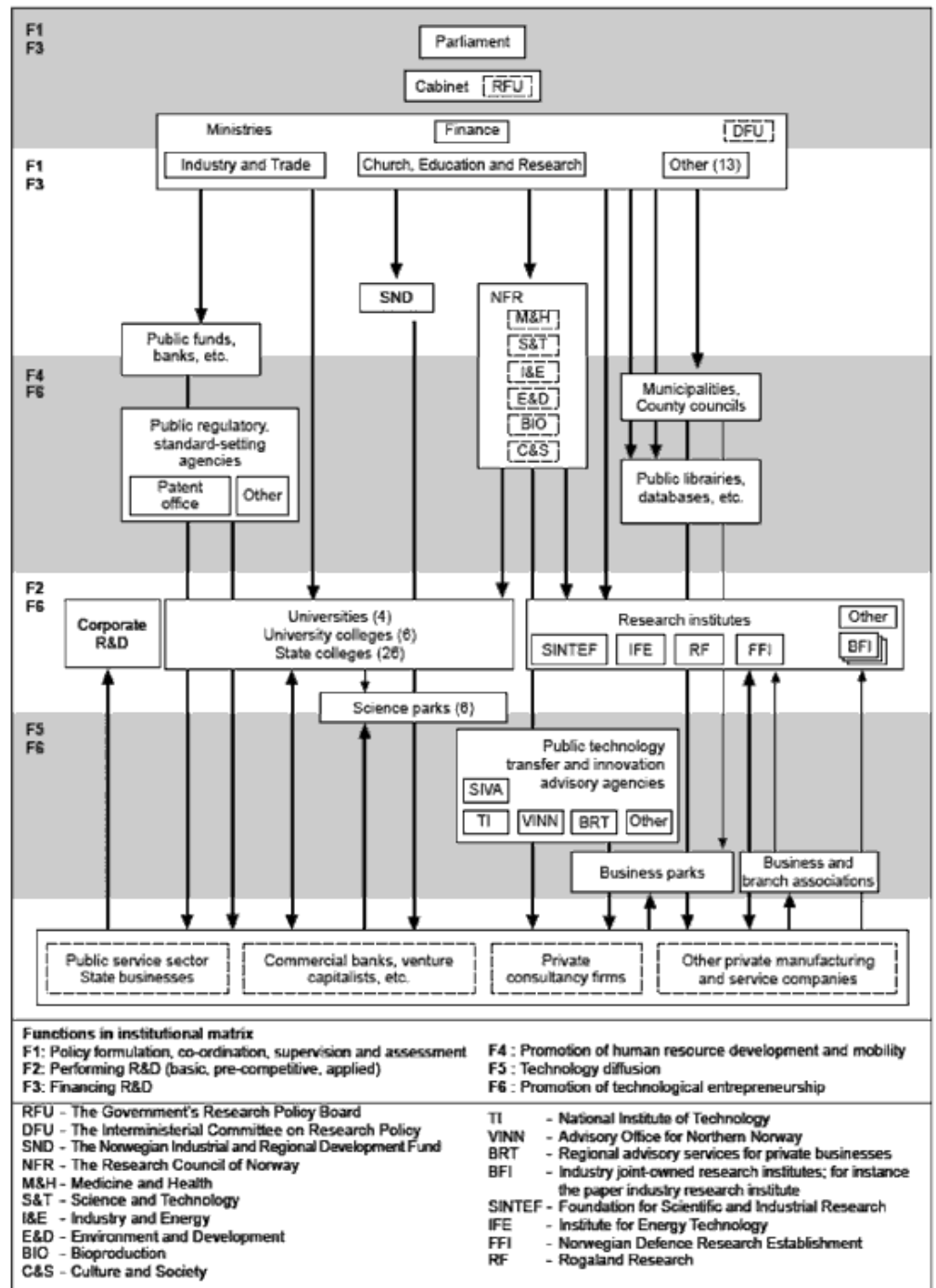
**Per M. Koch**

Head of the Science Policy Project

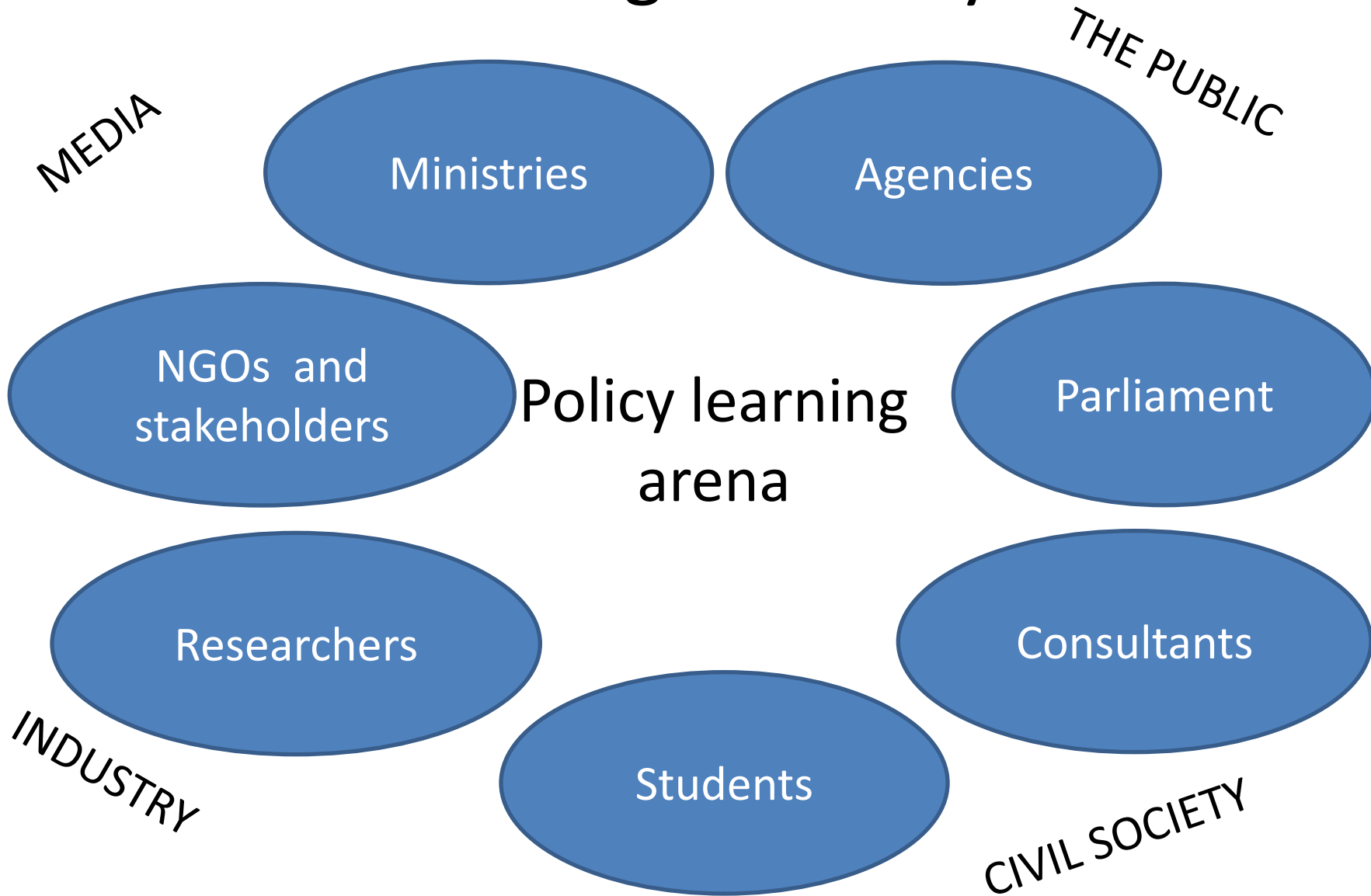
# Personal Background

- Special Adviser on Innovation Policy, Innovation Norway
  - Chair of the OECD STIG-project on STI for global challenges
  - Head of policy learning project in Ministry of Education and Research
  - Policy director in Research Council of Norway
  - Researcher and Director in STEP / NIFU STEP (innovation and innovation/research policy studies)
  - Science and technology policy adviser in the Ministry of Education and Research in the 1990s
  - Member of various OECD working parties
  - Adviser in the EU Trend Chart on innovation
  - Analyst for EU ERAWATCH (science policy)
  - Social science in the EU Framework Programme
  - Academic background: The History of Ideas/Science Studies
- 
- [per.koch@innovationnorway.no](mailto:per.koch@innovationnorway.no)

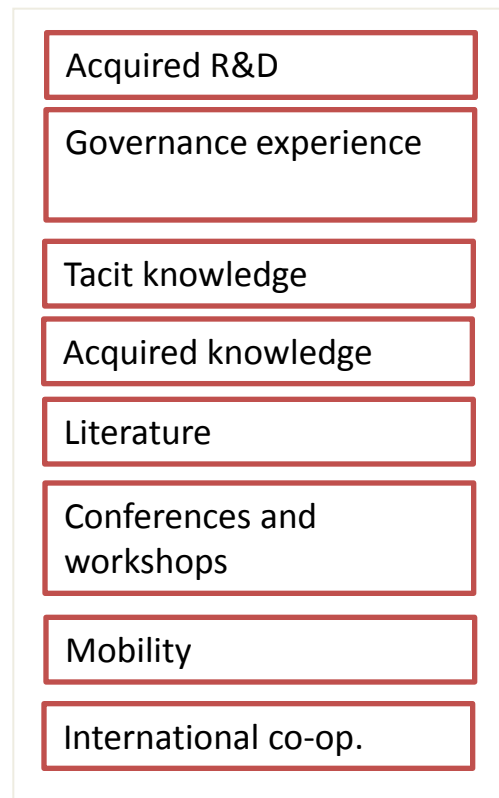
# Organizational charts don't say anything about learning



# There is no learning hierarchy

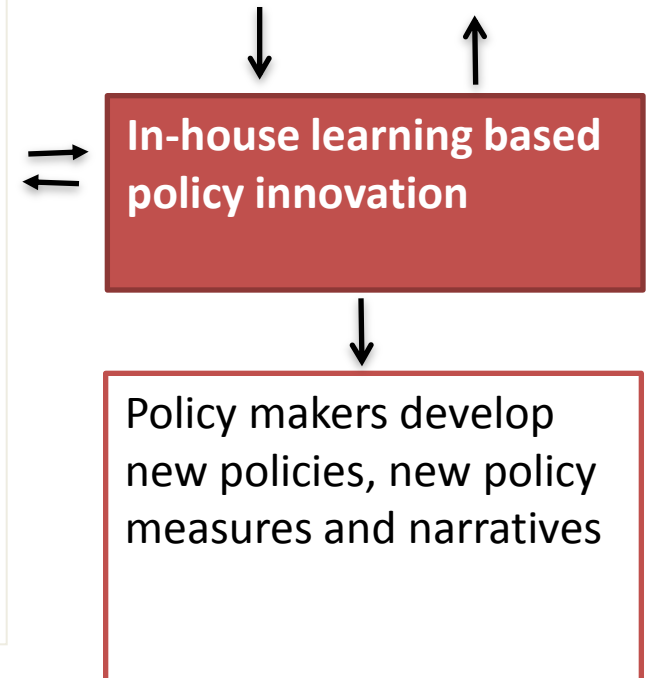


# Ministries and agencies: Policy learning and innovation as co- evolution



## *"societal pull"*

Interaction with researchers, experts, policy makers, stakeholders, politicians, citizens.



# Silos as barriers to policy learning

- **The development of internal barriers and “silo mentalities”**. Parallel systems maintain their own organisational norms, belief systems and practices.
- Distinct and well-established professional groupings, with their own communities of practice and rationales.
- **Researchers grounded in narrow belief systems, interests and ideologies.**
- Power struggles and turf wars stops flow of knowledge.

# One example: Belief systems

- The policy makers
  - The tribe (actor network)
  - Their common belief system (ideology)
  - Their master narratives
- The researchers
  - The tribe (actor network)
  - Their common belief system (paradigm)
  - Their master narratives



# Different belief systems in research and innovation policy

- Different ministries, agencies and stakeholders speak different languages
- What is most important?
  - Basic science or innovation?
  - Economic growth or welfare?
  - Technology or culture?





# There are many policy narratives

- Reflect different understanding of:
  - What society is and how it works
  - How research interacts with society
  - Common terms (e.g. “innovation”, “research”)
  - What the role of science is
  - What the best theoretical and methodological foundation for policy development is
- The Science Policy Narrative
- Business Narrative
- The Social Narrative
- Neoclassical Narrative



# But there are also other factors that hinder policy learning and innovation

- Risk aversion
- Lack of clear agreement with respect to perceived problems, approaches and solutions
- Overlap in responsibilities, and communication difficulties.
- A lack of dialogue between different parts of the public system, horizontally or vertically, between different professional groups.
- Lack of resources – time and funding -  
- for systematic learning
- Power-struggles

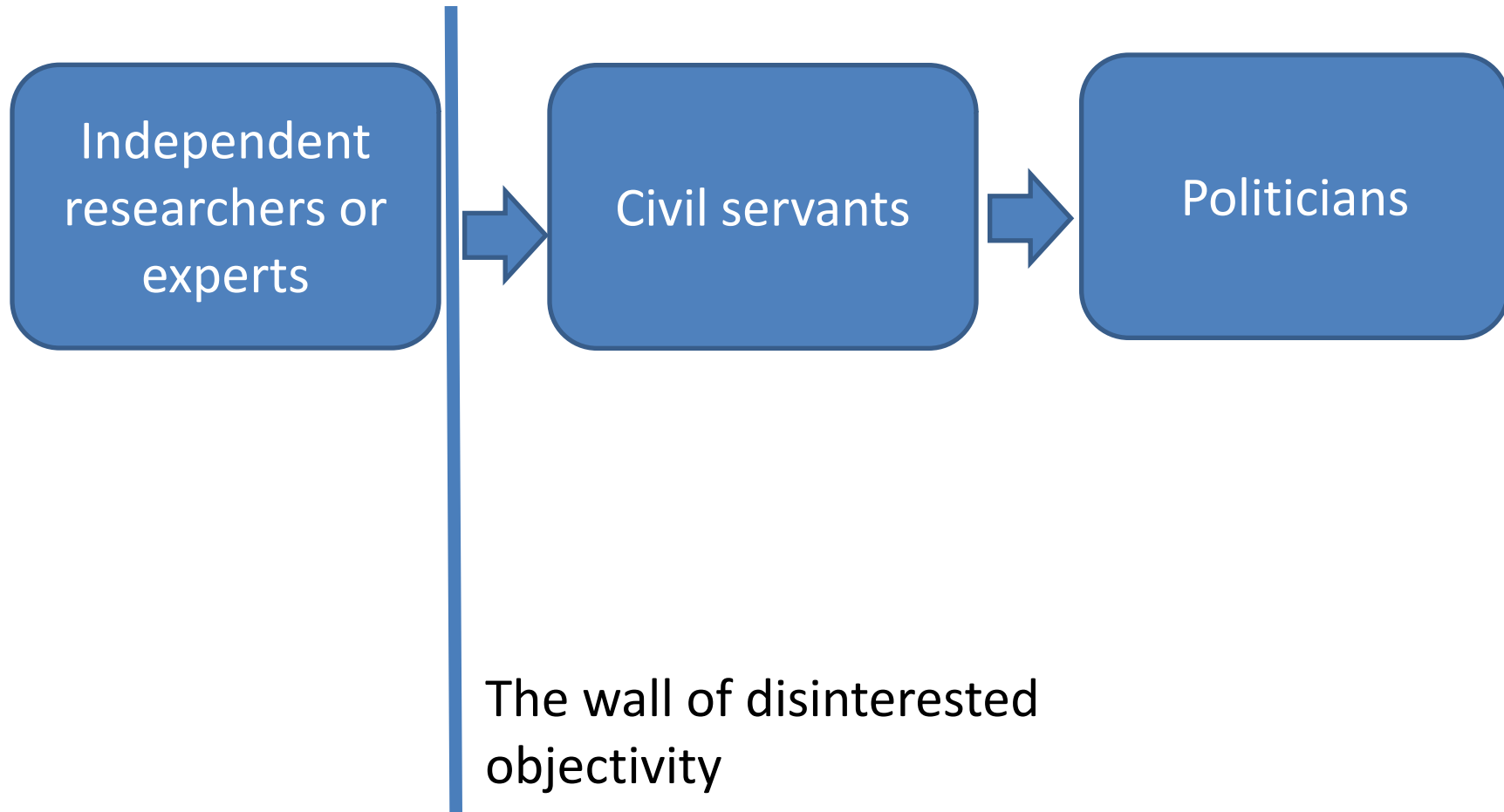


# This lack of reciprocal learning is a democratic problem

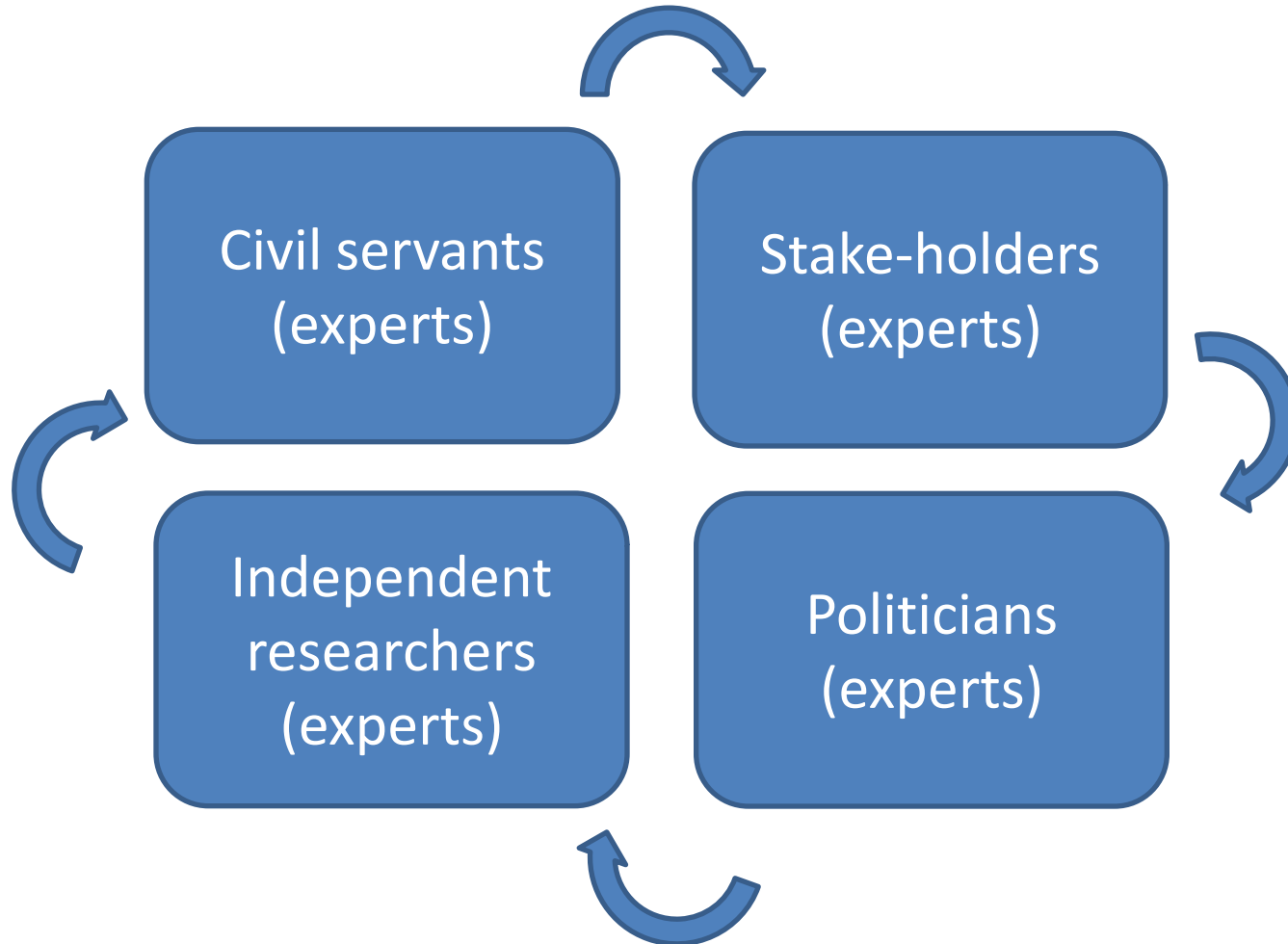
- Undermines communication and understanding
  - between policy makers
  - Between policy makers and researchers
  - Between policy makers and society
- Lack of transparency



# Traditional view of evidence based policy learning has to be abandoned



# This must be an interactive learning arena



They are all experts in their field, some in science, others in policy

# Publin: Drivers for policy learning

- **Staff with high levels of professional expertise, exhibiting a high level of creativity and problem solving and a positive attitude to teamwork**
  - Mobility of people within the policy system, and between policy and society
  - Researchers with an understanding for policy learning and the political process
  - Employment of STS/STP/innovation savvy candidates
- NGOs and civil society
- International learning arenas like the EU
- Political push and crises

<http://survey.nifu.no/step/publin/index.html>



# Information needed

- On knowledge institutions
- On industry
- On public sector and civil society
- On the national innovation system as a whole
- On the effect of global interaction
- *Main challenge: The widening of scope from science policy to innovation policy requires more information*

# Data needed

- R&D&I indicators
- Economic indicators
- Socio-cultural indicators
- Evaluations of policy instruments
- Evaluations of the effect of other policy initiatives (e.g. taxes and welfare)
- Other qualitative data
- *Cultural challenge: “Without numbers it is not real”*
- *Lack of data on the global innovation system*





# Models needed

- Theoretical models that can make sense of the data
- Narratives that can make sense in a policy setting
- *An important challenge: To turn theories into narratives*



# Disciplines needed

- Statistics
  - Economics
  - Social Geography
  - Sociology
  - Anthropology
  - History
  - Cultural Studies
  - Psychology
  - and more...
- *The main problem right now is that everything is reduced to economics*
  - *A need for trans-disciplinary approaches*



# Skills needed

- Statistical skills
- Analytical skills
- An understanding of the knowledge and innovation system
- And understanding of policy and politics
- The ability to develop meaningful narratives
- The ability to communicate in a policy setting
- *Main challenge: Due to the translation problem skills cannot be divided between professions in a linear fashion*

- Statisticians
- Researchers
- Stakeholders
- Civil Servants
- Politicians

# The national innovation policy innovation system

- Knowledge institutions that can carry out studies of the innovation system and make them policy relevant  
(NESTA, NIFU, MERIT, Manchester Business School)
- Government agencies that have the skills needed to analyze, understand and make use of innovation studies in a policy setting  
(VINNOVA, TEKES, Innovation Norway, NOW, RCUK)
- Stakeholder organizations that have the skills needed to analyze, understand and make use of research and policy documents  
(Greenpeace, business confederations, public interest organizations and other NGOs)
- Ministries that have the skills to analyze, understand and make use of innovation studies and policy recommendations in a political setting
- *It is the function that is important, not the institutional type*  
(Danish Agency for Science, Technology and Innovation vs. Research Council of Norway)

# Overlap is necessary

- The absorptive capacity of all these institutions requires some inhouse analytical work.





# Innovation Norway

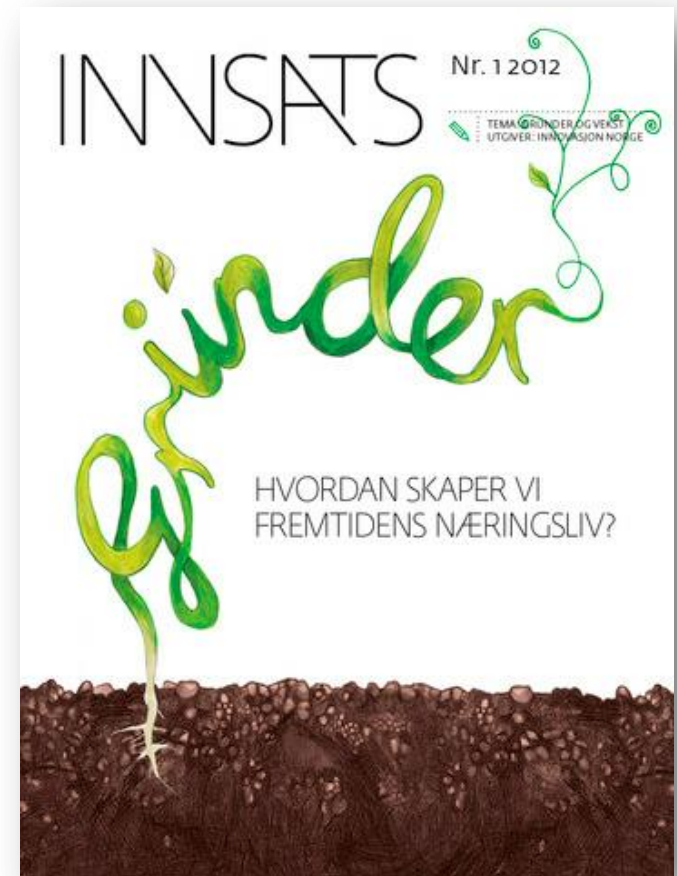
- Developing a new department for Innovation Policy Analysis
  - Learn from existing research and analysis
  - Make use of inhouse databases
  - Commission research and analysis
  - Contribute to the development of an innovation policy narrative and policy recommendations
    - This is how Norwegian industry is today
    - These are the challenges
    - This is what we have to do
  - Develop competences in the whole organization



Gunn Ovesen

# Agenda Setting

- Innovation Norway is to set the agenda for innovation policy debate
- Breakfast seminars
- Conferences
- Theme oriented magazine
- Innovation Policy Blog



Om innovasjonspolitikk og verdiskaping

Hjem Lenker Om bloggen RSS

## Innsats ser på norske gründere

18. MAI 2012

type and press enter

### SISTE INNLEGG

- > Vil norsk kaffekultur slå an i Tokyo?
- > Innovasjon skaper høy produktivitetsvekst i norsk jordbruk
- > Vi trenger innvandrernes gode hoder!
- > Sheriff lager video for Innovasjon Norge
- > Forskning og innovasjon avgjørende for norsk sjømateksport

ARKIV



- Norge trenger flere gründere som tør å tenke stort, sier administrerende direktør Gunn Ovesen til Innsats.

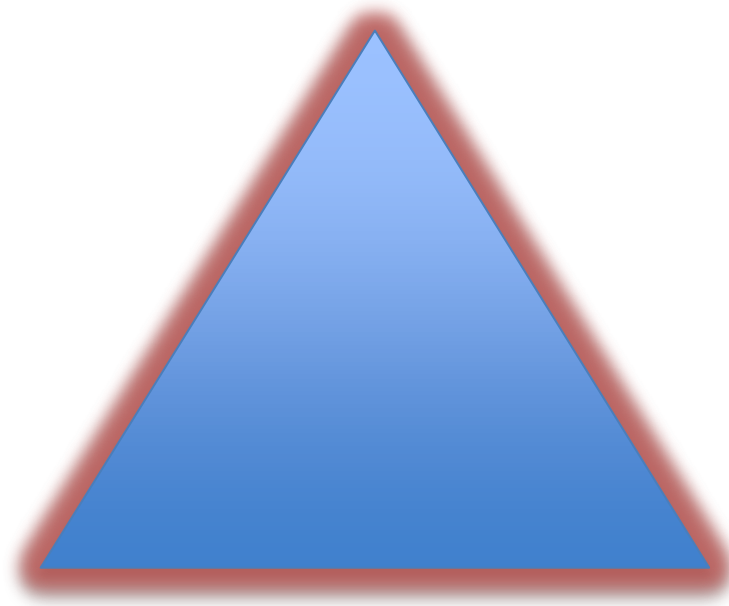
I det nyeste nummeret av Innovasjon Norges magasin kan du lese om gründere og vekst, og hvordan vi skaper fremtidens næringsliv.

I bladet presenteres blant annet initiativtakere bak det nyoppstartede selskapet Mosh.



# Learn / Think / Talk

Policy Development



Analysis

Communication



# Innovation Policy Learning Arena

- Collaboration with other agencies  
(the Research Council of Norway and SIVA)
- Interaction with relevant ministries and counties  
(input to white papers, participation in conferences, regular meetings)
- Support for the research program for research and innovation policy, Forfi
- Use of regional and international offices for intelligence gathering
- Recruiting people with relevant competences, e.g from innovation studies, with business experience or policy skills.

# The Importance of International Collaboration

- Important international research and innovation policy learning arenas:
- OECD NESTI and Eurostat
  - Frascati Manual and R&D statistics
  - Oslo Manual and innovation Statistics
- OECD DSTI
  - Meetings and reports
- European Commission
  - Pro Inno Europe
  - Erawatch
  - Era-nets
- TAFTIE
- Nordic collaboration
  - Nordforsk
  - Nordic Innovation
- Ad hoc



# How innovation analysis can change policy



# From needs to ex-post impact assessments

- Needs: Problems to be solved
- Objective: Outcomes intended to be achieved
- Inputs: Resources mobilized
- Processes: Procedures and activities employed
- Outputs: Products and accomplishments
- Outcomes: Changes caused by intervention
  - Results: Immediate changes for addressees
  - Impacts: Longer term socio-economic consequences

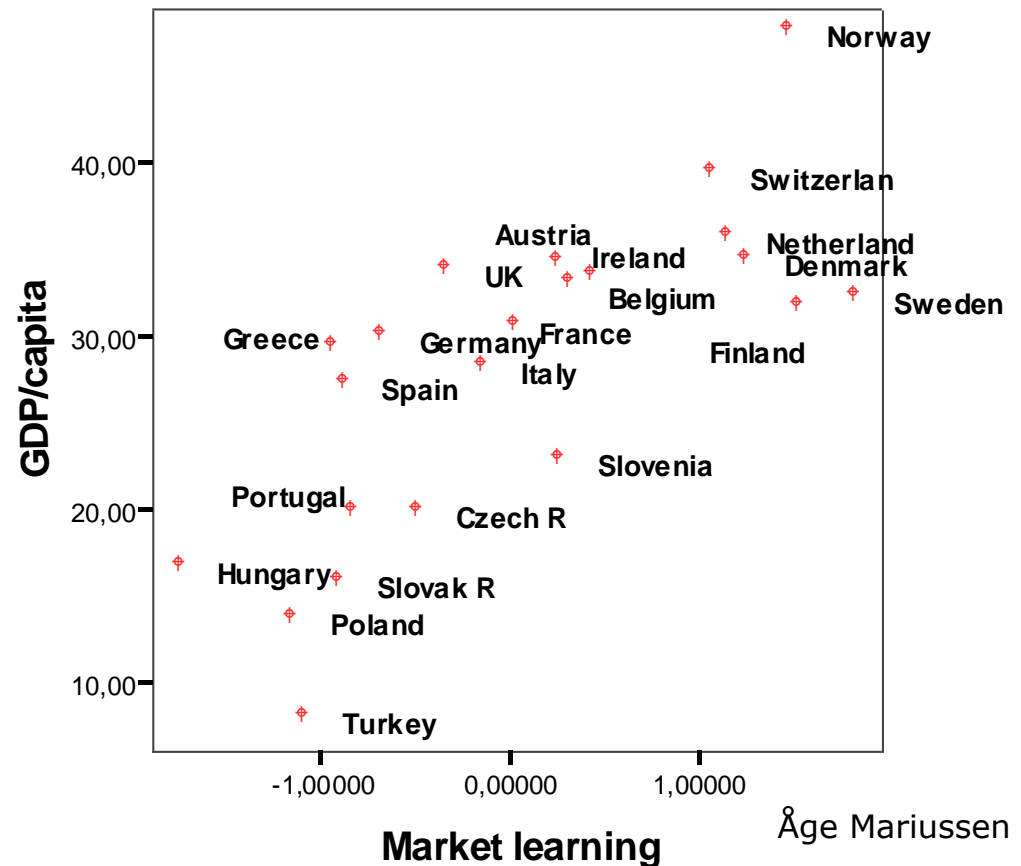


# How the Norwegian anomaly changed our view of innovation



## Europe: market learning GDP/ capita

Source:  
Fourth European Working Conditions Survey  
OECD



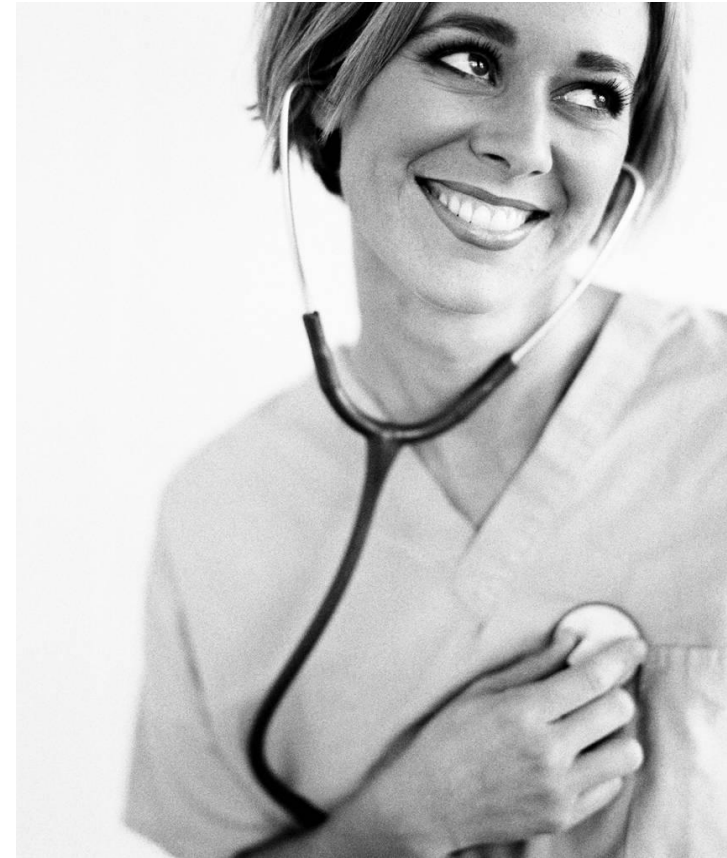
Åge Mariussen

European Working Conditions Survey (Translearn)  
The correlation between GDP and employer autonomy

- A resourced based economy with low R&D investments and the highest wages in the world should not be efficient and sustainable

# Understanding socio-cultural framework conditions

- Economists are missing the point
- They are focusing on stable macro-economic framework conditions
  - Disciplined fiscal policy
  - Competition policy encouraging innovation
  - Low taxes
  - An open economy
  - Austerity
- Socio-cultural framework conditions are ignored
  - Egalitarian culture with high social mobility
  - High wages for blue collar work gives impetus towards innovation (robots, internet banking)
  - High educational levels brings flexibility and labor mobility
  - An efficient public sector helps industry
  - A trustworthy welfare system reduces risk
  - Political and social stability give trust



# What about scientific independence and the critical view?

- The larger the distance between the policy maker and the researcher, the less likely the researcher is to understand governance, and the less relevant the research will be.
- Real independence is displayed through the ability to offer critical analysis and advice
- Researchers need alternative sources of funding
- The research should be exposed to both public and scientific debate

