

R&D for Innovation in the Public Sector in Norway - Overview and Experiences

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Motivation - Broad Impact

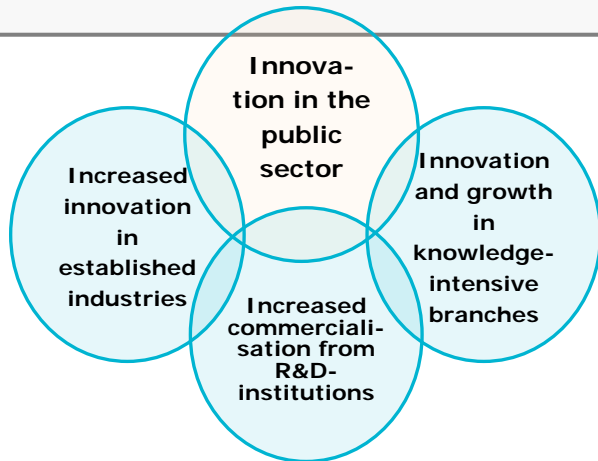
Meet the increase in services and quality, control growth:

- Preparing for the Demography Challenge
- Meeting Rising Expectations of Quality and Quantity of Public Service Production and Deliverance
- Developing the Supplier Sectors for Demanding Governmental Byers at Home and Abroad
- Co-development of Technology, Organization and Co-operation for Work, Business and Services
- Contribution to Renewal of Governance and Democracy in the Global Service Society

Major Investigators & Contributors

 The Research Council of Norway

Research for
Innovation and
Renewal in
Government



PUBLIN



econ
analysis

Innovation
in Services

Research Strategy for eGovernment – Analysis Results

Statskonsult:

Public Institutions Roles in Research and Innovation:

- Autonomous agencies with responsibilities for their own development projects
- Agencies developing strategies for other institutions' development work
- Policy developers for development of private sector through procurement

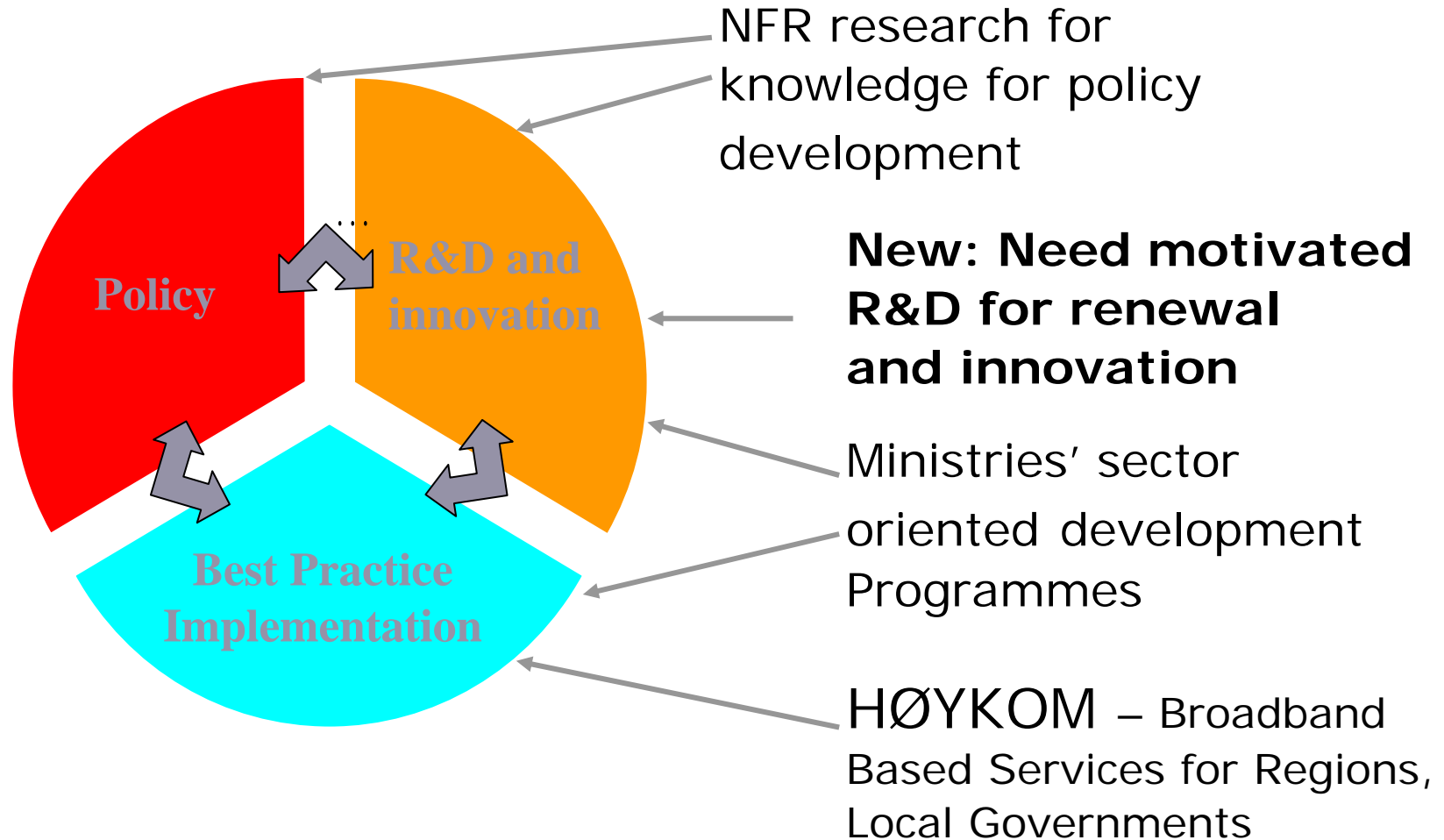
Research Strategy for eGovernment – Analysis Results

- Research as strategic or tactical instrument is not widespread in the Norwegian Public sector
- R&I is often a result of
 - New regulations or a negative change in the budget
 - Evaluations processes
 - Development and introduction of ICT
 - External developments in within the sector, professional methods etc.
- Sector differences seems to be hindrances for innovation and development
- Competance and human resources are often critical factors
- Public institutions do not perceive themselves as entitled to Research support and collaborations

Importance of R&D for innovation

- The Government: Research based innovation is needed for a major shift in efficiency and quality
- New instruments:
 - R&D for quality of service and integration
 - R&D for competence for innovation and renewal focusing
 - eGovernment
 - Efficiency for sustainable governance
 - Supporting the European arena for R&D for innovation
- Develop existing instruments:
 - Research for knowledge for policy development, focusing Europe in change, welfare, citizenship and democracy, migration and integration and more

New R&D Challenges Met



2007: An Portefolio of Instruments

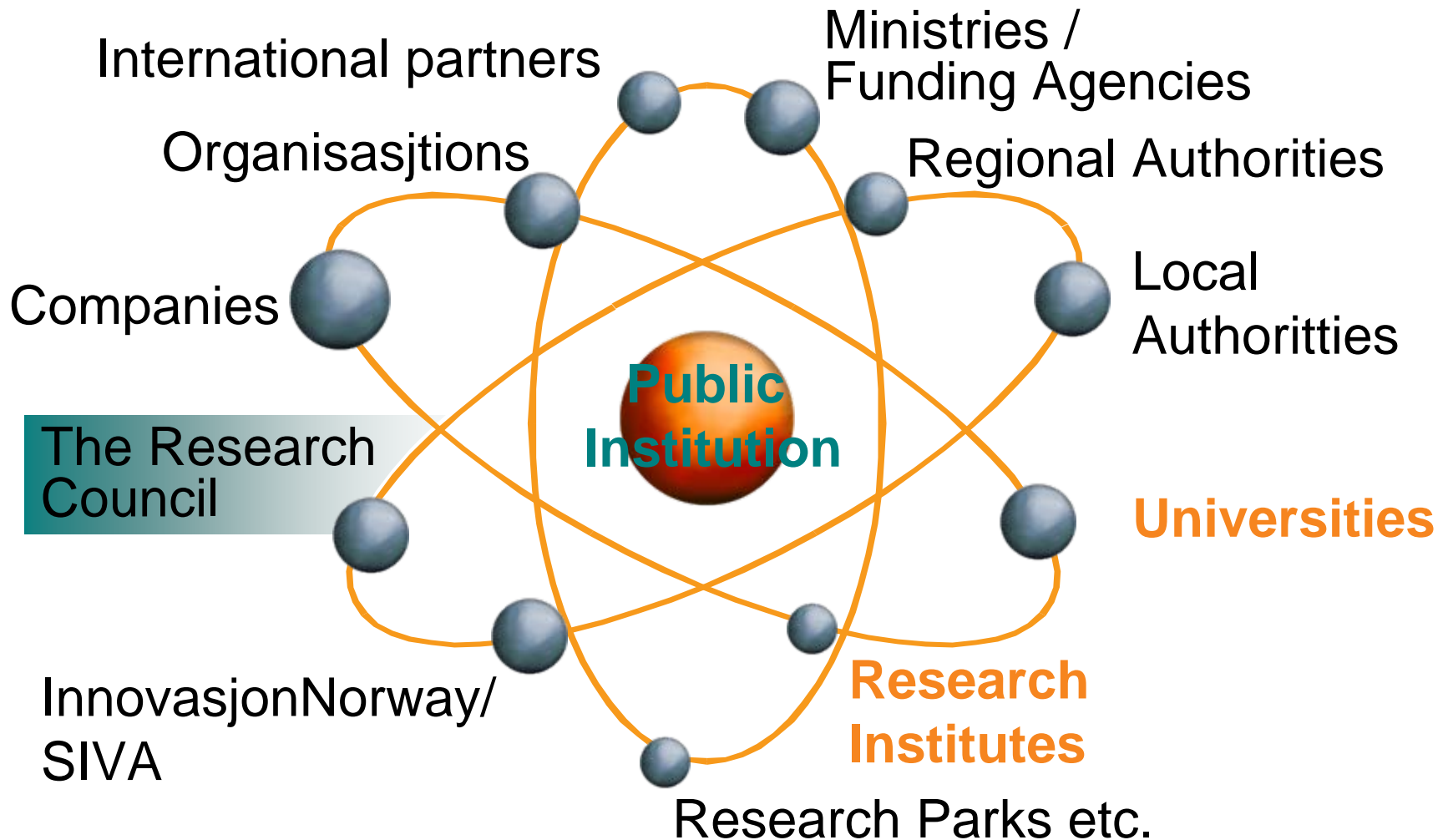
- Research Instruments
 - FIFOS / VIOS
 - VERDIKT
 - IKTSoS
 - SFI
 - ITFunk
 - PES
 - For Suppliers: OFU, BIA, SkatteFunn
- Related Instruments
 - HØYKOM
 - EU-virkemidler



Funding

- Norwegian ministries:
 - Ministry of Education and Research
 - Ministry of Local Government and Regional Development
 - Ministry of Trade and Industry
 - Ministry of Transport and Communications
- EU's Framework programmes
- Research Council of Norway

To Organise Research and Innovation for eGovernment → *Partnership and Cooperation*



Esearch for Innovation and Renewal of Government at All Levels - FIFOS

- 3,5 mill NOK for 15 preprojects in 2007
- Kick-off for internal coordination efforts in RCN
- eGovernet CA project running
- Follow up of analyses:
 - Internal coordination committee
 - Strategies and Renewal Plans (Statskonsult)
 - Services Procurement (econ)
 - Internal hearing
- Evaluation processes for FIFOS

Kunnskapshull,
FoU-behov og
koordinerings-
utfordringer

FIFOS – The New eGovernment Preprojects

eForvaltning: Interorganisatoriske systemer og tverrsektorielt samarbeid	Jansen, Arild	Det juridiske fakultet
eGovernment Indicator Research	Snaprud, Mikael Seniorforsker	Høgskolen i Agder
Open Platform to create and share learning materials	Snaprud, Mikael Seniorforsker	Høgskolen i Agder
IT-støtte for lovsaker: behov, problemer og muligheter	Schartum, Dag Wiese Professor	Det juridiske fakultet
Knowledge and Innovation: The quest for a innovative edge in the public sector	Arntzen, Aurilla Aurelie Førsteamanuensis	Høgskolen i Hedmark
Bedre Interkommunale Brannvesen gjennom IKT Integrert system for branntjenester (BIBIKT)	Berntzen, Lasse	Re kommune
KUNNE Forvalte forprosjekt	Breunig, Karl Joachim Forsker	SINTEF - Oslo

HØYKOM: Projects since 1999

■ In numbers:

- 416 projects
- 76 active
- 999 applications

■ Resources allocated:

- 388 mill NOK in support
- 1 057 mill NOK total budgets
- 3 162 mill NOK in need

■ Extensive Breath:

- 200 Local Authorities (of 417 has applied)
- Over 100 Local Authorities supported
- 70 national agencies supported



HØYKOM

PROGRAM FOR TILSKUDD TIL HØYHASTIGHETSKOMMUNIKASJON

PR. PROSJEKTR. : PR. GEOGRAFI

ALLE PROSJEKTER

Antall prosjekter: 358

3135/240	Serviceportalen for Vardo kommune
3133/240	Fleksibel læring i Finnmark - en kompetent region
3130/240	Emnekartteknologi og fullført elektronisk saksbehandling på eServiceorget i Hømedal i samarbeid med statlige aktører
3122/240	ORKIDÉPORTALEN - En felles inngangsportale for samarbeid og service på Nordmore
3119/240	Visualisering av geodata i 3D-terrengmodell på Web
3118/240	Integrerte kommunale tenesteportaler i Sogn og Fjordane
3104/240	eElev i Fosanger kommune



HØYKOM *fyrtårn*

per sone sensitive løsningar

FYRTÅRNSATSINGEN VIDEOPILMER OM HØYKOM HØYKOMPR

Fyrtårn

- 1 Multimedia arbeidsverktøy for skoleelever
- 2 Digital signatur åpner nye muligheter
- 3 Høgskole også i små kommuner
- 4 Røntgenekspertise tilgjengelig via bredbånd
- 5 Fiber til alle i kommunen
- 6 Pedagogisk verktøykasse på nett
- 7 Effektiv e-forvaltning i Follo
- 8 Smarte kommuner i Rogaland
- 9 Pasienten i Alta - legen i Tromsø
- 10 Lag på lag med elektroniske kart
- 11 Den norske filmarven tilgjengelig for alle

FYRTÅRNHYTT

23.02.2005 Høykoms fyrtårnsatsing videreføres i 2005

KALENDER (KURS OG SEMINARER)

13.04.2005 Fra lektøret til lysfart

HØYKOM -SISTE NY

2005-03-02 Bredbåndsanvendelse

Collaborations and Successes

- Participation in FP5, FP6 eGov-initiatives
- Service-related R&D programmes: Local initiatives, 24/7 service, ALTINN, [Brønnøysund Registers Center](#), [Telemedicine](#)
- R&D programme: "Research for Innovation and Renewal in Public Sector" ([FIFOS](#))
- ICT-related R&D programmes: eHealth, tax form on the net, "Space", [eProcurement](#)
- With 'Innovation in Private Sector': Mobilizing Industry
- With *InnovationNorway*: Governemental R&D Partnerships and R&D in PPP
- RCN in-house collaboration: "Partnership R&D for Innovation in Public Sector" ([VIOS](#))



Fra forskning til produkt

Ideer fra flere miljøer, workshop i NFR regi



LAVA Læring
3-årig forskningsprosjekt

14 partnere
12 mill NOK
Puls-programmet/
Norges forskningsråd



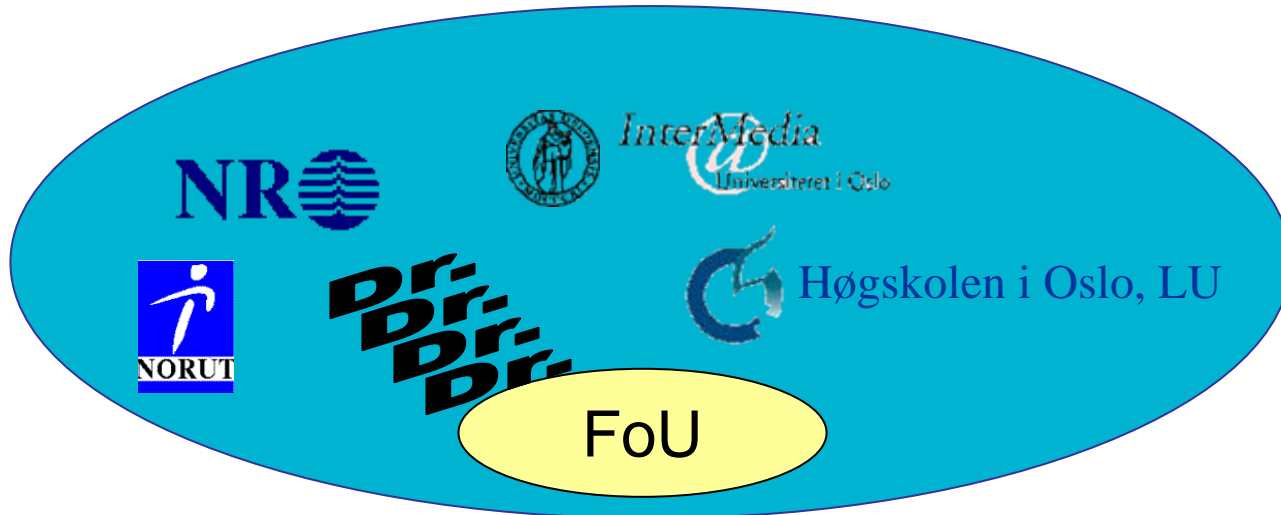
PIBB
1-årig produktutviklings- og uttestingsprosjekt

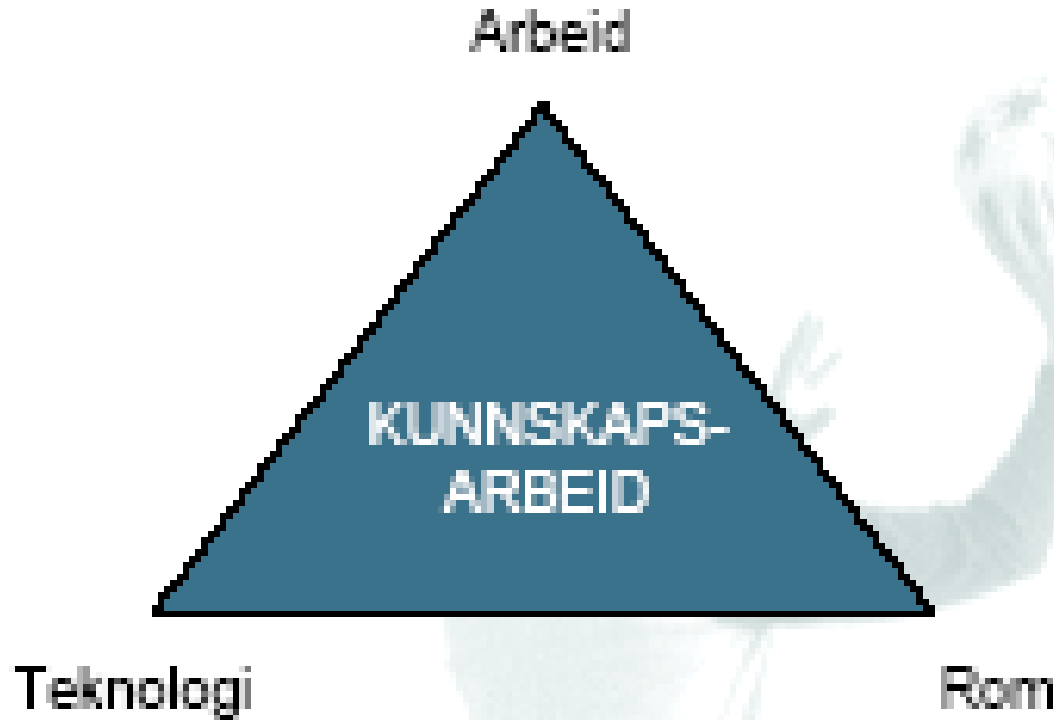
10 partnere
3,5 mill NOK
Høykom



ProjectLink
Produkt/tjeneste til skolene

Gratis produkt/tjeneste til norske skoler
Internasjonal profilering
Kommersielle muligheter





KUNNEarbeid i dagens

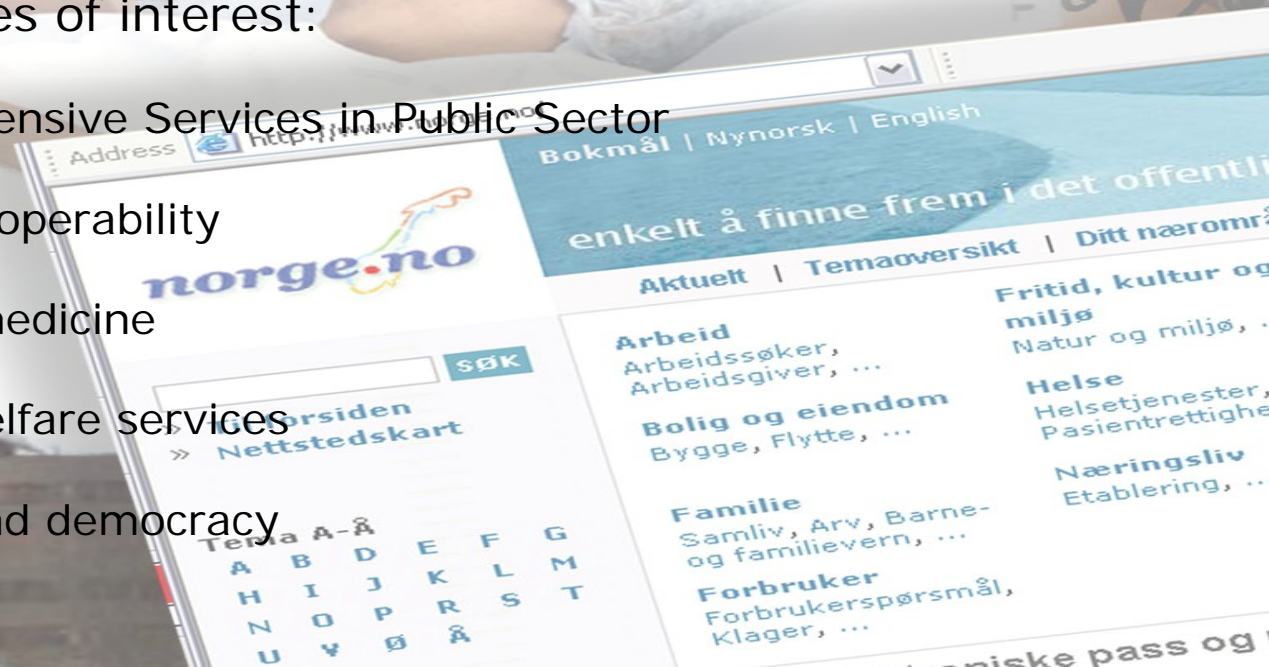


KUNNE in numbers

- 1997 – 2006 –
- Approx. 50 companies, more than 70 cases
- NOK 150 mill., 2/3 from the companies and 1/3 from the Research Council
- 15 PhDs
- More than 100 scientific publications
 - 2 books, more than 20 papers in reviewed journals
- More than 50 new methods/models/prototypes
- www.kunne.no
 - Near 2000 visitors and 1000 downloads of publications per month (average 2005)
- 120 other publications, a large number of dissemination activities
 - Hosted 12 KUNNE Kaviar

Suggested Main R&D foci

- Mapping, analysis of instruments, programmes and strategies
- Identifying and coordination of complementary foci of different partners/stakeholders
- Establish framework for coordination between national programmes and EU FP instruments
- Some experiences of interest:
 - Knowledge Intensive Services in Public Sector
 - Semantic interoperability
 - eHealth, Telemedicine
 - Sustainable welfare services
 - Governance and democracy



Conclusion

- Establish R&D for innovation and renewal of government
- Co-ordinate programmes and results relevant for renewal and innovation
- Learn from R&D in services
- Establish partnerships for interdisciplinary R&D
- eGovernment, eHealth, eServices
- International exchanges

".... public sectors need to move towards an innovative e-government. Today, it is well acknowledged that knowledge and its management are the drivers fostering innovation in the public sectors. There are many KM initiatives but the common challenge resides in achieving a synergy by integrating people, processes and technology."

Knowledge and Innovation: The Quest for an Innovative Edge in the Public Sector, Aurilla Aurelie Arntzen