

STI-roadmaps for the 21st century and the Sustainable Development Goals

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RESEARCH FOR INNOVATION AND SUSTAINABILITY

STI Roadmaps for SDGs – paving the pathways for sustainable recovery and future resilience



Total R&D expenditure
in Norway:

7 billion €



R&D as share
of GDP:

2,06%



The Norwegian Government's follow-up of the SDGs



- The follow-up of the individual SDG is assigned to specific ministries
- The SDGs are an integral part of the Government's Long-term plan for research and higher education
- R&D is vital in realising Norway's commitment to Agenda 2030
- Sustainable development is a focal point of the Research Council of Norway's new strategy 'Empowering ideas for a better world'



Empowering ideas for a better world

Strategy for the Research Council of Norway
2020 – 2024





OBJECTIVES



STRATEGIC AREAS



A well-functioning research and innovation system



The Research Council will target its efforts to promote:

- Increased international research and innovation cooperation to address global societal challenges in areas where Norway is particularly well-equipped to make a difference
- Pioneering research and innovation efforts for sustainability across subject fields, sectors and funding sources
- Reorientation of research and innovation efforts in the five strategic areas in a more sustainable direction

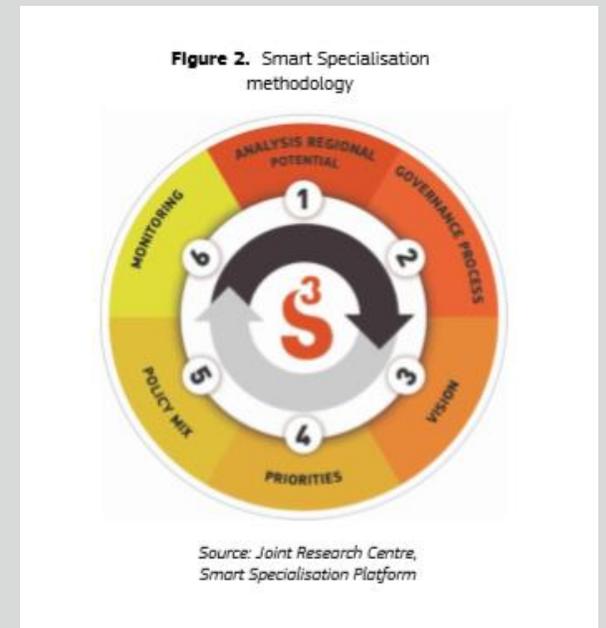
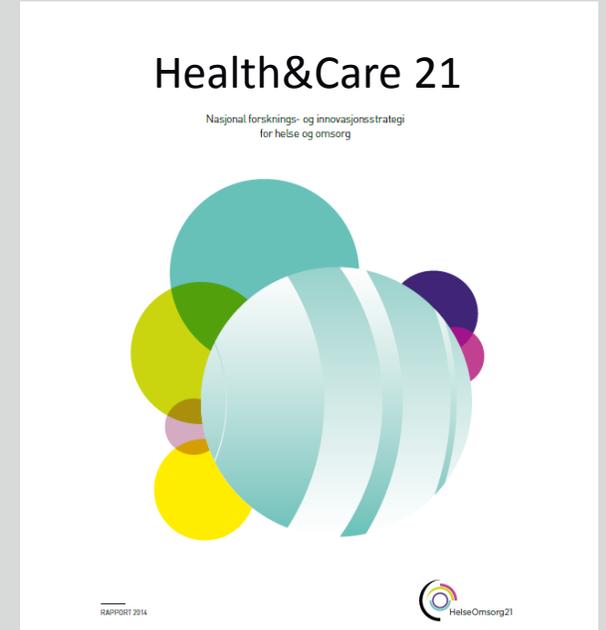




STI roadmaps for the 21st century

Deciding on the pathway ahead together

- Aligning funding and actions
- After jointly agreeing on the path ahead



Source: Joint Research Centre, Smart Specialisation Platform



Top-down policy and bottom-up engagement

An actor-driven

- national strategy work for research and innovation initiated by
- the government or a ministry to
- promote research-based value creation and development in
- important areas of society

Developing the roadmap

- Building on existing knowledge, status and tools
- point out new needs for knowledge and development in the relevant area
- perceive research, education and innovation in context
- facilitate new and better interaction between research and users of research
- ensure an holistic approach

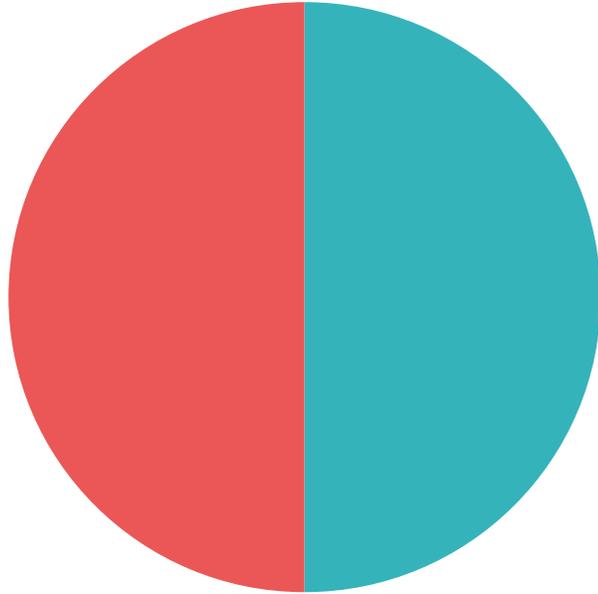




Public health expenses

50%

Primary health care services



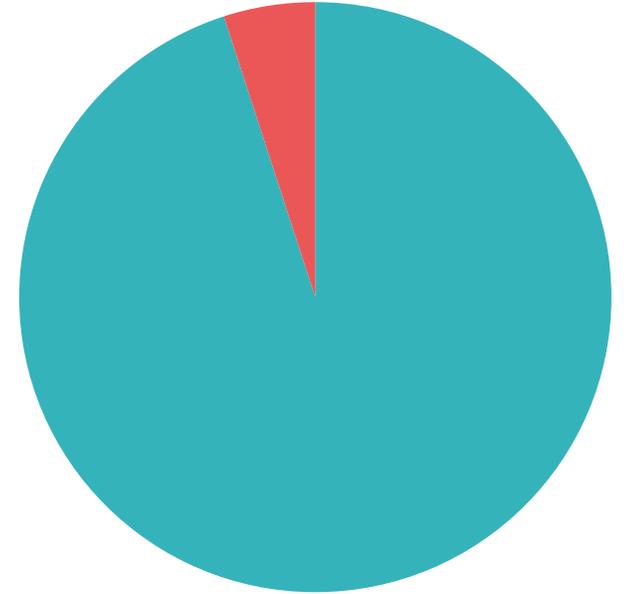
50%

Specialist health care services

Health research expenses

10%

Primary health care services



90%

Specialist health care services



10 strategic priorities:

- Increased user involvement
- The health care industry as an industrial policy priority
- Knowledge mobilisation for the municipalities
- Health data as a national comparative advantage
- Improved clinical interventions
- Efficient and effective services
- Meeting global health challenges
- Increased, high quality internationalisation
- Development of human resources
- Strategic and evidence-informed governance and management

Health&Care21

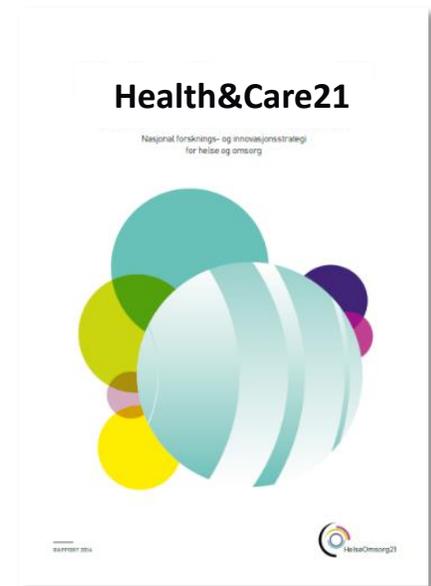
ET KUNNSKAPSSYSTEM FOR BEDRE FOLKEHELSE

Nasjonal forsknings- og innovasjonsstrategi
for helse og omsorg





Implementation: Aligning efforts and funding

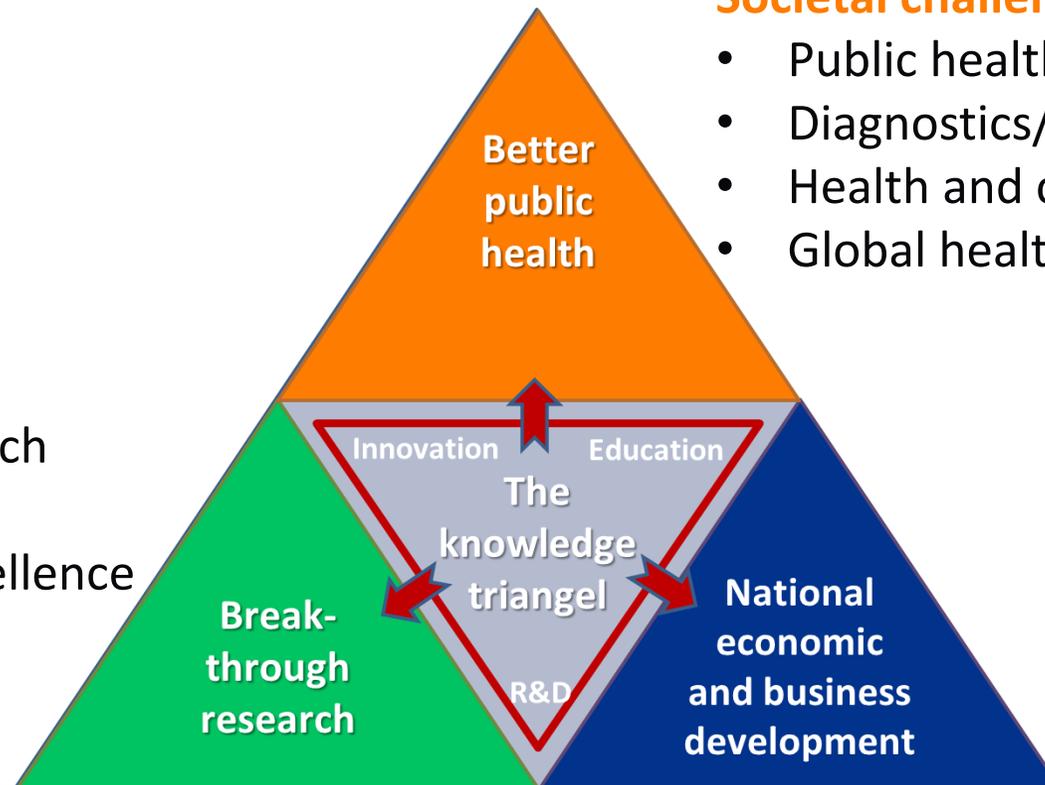


Societal challenges

- Public health
- Diagnostics/treatment/rehab.
- Health and care services
- Global health

High quality

- Frontier research
- Young talents
- Centers of Excellence
- Research infrastructure



Health industries

- Biotech, nanotech, ICT
- E-health, pharma, diagnostics, medtech, welfaretech
- Commercialisation
- Tax incentive scheme



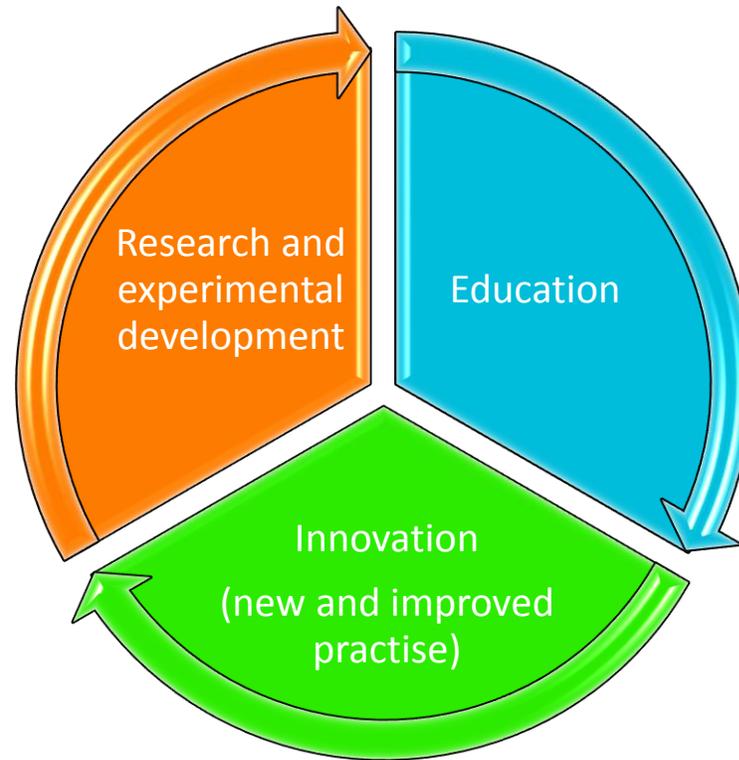
Vulnerable children and youth





New STI Roadmap initiative - ChildrenYouth21

A knowledge system for improved efforts towards vulnerable children and youth



- **Research** that supports practice, education and innovation
- **Education** for knowledge-based, coordinated and user-oriented practice
- **Leadership** for knowledge-based, coordinated and user-oriented practice
- **Use** of knowledge in **practice**



Key take-aways

- **Top-down policy** – crucial for governmental backing and public allocation of resources
- **Bottom-up engagement** – crucial for aligning interests/resources and securing implementation
- **Create systemic and structural change** – to ensure resilience and better preparedness





Empowering Ideas for a better World

Thank you!

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