

Ministry of Petroleum and Energy

The international challenge for the Norwegian Petroleum Cluster

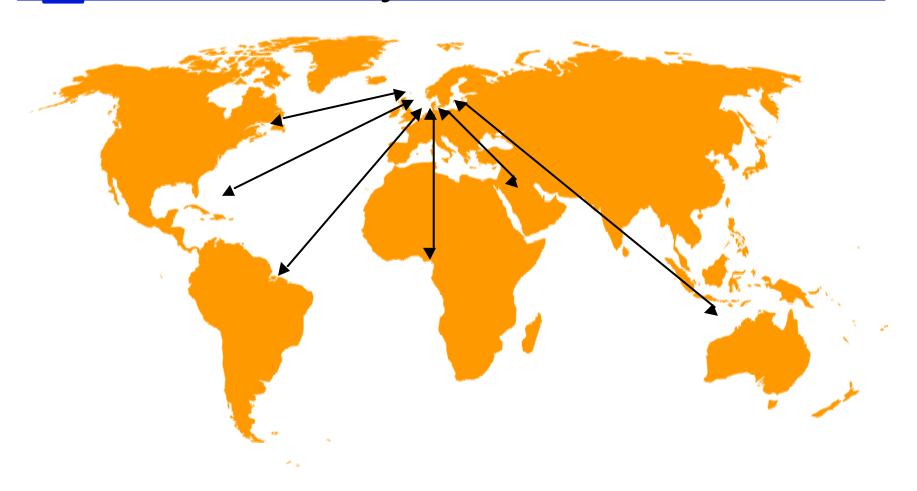
The Annual Conference on Internationalization, Innovation and R&D in the Petroleum Sector.

Stavanger, December 3 - 4, 2002.

Einar Steensnæs, Minister of Petroleum and Energy



An International Industry - One Market





Three Important Issues

- → The international challenge for the Norwegian petroleum sector
- → Socio-cultural understanding and business practices
- → How to get from ideas to commercial products and services

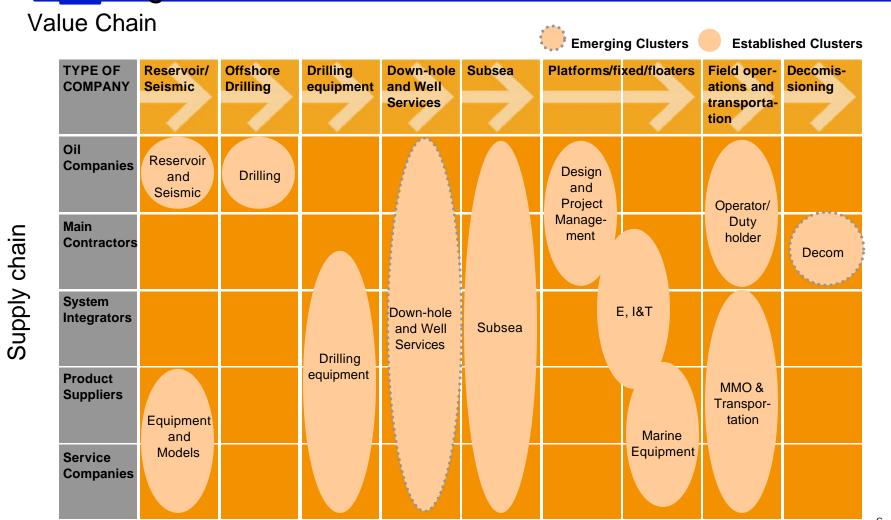








Norwegian Oil & Gas "World-Class" Clusters



Source: Intsok



Three Challenges

- → The Market Challenge
- → The Technology Challenge
- → The Customer Challenge





The Market Challenge

- → The market challenge seen from a Norwegian point of view
 - 1. Mature markets







2. Developing markets







3. Markets under observation















The Technology Challenge

→ The technology challenge

Technology is the single most important factor for the Norwegian oil and gas industry in order to:

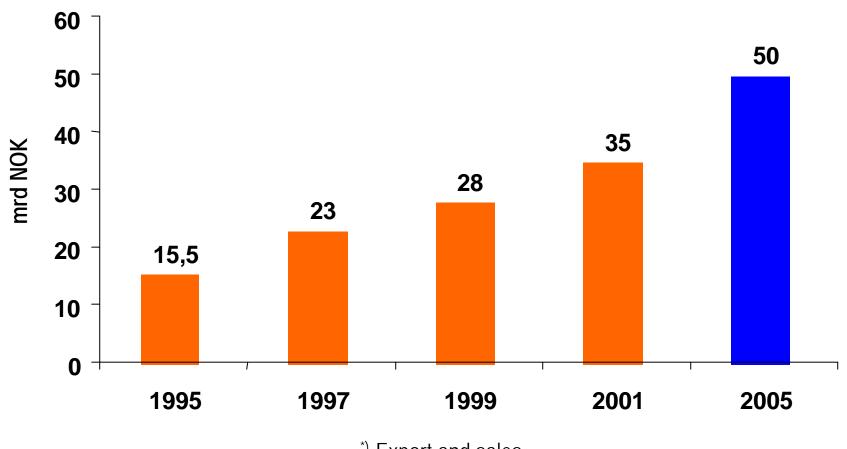
- reduce costs
- strengthening international competitiveness, and
- facing future challenges!



Source: FMC



International Sales by Norwegian Oil & Gas Suppliers*



*) Export and sales

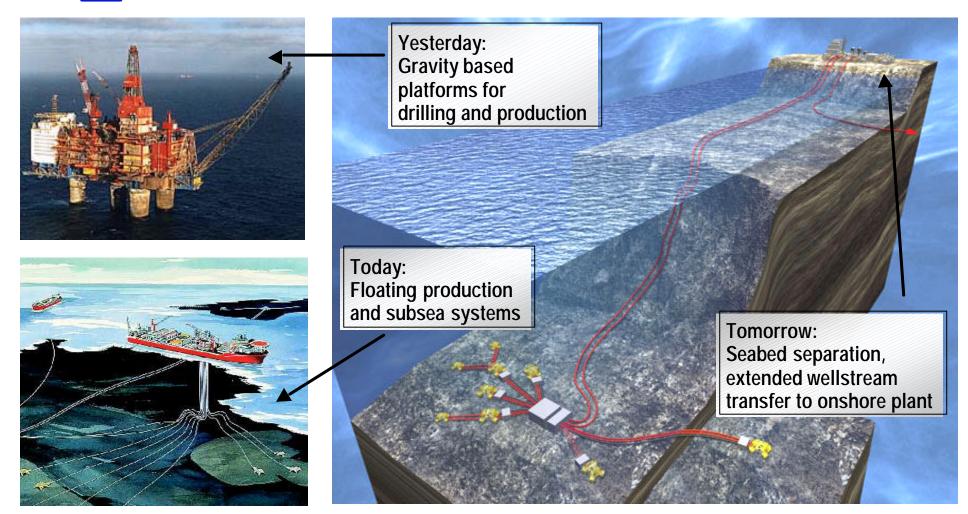
Source: SNF 2002 / Intsok



Ministry of Petroleum and Energy

Technolocigal Leaps





Source: Demo 2000 / Hydro





OG21 - National Technology Strategy

5 Focus Areas

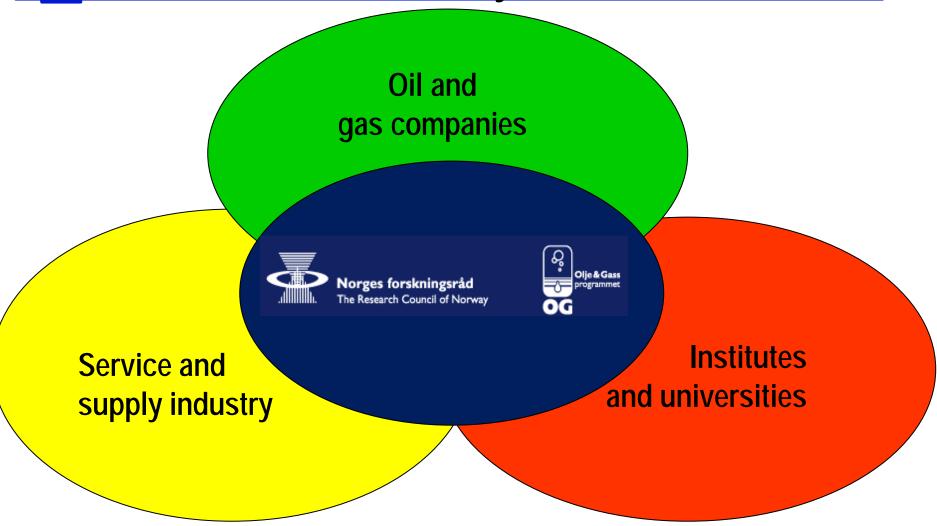
- Environment
- Increased Recovery
- Deep Water
- ·Small Fields
- ·Gas Value Chain

9 Technology Targets

- Zero harmfull discharge to sea
- 30% red. emmisions to the atmosphere
- Stimulated recovery
- Cost effective drilling
- Real time reservoir management
- Deep water floating technology
- Long range transport of well stream
- Seabed and downhole processing
- Competitive gas production and offtake



The Research Council of Norway





The Customer Challenge

- → The Customer Challenge
- National oil and gas companies
- Governmental organizations
- Local suppliers
- International oil and gas companies
- International contractors
- Major construction yards



Source: Hydro



Corporate Social Responsibility

The Norwegian government supports
Statoil, Norsk Hydro and the Norwegian supply industry when they engage in business abroad.

We do expect them to take political, social and environmental issues into account when doing so.





Conclusion

"... an excellent foundation for supplying the international market with Norwegian competence and technology on a competitive basis"







