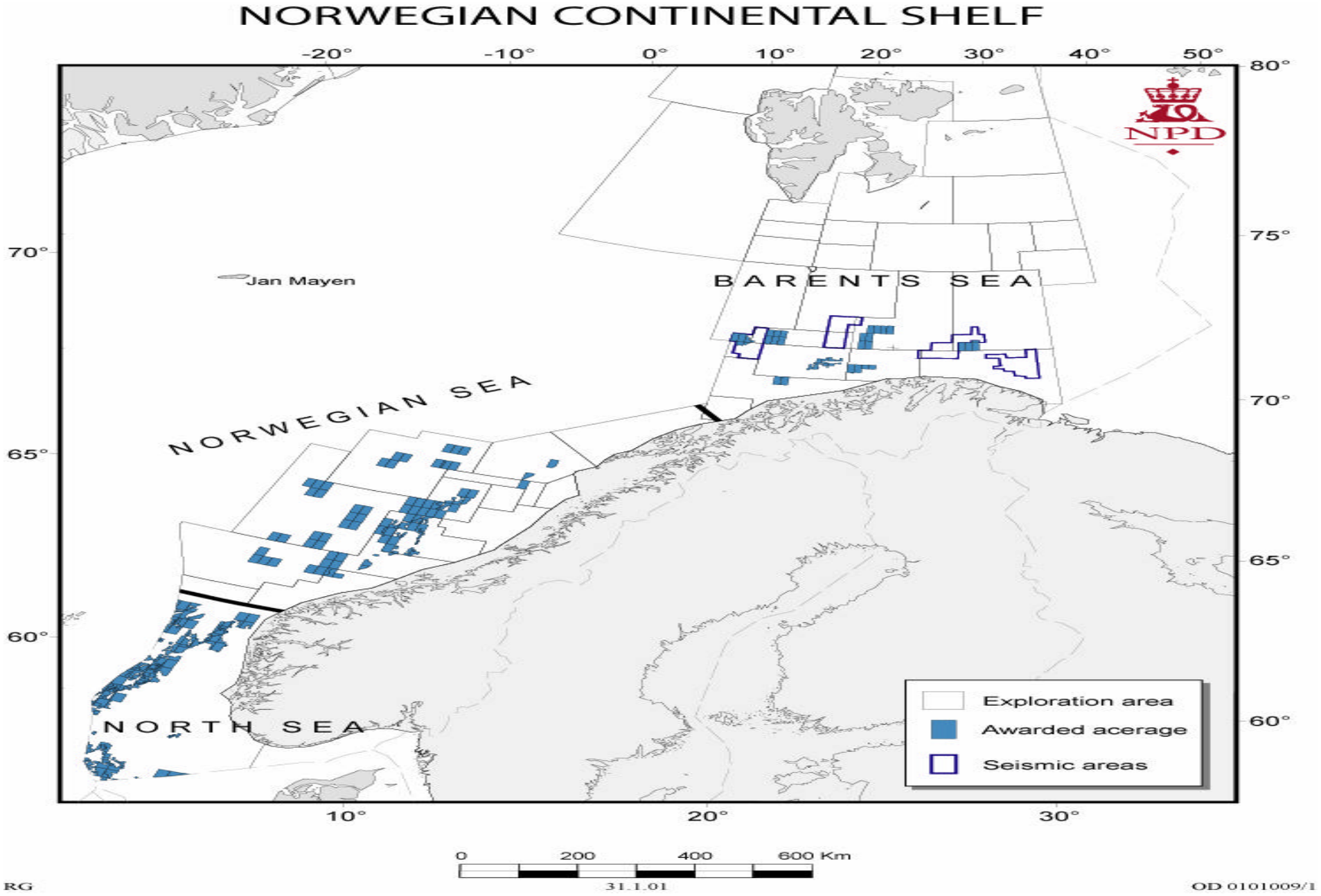
OLJE- OG ENERGIDEPARTEMENTET

Ministry of Petroleum and Energy

Petroleum Resource Management

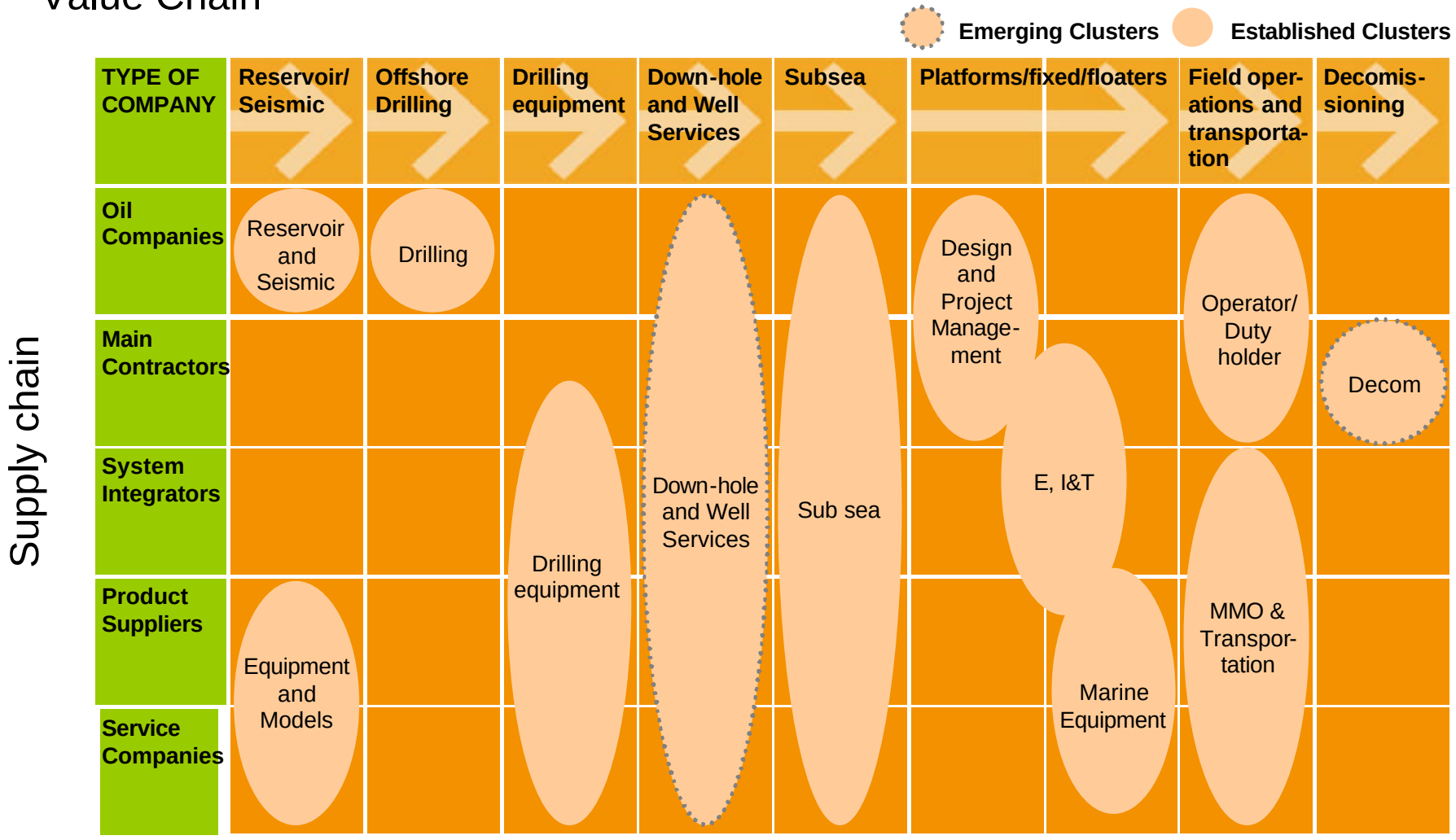
Einar Steensnæs
Minister of Petroleum and Energy

Losby gård 03/04/03


NORWEGIAN CONTINENTAL SHELF
-20°
-10°
0°
10°
20°
30°
40°
50°
80°
75°
70°
65°
60°
Jan Mayen
BARENTS SEA
NORWEGIAN SEA
NORTH SEA
NPD
Exploration area
Awarded acerage
Seismic areas
0
200
400
600 Km
RG
31.1.01
OD 0101009/1

Norwegian Oil & Gas "World-Class" Clusters

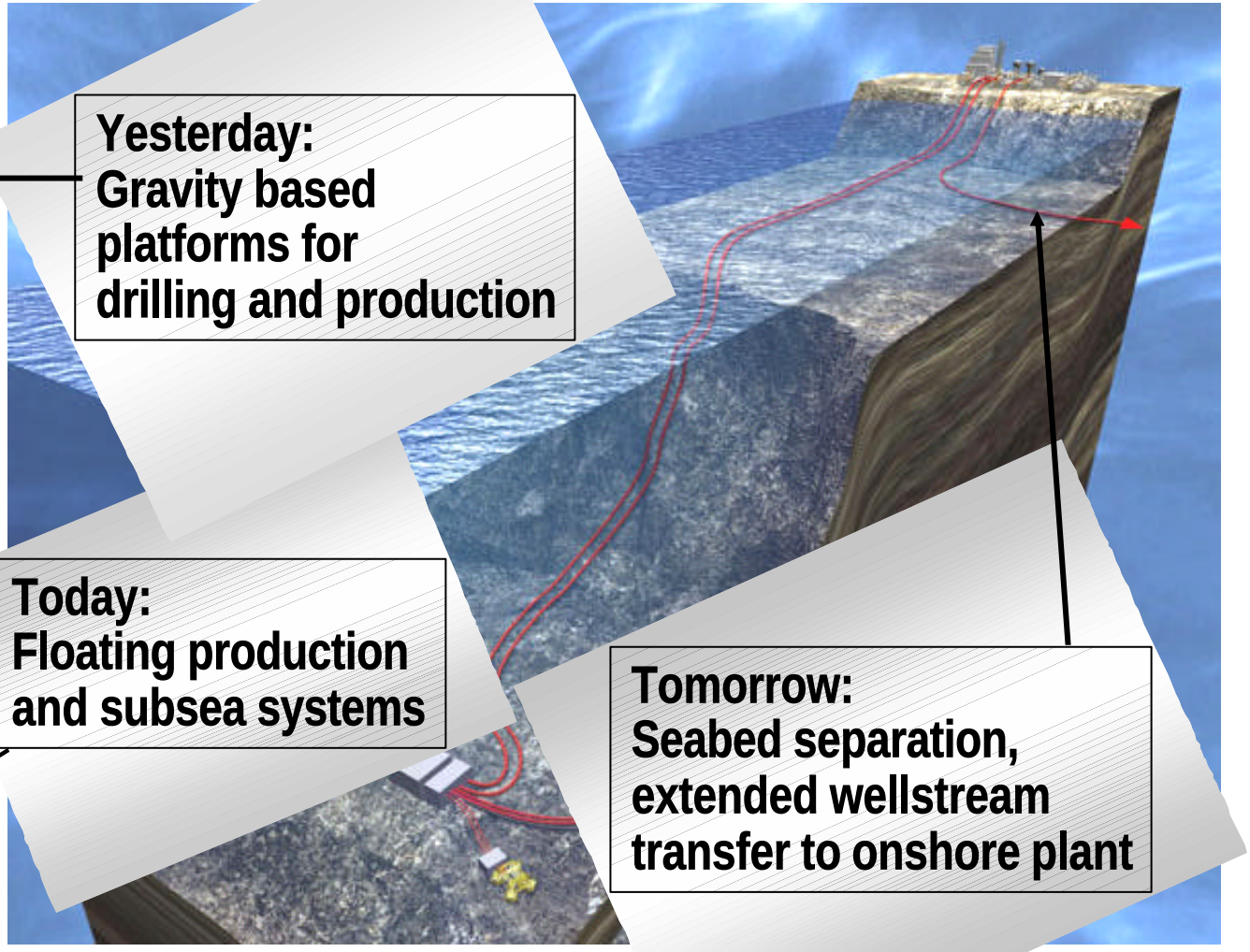
Value Chain



Source: Intsok

Subsea technology

Yesterday:
Gravity based platforms for drilling and production

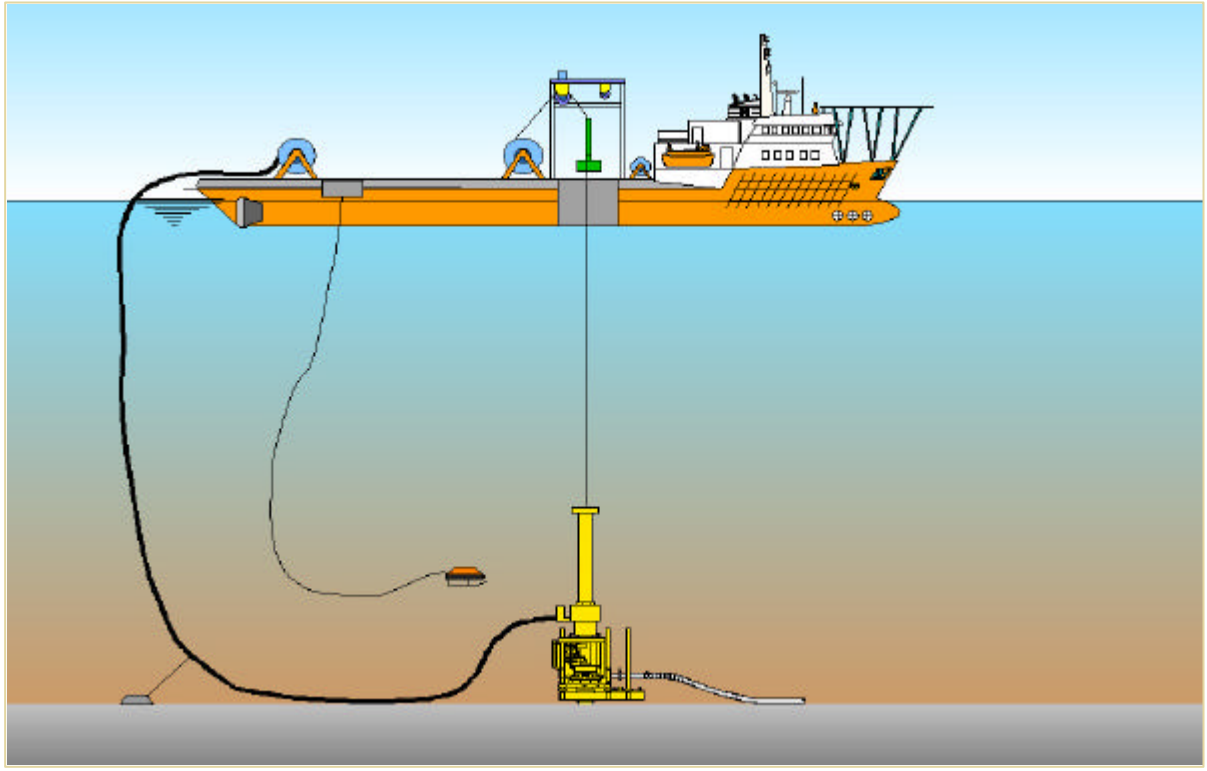


Today:
Floating production and subsea systems

Tomorrow:
Seabed separation, extended wellstream transfer to onshore plant

Source: Demo 2000 / Hydro

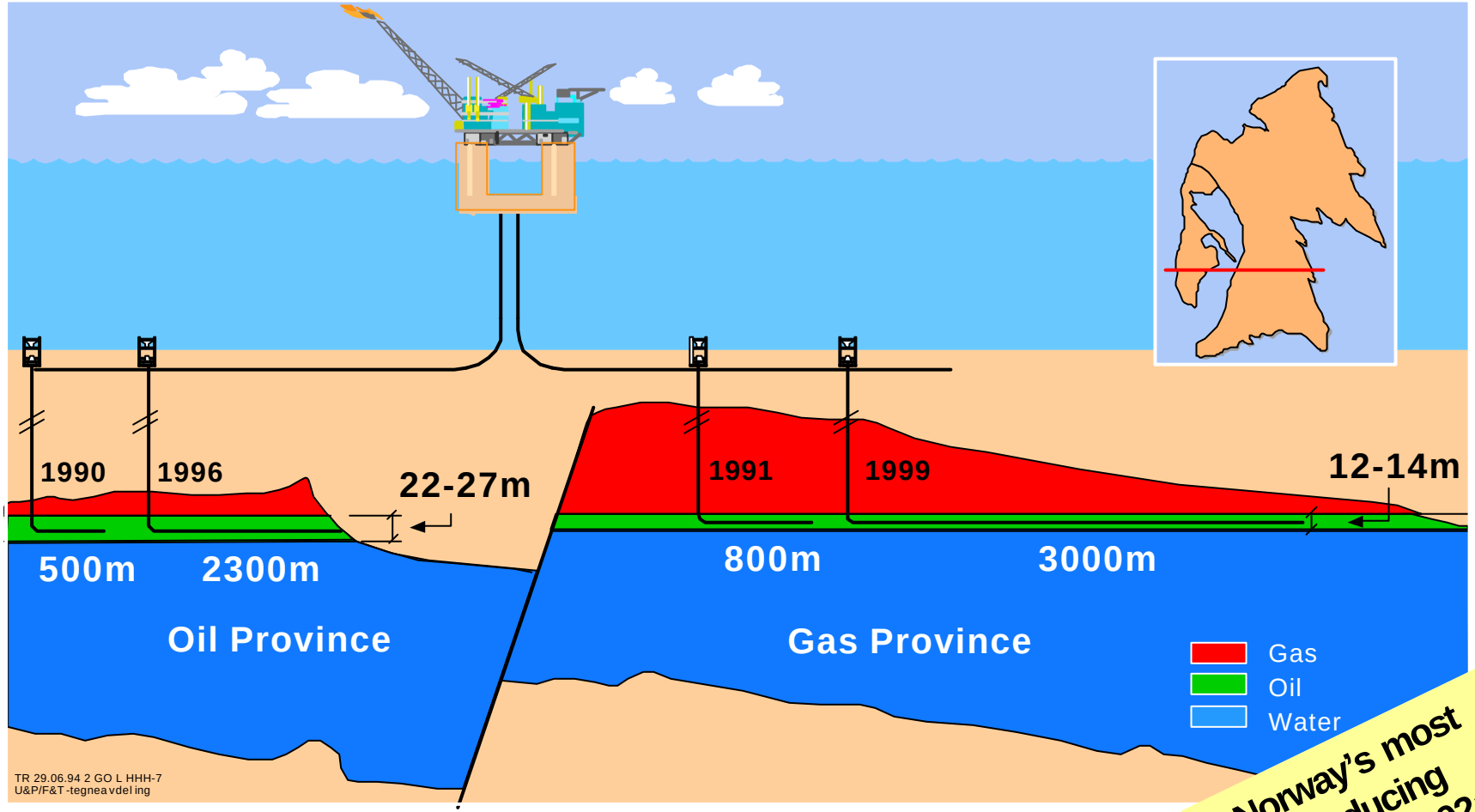
Light Well Intervention



Subsea Wells –

Increased oil recovery potential

Troll - Thin Oil Zones



Norway's most producing oil field 2002:
440.000 b/d

Deeper Waters - Floaters

KON-KRAFT

Unlocking Value Through New Relationships

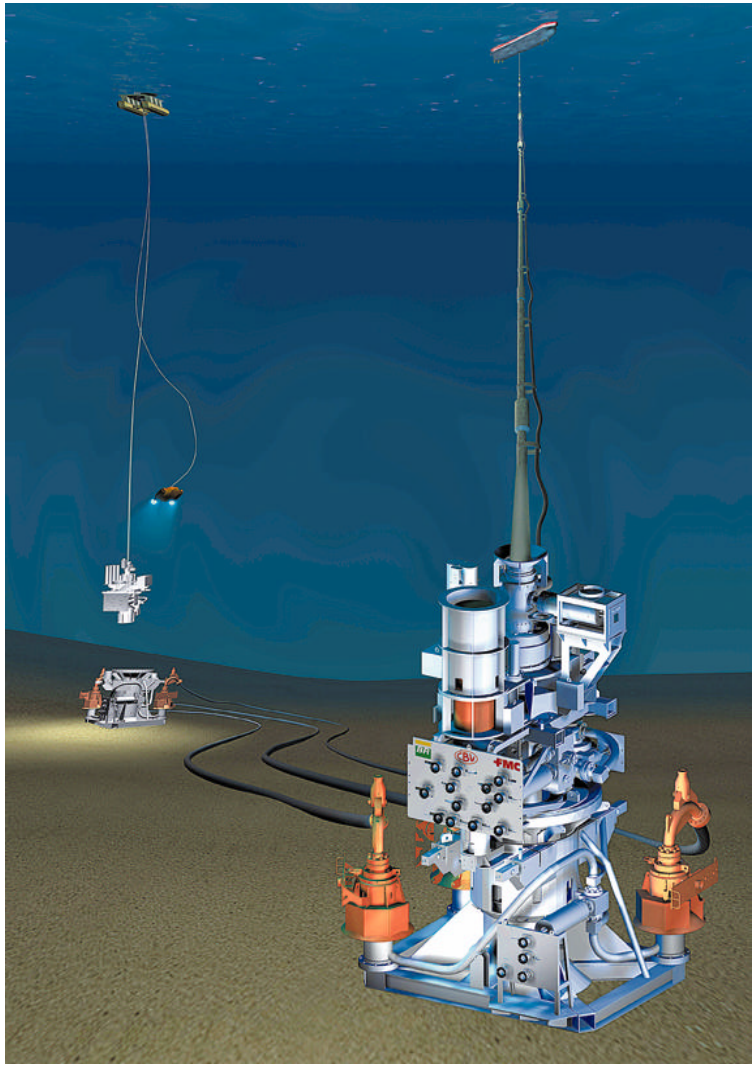
Co-operation and unity as well as competition!

Research & Development

➔ **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

OG21 - National Technology Strategy

5 Focus Areas

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

Vision

- World class competence
- A leading global industry
- The most innovative offshore province in the world

OG21 - National Technology Strategy

9 Technology Targets

1.	Zero harmful discharge to sea	CONOCO/PHILLIPS
2.	30% red. emissions to the atmosphere	SHELL
3.	Stimulated recovery	STATOIL
4.	Cost effective drilling	EXXONMOBIL
5.	Real time reservoir management	BP
6.	Deep water floating technology	NORSK HYDRO
7.	Long range transport of well stream	STATOIL
8.	Seabed and down hole processing	TOTALFINAELF
9.	Competitive gas production and off take	SHELL

Conclusion

1. **Maintaining the NCS as an attractive petroleum province for international players through**
   stable, but
   flexible
   framework conditions

2. **Strong focus on R&D**

Internettadresse – Internet address

- www.oed.dep.no
- www.mpe.dep.no