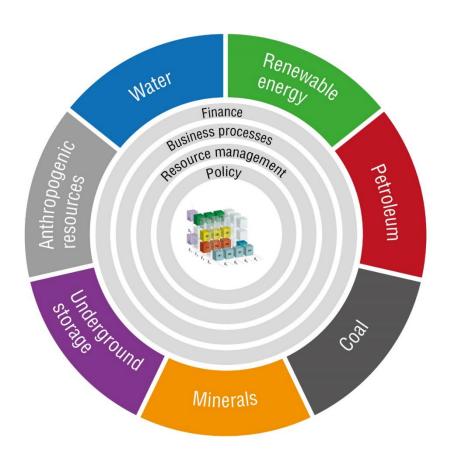
UNFC based resource management

Sigurd Heiberg
Chairperson, Commercial
Applications Working Group

UNFC/UNRMS – current domains of application





Typical Resource Management Decisions

Setting framework conditions that allow industries to deploy their best capabilities for the common good in ways the capital market can finance.



- Emission quotas under the nationally determined contributions
- Legal, regulatory and fiscal conditions
- Strategic and specific environmental and social impact assessments and decisions.
- Strategic access to resources in time and space.
- HSE infrastructures.
- Exploration, development, production and decommissioning.
- Soft and hard Infrastructure development, organization and operation.
- Entity and jurisdictional financial management.
- Logistic and industrial development.

Good decisions require good information - Diskos - Petrobank

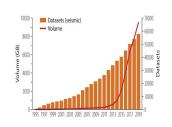
Data submission and online regulated access, common quality assurance, national storage and cyber security.

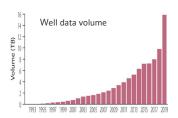
UNECE

- Diskos is a national data repository for exploration and production related data shared by both authorities and oil companies.
- Diskos was initiated and designed by NPD and the oil companies in 1995.
- PetroBank, the software and hardware solution, is currently operated by CGG
- All data is kept and backed up in secure storage facilities in Norway.
- Around 50 members and 40 associated members (non-oil companies and Norwegian universities).

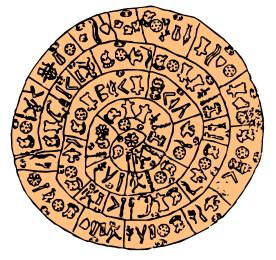
Functions

- Tabular and Graphical user interface
- All available seismic- well- and production data
- Data access according to ownership rights or user rights
- Functionality for data trading among member oil companies
- Removes the need for and cost of company storing of data









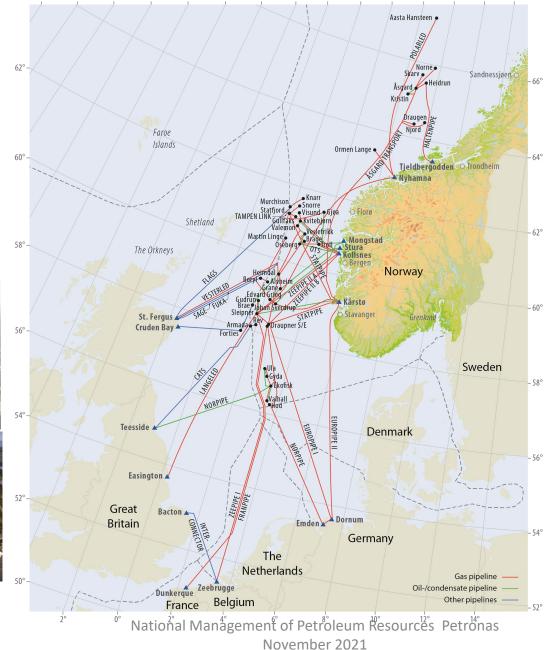
Gas infrastructure development and optimsation

Nyhamna terminal. Source: https://www.shell .com/aboutus/majorprojects/ormenlange/ormenlangeoverview.html



Tjeldbergodden. Equinor photo: https://communic ationtoolbox.equi nor.com/brandce nter/en/equinor/c omponent/default /42130.

Sture terminal, Equinor photo: https://communicatio ntoolbox.equinor.com /brandcenter/en/equi nor/component/defa ult/42130





The Mongstad refinery Equinor photo: https://commu nicationtoolbox .equinor.com/b randcenter/en/ equinor/compo nent/default/4 2130

Picture of the av gas processing plant at Kollsnes (Photo: Øyvind Sætre -Gassco)



Picture of the gas and condensate processing plant at Kårstø (Photo: Øyvind Hagen-Gassco)

Relevant metrics for the NCS

Operating companies submit data and relevant forecasts for their respective operated fields, discoveries, transportation- and utilization facilities



Quantities

- In-place and recoverable volumes
- Low, Base and High estimates

Profiles

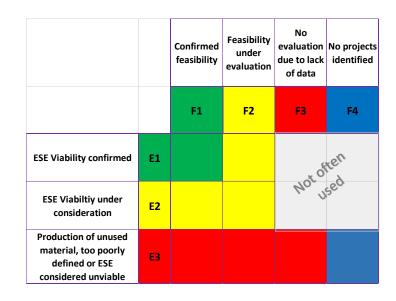
- Production sales profiles
 - •Oil, Gas, NGL and Condensate,
- Costs
 - •Investments, Operating cost, Tariff expenditures

Environmental data

- Emissions (CO₂, NOx, nmVOC, CH₄)
- Background data (Water production, Injection profiles)

Other data

Project attributes for contingent resources, Development concepts, Number of production wells to ne drilled, etc.....



How UNFC works



		Confirmed feasibility	Feasibility under evaluation	No evaluation due to lack of data	No projects identified
		F1	F2	F3	F4
ESE Viability confirmed	E1	E1,F1		Notos	ten
ESE Viabiltiy under consideration	E2			Horn	sea
Production of unused material, too poorly defined or ESE considered unviable	E3				

Category	Definition
E1	Development and operation are confirmed to be environmentally-socially-economically viable.

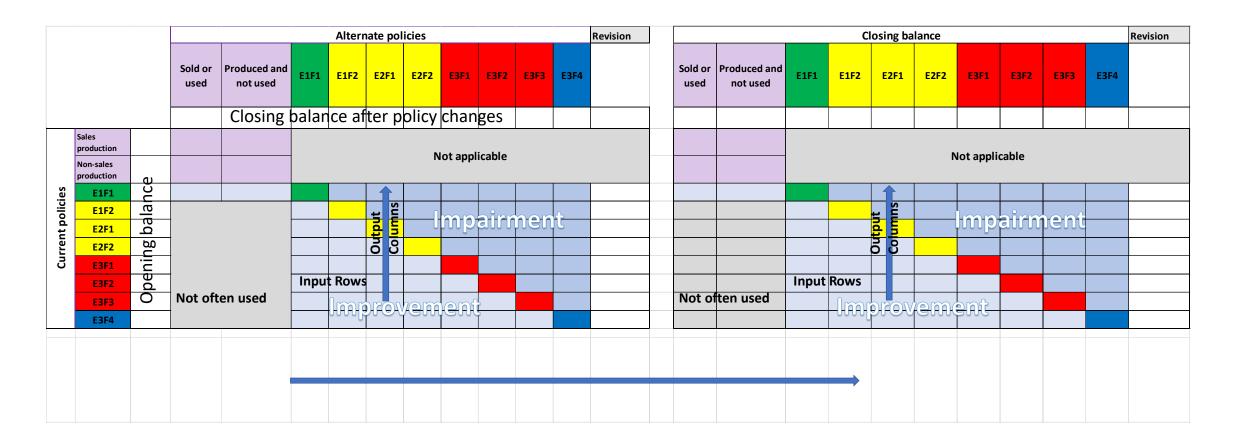
Category	Definition
F1	Technical feasibility of a development project has been confirmed.

UNFC class E1,F1,G

UNFC class 111

Design Structure Matrix Methods for managing individual projects and stocks and flows through integrated project portfolios in realistic circular economic processes





Thank you!

Name Surname

Position

UNECE

Date __ I __ I 2021, Place

