



Joining Forces
Technical Committee (TC)
Improved Exploration

February 2nd 2016



Outline

- ◆ Who we are
- ◆ Projects
- ◆ Are you planning a project?
- ◆ Important factors ?



Improved Exploration

- ◆ Focus area for research and technology development within FORCE.
- ◆ The goal is to stimulate experience exchange and competence building to achieve more oil and gas discoveries on the NCS.
- ◆ The work is organized through: Technical Committee, Network groups and Project groups.
- ◆ We have a strong desire to encourage and support research projects



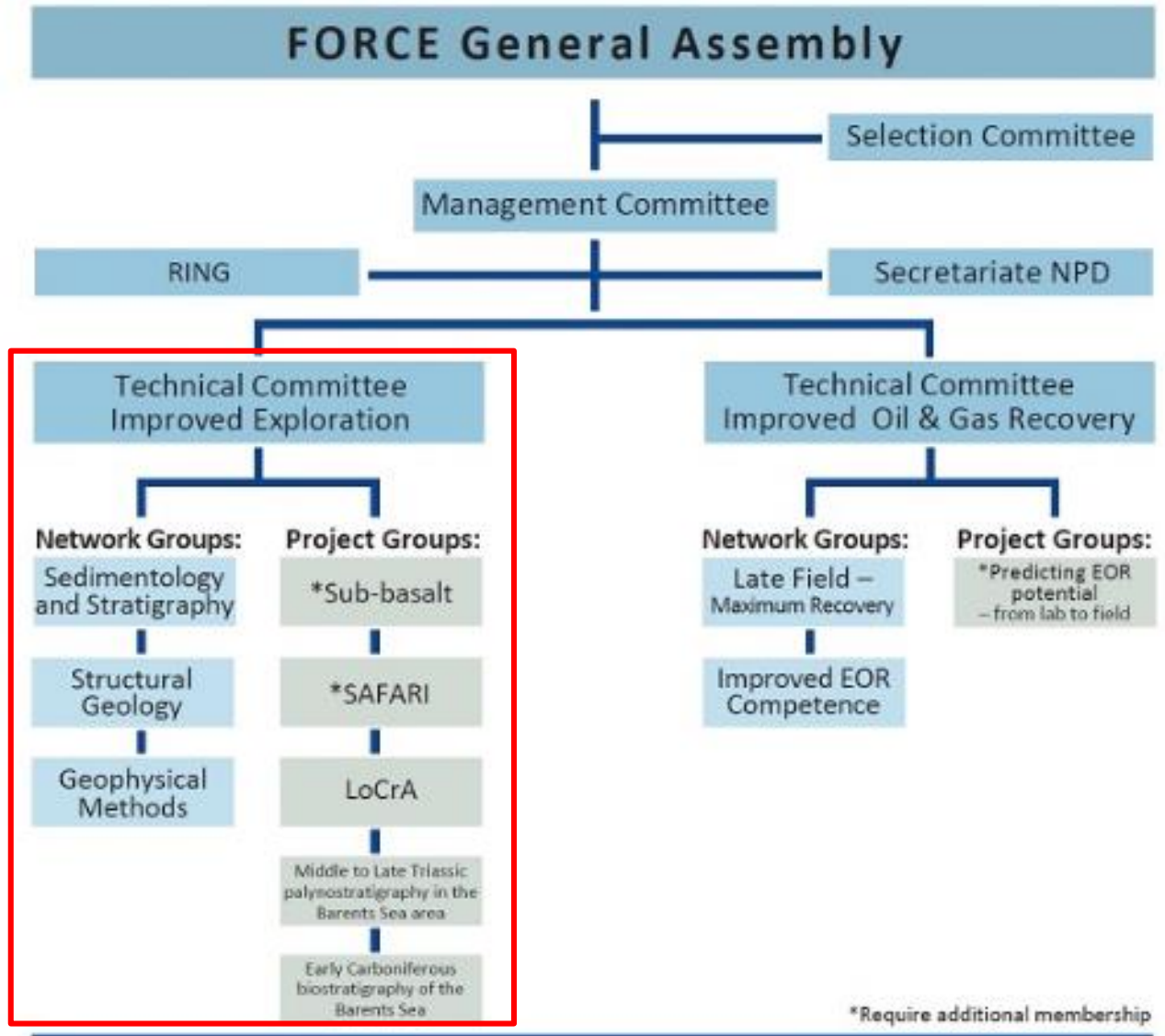
Who we are

Members

- ★ Chairman: Laila Elisabeth Pedersen, Suncor Energy Norge AS
- ★ Vice chairman: John Berry, BP Norge AS

Company	Name	Email-address
E.ON E&P Norge AS	Chris Parry	Log in to see address
Eni Norge AS	Filippos Tsikalas	Log in to see address
Faroe Petroleum	Ine Gjeldvik	Log in to see address
NPD	Janka Rom	Log in to see address
BP Norge AS	★ John Berry	Log in to see address
Suncor Energy Norge AS	★ Laila Elisabeth Pedersen	Log in to see address
Tullow Oil Norge AS	Per Avseth	Log in to see address
A/S Norske Shell	Rodmar Ravnås	Log in to see address

- ❖ Geophysical Methods Network - Chairman: Tim Austin, ConocoPhillips
- ❖ Sedimentology and Stratigraphy Network – Vice Chairman: Atle Folkestad, Statoil
- ❖ Structural Geology Network - Chairman: Sidsel Kruse Lindsø, Suncor



Improved Exploration - Projects

Active projects

- ◆ LoCrA
- ◆ Safari 3
- ◆ Late Triassic Palynostratigraphy Barents Sea
- ◆ Carboniferous Biostratigraphy Barents Sea
- ◆ Sub-Basalt

New projects (2015)

- ◆ NORSALT (proposed)
- ◆ Qemscan UIS (proposed)
- ◆ Cretaceous Stratigraphy, Force (initiated)

Technical committee

Contact Technical committee Improved Exploration

Network groups

Project groups

Projects - Improved Exploration

SAFARI Phase 2
SAFARI Phase 3
Sub-basalt
Middle to Late Triassic palynostratigraphy in the Barents Sea area
LoCrA
Early Carboniferous biostratigraphy of the Barents Sea

Start > Improved Exploration (IE) > Project groups > Projects - Improved Exploration
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Projects - Improved Exploration

The project groups within FORCE have specific scopes to impact exploration success and increase reserved in the producing fields. The basic idea behind the project groups is to create cross-licences' intercompany collaboration within exploration, EOR piloting and implementation.

The list below is an overview over the recent years' projects in the Improved Exploration group.

Project	Status	Accepting late participants
LoCrA (2012) SedStrat group	Active	Yes
Late Triassic Barents Sea (2012) UIB/SedStrat	Active	Yes
Safari 3 (2013) Uni Research AS/SedStrat	Active	Yes
RING (2010) SedStrat group	Active	Yes
Sub-basalt (2006) SedStrat	Active	
Carboniferous Barents Sea (2013) UIB/SedStrat	Active	Yes
NORSALT	Proposed	
Qemscan UIS	Proposed	
Cretaceous Stratigraphy	Proposed	
Gplates (2013) Structural Geology	Proposed	
RM3D UIS/Structural Geology	Proposed	
Joint Drilling Programme Step 2 - Prospect SINTEF/Structural Geology	Proposed	
Geological coring Barents (2012) Wintershall/SedStrat	Proposed	
Safari 1 (2009) Uni Research AS/SedStrat	Finished	
Safari 2 (2011) Uni Research AS/SedStrat	Finished	
Dinoflagellate Co2 storage (2012) UIB/SedStrat	Declined	
Tidal Strait (2012) SedStrat	Declined	
Joint Drilling Programme Step 2 - 1-pager		

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Are you planning a project?



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Pre-stack seismic data for interpretation and analysis

Joining Forces 2016

The structural geology of Utsira High

Advances in siliciclastic and carbonate sedimentology

2016 Field trip in Gironde estuary and Aquitaine coast

Can stratigraphic plays change the petroleum exploration outlook of Norway?

Are you planning a seminar?

Are you planning a field trip?

Are you planning a project?

Prices

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Seminars and workshops

FORCE organises topical seminars, workshops and field trips. Each workshop focuses on the member companies' needs in development and demonstration of tools and methods to improve oil recovery.

The objective of the forum is to provide structured opportunities for the participants to discuss, with each other and with research institutions, universities, service companies, and/or consultants.

Several seminars for Autumn 2015 are under planning and ready to be published as soon as the final details are set. These seminars are both on Improved Exploration and Improved Oil and Gas Recovery.

Stay updated by subscribing to our newsletter. You can sign up at the [FORCE start page](#).

Pre-stack seismic data for interpretation and analysis

27 January 2016

Register for this seminar

Pre-stack seismic data for interpretation and analysis

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Are you planning a project?

Guidelines on how to plan, start and carry out FORCE projects.

1. Gather members to make up the project group.

The project group (PG) is responsible for pitching the idea to the Technical Committee (TC). Consider which of the FORCE network groups to involve, and keep in mind the added value of multidisciplinary projects.

2. Preparations

Before you start planning in detail, please have a browse through the rejected project proposals listed on the website, to make sure your project fits the profile of the successful ones! Also, please take a look at the [FORCE Year Wheel](#) for optimal timing for a project proposal in order to generate funds for the next year. If you aim to have your project approved the current calendar year, you should have the proposal ready by the end of May the same year.

[Overview of FORCE projects](#)

3. Project title and description

The PG needs to prepare a "one-pager", - a summary with the key information about the project. The PG also needs to come up with a good and catchy title for the project, and prepare a project description of max. 10 pages. The description needs to address the following:

- description of how the project has relevance to exploration on the NCS
- scope of work
- schedule and milestones
- resources and budget
- the deliverables for the sponsors
- business model – JIP/consortium model
- which FORCE network groups are involved

4. Sponsoring

To help in finding sponsors to the project, the Secretariat will market the project towards the FORCE members and post project details on the FORCE web page. The PG can use their own networks to send the pitch to others in the member companies, and involve whoever they see fit.

The member companies will then decide on whether or not they wish to submit a "letter of intent". They might do so based on certain conditions.

5. Contracts



Improved Exploration TC - *project idea list/page*

- ✓ Force TC Improved Exploration work for an informal project brainstorming page
- ✓ Ideas discussed in the TC and the network groups

Special emphasis on project proposals in 2016

TC work for good project proposals

TC - Goals 2016

- Joining Forces follow up
- Encourage network groups to come with project proposals
- Realize at least one project during the year (spreadsheet)
- Realize project idea list/page
- Receive feedback from companies on NCS research interests



Important factors ?

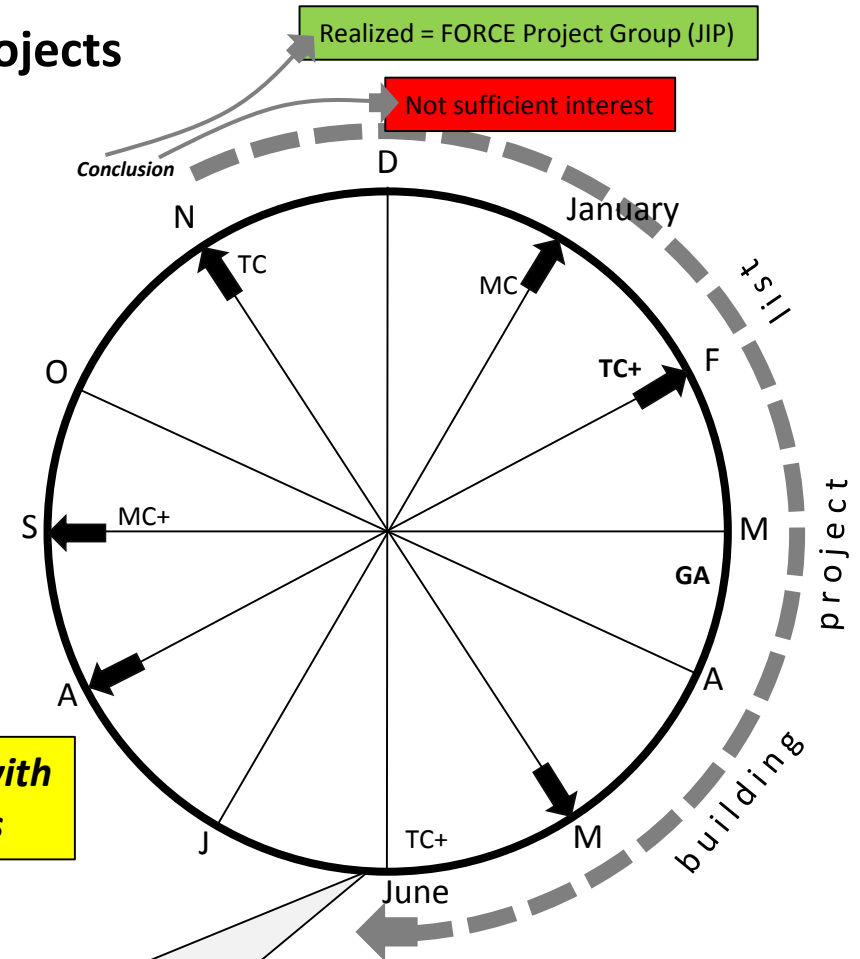
for the industry to join (and to propose) research projects

- ◆ Focused scope of work
- ◆ Area of interest
- ◆ Project timeframe
- ◆ Total and yearly cost
- ◆ **Please contact FORCE TC or network groups to discuss project ideas**

Check interest with FORCE members

Need project proposals before the summer

- Important for companies to have time for budget allocation to projects.
- Each company has its own process.



TC+ = TC and Network joint meeting
MC+ = TC and MC joint meeting



Confidential survey of company's 'research' interests: 'What and where'?

Basin/Area Name	Ranking (Top four, ranked 1,2,3 and 4)	Sedimentology and Paleogeography	Provenance	Diagenesis/ Reservoir quality	Carbonates	Structure: inversion, faulting, salt	Biostratigraphy	Geopressure- Geomechanics	Seismic interpretation	Geophysical methods: AVO, CSEM, IP
North Barents:										
Bjarmeland and Finnmark Platforms:										
West Margin Barents										
Jan Mayen	1	1			2					
Lofoten margins: Troms II-Lofoten-Nordland VII, VI										
Vøring Basin:										
Trøndelag Platform	2		2				1			
Halten- Dønna Terrace										
Møre Basin and Møre margin										
North Viking Graben:										
South Viking Graben:										
Stord Basin	4			1					1	
Central Graben										
Norwegian-Danish and Egersund Basin	3					2		1		

* Note this sheet is simplified

09.02.2016



Areas

Shelf is split in to 14 geographical areas

