



**How|to reduce time sharing**

**Arranged by the FORCE Geophysical Methods network**

**20.-21.09.12 at Måltidets Hus**

# TIME SHARING – SEISMIC INTERFERENCE

## 3.4

### Coherent noise guidelines

Coherent noise shall be assessed according to the following:

- Amplitude of the interfering signal,
- Duration of the noise,
- Repetition and synchronization of the interference,
- Move-out of the interference.

Noise coming from the beam (or side) can be harmful and difficult to deal with in processing. In general terms only low levels of interference from the beam may be tolerated for short durations within a record. In these situations the use of onboard QC processing systems are necessary to fully evaluate the effects on the seismic data.

In the general assessment of seismic interference, the following UKOOA guideline applies; "Assessing the Impact of Seismic Interference and establishing if timeshare is required", UKOOA, 1997 (or later revision).

**E&P companies are very conservative ?**



## **FORCE**

Processing – Acquisition  
Methods. SI attenuation



**IAGC**

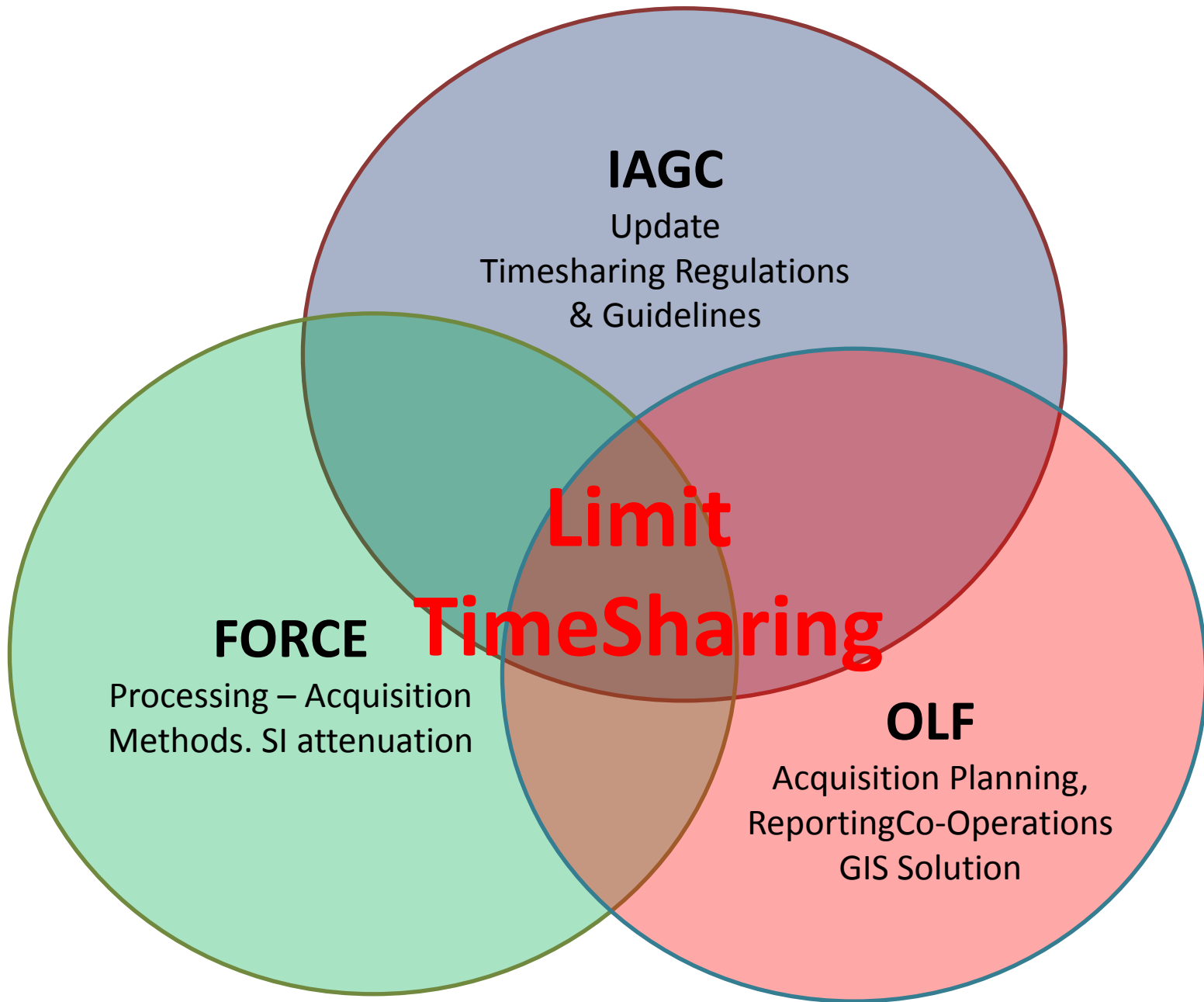
Update  
Timesharing Regulations,  
Guidelines

**FORCE**

Processing – Acquisition  
Methods. SI attenuation

**OLF**

Acquisition Planning,  
Reporting  
Co-Operations  
GIS solution



## IAGC

Update  
Timesharing Regulations  
& Guidelines

## FORCE

Processing – Acquisition  
Methods. SI attenuation

## OLF

Acquisition Planning,  
Reporting Co-Operations  
GIS Solution

**Limit  
TimeSharing**

## **Program**

### **Day 1 - Thursday 20.09.2012**

08.30 – 09.00: Registration and poster display.

09.00 - 09.15: Introduction  
**Tor Veggeland, Spring Energy**

09.15 – 09.35: IAGC time sharing Task Force – Review of Time sharing guidelines  
**Bernie Marsh, PGS**

09.55 – 10.15: Development of GIS system for declaration of seismic surveys  
**Geir Steinar Søvik, Statoil (OLF)**

10.35 – 10.50: Break and poster display

10.50 – 11.20: Managing Seismic Interference – Snorre 4D case study Processing  
**Renaud Laurain, Statoil**  
**Co-Speaker: Anna Smith, WesternGeco**

11.30 – 11.50: Increasing the efficiency of acquisition in a busy North Seas season – Dealing with seismic interference.  
**Per Eivind Dhelie, PGS**

12.10 – 13.10: Lunch and poster display

13.10 – 13.30: Seismic interference removal on broad band data  
**Risto Siliqi, CGGVeritas**

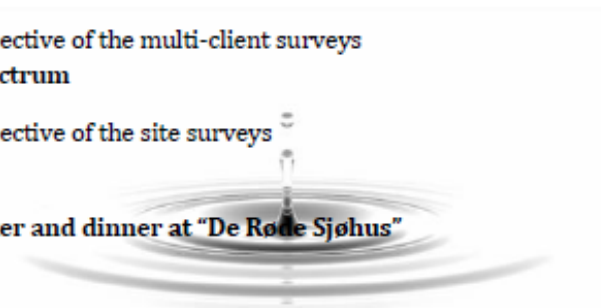
14.00 – 14.20: Case Study – Attenuation of seismic interference  
**Ross Milne, BP and CGGVeritas**

14.40 – 14.55: Break and poster display

14.55 – 15.15: The perspective of the multi-client surveys  
**MCG/Spectrum**

15.35 – 15.55: The perspective of the site surveys  
**Fugro**

18.00 - **Ice breaker and dinner at "De Røde Sjøhus"**



# How to reduce timesharing ?

Better Planning

Acq/Proc

?



**Friday 21.09.2012**

**09.00 – 09.15: Summary of the previous day presentation and way forward**  
**Joe Karwatowski, Exxon Mobil**

**09.15 – 11.45: Discussion of the following points for a reduction of time sharing:**

- 1. Planning and Communication to minimize time lost due to SI**
- 2. Seismic Interference removal**
- 3. Time sharing guidelines**

**11.45 - Lunch and end of workshop**

**Organizing committee:**

**Tor Veggeland, Spring Energy**

**Ross Milne, BP**

**Jeroen Hoogeveen, Multi Client Geophysical**

**Håkon Haugvaldstad, ConocoPhillips**

**Fanny Marcy, GDF SUEZ**

**Tone Aanestad, NPD**