NAALAKKERSUISUT
GOVERNMENT OF GREENLAND

Country Report Greenland

by Jan S. Adolfssen
Ministry of Industry, Energy and Research
JASA@NANOQ.GL

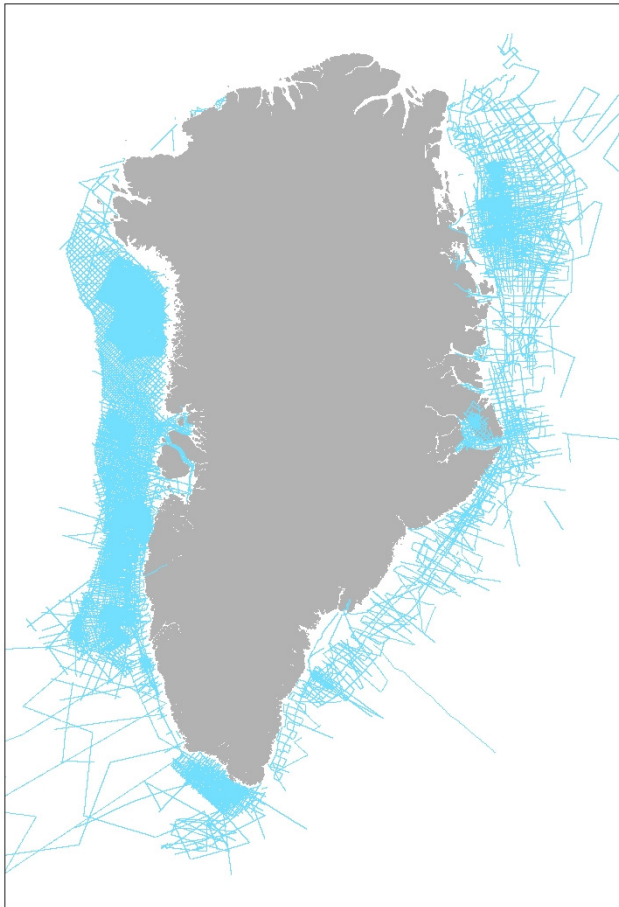Ilulissat icefjord

Greenland – factsheet

- Autonomous territory within the Kingdom of Denmark
- "Self – rule" (own government) from 2009
- 2,166,086 km^2 (836,330 sq mi)
- Official language Greenlandic (Inuit - language)
- Population 56,000
- Capital Nuuk (18,000)
- Not a member of the EU
- Aiming for 100% renewable energy for power and heating in 2030

NAALAKKERSUISUT
GOVERNMENT OF GREENLAND

Greenland got more than 40 years of exploration, but it is still a frontier area

16,000km² 3D   (2009-2012)
230,000km   2D   (1970-2016)
14 Offshore Wells (1977-2011)
 1 Onshore Well   (1996)

Line density (2D) often more than 4km

Licenses: 3 onshore licenses
             3 offshore licenses

NAALAKKERSUISUT
GOVERNMENT OF GREENLAND

Data

- Licensees are required to submit all data (all data) to authorities
- All data are released after 5 years, with exception of data acquired under a prospecting licenses, which can be extended up to 10 years of confidentiality
- The government of Greenland owns the data
- We release all data, including interpreted data, relinquishment reports etc.
- No tapes!

Data as a competitive factor

- We want to release data, not just to achieve it
- We are aiming at making data easy accessible
- Free of cost (or at least cheap)
- Use data to promote Greenland as a potential oil and gas country

Greenland National Petroleum Data Repository
GNPDR

www.greenpetrodata.gl
Established in collaboration
with the CDA in 2015.

No of surveys   186
No of lines   5276
Total   111TB

NAALAKKERSUISUT
GOVERNMENT OF GREENLAND

Greenland National Petroleum Data Repository GNPDR

Collaborating in information management for business improvement

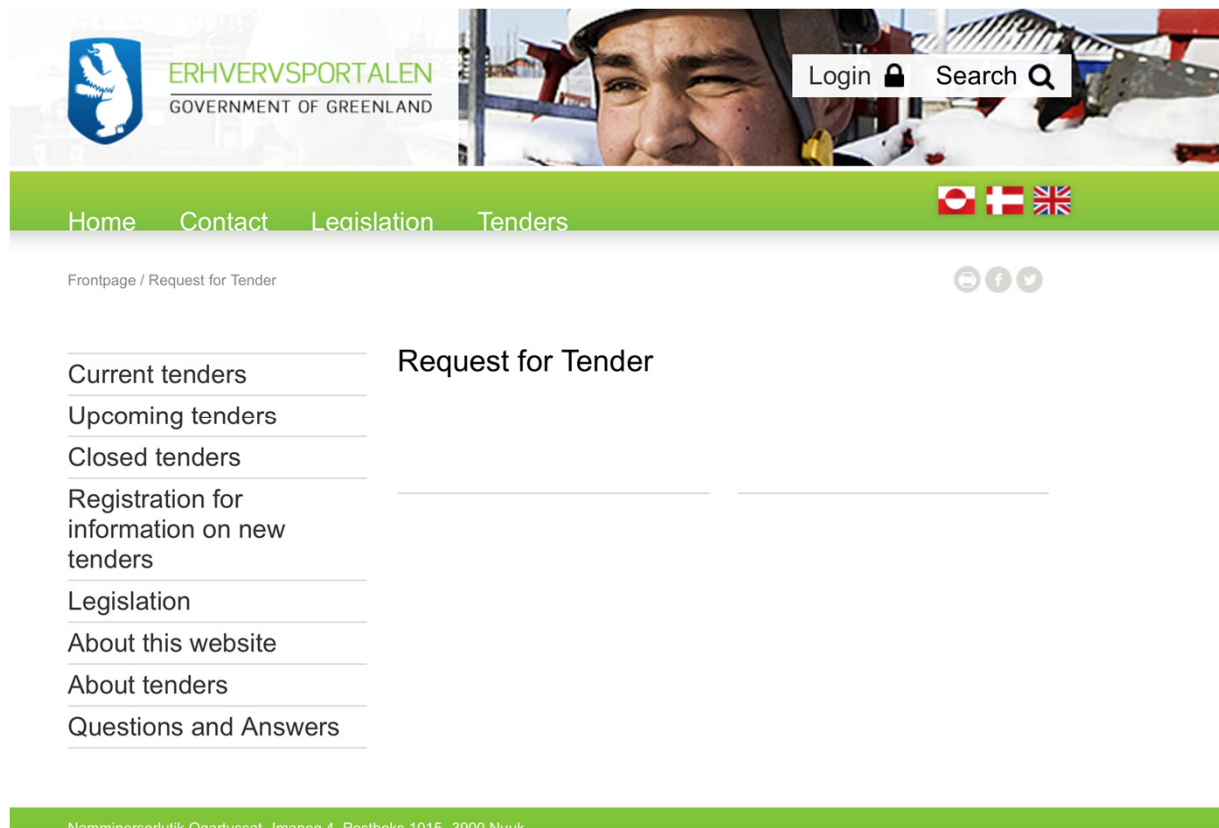

NAALAKKERSUISUT
GOVERNMENT OF GREENLAND

2015-2019

NAALAKKERSUISUT
GOVERNMENT OF GREENLAND

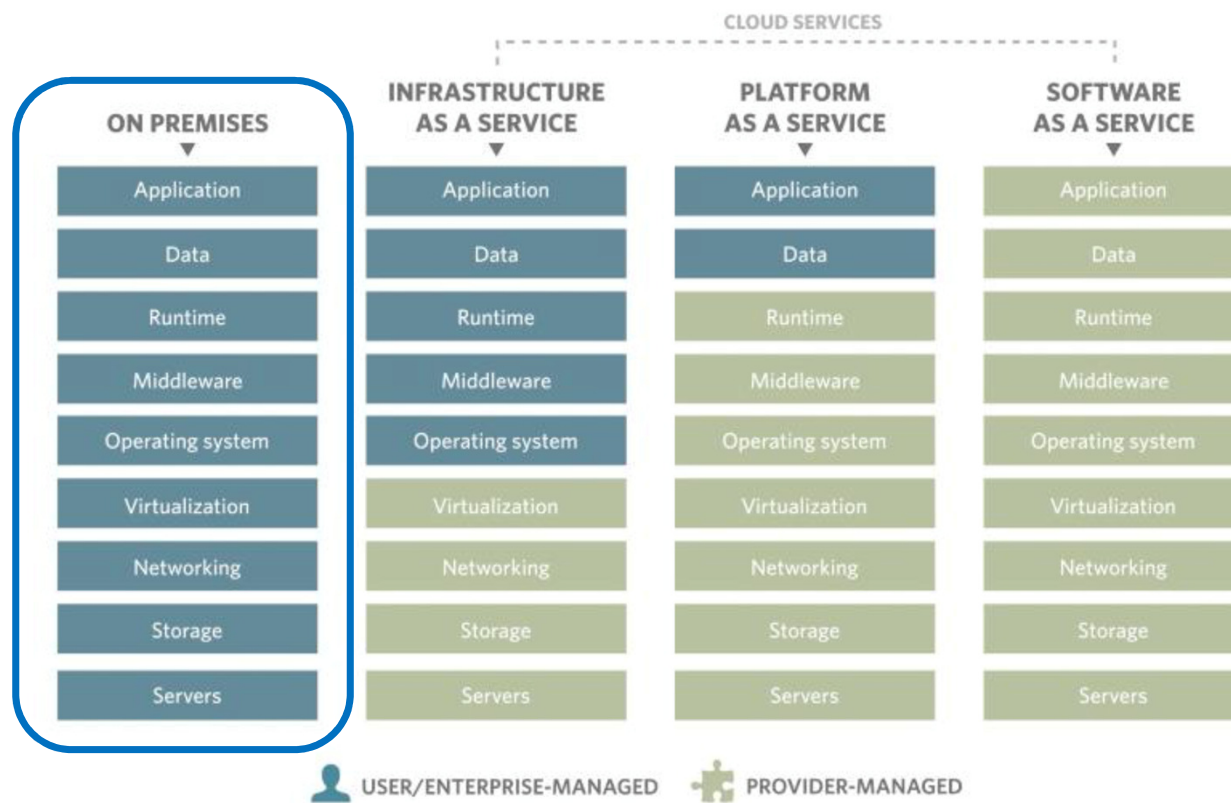# A public call for tender will be announced

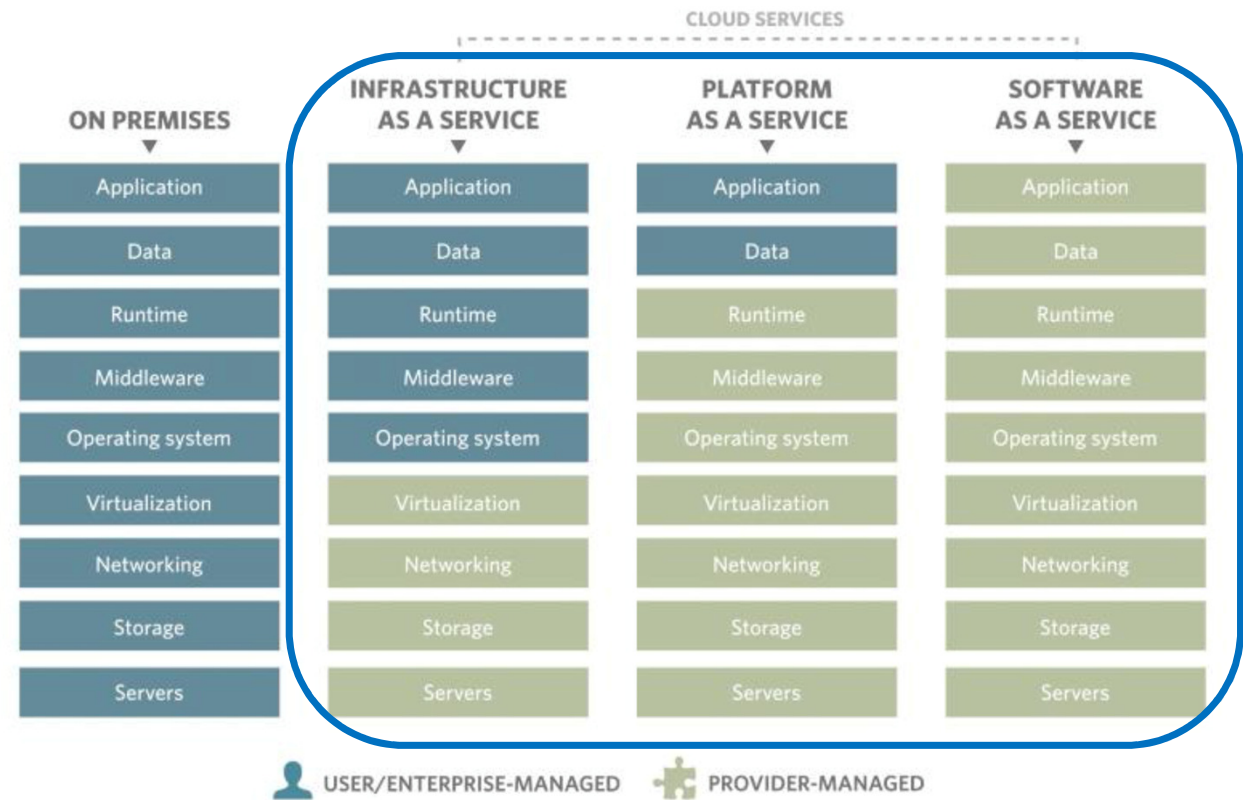https://www.businessingreenland.gl/en/Udbud

Greenland's procurement portal

The Present (for many NDR's)

- On Premise hosting
- Proprietary software solution
- Pay Wall (financing operation costs?)
- Closed Data

CLOUD SERVICES

ON PREMISES	INFRASTRUCTURE AS A SERVICE	PLATFORM AS A SERVICE	SOFTWARE AS A SERVICE
Application	Application	Application	Application
Data	Data	Data	Data
Runtime	Runtime	Runtime	Runtime
Middleware	Middleware	Middleware	Middleware
Operating system	Operating system	Operating system	Operating system
Virtualization	Virtualization	Virtualization	Virtualization
Networking	Networking	Networking	Networking
Storage	Storage	Storage	Storage
Servers	Servers	Servers	Servers

USER/ENTERPRISE-MANAGED   PROVIDER-MANAGED

NAALAKKERSUISUT
GOVERNMENT OF GREENLAND

The Future

- Cloud solution
  - Infrastructure as a service (IaaS)
  - Platform as a Service (PaaS)
  - Saas (Software as a service)
  - AIaaS (AI as a Service)
- Open Data on an Open Data platform?
- Market Place?

at a crossroads, where to go?

Control, High
Cost, High ?

- On premise solution -> Open Soft Portal Solution
- Infrastructure as a service (IaaS) -> Open Soft Portal Solution
- Platform as a Service (PaaS) -> Professional Portal Solution
- Commercial Vendor

- Market place
- Open data storage

Control, Low
Cost, Low ?

NAALAKKERSUISUT
GOVERNMENT OF GREENLAND

Software solutions as a requirement?

Saas (Software as a service) and AIaaS (AI as a Service)

- The transition from desktop research to cloud analysis, will the option for offering AIaaS be an requirement by exploration companies in the coming years?

- Visualisation requirements, does it really matter when the data is (almost) free?

Change in the E&P industry

- Large oil companies are increasingly relying on specialized explorers rather than in-house exploration teams for reserve replacement

- Smaller Exploration companies, with more restricted financial strength.

- How do we make us self an attractive options for these small E&P companies? Easier accessible data, lower costs, improve awareness?

- Free data compared to a pay wall; will even small acquisition costs discourage exploration companies from acquiring data?

Open Data Storage

- Open Data (if an option!) Lose all control, commercial companies may reprocess and resale data, but is that really an issue?

- Open data storage; from regional to global view, but will anybody beside universities make use of the data?

- What is the risk of our data to "disappear" in the crowd?

- Are E&P companies looking for data at an open data storage?

NAALAKKERSUISUT

GOVERNMENT OF GREENLAND

Qujanaq!
(thanks)

www.greenpetrodata.gl
Ministry of Industry, Energy and Research