



NORWEGIAN PETROLEUM
DIRECTORATE

Invitation to Diskos Vendor Conference

Diskos 2022

Place: NPD, Stavanger
21. March, 12.00 - 13.30

A vendor conference for ideas, possibilities and solutions for usage and storage of 8 petabyte of data
from the Norwegian Continental Shelf



DISKOS
NORWEGIAN PETROLEUM DATA

About the project

The Norwegian Petroleum Directorate aims to ensure the continued services related to storage, viewing, sharing and trading of E&P data in the database. The current contractor agreement expires 31st of December 2020, but will most likely be extended through the implementation period of a new system.

The purpose of the vendor conference is to provide potential suppliers with a holistic overview of the current Diskos-solution as well as future needs prior to an RFI and tender-process:

- Diskos is a database containing reported seismic, well and production data required by the Norwegian authorities
- At the moment, approximately 8 Petabytes of data are stored in Diskos
- The current supplier contracts were in 2015 estimated to have a total value of over 250 mill. NOK allocated over a six-year period

About Diskos

Diskos is a joint venture, comprised of a group of oil and gas companies (approximately 40), collaborating on data management. The goal is to develop and operate shared databases and solutions for storage, access, data trading and distribution of data from the Norwegian Continental Shelf (NCS). The initiative operates through the Norwegian Petroleum Directorate, as its legal entity.

The Diskos database is considered to be a central element of the Norwegian National Petroleum E&P Data Repository – which stores the majority of the E&P data from NCS.

Typical data stored:

- Cultural data (Licence areas etc.)
- Seismic data
- Well data
- Monthly Petroleum production data

For the next contract period we will also consider including:

- Other data and documents related to Production Licenses
- Data collections from several wells/surveys for the use with AI/Machine Learning technologies
- Systems and staging areas to enable AI/ML
- Technologies to enable novel, streamlined workflows for interpretation and data processing

The Diskos solution is used for online loading, storage and retrieval of these data types by Diskos members. An index to public data is also available through a public portal on the internet. As confidentiality periods expire over time, increasing sets of data become public. This requires the management of detailed and sophisticated access control (entitlements) for individual data files. The access control system is dynamic and must be able to handle changes in partnerships in production licenses as well as company name changes etc.

A Trade Module is used for planning and execution of trading “rights” to the data and subsequent coordinate of rights to access data as a result of a trade for seismic and/or well data. This module includes a simulation of possible gain or give for the data to be traded.

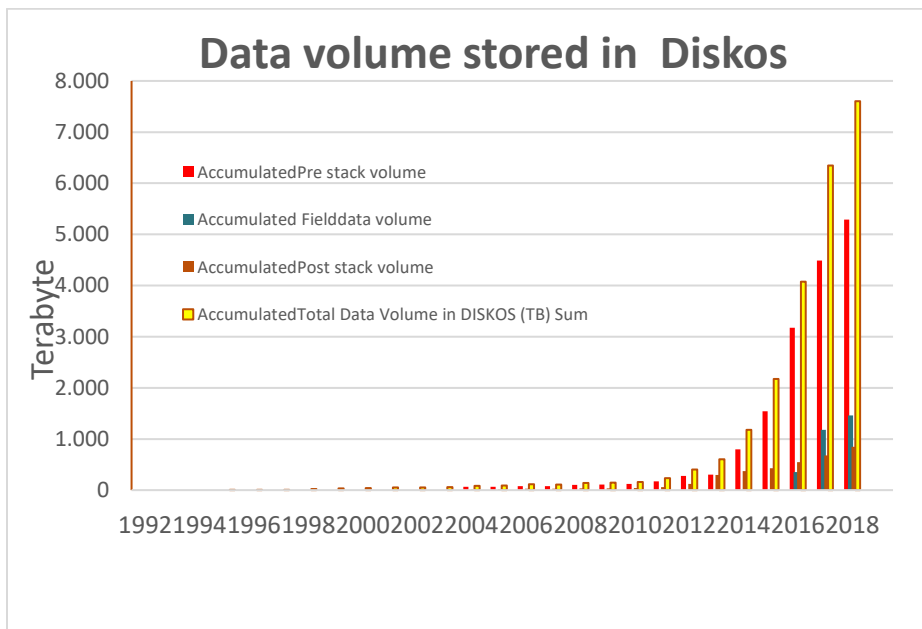
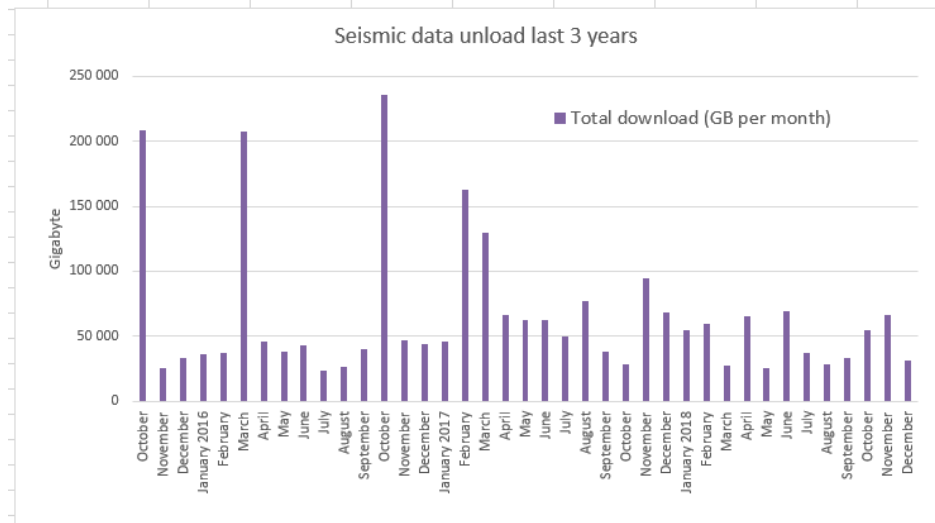
For more information:

<http://www.npd.no/en/About-us/Collaboration-projects/DISKOS/>

<http://www.npd.no/Global/Norsk/3-Publikasjoner/Diskos/Diskos-jubileumshefte-engelsk-%20lav.pdf>

Current use of the database

All Diskos members use the database on a regular basis, and Diskos has approximately 900 active users. The average amount of data being downloaded each month is illustrated in the first graph below. The other graph show how data volume in the database are increasing as more data is loaded.



Future tender process

An RFI will be sent out during the first half of 2019, where vendors will be asked to give feedback on possible solutions and technology to operate the Diskos systems. We will use the RFI to investigate any viewpoints to how the next Diskos operator may utilize new technologies such as cloud storage and cloud services, new compression techniques and machine learning to enhance the value of the Diskos services.

Some suppliers may have existing solutions/software to meet the requirements and services that are necessary for Diskos, while other suppliers may have to develop, or partner up, to be in a position of offering holistic services to provide needed operation/services, infrastructure and solutions.

The provider of a solution is invited to inform about software and solutions that can meet the requirements given by Diskos in both the RFI and the subsequent tender to be announced. In the RFI, it will be relevant to give feedback on emerging technology and trends that will be relevant for Diskos, and that is likely to have an impact on the system in the future.

The plan is to announce the tender process in 2019. Potential suppliers may submit a proposal for a contract for one module, or a single contract covering both:

- The well, seismic and production data module
- The trade module

Important information

This conference is only a forum for sharing information, and to give insight in what Diskos is as well as requirements of future solutions. Attendance is not legally binding for NPD or suppliers in a future tender process. A tender process will be announced at a later date. Diskos is not obliged to proceed with the RFI or RFP process. Diskos can terminate the process for one, or both described modules.

Conference agenda

The conference will take place on March 21st 2019, 11.30 - 13.30.

- 11:30-12:00** Registration and coffee
12:00-12:15 Introduction: presentation of Diskos and introduce the purpose of the conference
12:15-13:00 Presentation of the planned tender process and future needs
13:00-13:30 Q&A

Registration

Register for conference at Mercell or to torin.korner@pwc.com. **Deadline for registration is 18.03.2019.**

Registrations must contain:

1. Company name
2. Name and job title of participant(s)
3. Contact details (e-mail and phone number)
4. Description of relevant system(s) and technologies offered
5. Potential partners and/or subcontractors
6. Questions to be addressed at the conference (if any)

Any questions that requires a response prior to the conference must be submitted through Mercell or to torin.korner@pwc.com.

Location

The conference will take place at the Norwegian Petroleum Directorate. Visiting address is:
Professor Olav Hanssens vei 10
4021 Stavanger

Participants will be required to sign in at the front desk upon arrival.