

# From Vision to Reality: National Data Repositories and the Open Source Data Ecosystem

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# SIS Data Management Global Footprint

**230+ installations**

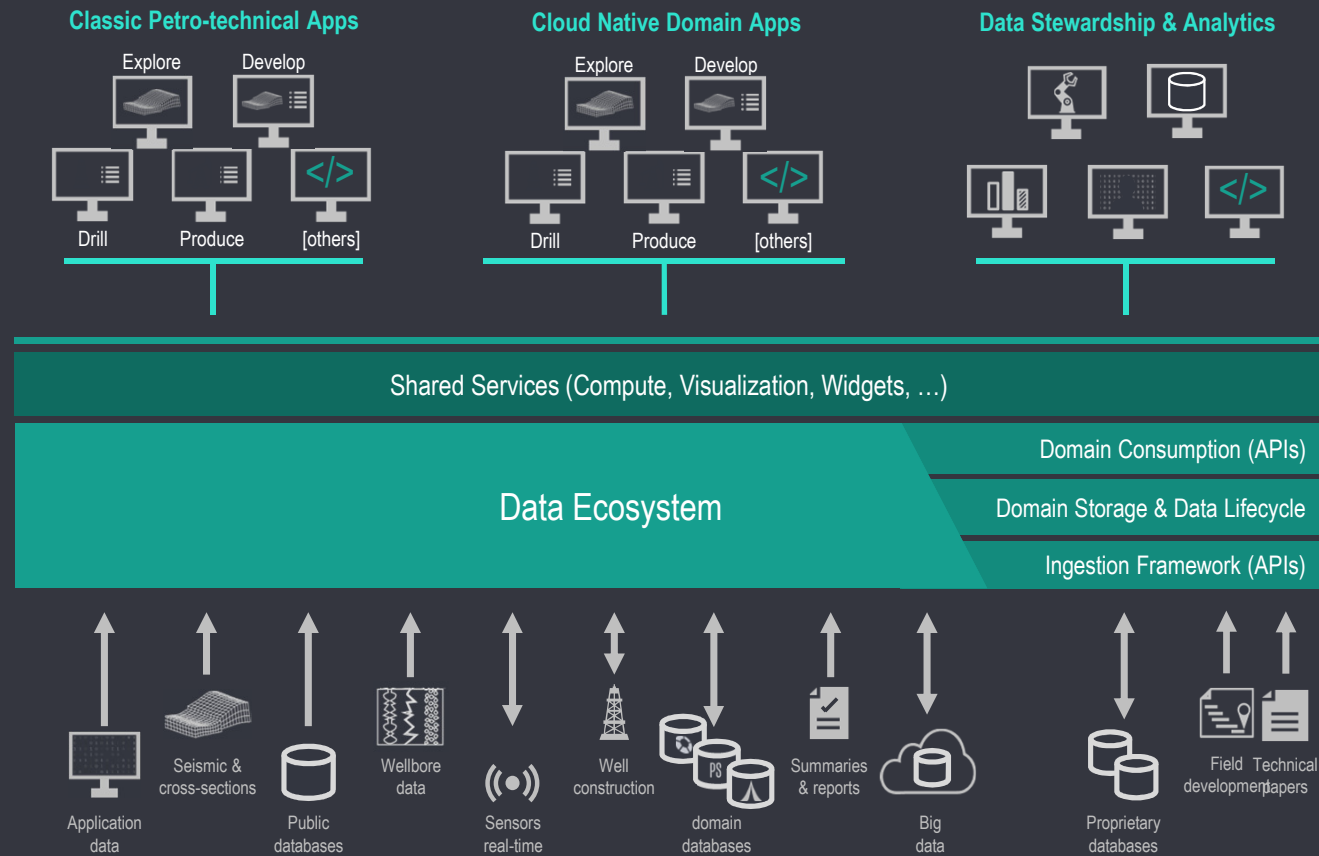
**with 5000 users**

**across 45 countries**

**Schlumberger**



# Vision to reality | Digitally Transformed Upstream Data Ecosystem





A steam locomotive pulling a red passenger train across a stone viaduct in a rural landscape. The train is moving from left to right, and a large plume of white steam is coming out of the smokestack. The viaduct is made of stone and has several arches. The background shows rolling green hills under a cloudy sky.

An upstream data ecosystem is  
the product of many technological  
advances ...

AT 99 DEGREES, WATER IS HOT.  
**AT 100 DEGREES, IT BOILS.**  
AND WITH BOILING WATER, COMES  
**STEAM.**  
AND WITH STEAM, YOU CAN  
**POWER A REVOLUTION.**  
S. L. PARKER

What will provide the next degree of change  
to turn the vision into reality and power the  
digital revolution?

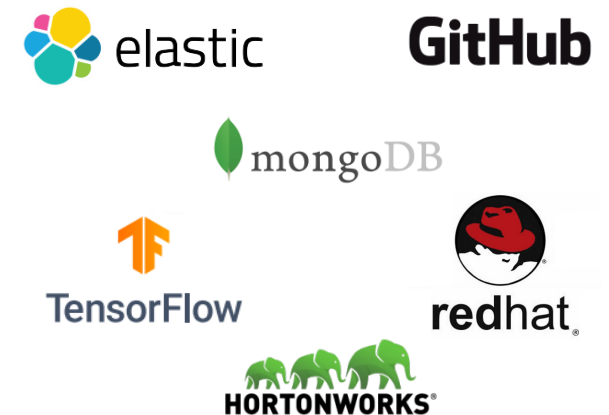
# Openness drives innovation ...



Open Standard



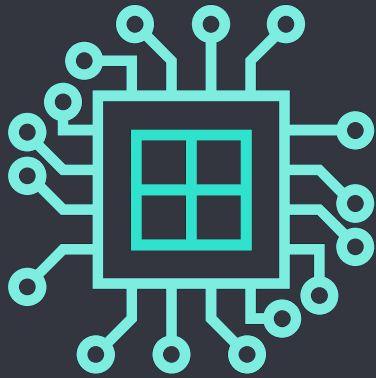
Open API



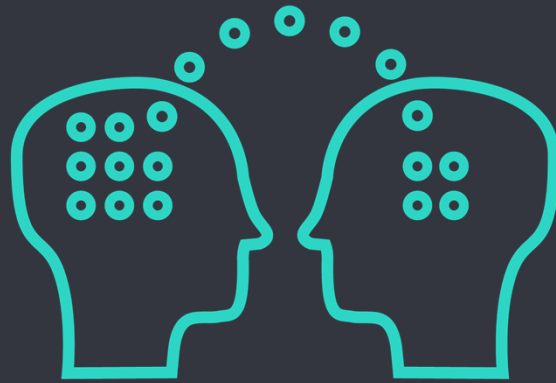
Open Source

... Open Source is a step change in collaboration.

# Benefits of Open Sourcing the Data Platform



**Enablement of E&P Industry  
Digital Transformation Journey**



**Domain Expertise &  
Knowledge Collaboration**



**Accelerating innovation  
and delivery of new solutions**



Open Subsurface Data Universe

A collaborative industry Forum formed to establish an open subsurface reference architecture:

- A cloud-native subsurface data platform reference architecture, with usable implementations
- Consistent API standards
- Master and reference data standards



## OPERATORS



## SUPPLIERS



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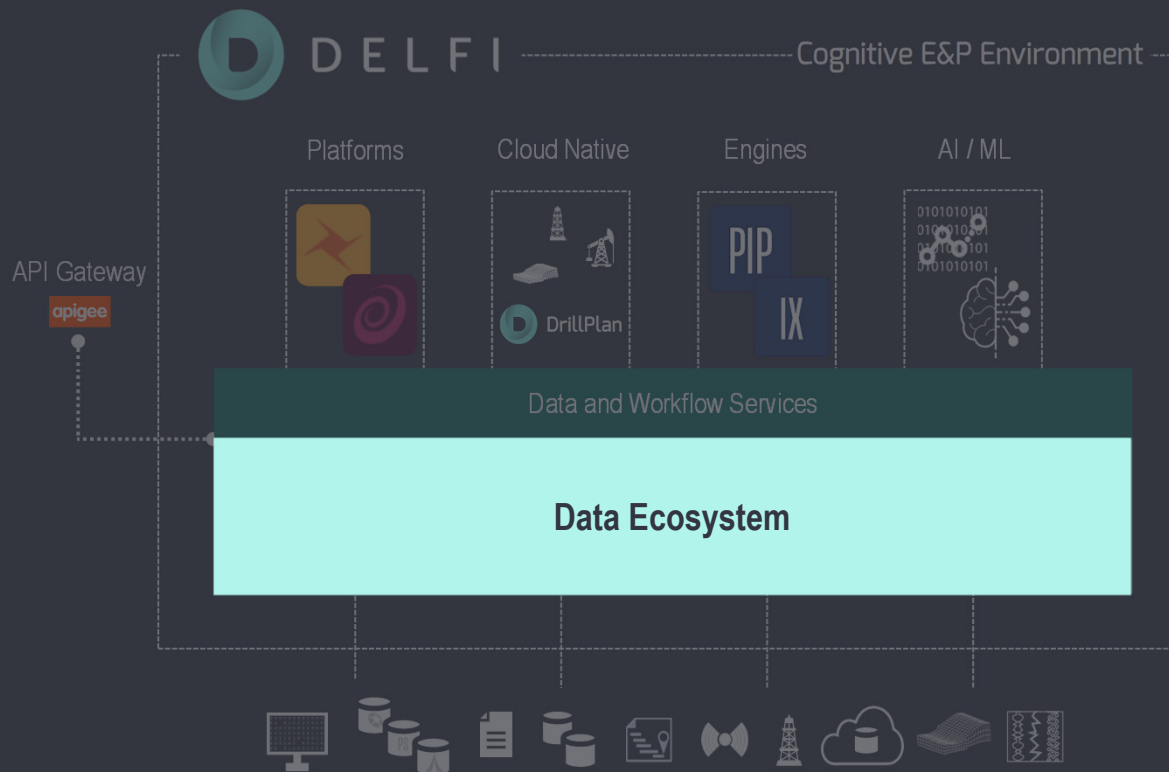
# Schlumberger Commits to OSDU

**Schlumberger**

**OSDU**<sup>TM</sup>



# Schlumberger Contribution to OSDU



**35**  
years

**Leading**  
industry  
expertise



**Architected**  
for upstream  
oil and gas

open-sourced components



**CORE**  
SERVICES



**DATA FLOW**  
SERVICES



**OPTIMIZED**  
STORE

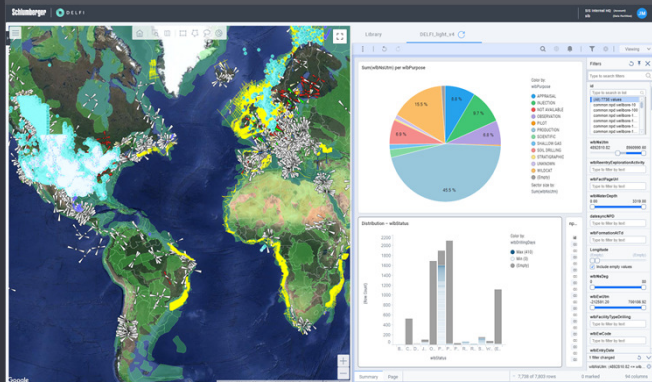


**DOMAIN DM**  
SERVICES

**Schlumberger**

# National Data Repository and the Open Source Data Ecosystem

## Data management without borders



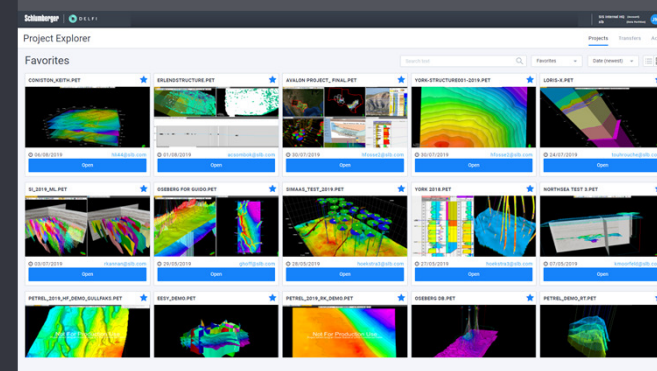
Common environment for public, corporate and third party data. Seamless data flow to fuel your traditional applications and new AI/ML workflows. Secure operations for collaboration across traditional boundaries

## Built on open, standards based architecture



Combine in-country data management with the DELFI environment and OSDU data platform to align with data residency constraints. Adopt cloud environments for extended openness and scalability

## Supporting digitally transformed workflows

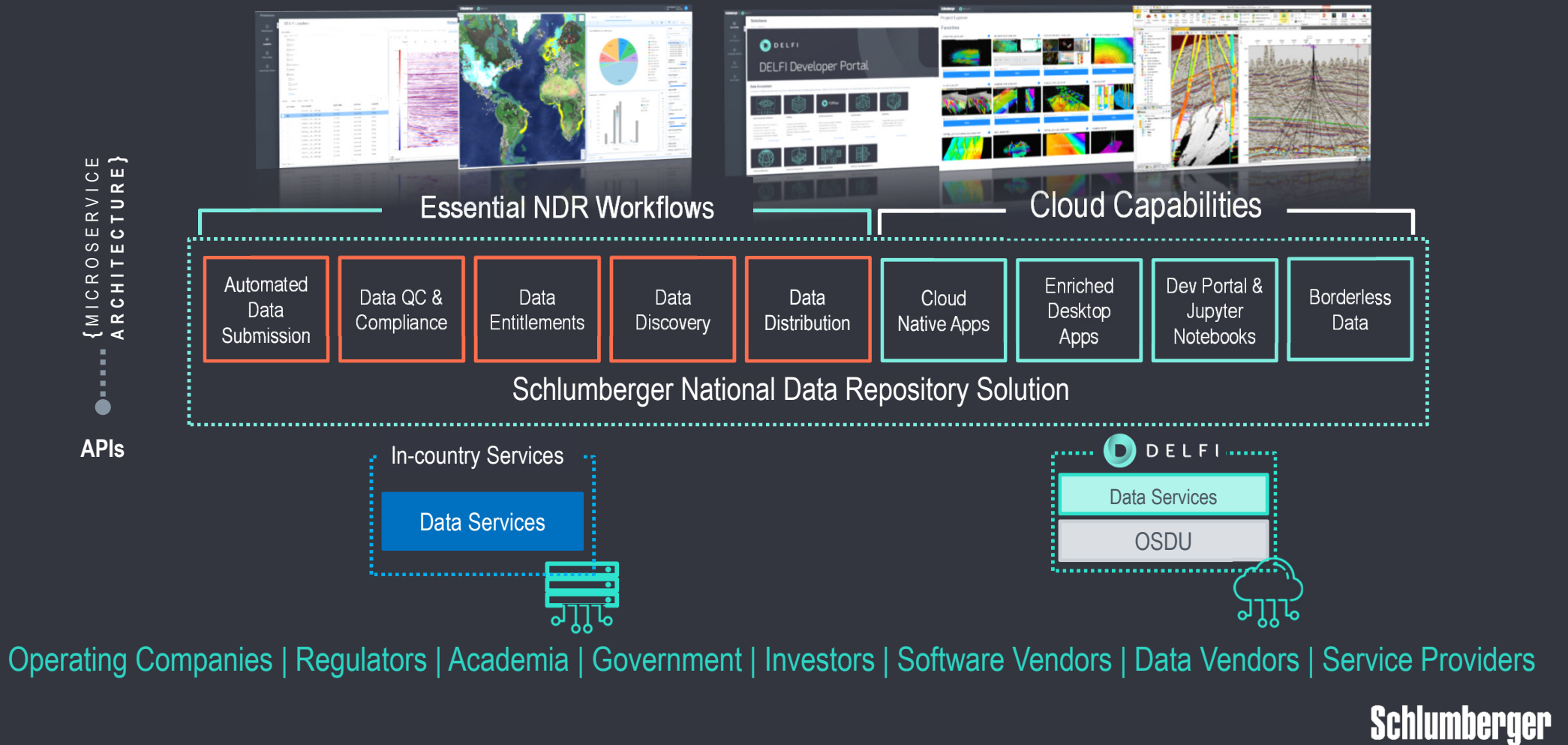


Delivering automation and increased efficiency combined with cognitive technology to drive new insights. Integrated with classic petro-technical apps. Developer tools and Jupyter notebooks for innovators.

Operating Companies | Regulators | Academia | Government | Investors | Software Vendors | Data Vendors | Service Providers

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# A Modern NDR Solution for Every Customer



## Moving in step | learning to walk together as a community

