



# Schlumberger Digital Forum 2022

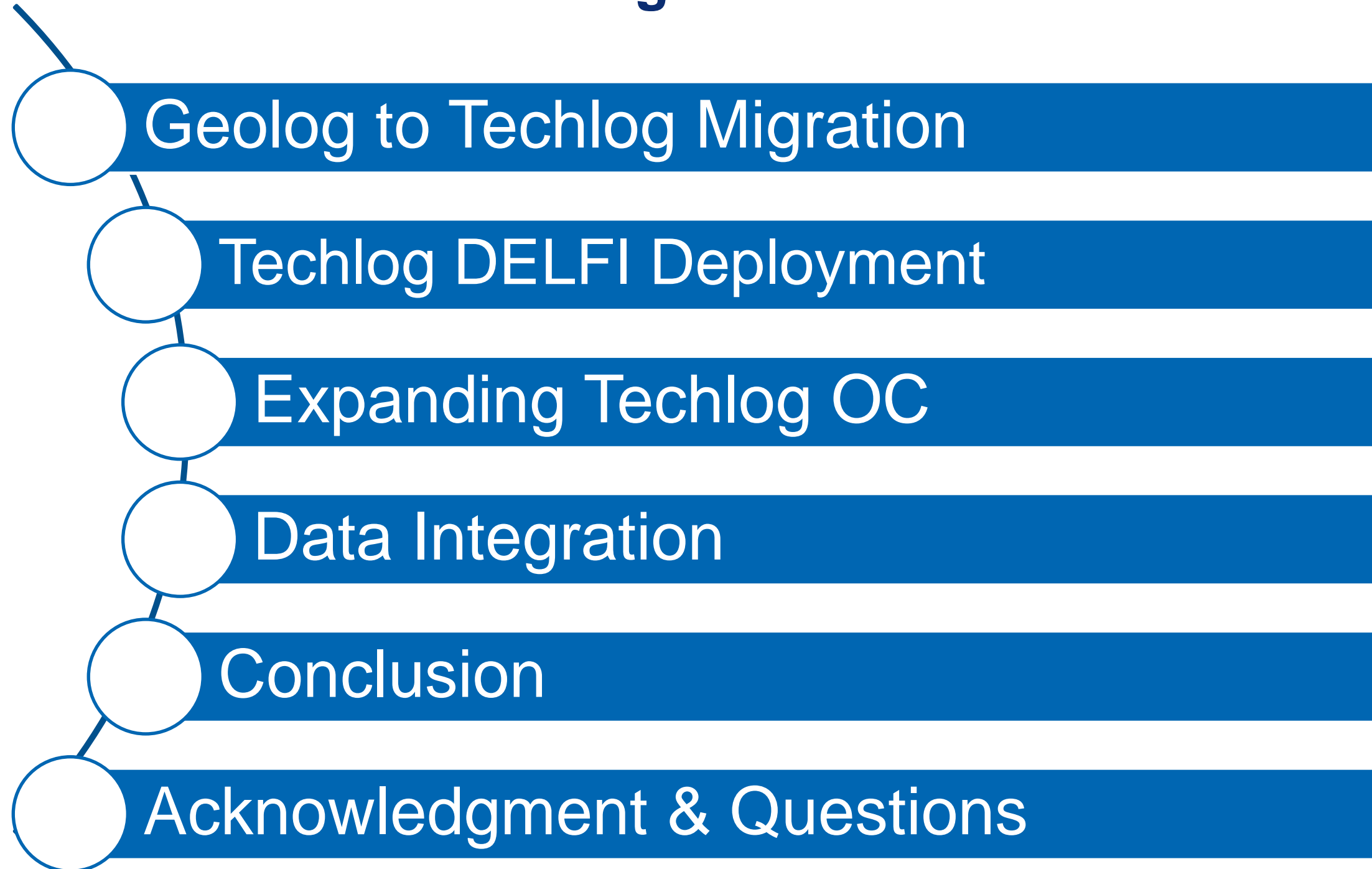
## Chevron Techlog Journey

Geolog to Techlog Migration, Techlog DELFI Deployment,  
and Techlog Data Integration

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Amol Bakshi – Chevron presenter  
Dolapo Otulana, Raghavan Krishnamachari - Schlumberger

September 20 - 22, 2022

# Agenda



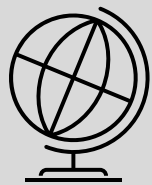
# Geolog to Techlog Migration Challenges

## Challenges



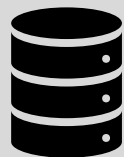
### Knowledge

- Rewrite apps/workflows in python and ocean, validate results
- Migrate new data types



### Global Scope

- Standardize migration across multiple BUs globally



### Large Volume of data

- ~1100 projects, 42.2 TB of data
- 10 months to meet cloud deployment plan

## Solutions



### Increase Knowledge

- Training and support by Schlumberger
- Collaboration between Chevron developers and SMEs to rewrite internal workflows in Techlog



### Proof of Concept

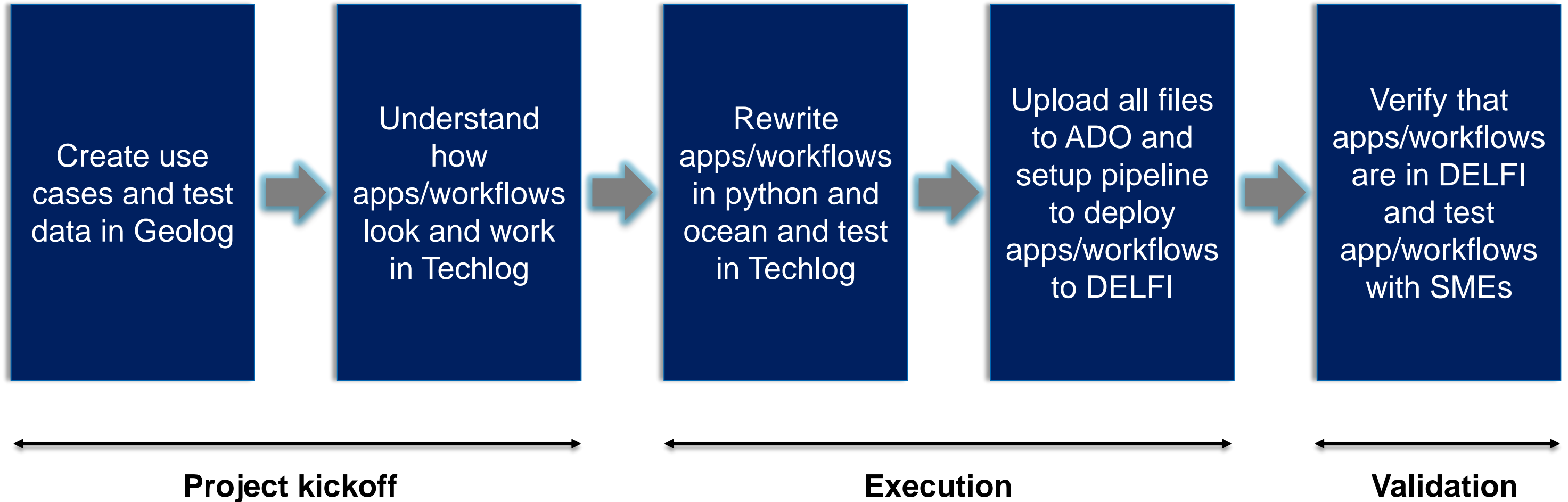
- PoC to validate migration requirements
- Development of python scripts and tools



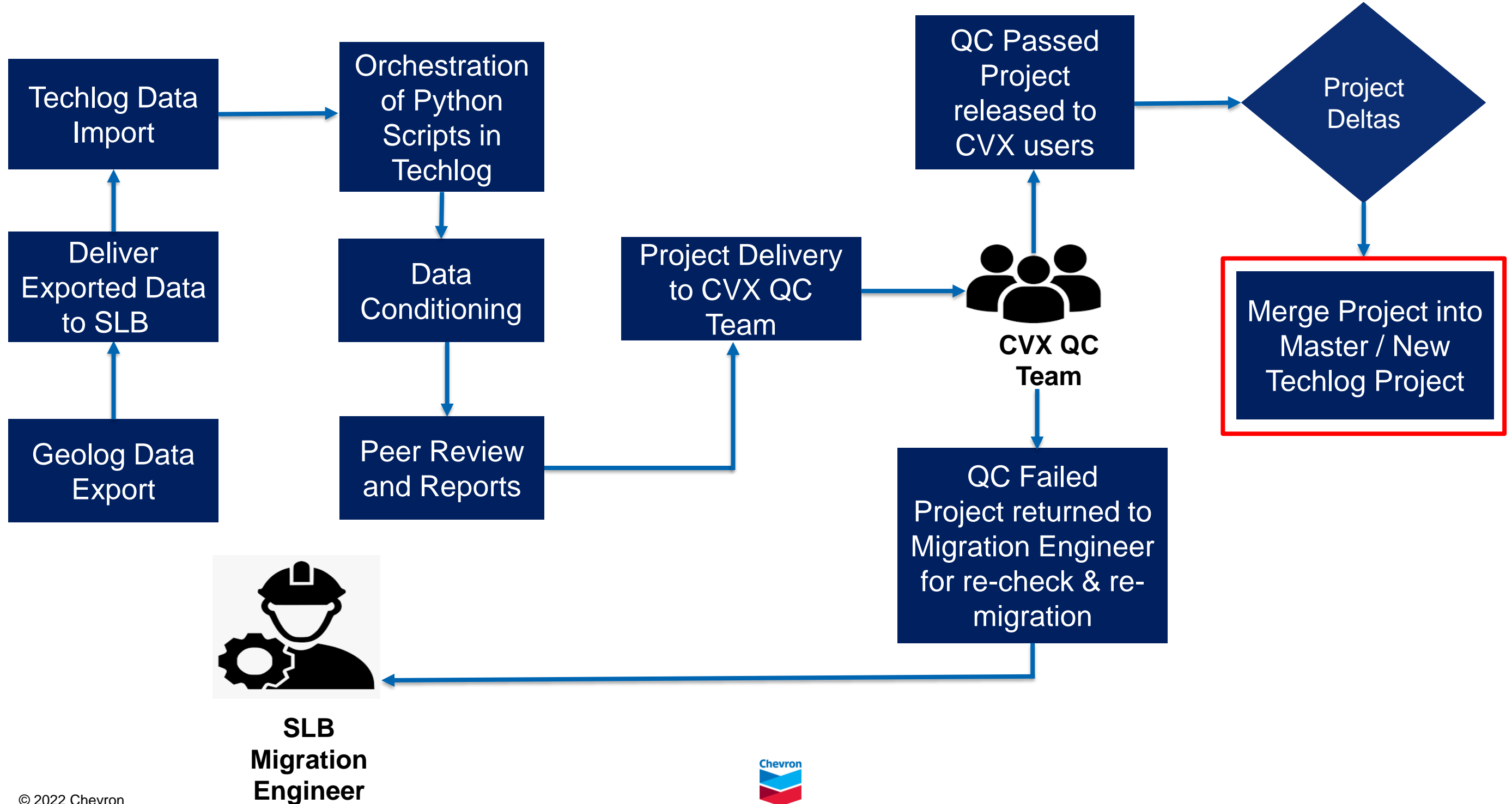
### Migration Factory

- Collaboration between Chevron and Schlumberger to establish migration process
- Schlumberger process automation

# Geolog to Techlog in DELFI Workflow Migration - Chevron



# Geolog to Techlog Data Migration Factory



# Techlog Data Transfer from on-premises to DELFI

## DELFI Petrotechnical Suite

### New Techlog Project



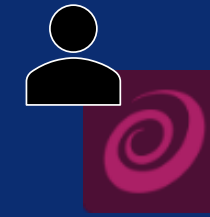
Import Deltas

### Techlog Studio Repositories



Import Data

### New Techlog Project



Lift & Shift Data

Import Deltas & Non-Well Objects

Export Deltas & Non-Well Objects

## On Premises

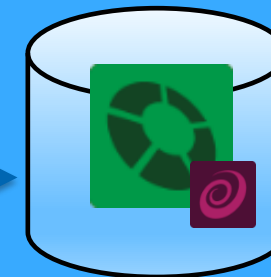
### Master / New Techlog Project



(connected to Techlog Studio)

Import Deltas

### Techlog Studio Repositories



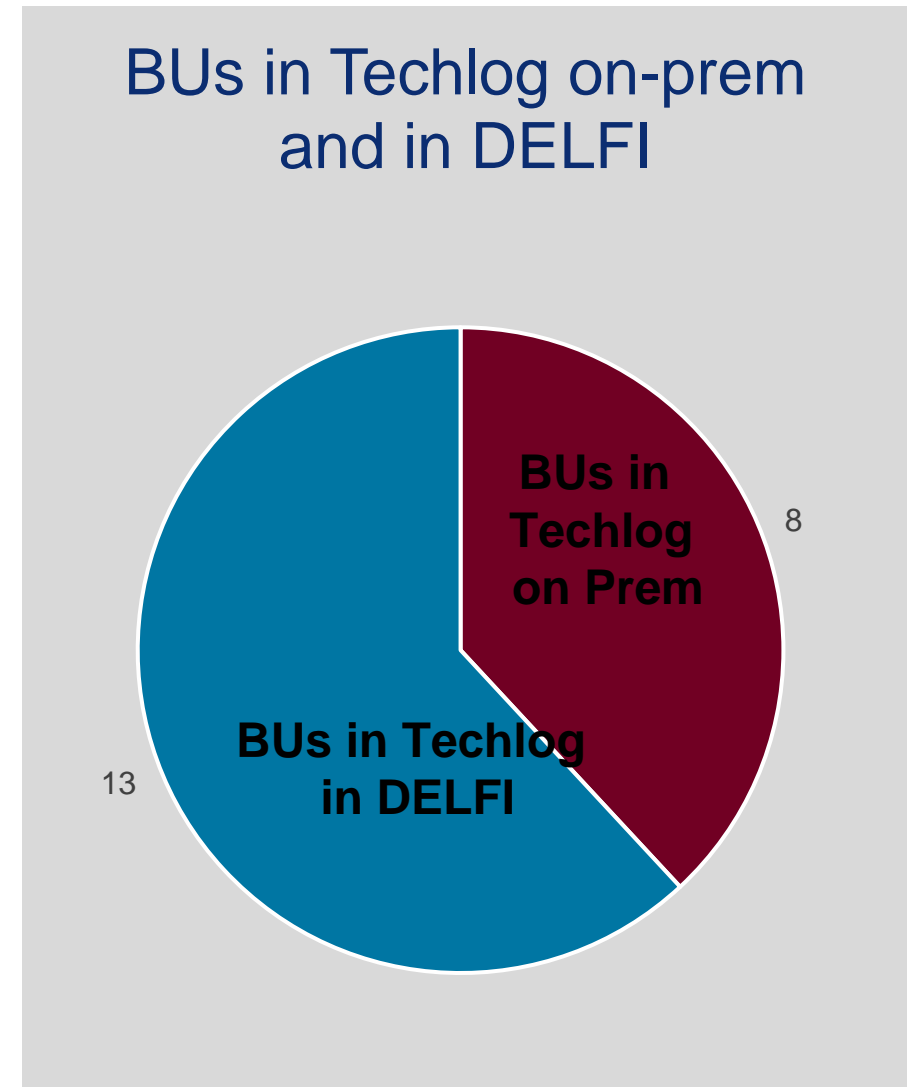
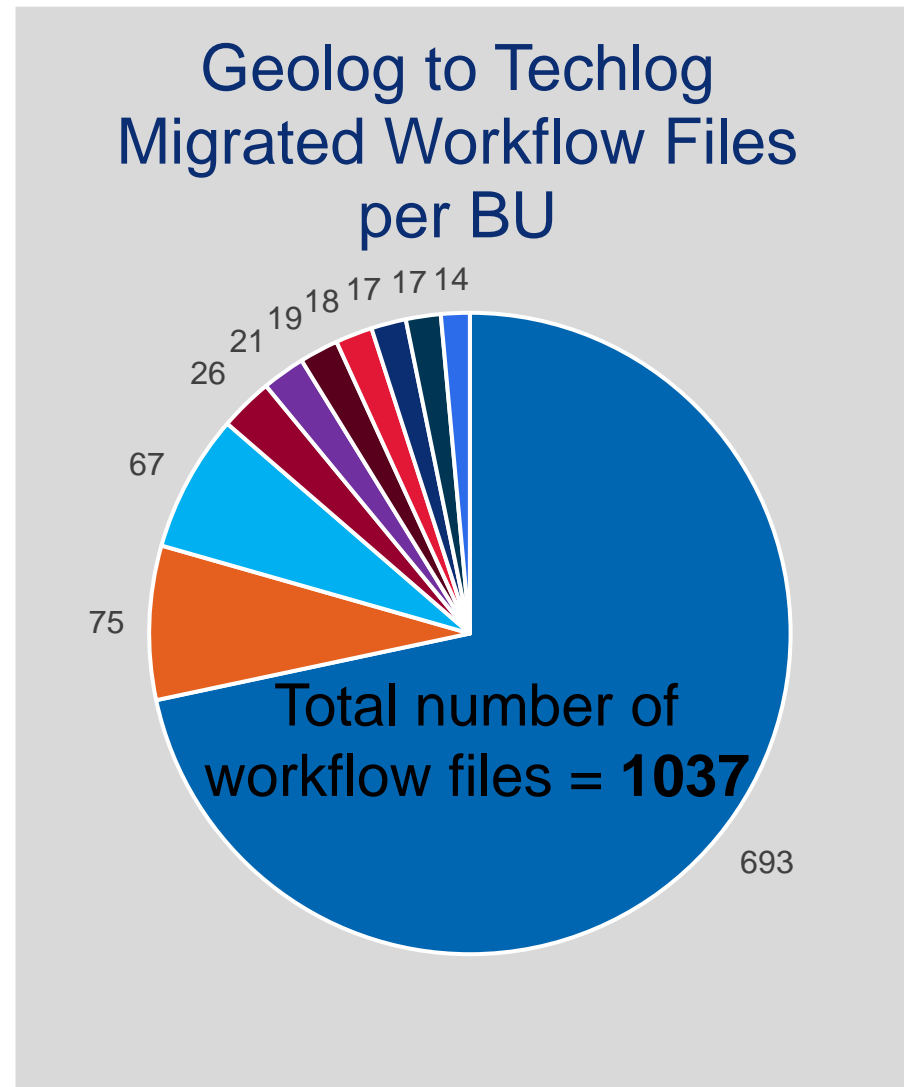
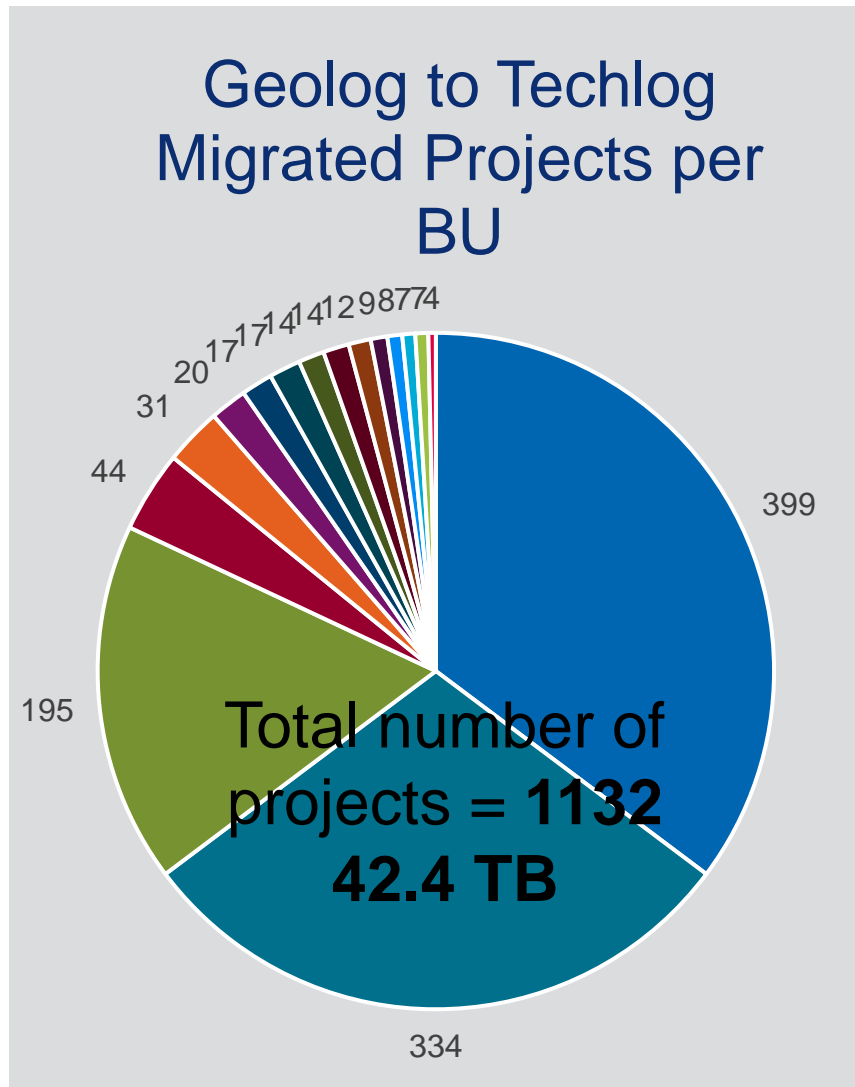
### User Techlog Project



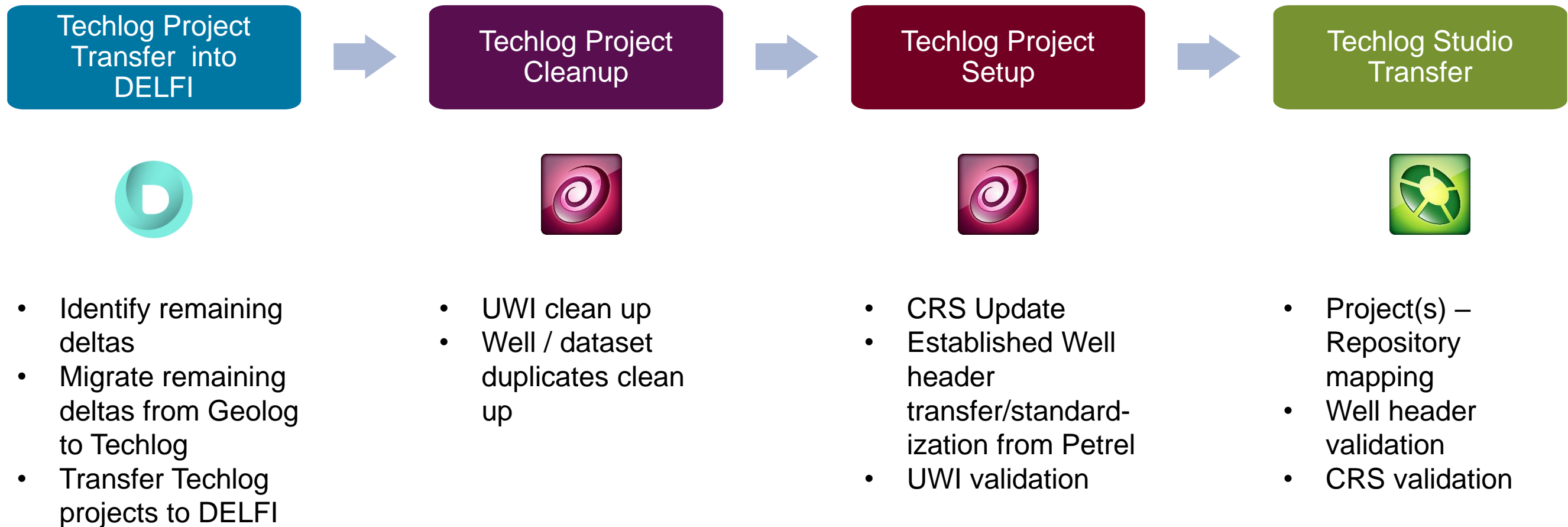
(not connected to Techlog Studio)



# Techlog Migration Stats

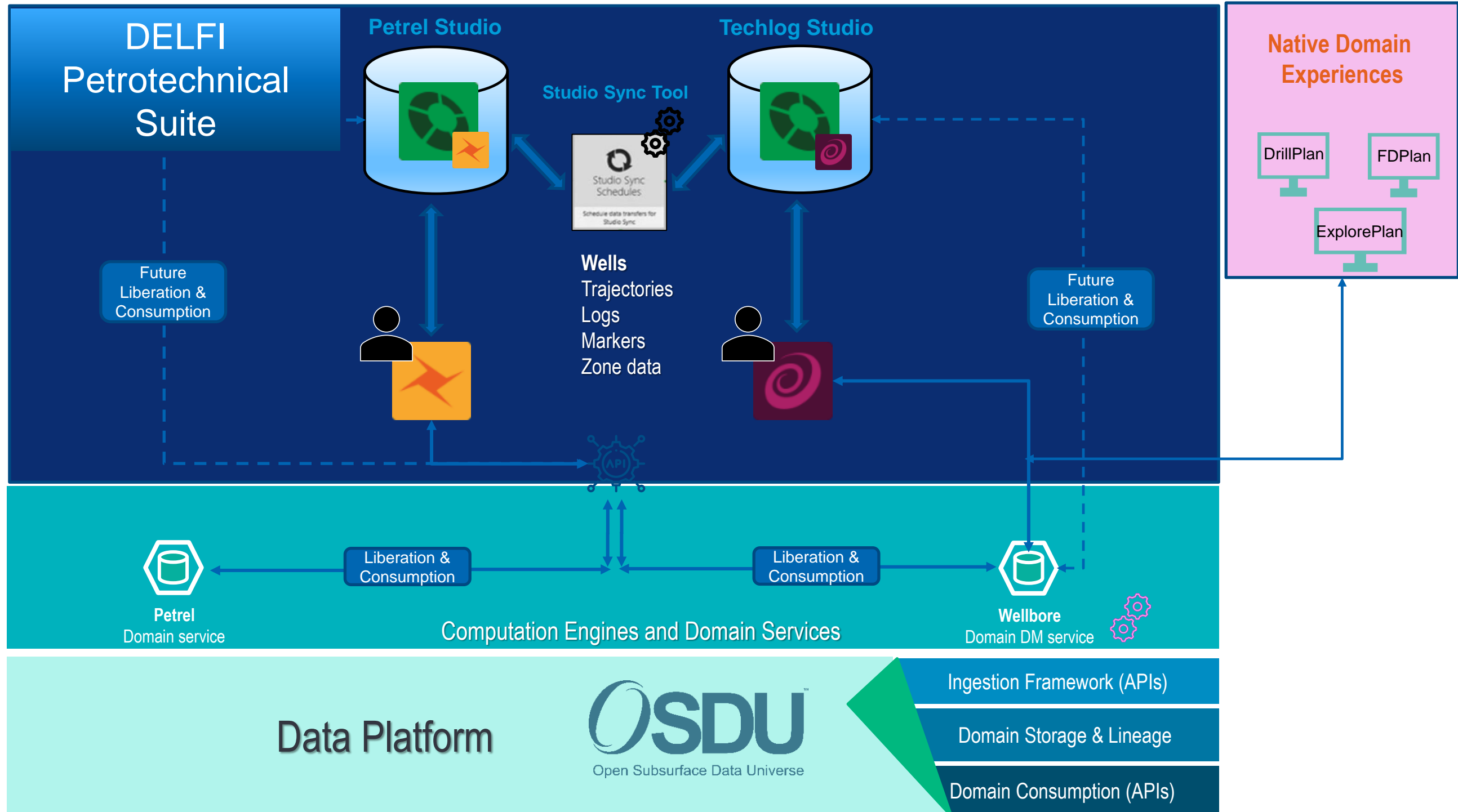


# DEFLI Deployment & Post Migration Summary





# Techlog Data Integration



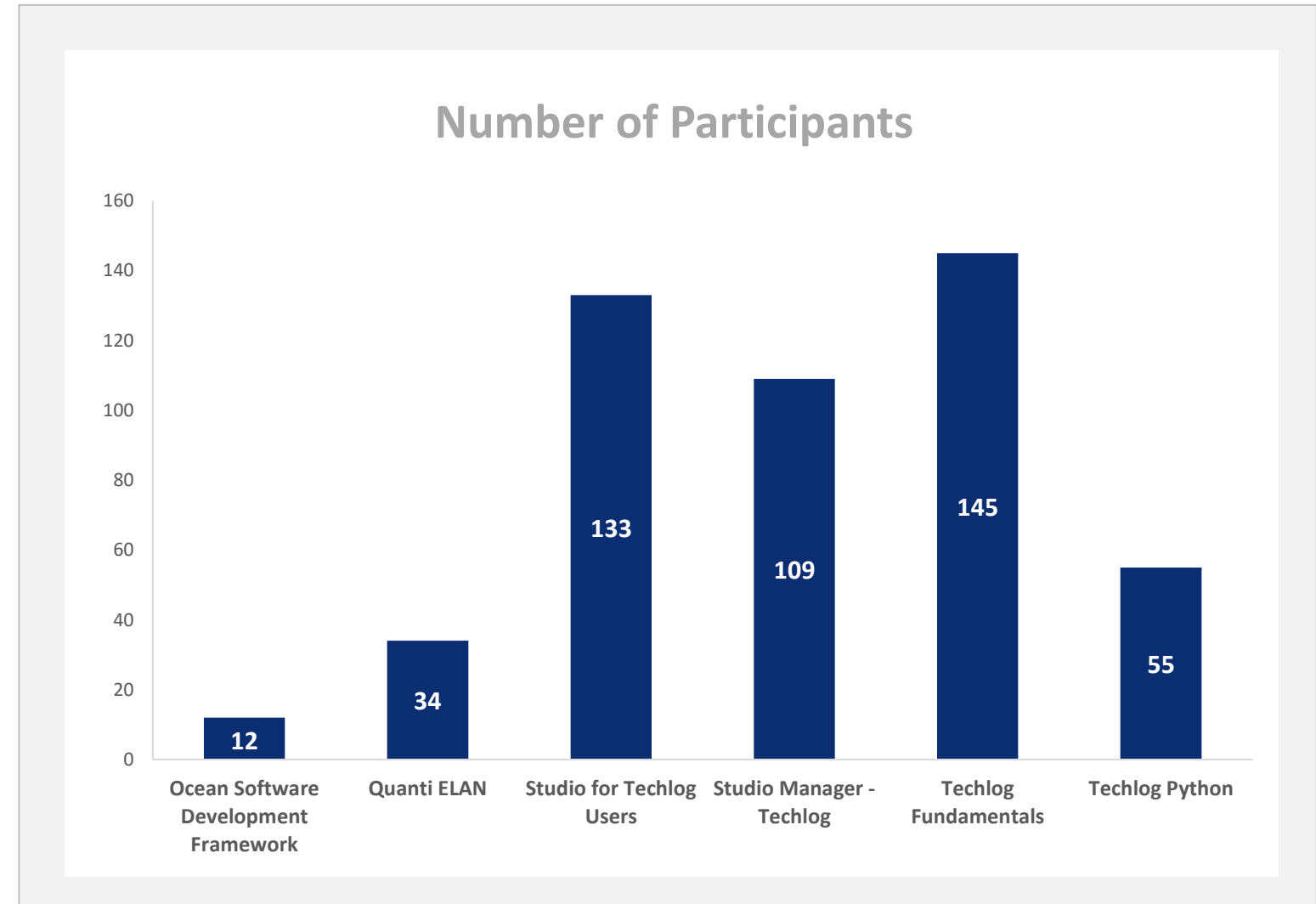
# Training and Support

## Pre-Deployment

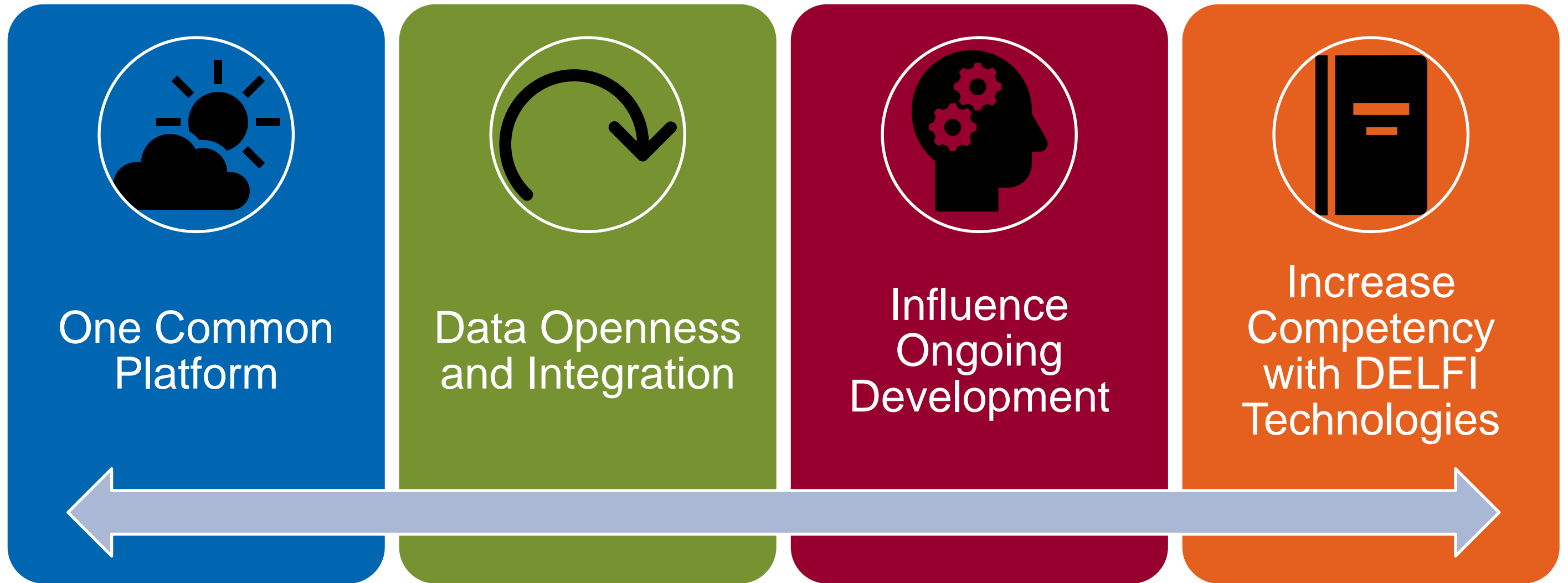
- Customized Techlog training classes
  - › Techlog data model for all users
  - › Python and Ocean for programmers
  - › Advanced classes across different domains
  - › Studio Techlog for users and data managers
  - › Techlog hybrid courses delivered by Schlumberger and Chevron Subject Matter Experts
  - › A total of 43 classes delivered globally to date

## Post Deployment

- Support
  - › 1-week dedicated bubble support to accompany deployment
  - › Onsite support for local business units
  - › Evergreen support through customer support channels



# DELFI Provides Opportunities and Value



# Conclusion

## Leverage Techlog in DELFI to recognize opportunities and business value:

Leverage one common platform

Understand data integration tools

Increase Techlog and DELFI competencies

Influence ongoing development

## Disrupt the technology, not the business:

Employ lessons learned from previous years of Techlog evaluation and Chevron long history around deployment and value driven decisions

## Use best practices:

Stay aligned with Chevron strategy and with BU needs

Leverage Scaled Agile Framework (SAFe) and be flexible: learn, investigate, validate, and adjust quickly

## Acknowledge challenges:

Software migration and digital transformation present challenges:

- Continue collaboration with Schlumberger and Chevron users to enhance Techlog software and develop user OC
- Continue working with Chevron users globally to leverage decades of user experience in petrophysics interpretation software to achieve full adoption
- Embrace constant change as technologies develop and adopt



# Acknowledgment & Questions

**Big "Thank you!" for great teamwork and collaboration to many involved:**

- Subsurface Petrophysics
- Subsurface G&G Ops and Geomechanics
- Subsurface Digital Platform
- Schlumberger
- Microsoft