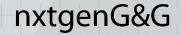


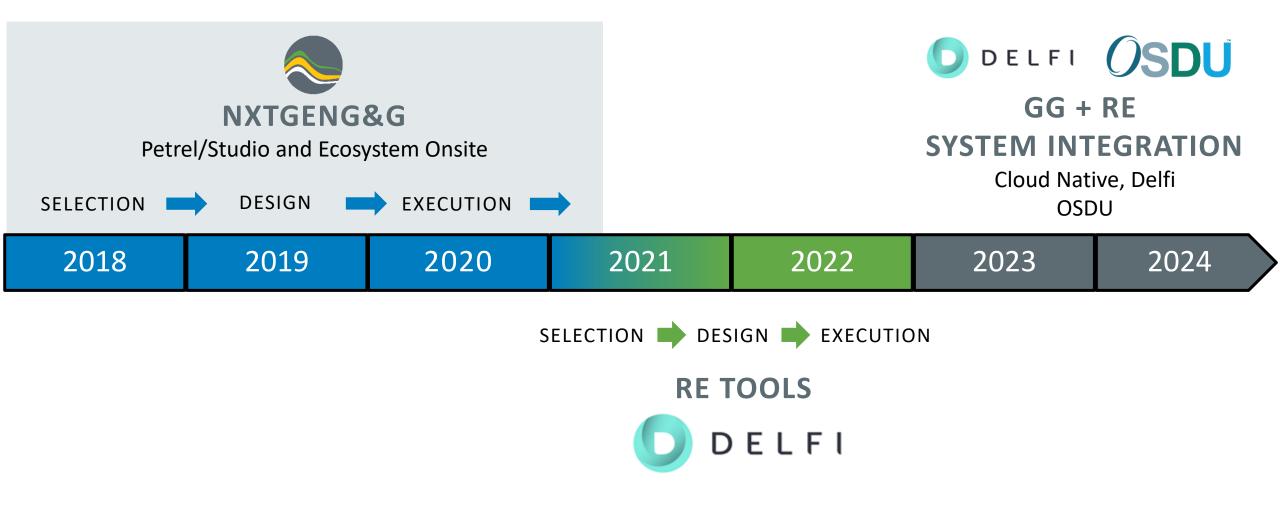
# ConocoPhillips Digital Journey Starts with nxtgenG&G

John Blackburn – Geoscience Capability Lead

**ConocoPhillips:** Ikhide Longe, Rachel Sissenwein, Manish Pradhan, Lacey Sawvel **Schlumberger:** Todd Olsen, Mark Pollinger, Maria Perezhogina









## **Timelines and Strategic Direction**

### VISION:

DELIVER A BEST-IN-CLASS GEOSCIENCE SOFTWARE ENVIRONMENT ENHANCED BY ACCESS TO RELIABLE DATA THAT PROVIDES A COMPETITIVE ADVANTAGE

### STRATEGIC OBJECTIVE

Simplify geoscience ecosystem

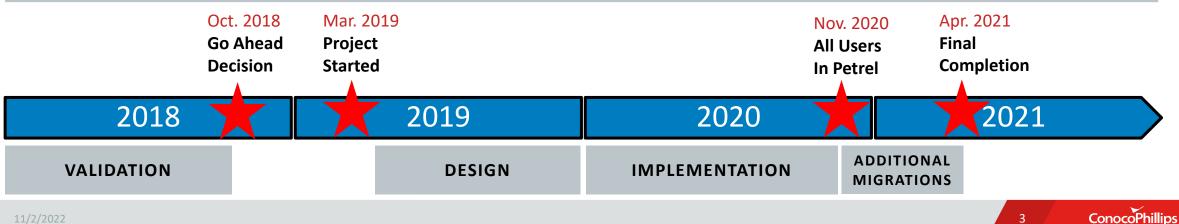
- Transform business practices
- Increase integration across workflows
- Improve data quality
- Improve data management practices

### **PROJECT OBJECTIVE**

Transition 400 Geoscientists to Petrel Migrate 29 business groups By end of 2020

#### **FACILITATION**

Strategic partnership with Schlumberger: Alignment at all levels



## nxtgenG&G Program

### **VISION:**

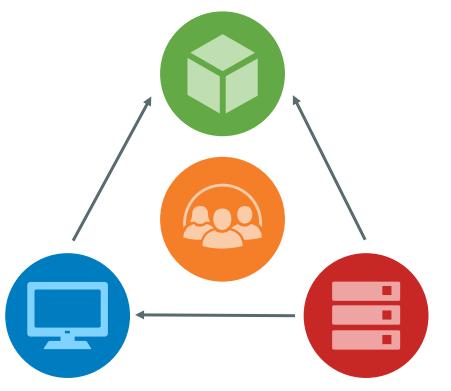
DELIVER A BEST-IN-CLASS GEOSCIENCE SOFTWARE ENVIRONMENT ENHANCED BY ACCESS TO RELIABLE DATA THAT PROVIDES A COMPETITIVE ADVANTAGE

## SOFTWARE & WORKFLOWS

- All staff on Petrel by year-end 2020
- Simplified, integrated tool set, including Petrel and other software

### **PLATFORM**

- Defining an optimized compute environment for Petrel
- Virtual workstations facilitate
  'Work Anywhere' capabilities
- Based on Windows



### DATA

- Rigorous data clean-up
  Data quality improvement
  Data discovery
- Standards
  Coordinate reference
  systems Meta data tags
- Behavioral Change
  Implement data governance

### PEOPLE

- Training
- Global support system
- Global standardization

## PROGRAM

- Enabled by globally funded effort to migrate the geoscience community
- Sustained by global, long-term support model



## Integrated Global Project

### NXTGENG&G GLOBAL STEERING TEAM Sponsors: 3 ConocoPhillips executives, 1 Schlumberger executive

Program Owners: GGRE Decision Board

**IMPLEMENTATION LEADERSHIP** 

Product Owner: John Blackburn IT Portfolio Manager

CONOCOPHILLIPS LEADERSHIP 32 Business 7 IT 3 Schlumberger	SCHLUMBERGER SPONSORS 2 SLB HQ Managers	
CORE DELIVERY TEAM 25 ConocoPhillips 13 Schlumberger 42 Other contractors	SCHLUMBERGER GLOBAL SUPPORT 23 Training 14 Mentors 21 Core and support team	



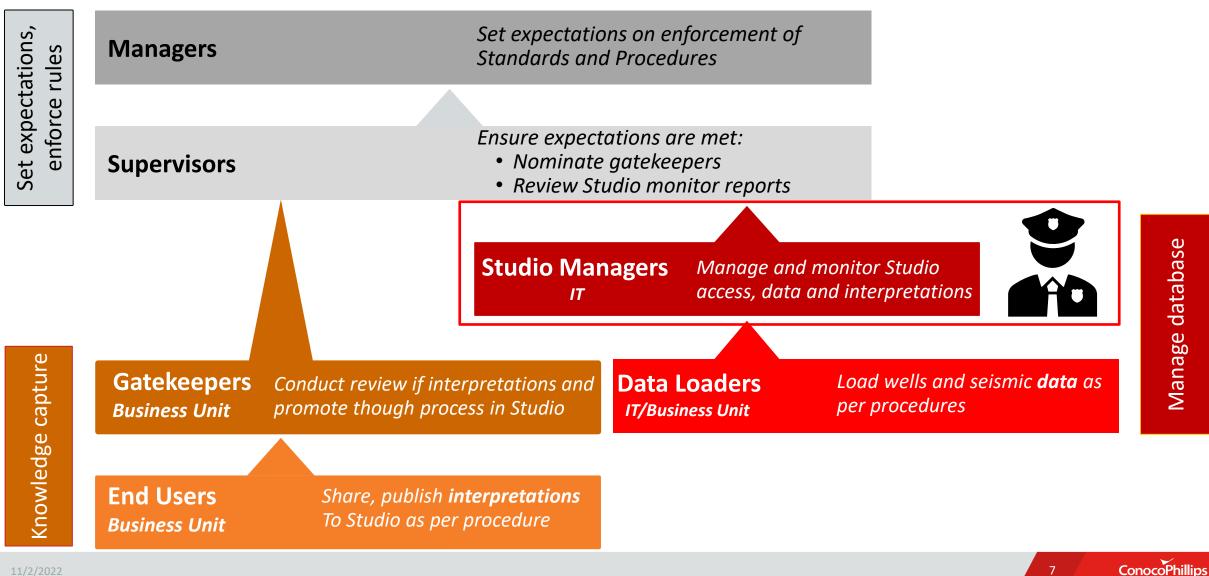


## Key Components to a Sustainable Data Ecosystem

- Data Governance
- Knowledge Capture and Data Management
- Log Harmonization

## Global Alignment on Geodata Management

### **Change from Passive data management to ACTIVE data management**



## Objectives:

- Ensure foundational data is not changed
- Improve data discovery
- Enhance data quality over time
- Keep Studio repository clean

## **CULTURE CHANGE**

### Geoscientists take ownership of:

- Capturing critical data
- Interpretation quality
  IT own foundational data quality

### THREE QUALITY ATTRIBUTES REQUIRED FOR ALL STUDIO DATA:

<b>Quality Attribute</b>	Global Tag	Description	Auto-delete	Write
1. Project	Asset/Area	AOI		
<b>2. Data Origin</b> (Confidence)	Internal	COP generated		
	External	Other Co./Public Data		
	Restricted	Restricted use data		
	Legacy	Unknown origin		
	JV	Joint Venture owned		
	JIP	Joint Industry Project owned		
3. Data Status	Temporary	Short term share	30 days	All
	In Progress	Multi-interpreter working	90 days	All
	Locked	Single interpreter working	90 days	All
	For Approval	Flags Gatekeeper	no	All
	Approved	Ready to promote	no	Gatekeeper
	COP*	Best available data	no	Studio manager



## **Global Well Log Standardization**

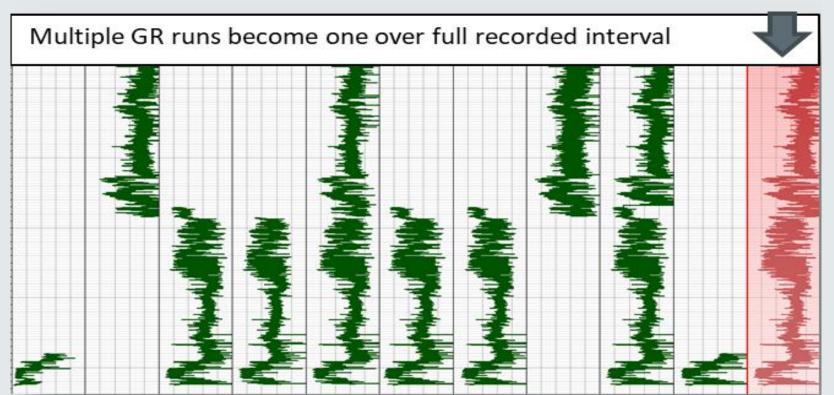
## Challenge

- Global well logs in all Petrel projects
- Log aliasing in Petrel
- Log quality
- Data consistency

## Advantages

- Saves time creating log alias
- View all of valid data available
- Standard team displays
- Easy to transfer scripts around globe
- Consistency team use the same data
- Ready for global analytics

### CREATING 'AUTO' LOGS



### **Standardized log names**

- Prefix AUTO or GOLD
- 49 Global standard log names



## Challenges During The Project







**SCOPE CHANGE** 



**GLOBAL SUPPORT & GOVERNANCE** 



