



# Digital, Data Analytics, and Automation: Value Creation Through Digital E&P

---

19-20 NOVEMBER 2024 | BANGKOK, THAILAND



# Importance of Data Lake and its success – A case study

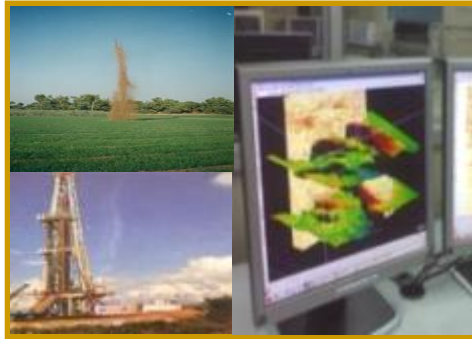
MOUSUMI DEKA

OIL INDIA



# About us – Oil India Limited (OIL)

Exploration



Production



Transportation



Renewable Energy



- Legacy of more than 100 yrs.
- Rich in history – 1<sup>st</sup> oil-well drilled in Asia in 1889 in dense-forest of North–East India



# Type of Information

## Core Activities



## Technical Information

- Specialized Industry Standard Software

## Non- Core Activities

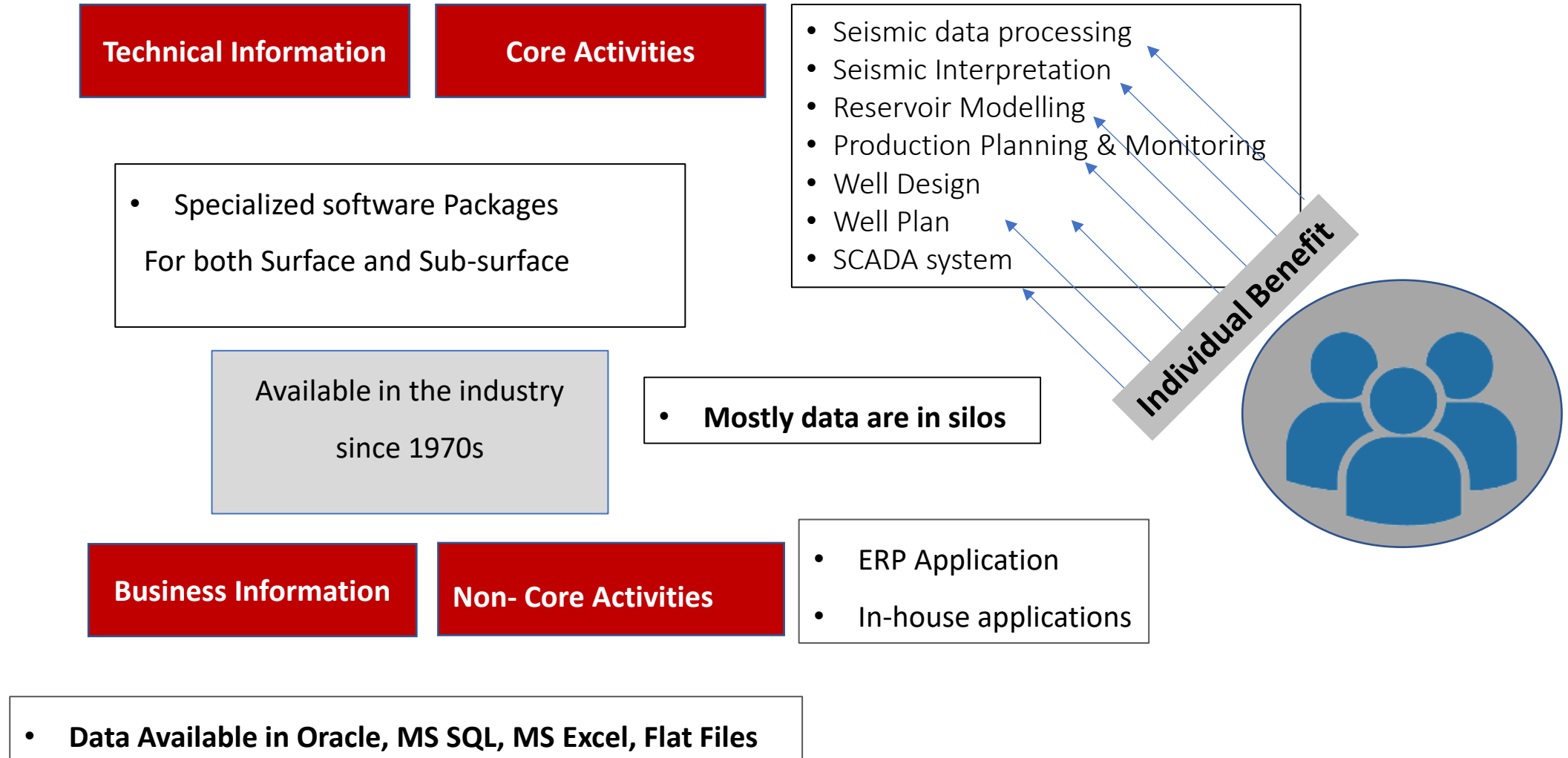


## Non- Technical Information

- Business Application

Early Adoption of Digital Technology in late 1970s ..... Digital Transformation Journey started 2018

# Type of Information



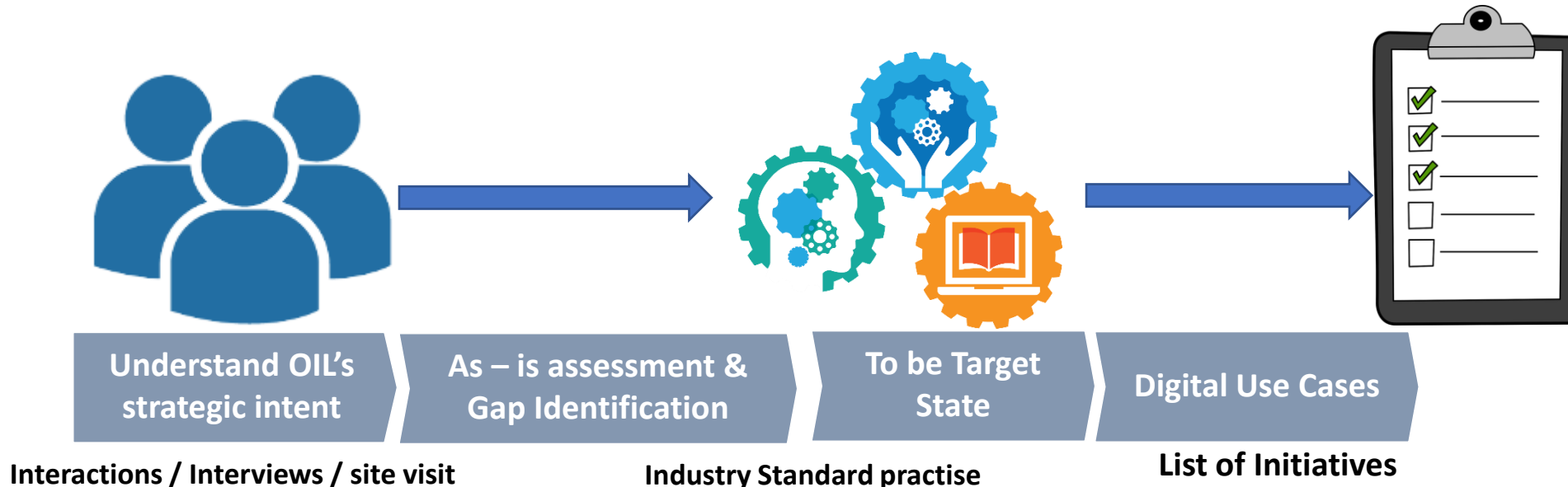
# Digital Transformation Journey

**OIL's DIGITAL TRANSFORMATION : Towards - digitally driven agile company**

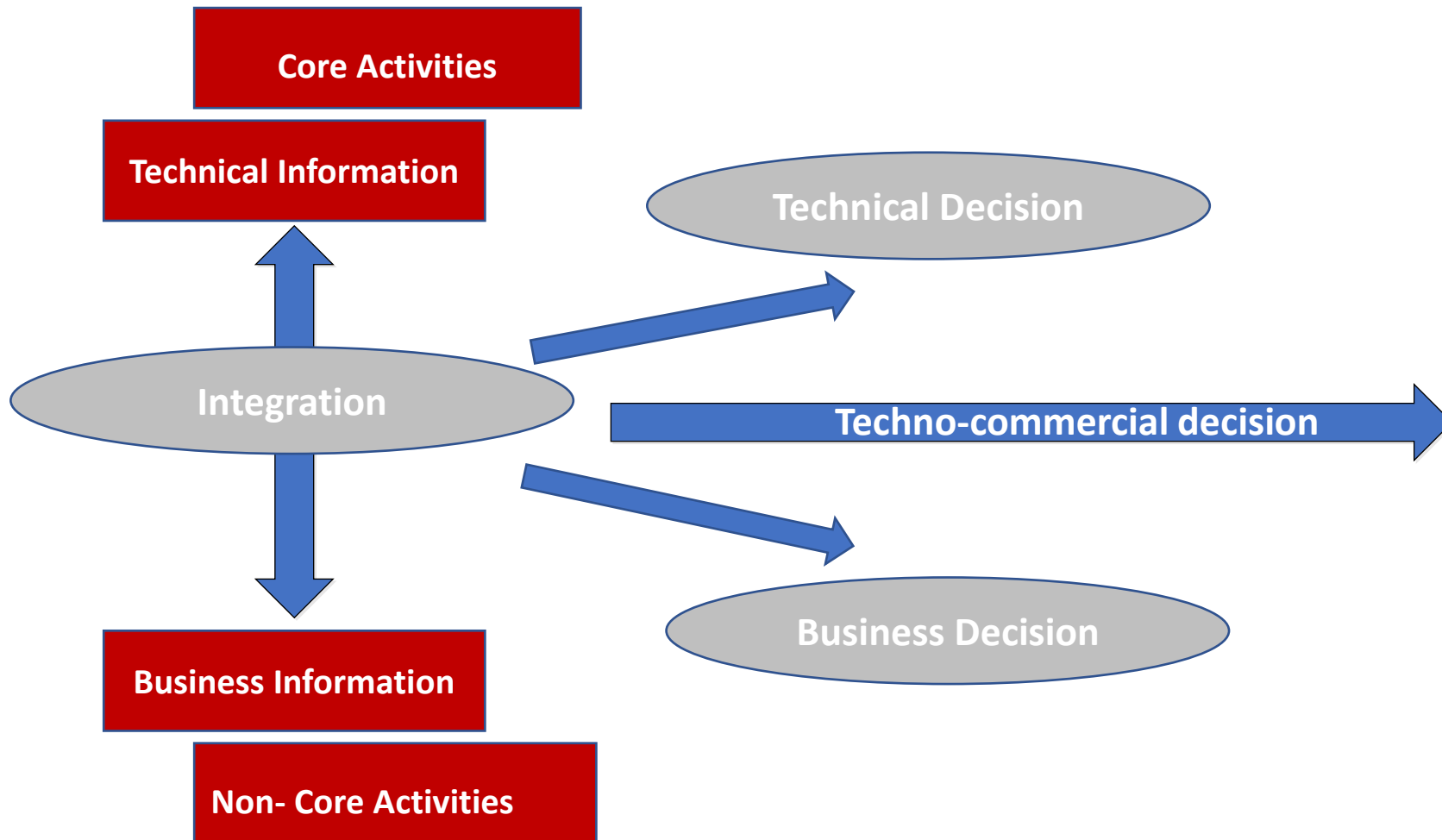
**To increase efficiency, productivity and enhanced safety**

**DIGITAL ROADMAP CREATION : A holistic approach**

The job of developing and implementing the digital roadmap is being carried out by consultant engaged by the Organization in collaboration with Organization's multi-disciplinary team enriched with various domain experts.



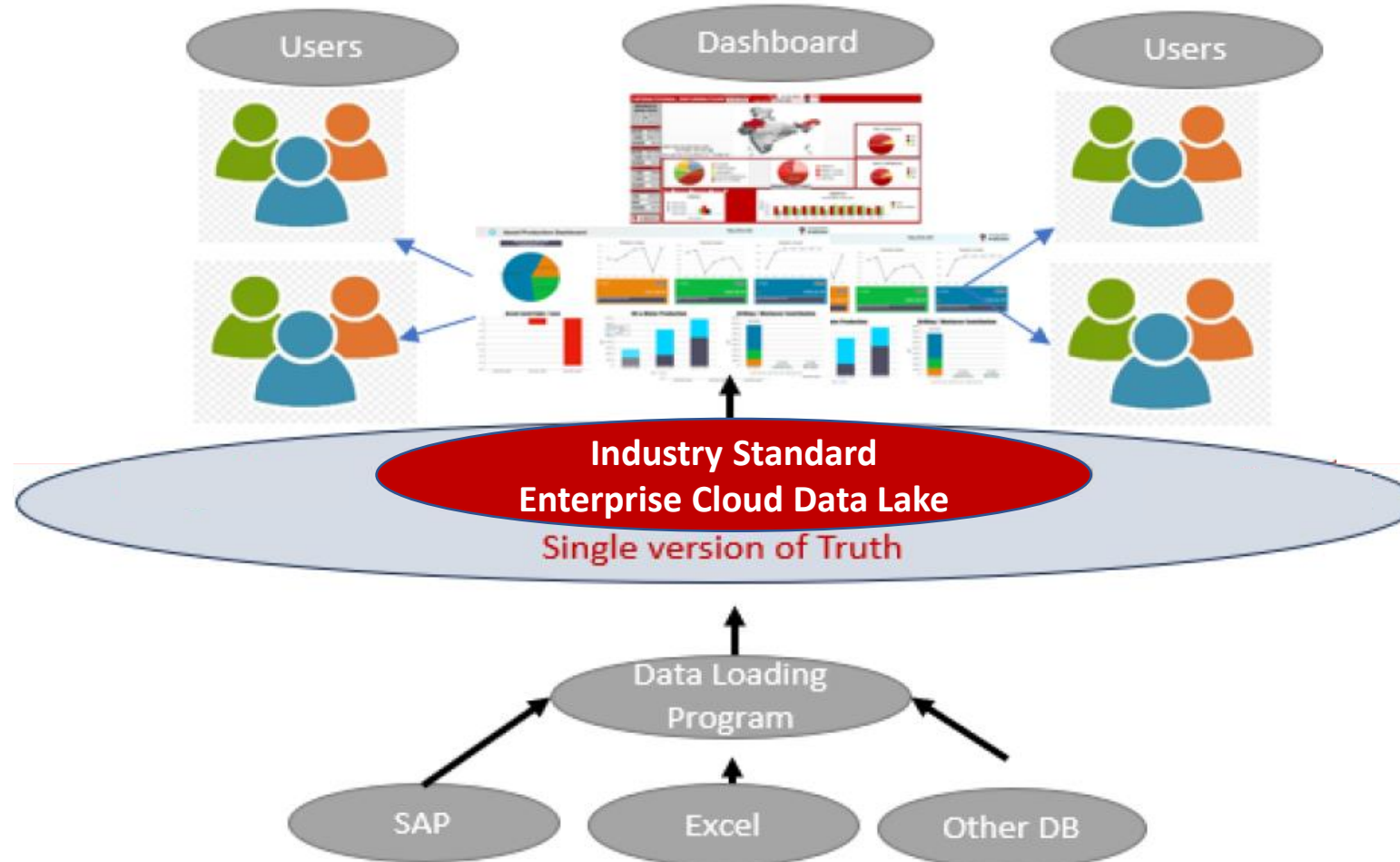
# Emerging Need – Agility – Power of Data



# Power of Data

## Self Service Dashboard

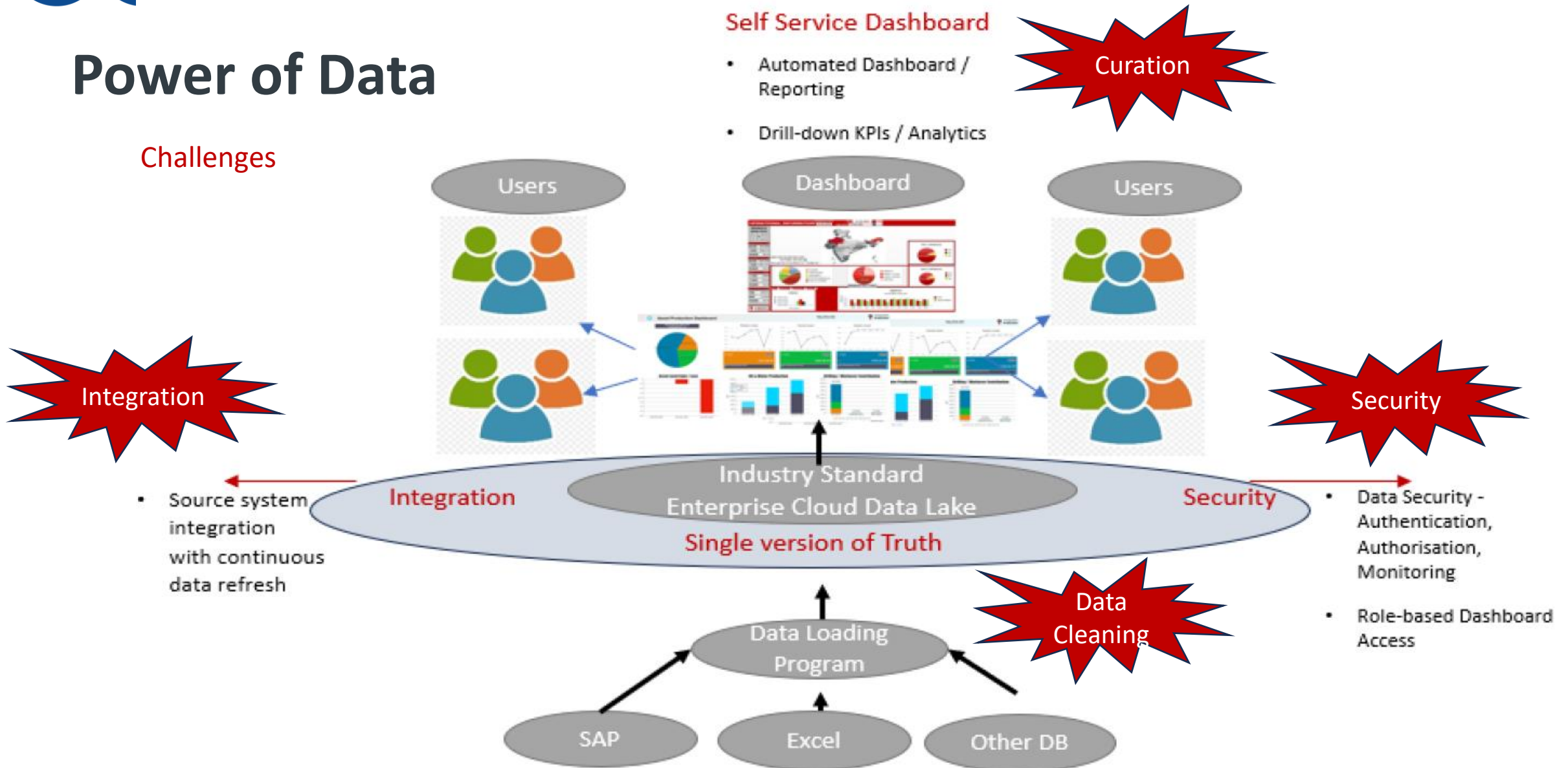
- Automated Dashboard / Reporting
- Drill-down KPIs / Analytics





# Power of Data

## Challenges



# Power of Data Agile Dashboard

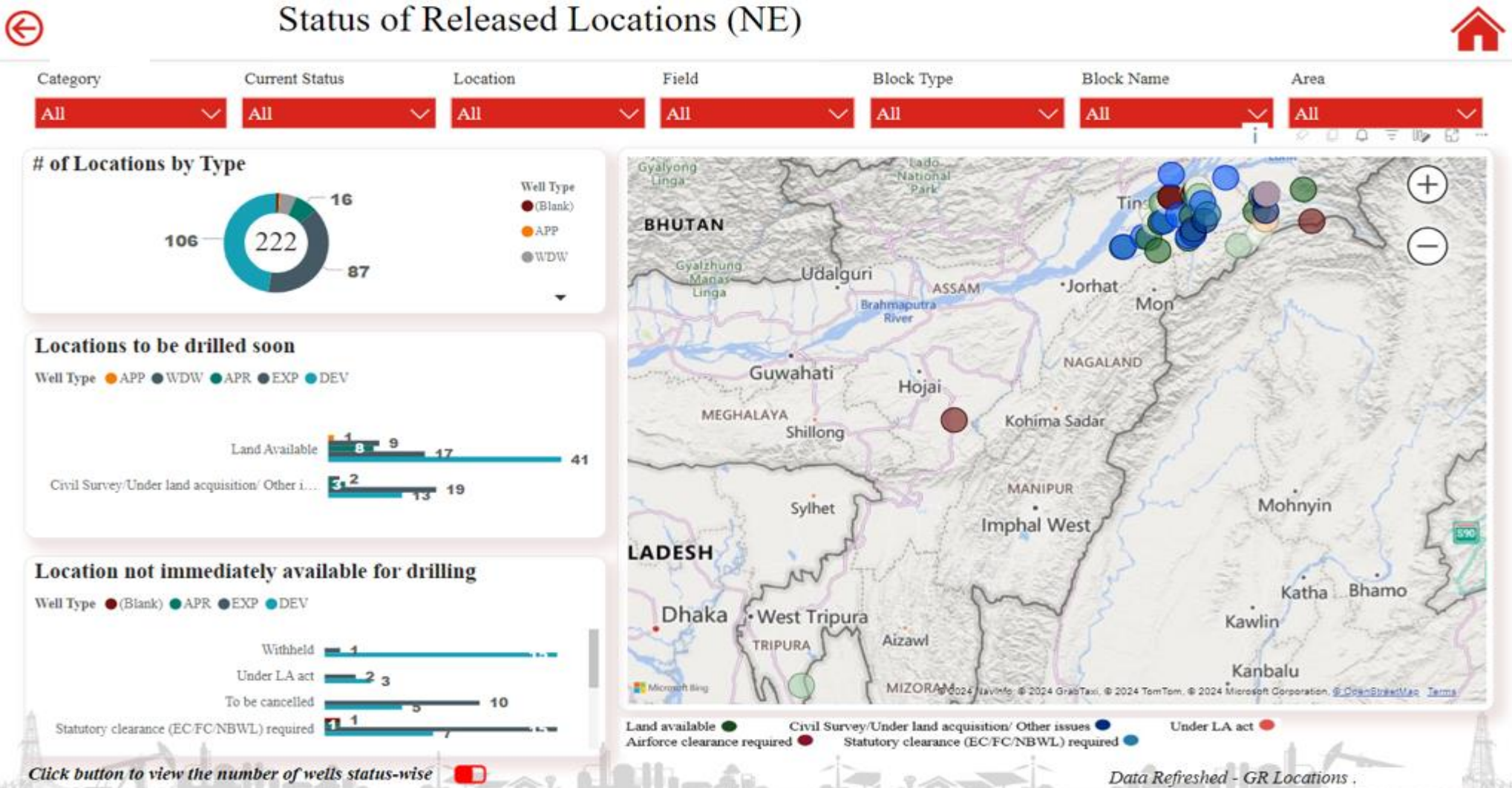
**DARPA**  
Digitally Augmented Reflection of Performance & Analytical Narratives



- Geophysics
- G&R
- Drilling
- OGPS
- E&D
- Crude Oil
- N Gas
- LPG
- Well Logging
- Pipeline
- CoEES
- Planning
- HRD
- Finance
- BD
- C&P
- HR Learning
- RE
- SI
- Projects
- Medical



# Power of Data Agile Dashboard

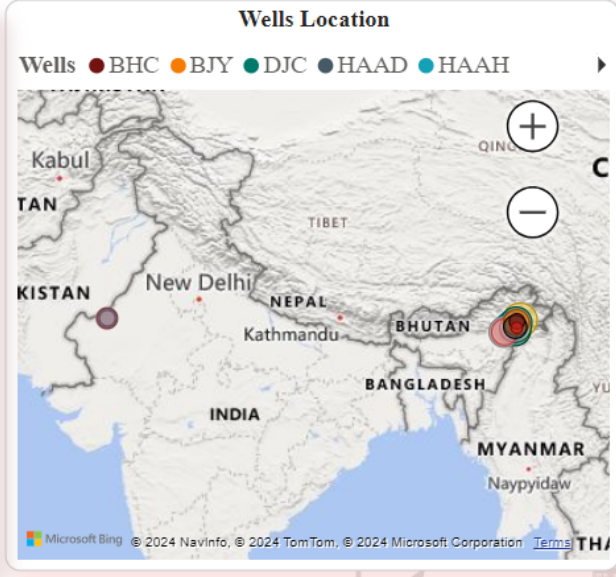
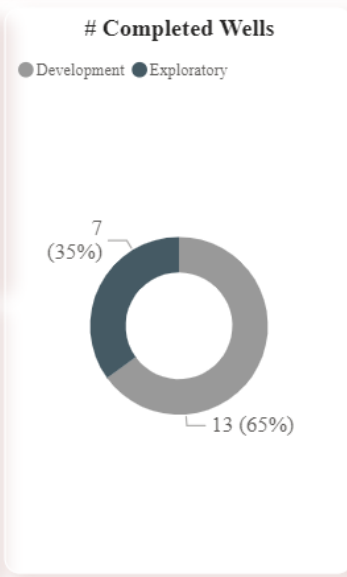
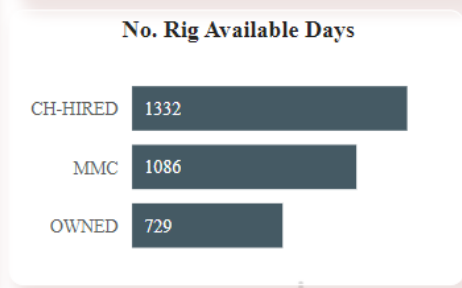
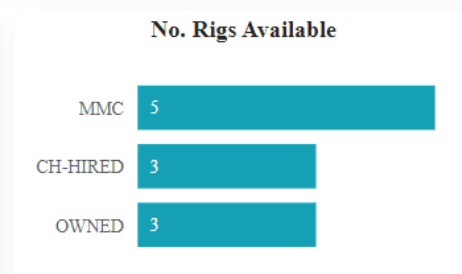
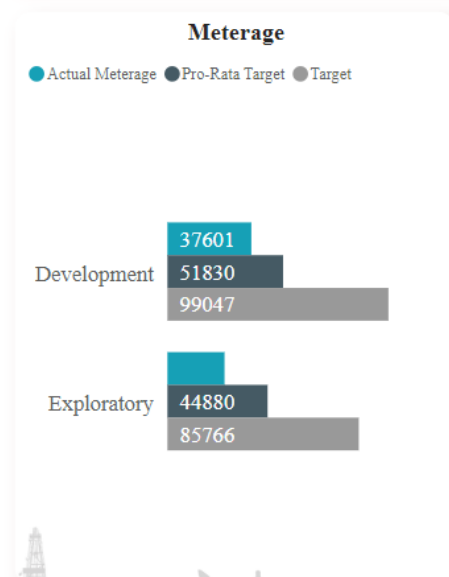


# Power of Data Agile Dashboard

## Progress / Performance Dashboard 🏠

Well Type: All | Well Sub Cat: All | Well Profile: All | Block: NOMINATED | State: All | Operational Area: All | Owned/Hired: All | FY, Quarter, Month: Current FY

# Completed Wells <span style="color: green;">✔</span>	Target: 58	Meterage	Target: 184,813	No. of Rigs Available <span style="color: red;">🏠</span>	Rig Available Days <span style="color: red;">🏠</span>
20	69% <span style="color: orange;">▲</span>	63,183	65% <span style="color: orange;">▲</span>	11	2853
	Prorata Target: 29		Prorata Target: 96,710		Note : Rig Available days KPI is available as on date only



# Power of Data Agile Dashboard

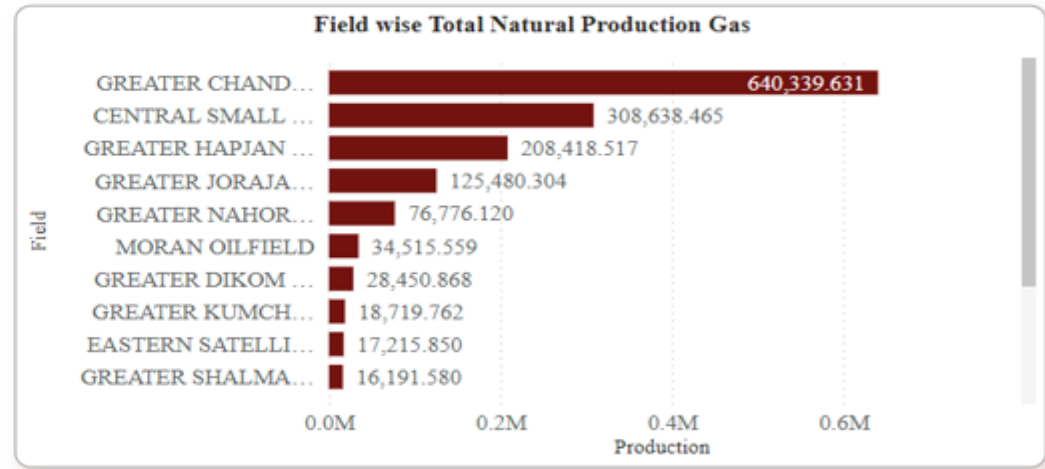
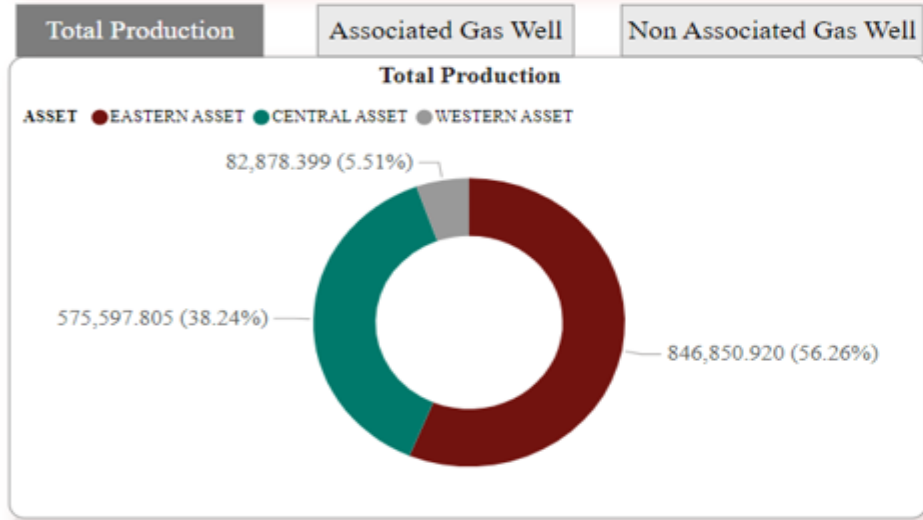
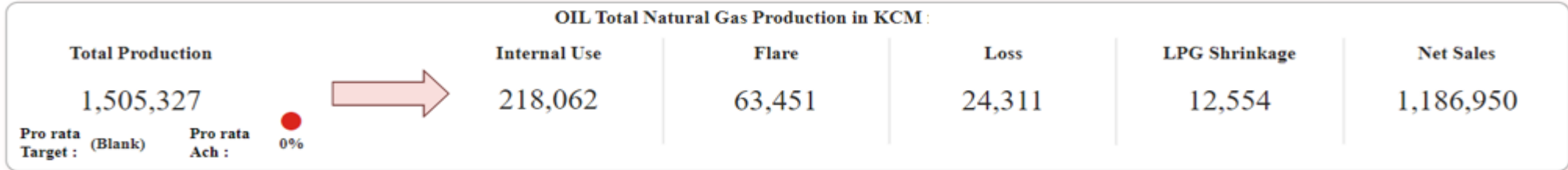


## Production Reconciled (AS + AP)

*\*Unit for this report is KCM*



Well Type	Well Name	Asset	Field	Lease	Installation	State	FY, Quarter, M...
All	All	All	All	All	All	All	Current FY



# Power of Data Agile Dashboard

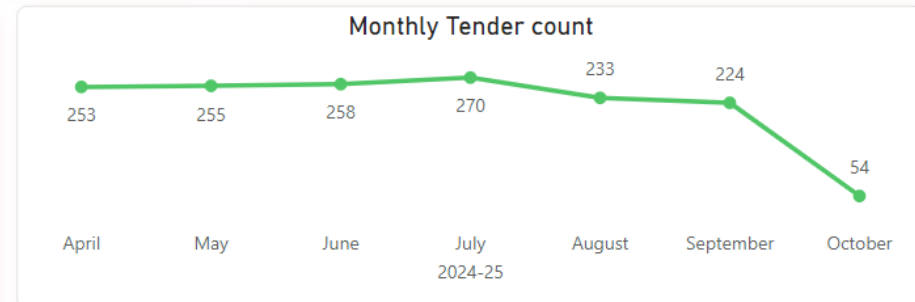
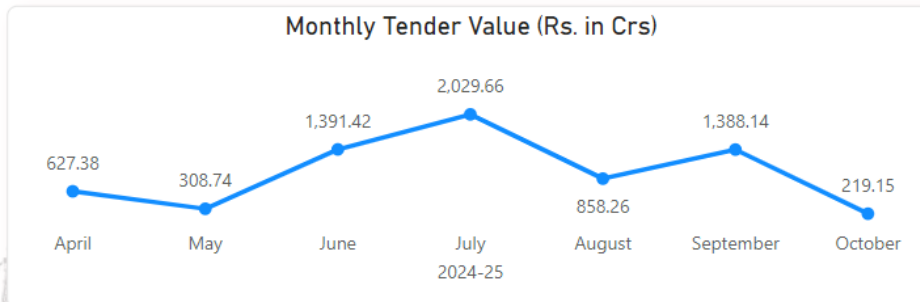
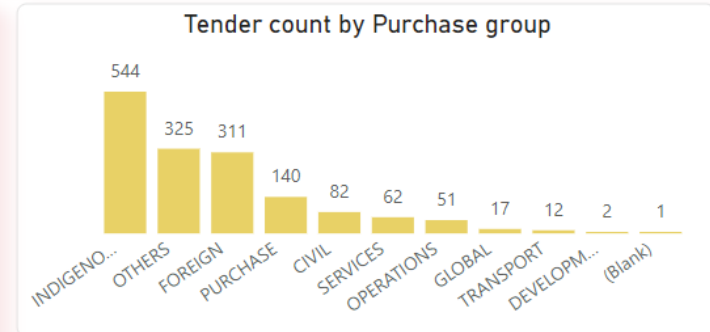
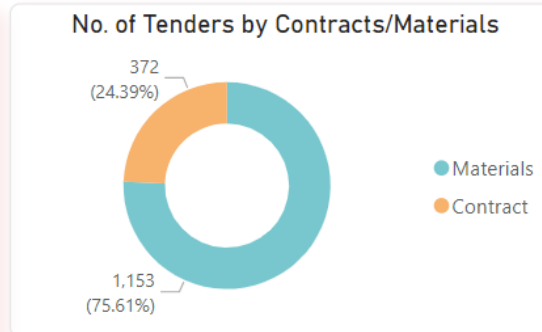
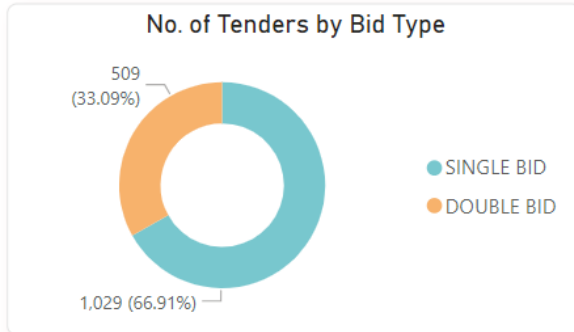
## Tender Report



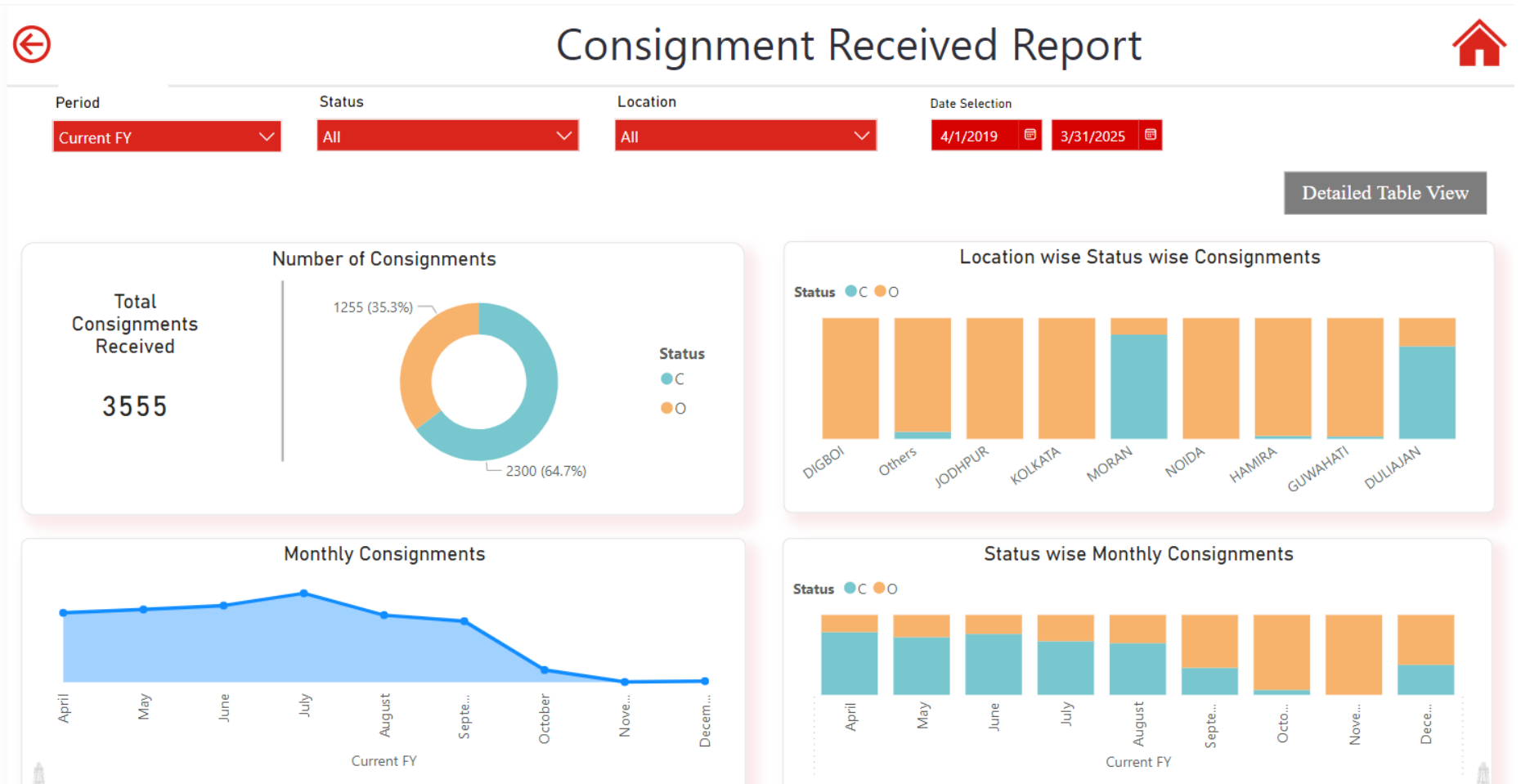
Period	Sphere	Department	Section	Bidding Type	Integrity Pact	MII Policy	GeM Tender Check
Current FY	All	All	All	All	All	All	All

Total No. of Tenders	Total Value of Tenders (Cr)	Non GeM Tenders	Non GeM Tender Value (Cr)	GeM Tenders	GeM Tenders Value (Cr)
1,547	6,822.74	961	4,944.13	586	1,878.61

Detailed Table View



# Power of Data Agile Dashboard

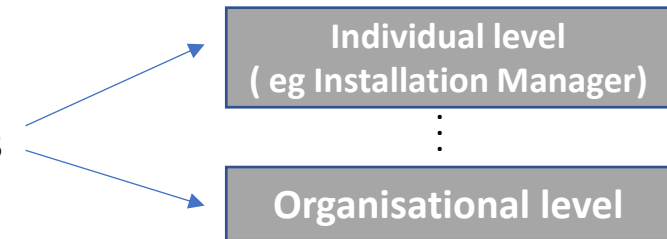


# Power of Data

Results & Benefits

**Results** : Visual impacts on Decision making at various levels

**Benefits** : Increased efficiency, productivity







**Thank you**