NDR 2019 Workshop

Today's digital world demands data. It's the fuel that feeds every key industry process. It is used to fulfill regulatory and legal requirements, enables good decision making, feeds analytics engines and ensures effective business operations.

This interactive session will focus on the challenges faced by the regulatory world as they build the systems necessary to steward their data assets. Together, we will focus on the challenges of logistics, technology, communications, data quality and completeness, and retention.
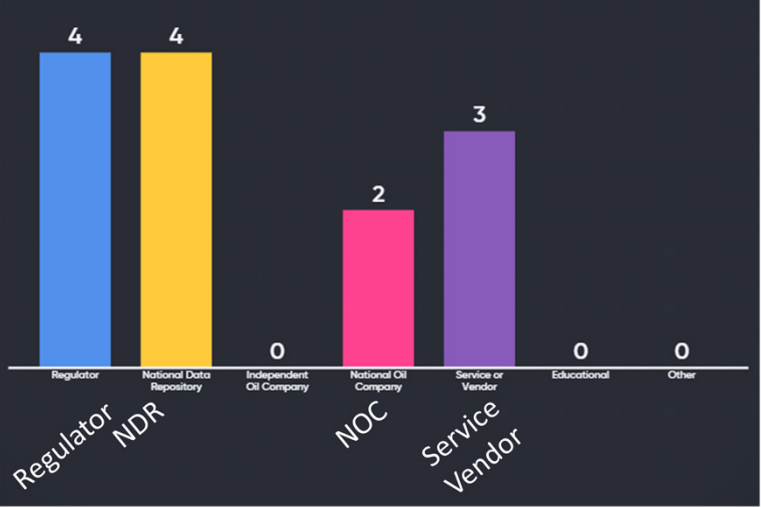
You can still participate!

We are data organizations, and we know you recognize the importance of collecting data!
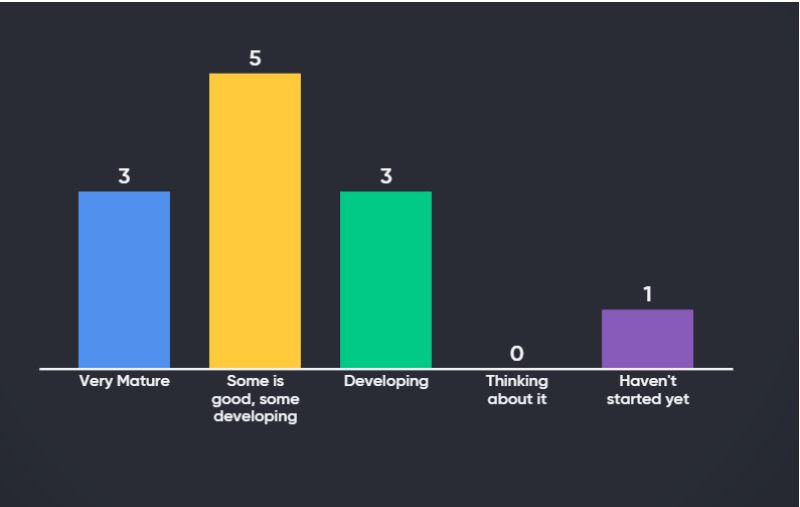
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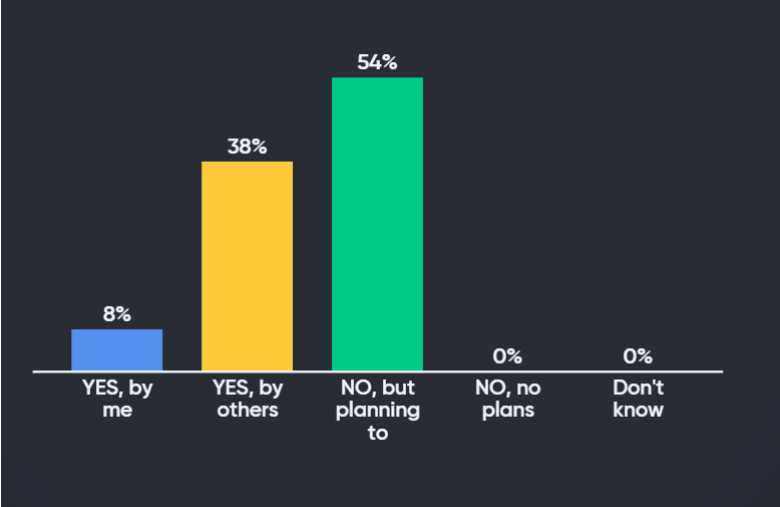
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What Kind of Organization?
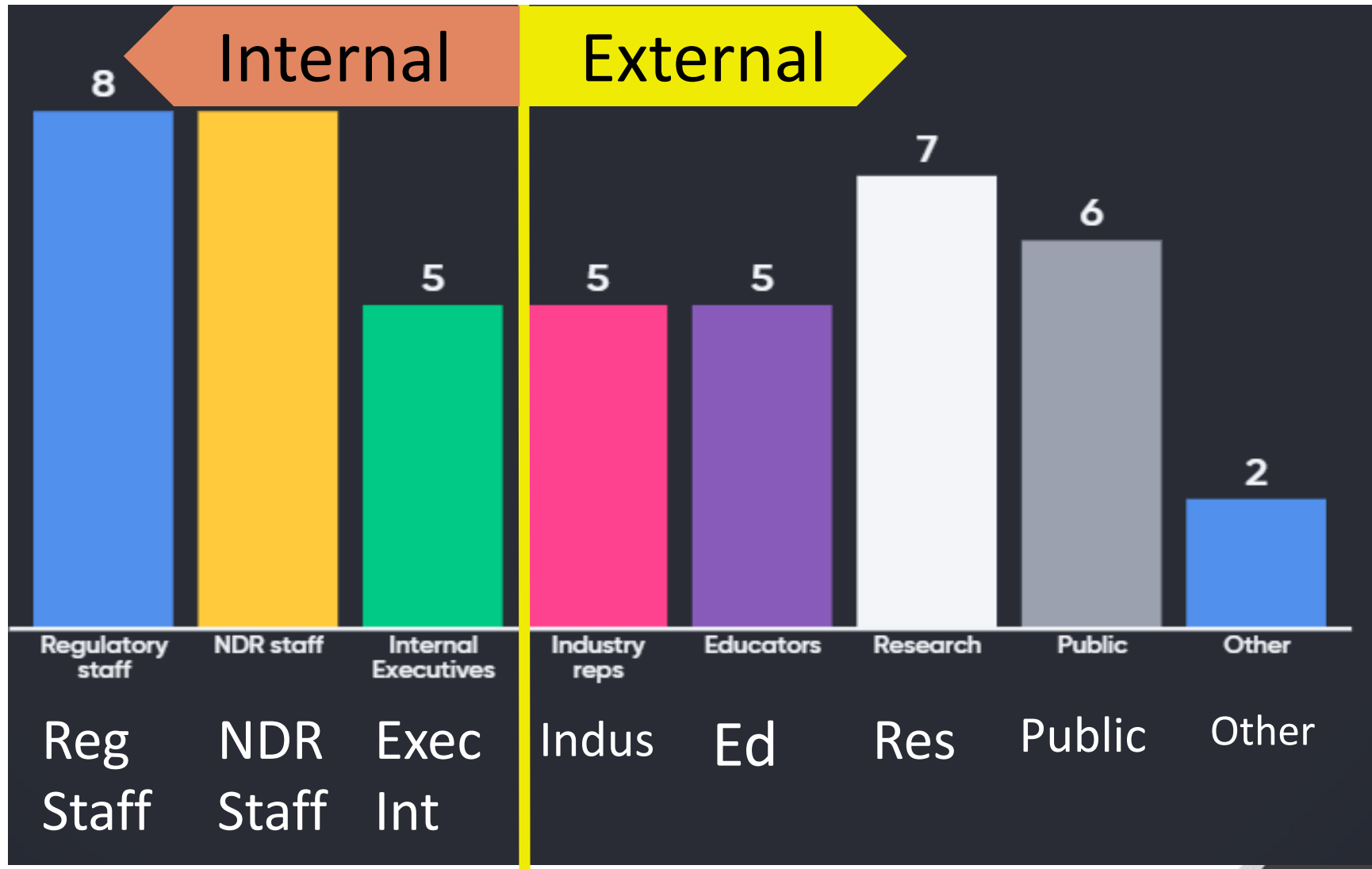

What countries?

How mature is data capability?

Doing Analytics Now?

Who has access to your data?

Open Data ≠ Useful Data

Do you have data autonomy?

5 Use proprietary software with vendor model

5 Use in house software with in house model

4 Use software based on industry standards

5 Data systems are based on industry standards

1 Data is managed by vendors

2 Data is managed by consultants or contractors

8 Data is managed by employees

The Regulatory Data Stack

Government Policy

Legislation

Regulation

Reg guidelines & instructions

Forms and procedures

Applications and Interfaces

Technology (servers, NW)

Data stores

Some parts of the regulatory stack can create limitations to creating great processes and data.

Example:
if your data store doesn't have places to put hydraulic fracture fluids, but your regulations require them to be reported, storing and managing this data (usefully) may be difficult.
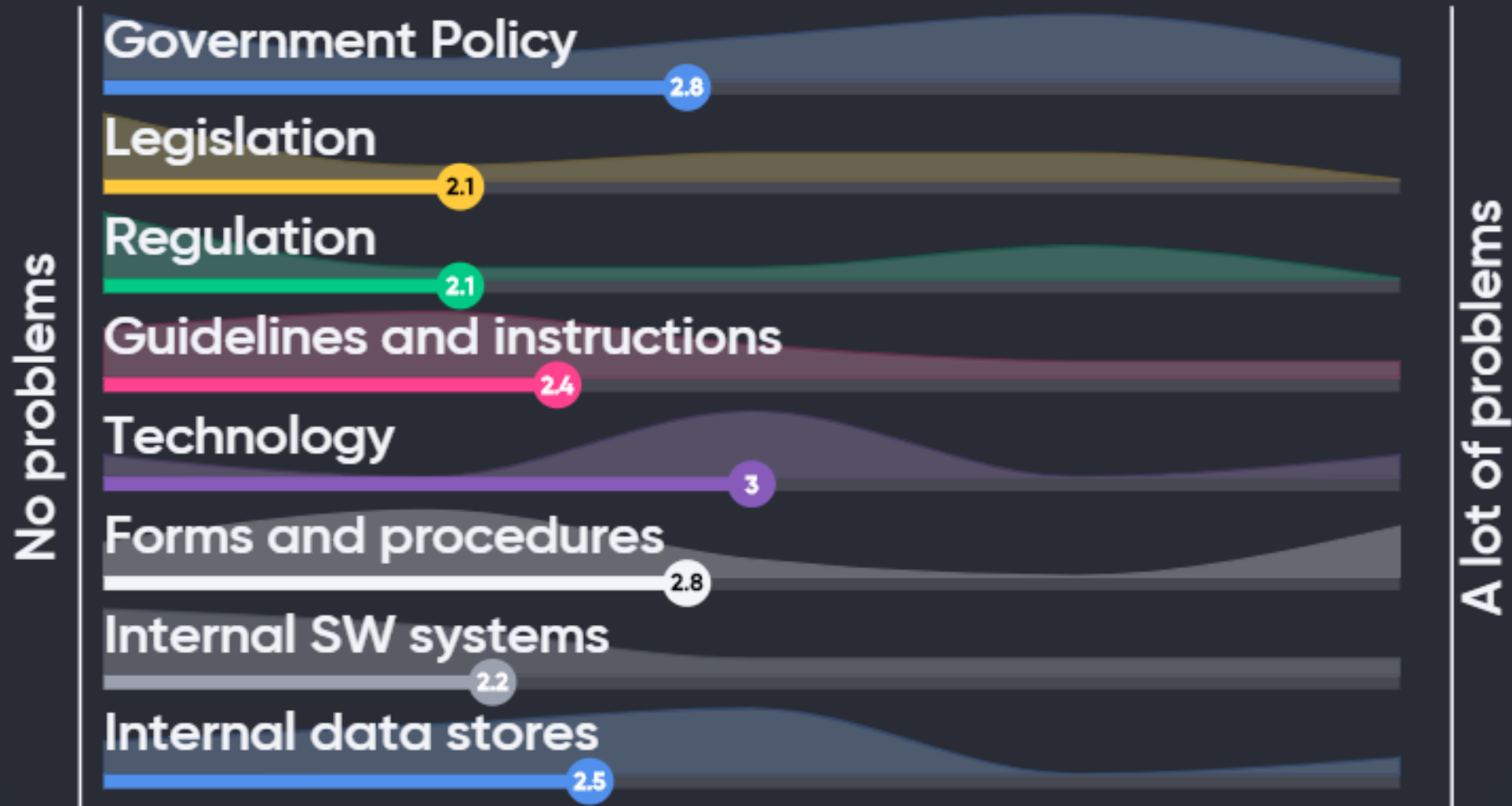
Example:
Your regulations require the submission of seismic data on tapes, and your client stores this data in the cloud.
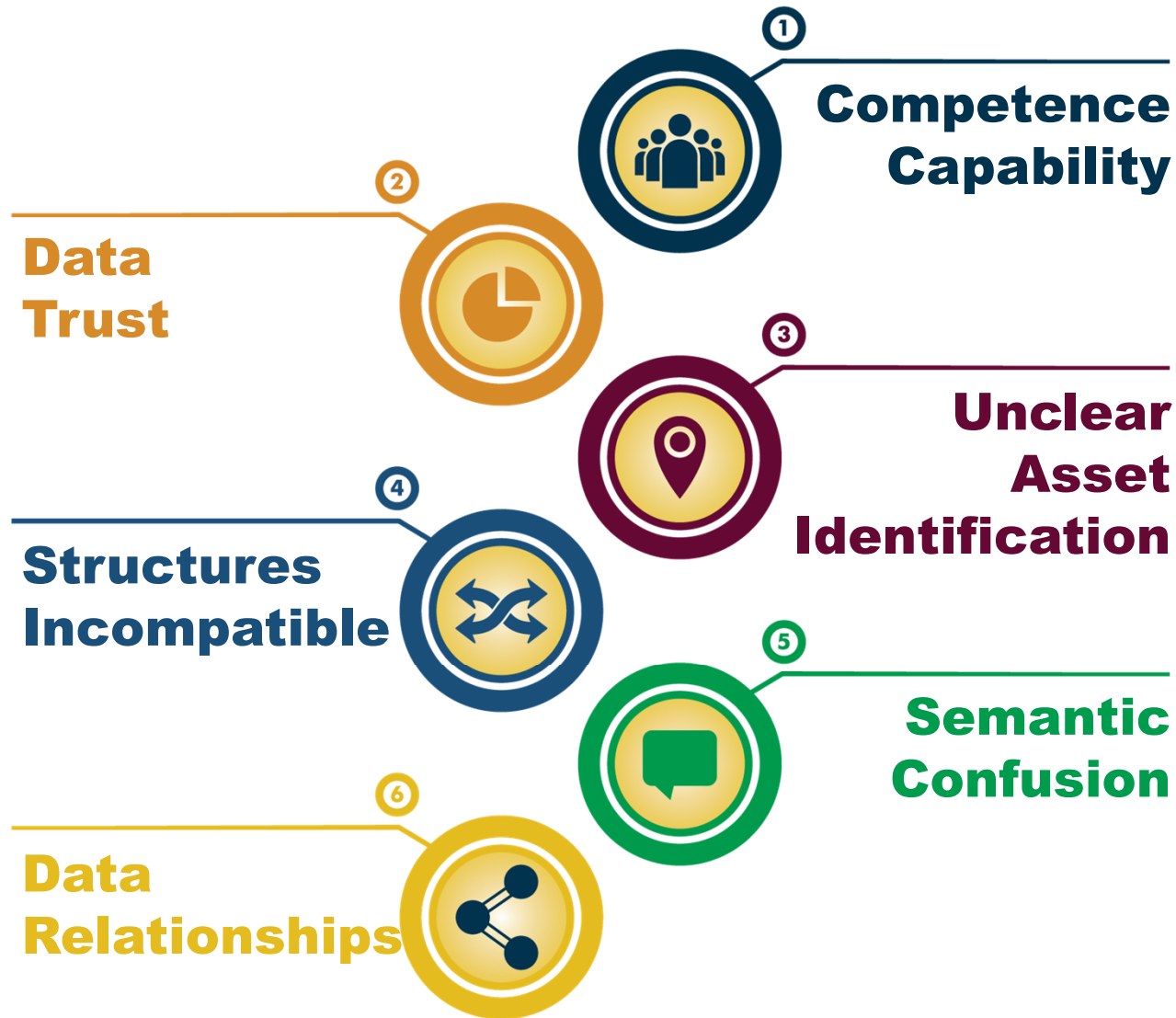
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The Regulatory Data Stack

A Few Key Data Challenges

Competence Capability ①

Data Trust ②

Unclear Asset Identification ③

Structures Incompatible ④

Semantic Confusion ⑤

Data Relationships ⑥

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Credentials and Training Programs / Year

No program					Degree or Certificate

Management staff — 2

Team leads — 2

10+ years experience — 1.8

5 – 10 years experience — 1.8

0 – 5 years experience — 1.6
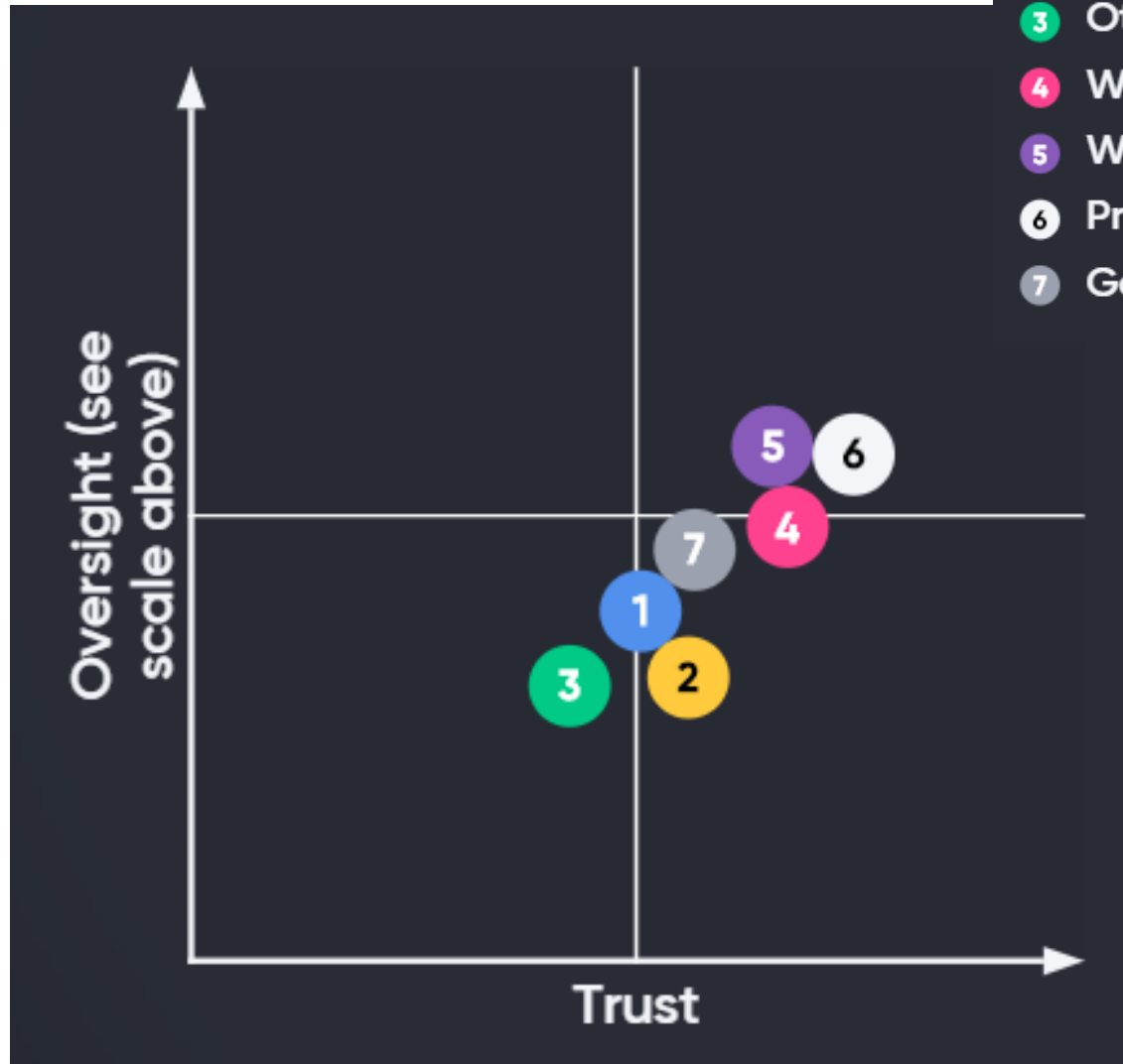
0	1	2-3	3-4	5+	Cred

Data Oversight and Trust

What level of oversight do you have?

1. We have NO control
2. Ask the operator to fix, no penalty
3. Require the operator to fix, no penalty
4. We can fix internally
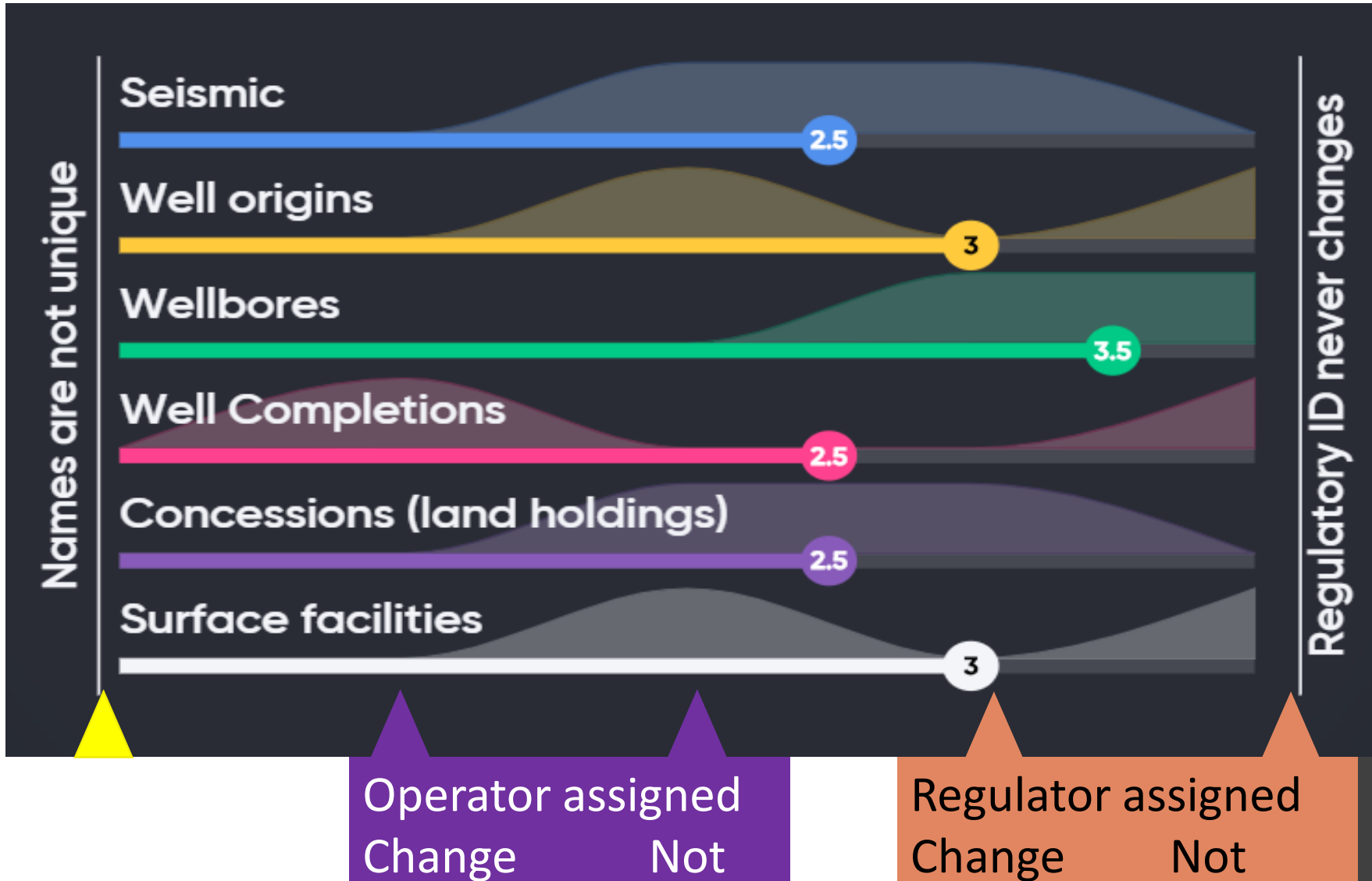5. Require operator to fix, penalties apply

Legend:
1. Seismic navigation data
2. Seismic processed
3. Other geophysical (grav, mag...)
4. Well header and location data
5. Well logs, cores, test etc
6. Production data
7. Geochem, paleo etc

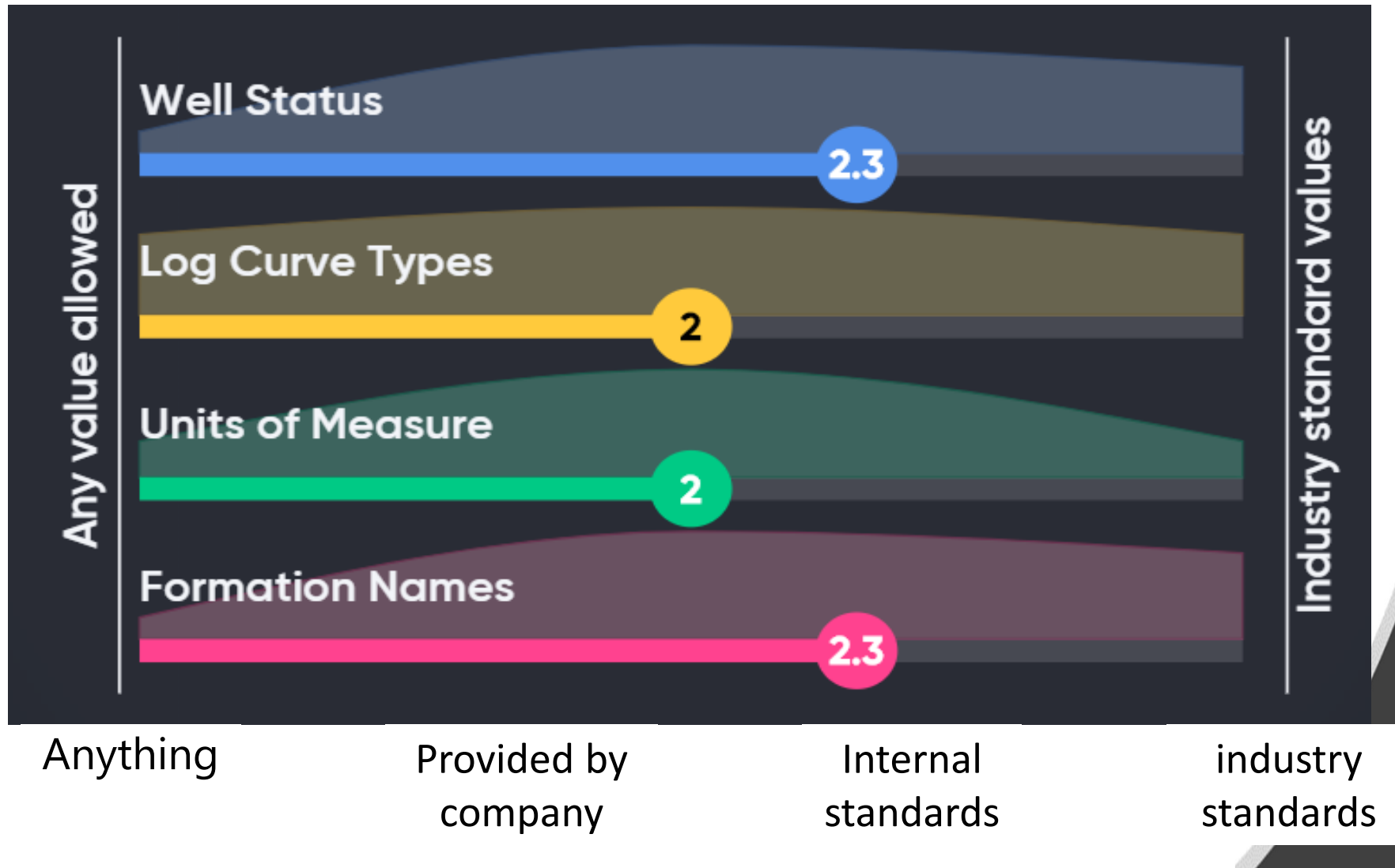Oversight (see scale above)

Trust

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Asset Identification

Structural Compatibility

Do you have the same data in more than one data store?
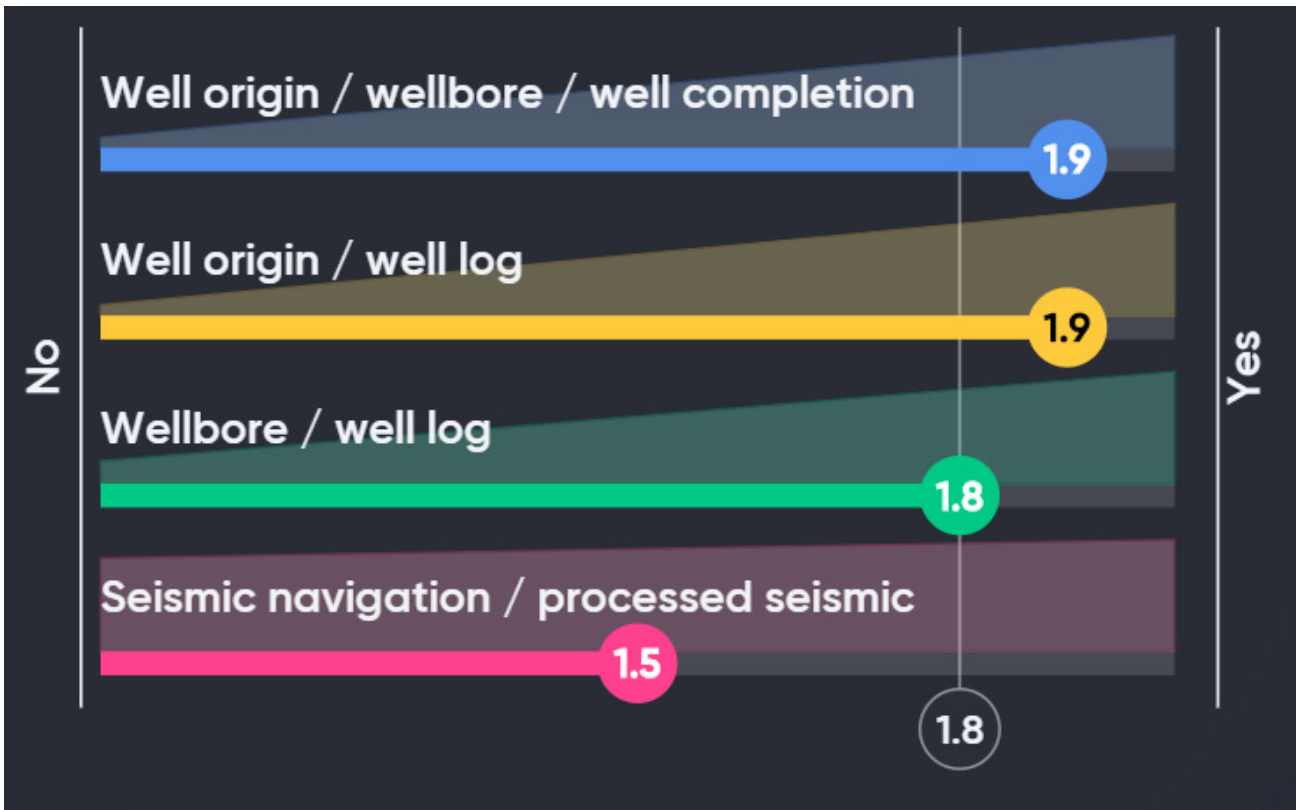
Do you combine data from one data store with another?

Data not in a digital store

Category	Value
Well data	2.4
Seismic data	2.2
Surface facilities	1.7
Concession	2.2
Regulatory compliance	1.3

FULL data integration

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Do you use set vocabularies?

Do you capture object relationships?

Do you capture well hierarchies?

Are logs tied to well headers or wellbores?

Are seismic navigation and processed seismic linked?