

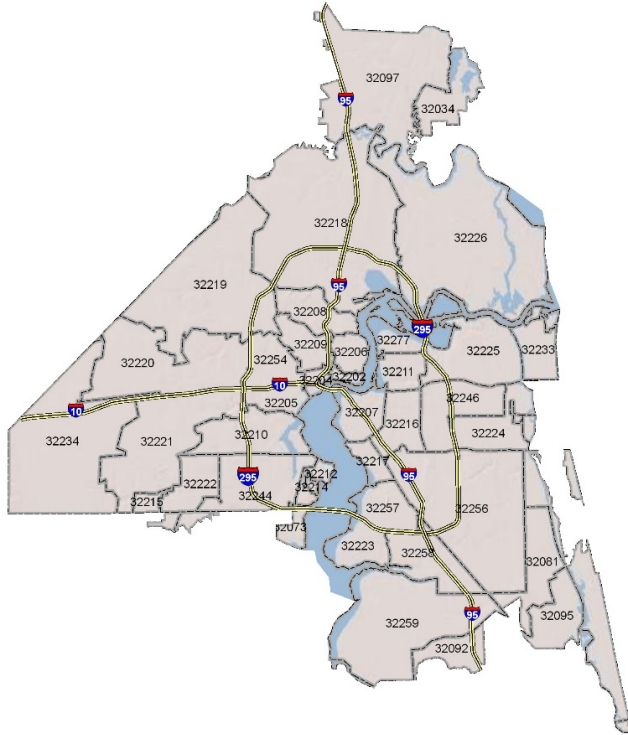


**DISTRIBUTECH<sup>®</sup>**  
CONFERENCE & EXHIBITION

# **WELCOME TO DISTRIBUTECH**

**FEBRUARY 5-7, 2019 • #DTECH2019**





AUGUST 2018



## JEA Background

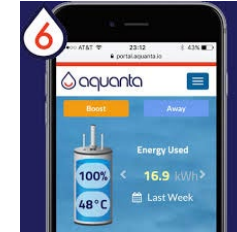
### JEA at a Glance

- Electric, Water and Sewer Utility of Jacksonville, Florida
- 8<sup>th</sup> largest municipal electric utility in the US
- Service area approximately 900 square miles
- 7000 miles of electric distribution line – 56% underground
- Customers:
  - Electric – 470,000
  - Water – 350,000
  - Sewer – 272,000
- Approximately 1900 employees
- System Peaks:
  - 3250 MW Winter 2010
  - 2937 MW Summer 2007

# Pressures on our Business

New or improved technologies have forced changes to business models.

- Available consumer products for energy efficiency are cheaper and improving exponentially.
- Greater push from regulators and consumers for green energy.
- Stakeholders expect greater operating efficiencies, customer, and community service.



# How Do We Tame The Data Beast?

## Our Data Strengths!

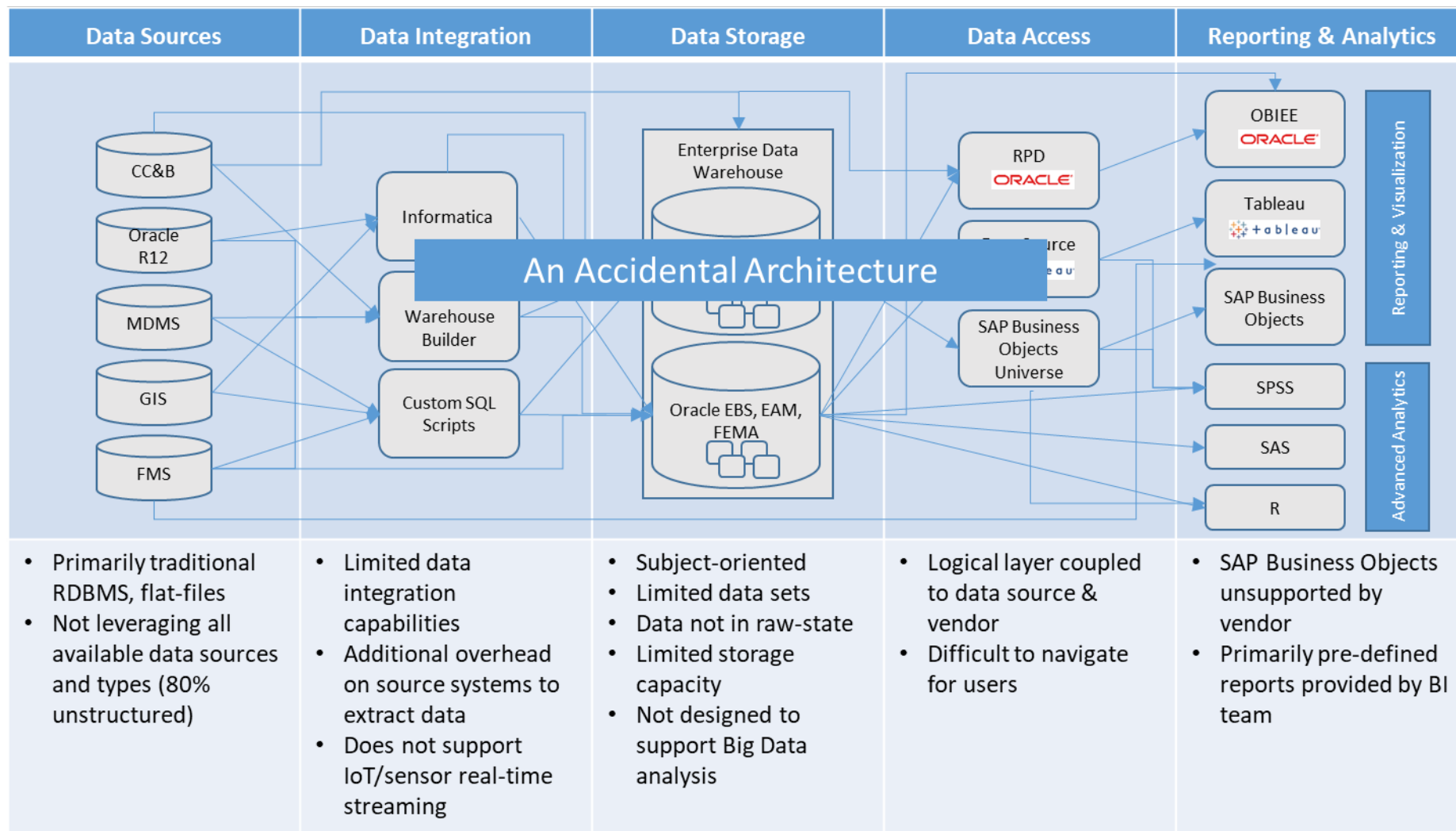
- We have data coming out our ears.
- We have multiple sources that provide data which help solve pressures on our business.

## Our Data Challenges!

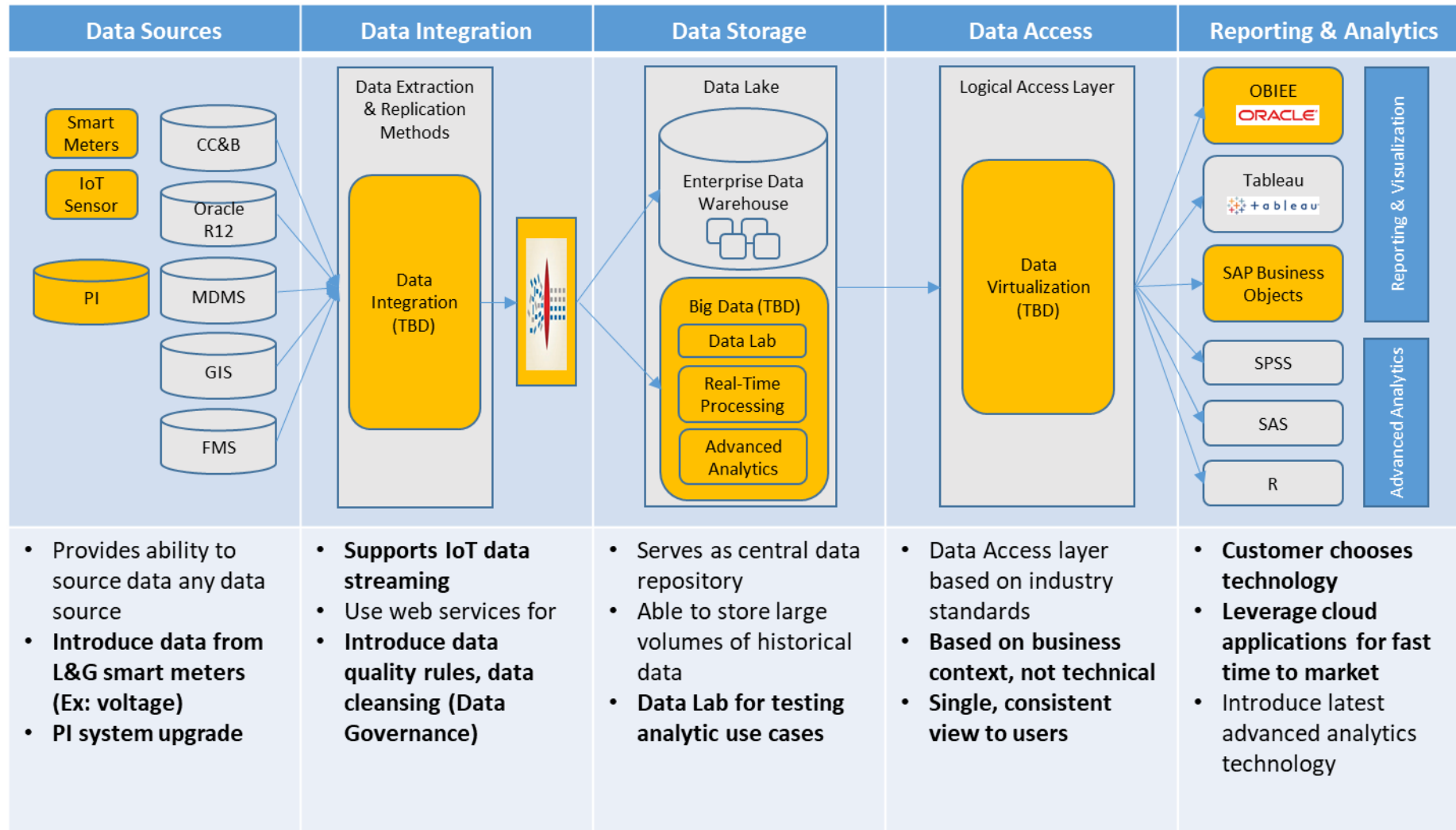
- We have data coming out our ears.
- Our data architecture limits the business to Out-of- Box solutions
- Multiple data systems require duplication of data. In many instances the data is not the same. What is the one source of TRUTH!
- No process or system to sync data across the applications.
- Business units are tribal and believe their data policies are best in class.



# Our Current State

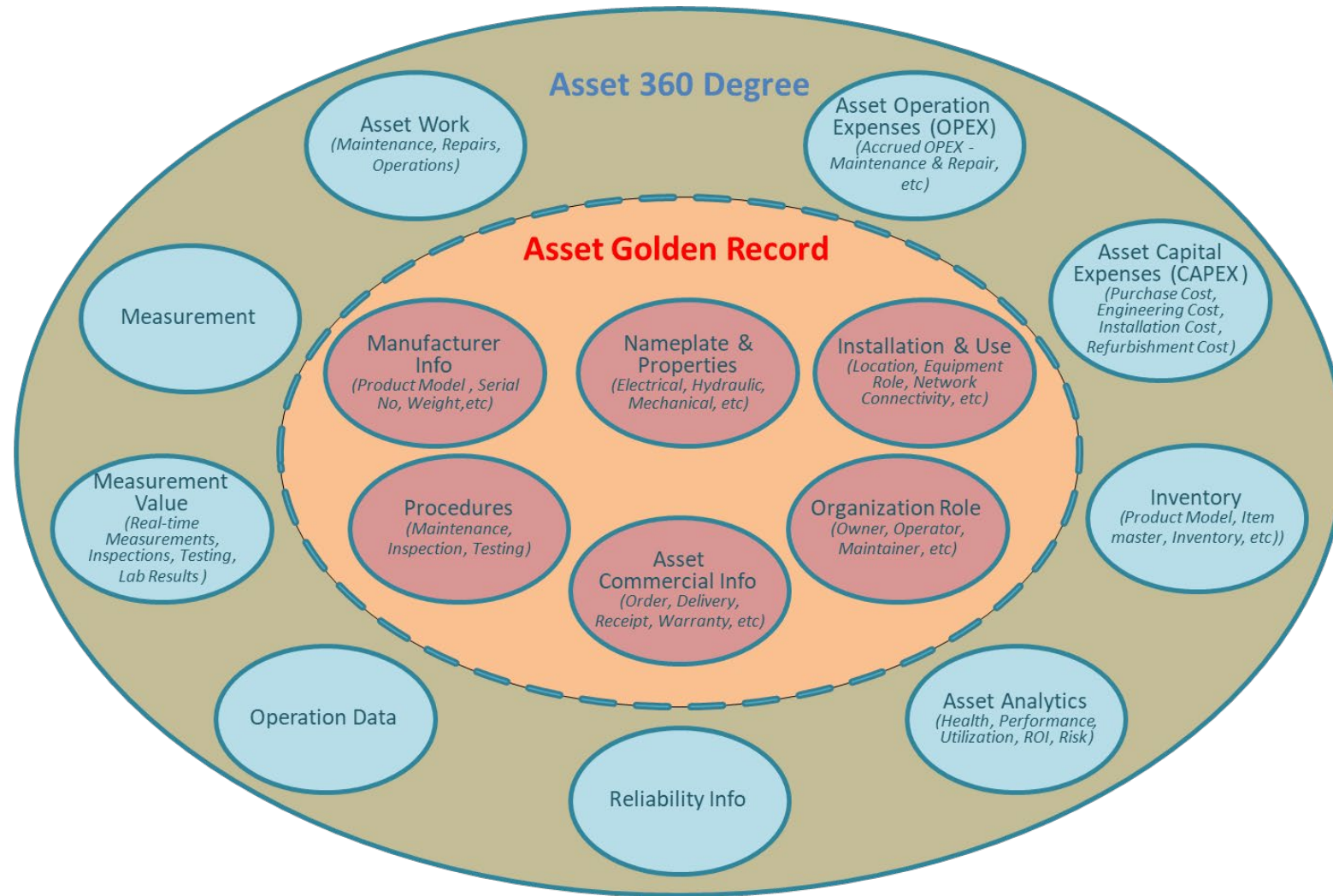


# Where We Want to Be



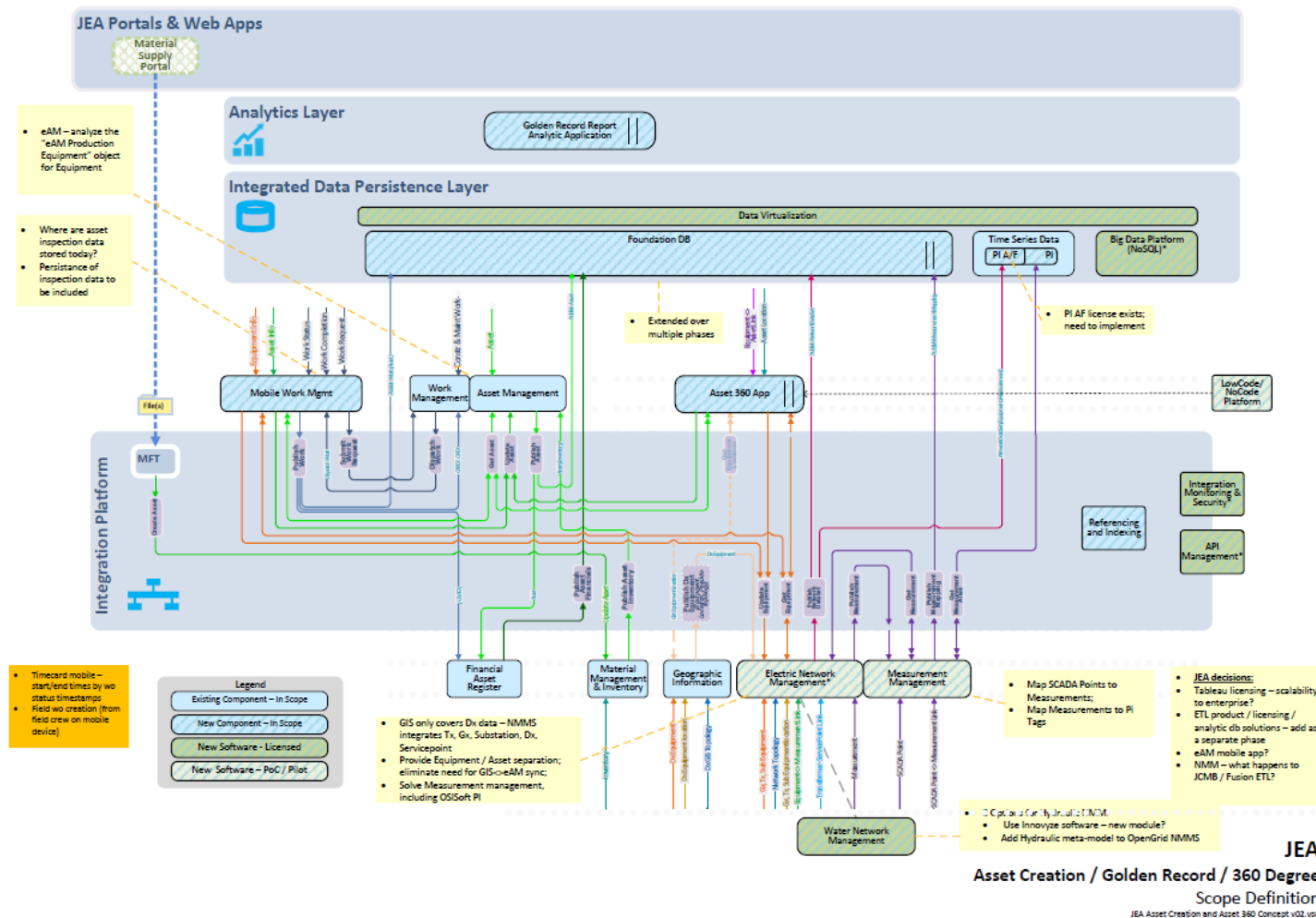
FY19 Focus Area

# Data From The Asset Management Perspective





# JEA/Xtensible Asset 360 Information Model





# Future Vision

## JEA Values

- Financial
  - Data used to improve CAPEX and OPEX budgets
- Customer
  - Improve customer metrics
  - Replace assets proactively based on asset condition
- Community
  - Use distribution system data to improve load management
- Environmental
  - Use of asset sensor data to predict events.



**DISTRIBUTECH<sup>®</sup>**  
CONFERENCE & EXHIBITION

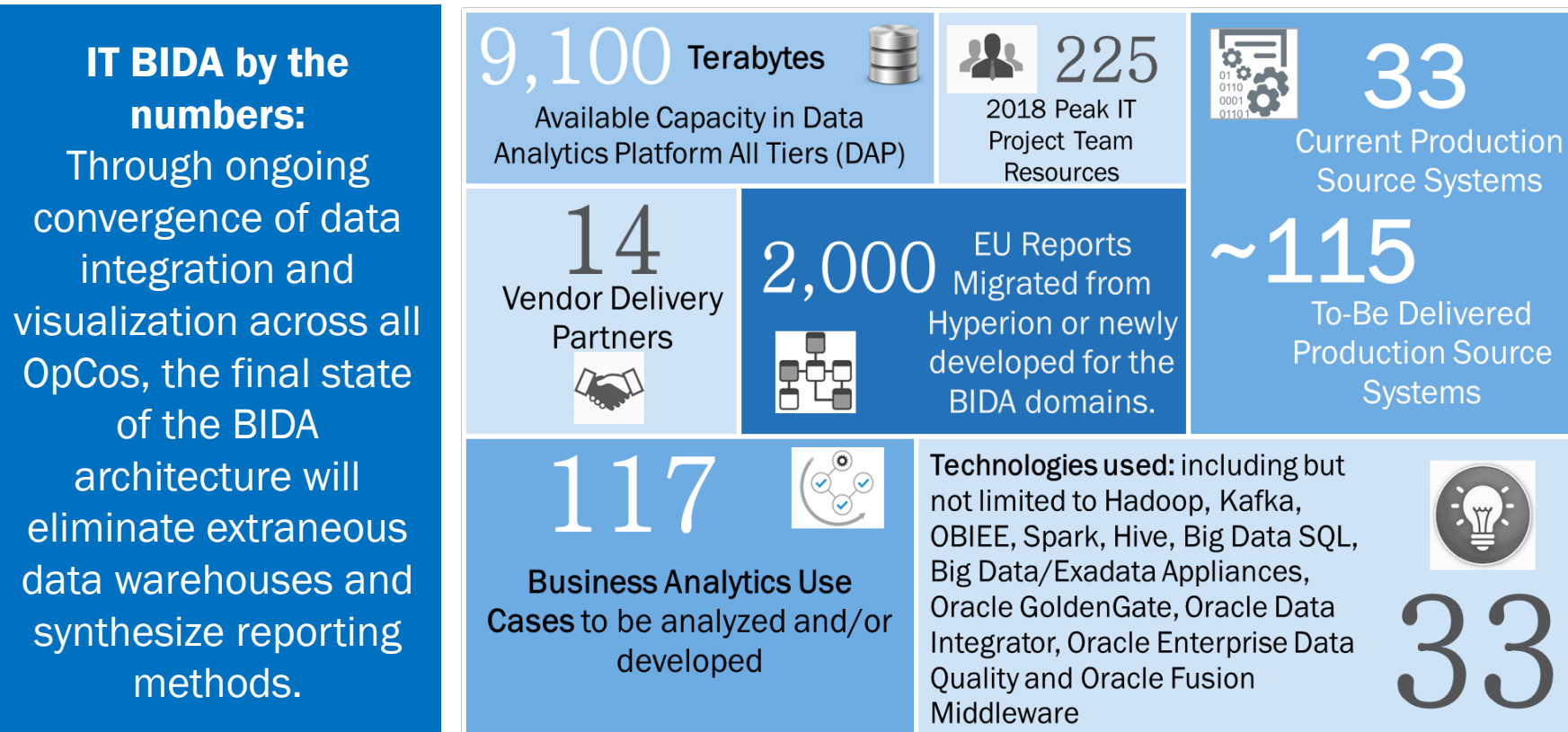
# WELCOME TO DISTRIBUTECH

**FEBRUARY 5-7, 2019 • #DTECH2019**

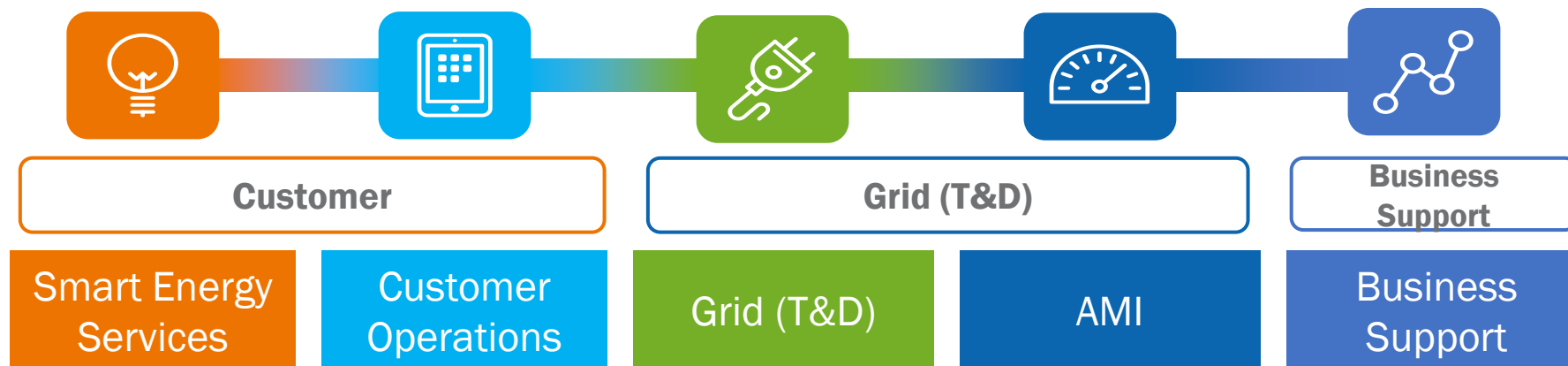


# Exelon Utilities Business Intelligence Data Analytics

The Exelon Utilities (EU) Business Intelligence Data Analytics (BIDA) scope of services includes the implementation of an analytics program and the ongoing support and convergence of legacy analytics applications across Exelon Utilities. BIDA's goal is to drive business value as the competency center for data acquisition, data storage, data integration, and data presentation.



# EU BIDA Business Strategy



## Data Analytics Platform (DAP)

Online tools & notifications will drive **3.1 Terawatt hours** of savings

Enough to power more than 300,000 homes for a year!

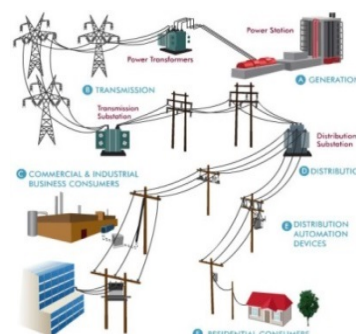


**27 Use Cases across:**

1. Customer Strategy
2. Customer Ops.
3. Revenue Cycle
4. Products & Services

**23 Use Cases that will:**

1. Improve Reliability
2. Improve Customer Sat.
3. Reduce O&M Expenses
4. Capture new Revenue



**33 Use Cases across:**

1. Meter Operations
2. Network Operations
3. Theft Detection
4. Inactive Meters

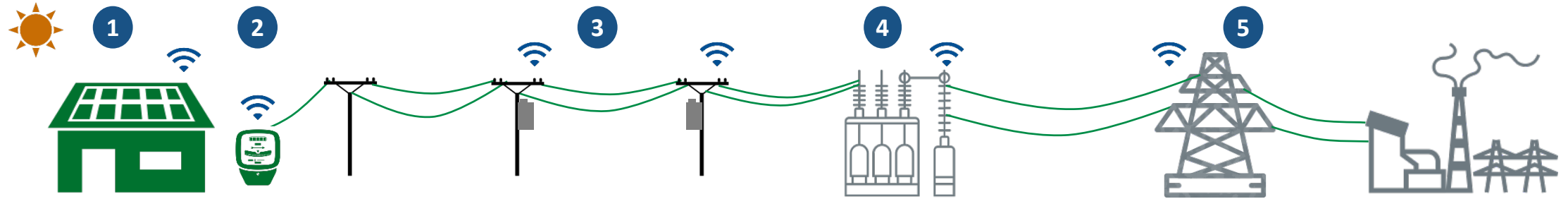
**Sample Use Cases**

- Field Safety Analytics
- High Risk Predictive Safety
- Field Crew Prep, Productivity and Reporting
- Inventory & Warehouse Mgmt





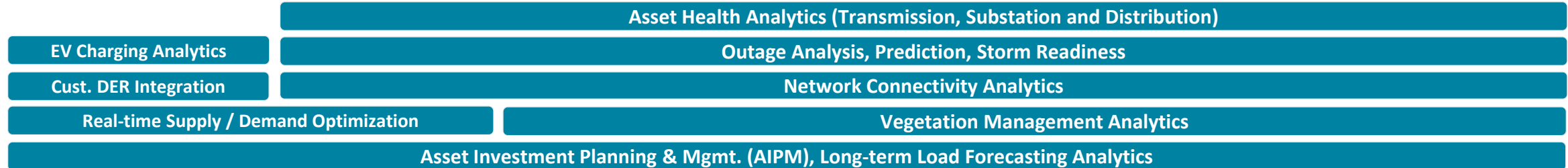
# Digital Modernization of Our Infrastructure



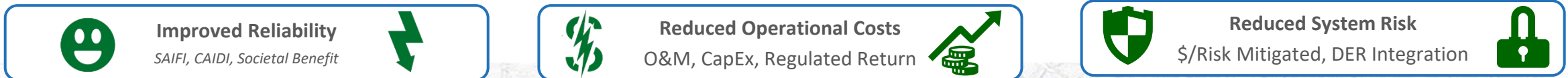
## What's New

- | 1 Customer   | 2 Meter   | 3 Distribution   | 4 Substation   | 5 Transmission  |
|--|---|--|--|---|
| <ul style="list-style-type: none"> <li>■ Less predictable, intermittent loads</li> <li>■ Customer awareness and engagement in energy programs</li> <li>■ Social media</li> </ul> | <ul style="list-style-type: none"> <li>■ AMI interval voltage, usage data</li> <li>■ Meter temperature</li> <li>■ Last gasps</li> </ul> | <ul style="list-style-type: none"> <li>■ Distribution automation devices, reclosers</li> <li>■ Volt-var optimization, CVR devices</li> </ul> | <ul style="list-style-type: none"> <li>■ Remote monitoring and sensing equipment</li> <li>■ Remote dissolved gas analysis (DGA)</li> </ul> | <ul style="list-style-type: none"> <li>■ Aerial drone videography</li> <li>■ LiDAR</li> <li>■ Remote sensing equipment</li> </ul> |

## Use Cases

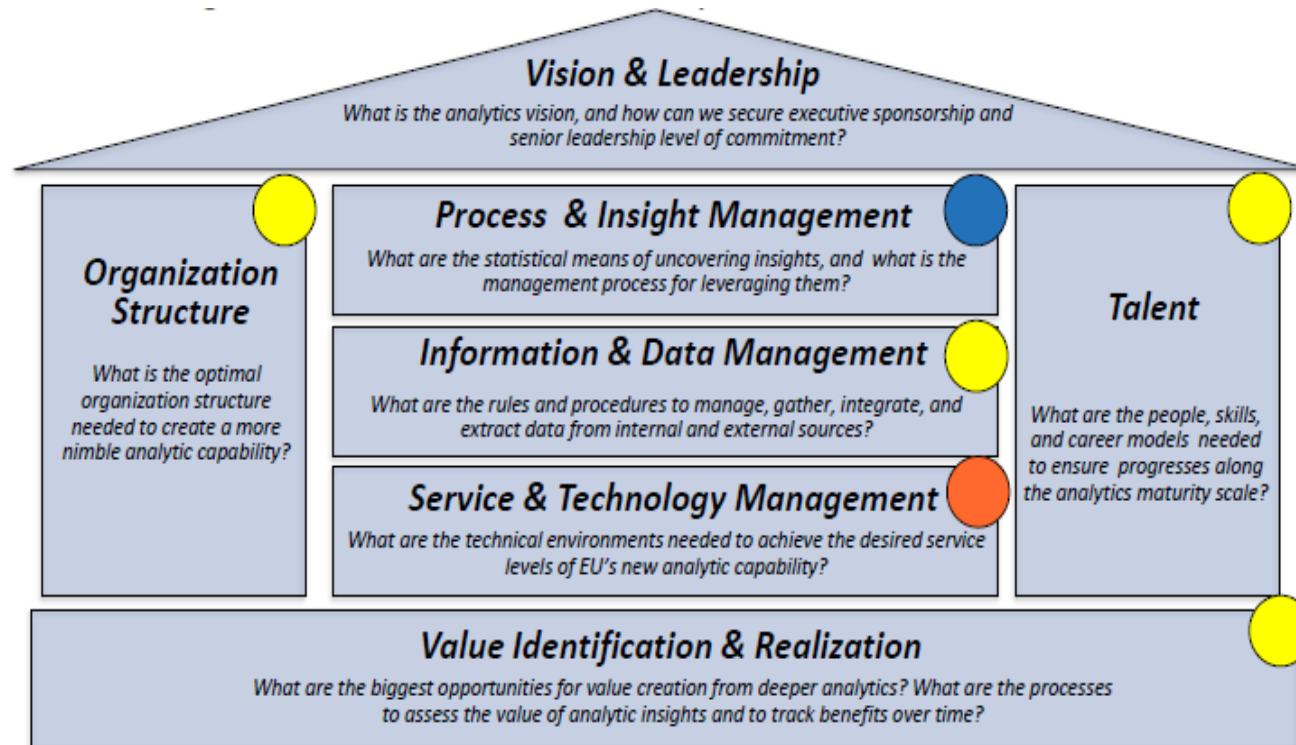


## Outcomes



# EU Data Governance - Framework

The objective of the Data Governance (DG) is to define a formal system of accountability to enforce proper data management of data assets and the performance of data driven functions.



- D&A Governance
- Architecture/System Integration
- PCMO

## Key Activities

- Define Roles & Responsibilities
- Assess Current Capabilities
- Define Future State Targets
- Define Operating Model
- Refine Opportunity Queue
- Develop Value Identification and Prioritization Framework

## Key Deliverables

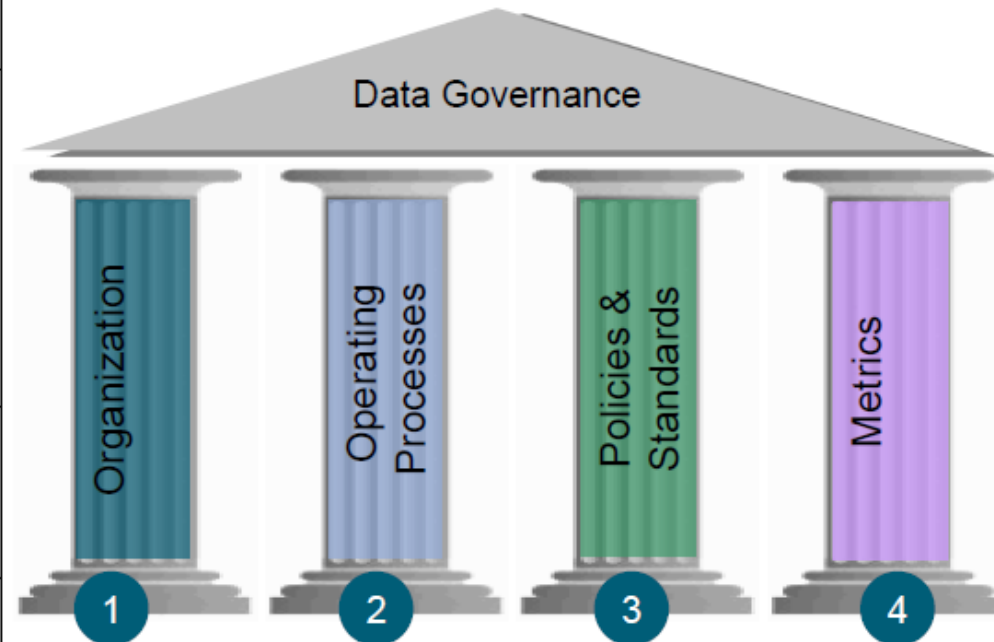
- Data Governance Charter
- Organizational Structure
- Roles & Responsibilities
- Policies
- Interaction Model
- Revised Opportunity Queue
- Governance Next Steps



# EU Data Governance – Pillars of Success

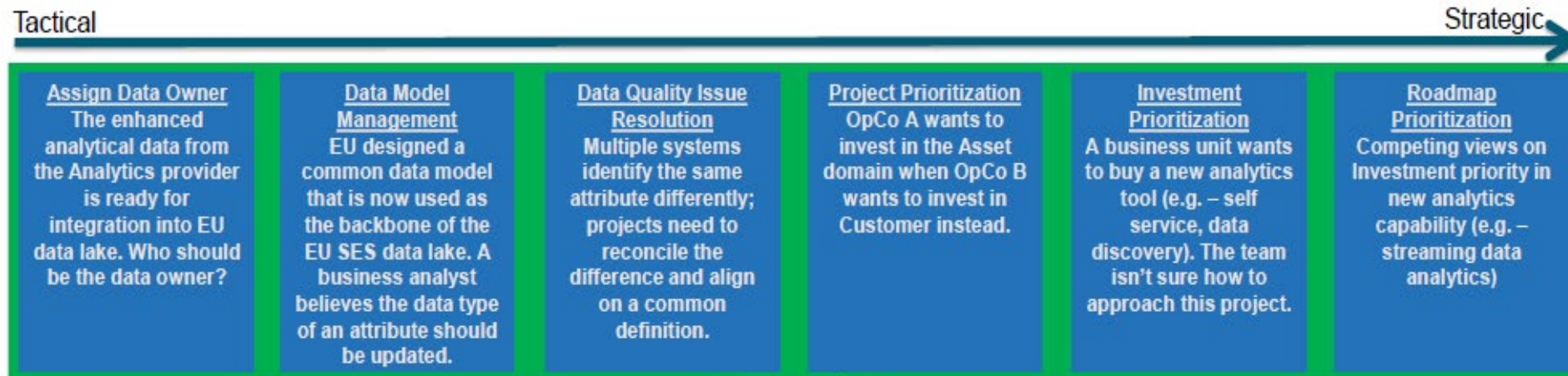
Data governance is to be treated as an ongoing business-oriented program involving people, standards, and processes required to create and manage a consistent view of organizational data.

1	<ul style="list-style-type: none"><li>• Onboard new data community member</li><li>• Maintain the data owner &amp; steward directory</li></ul>
2	<ul style="list-style-type: none"><li>• Issue escalation &amp; resolution</li><li>• New data project evaluation</li><li>• Fast track escalation</li><li>• Request data element update</li><li>• Manage &amp; publish data definitions</li><li>• Assign data owners</li></ul>
3	<ul style="list-style-type: none"><li>• Create DG policies &amp; standards</li><li>• Update DG policies &amp; standards</li><li>• Create new DG process</li></ul>
4	<ul style="list-style-type: none"><li>• Monitor data quality metrics</li><li>• Monitor data cleansing</li></ul>



# EU Data Governance – Put Into Action

Data governance should be executed as a strategic program where organization policies regarding data are constantly evaluated and solutions are prioritized. organization policies regarding data are constantly evaluated and solutions prioritized.



## Sample Questions

- Who needs to be involved in the process?
- What's the detailed process flow? (overall workflow, individual steps, decision points, success criteria, delegation,...)
- How to raise the issue/request? Where to log the issue/request?
- Who's in charge of coordinating the end-to-end process execution?
- If a technical change impacts a consuming application, who should be responsible to coordinate with EU and/or external teams?
- How to track progress and measure success?
- Who's in charge of reviewing that requests are being processed in a timely fashion? How?
- What are the key EU value levers?
- Who is the final decision maker?
- How to resolve conflicts between stakeholders?
- How do we identify and realize value?
- How do we prioritize between analytics opportunities?