

# The Future of IoT

**Don DeLoach**

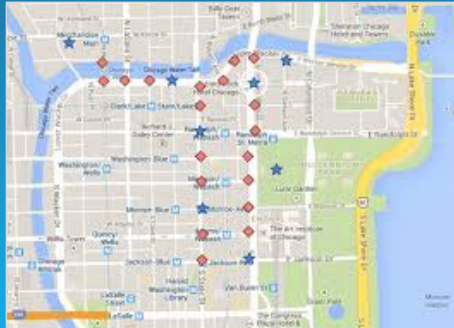
President & COO, Centri Technology

Co-Chair, Midwest IoT Council



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# The "Array of Things" Project



# The Future of IoT

- The market will shift from a focus on IoT-enabled products to the IoT-enabled Enterprise
- The key role of data and in particular:
  - Considerations regarding governance, ownership, and stewardship
- The keys to leverage will be the deployment architecture with particular regard to data primacy and analytics

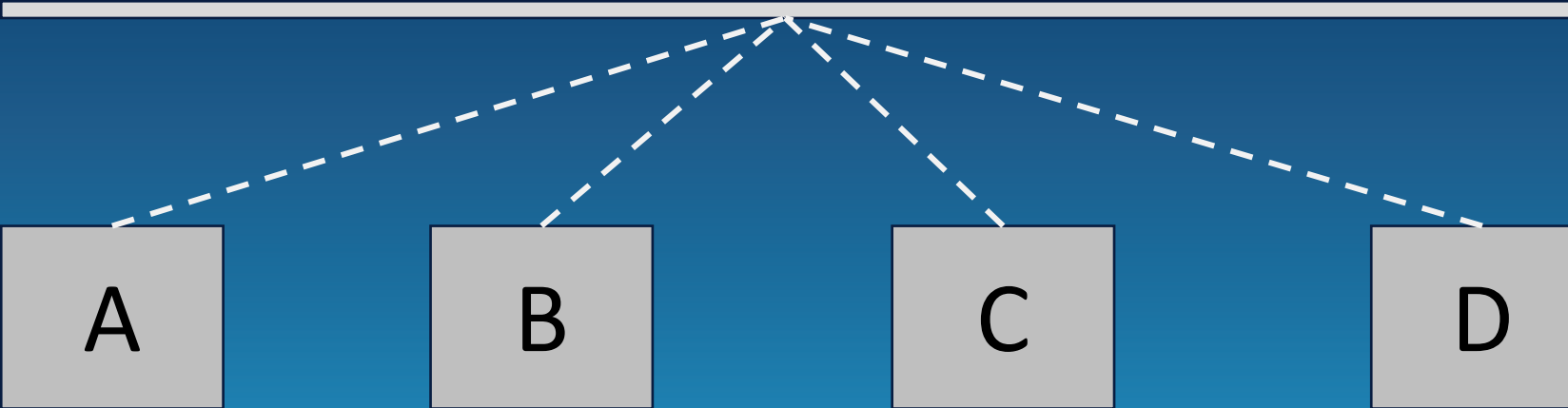


**IoT will is changing everyone's world**

**Including Logistics and the Supply Chain**

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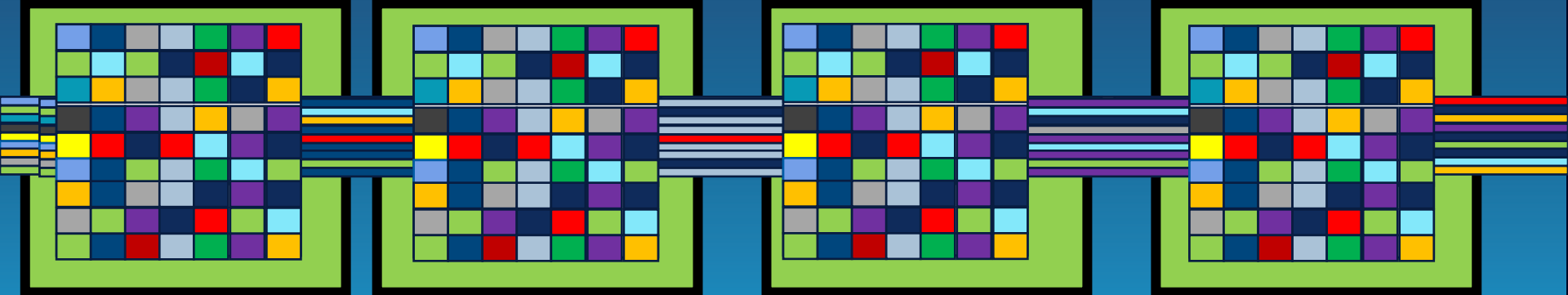
# Supply Chain without IoT





# IoT Allows You to Increase Connections in the Supply Chain

# Supply Chain with IoT



**Significant Increase in Visibility**

**Minimize Waste**

# Better Compliance Management

**Reduce Costs**

**More Responsive**

**Determine and Use Additional Capacity**



**Getting There is Easy?**

Key: Enterprise View

**What do we “know”?**

**“Tons of data”**

**IoT has been driven by the  
Capital Equipment Providers**

**But what outcomes do Enterprises  
want from the  
Internet of Things?**

**Enterprises will demand  
leverage from IoT data**

**They will do this by driving  
deployment architectures  
capable of best accommodating this  
for all constituencies**



**But...**

***“We know better what  
to do with the data...”***

***“You don’t want to be in  
the device driver business...”***

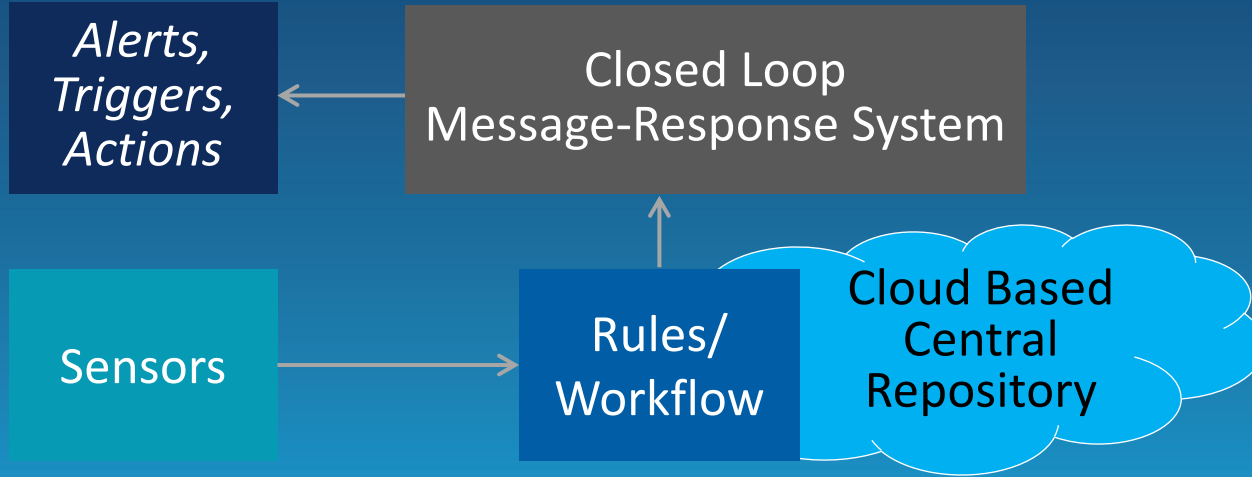
***“That kind of architecture  
could be very complicated...”***

*“It can compromise security to  
allow others to just subscribe  
to the data...”*

**Doing it Right**

# First Level IoT

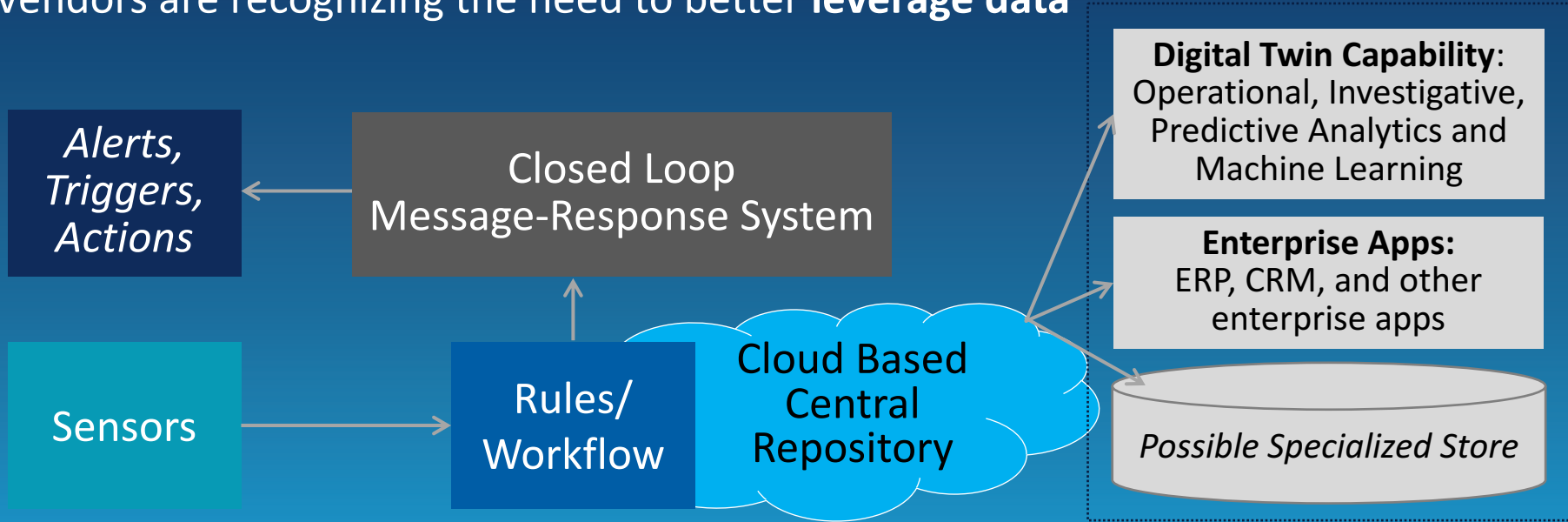
Most IoT deployments are centered around capital equipment and are closed loop silos



**Data is mostly owned and controlled by the vendors**

# Today

Vendors are recognizing the need to better leverage data

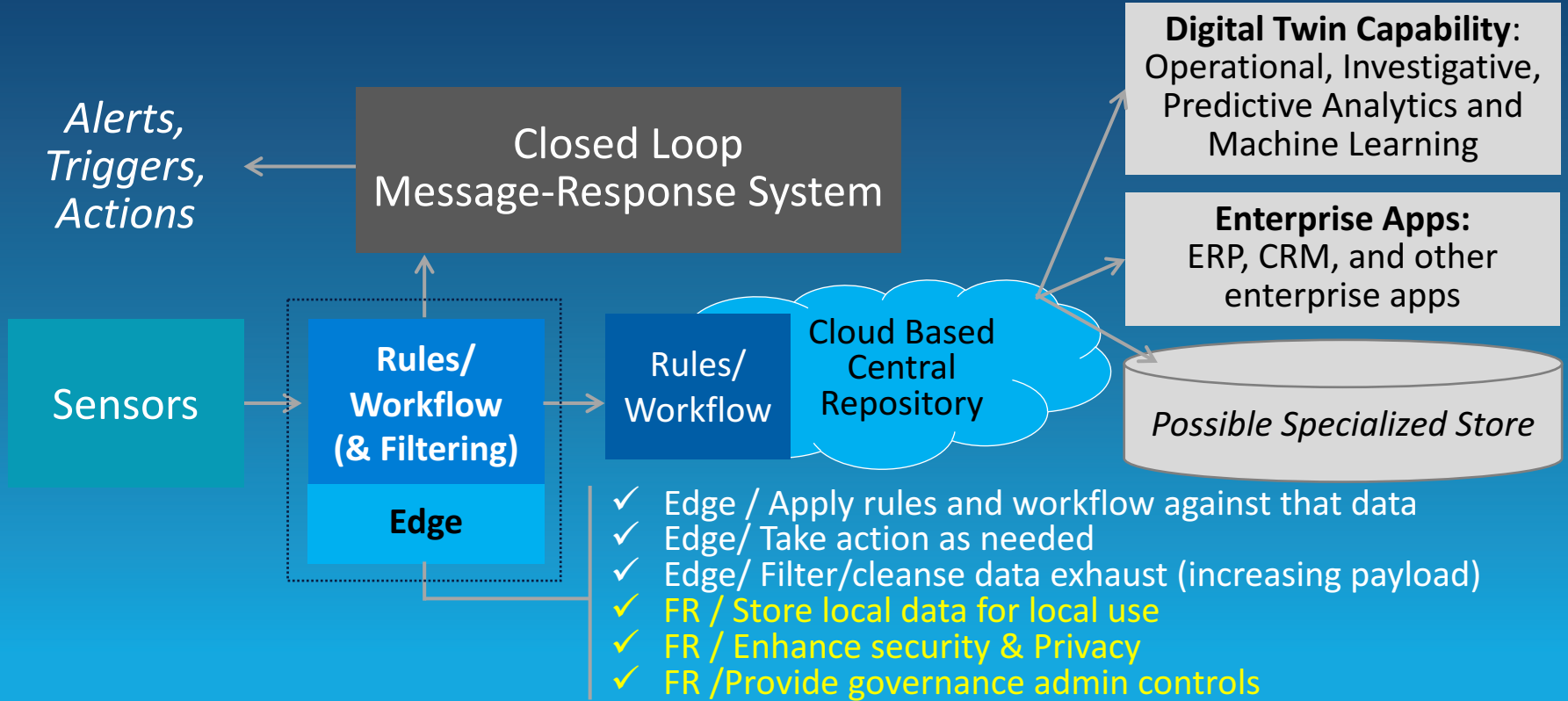


“Fryer gets predictive maintenance”



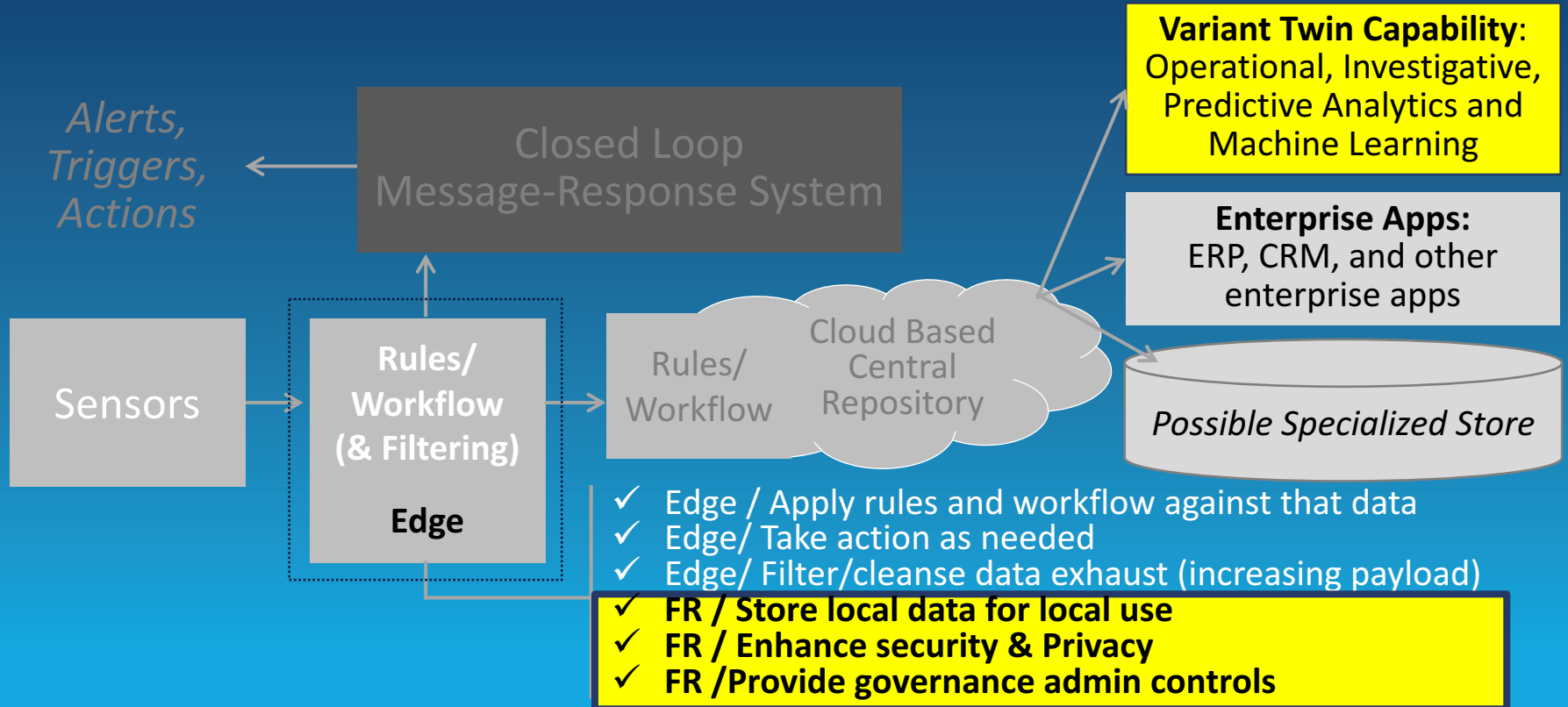
# The First Receiver

This will begin to call into question who owns and controls the data



# The Elephants in the Room

Security, Privacy, and Governance



# Market Direction

Technology Delivery / Data Focus is on the **Enterprise**: “How do we effectively leverage all of these smart connected products?”

Products

Smart  
Products

Smart  
Connected  
Products

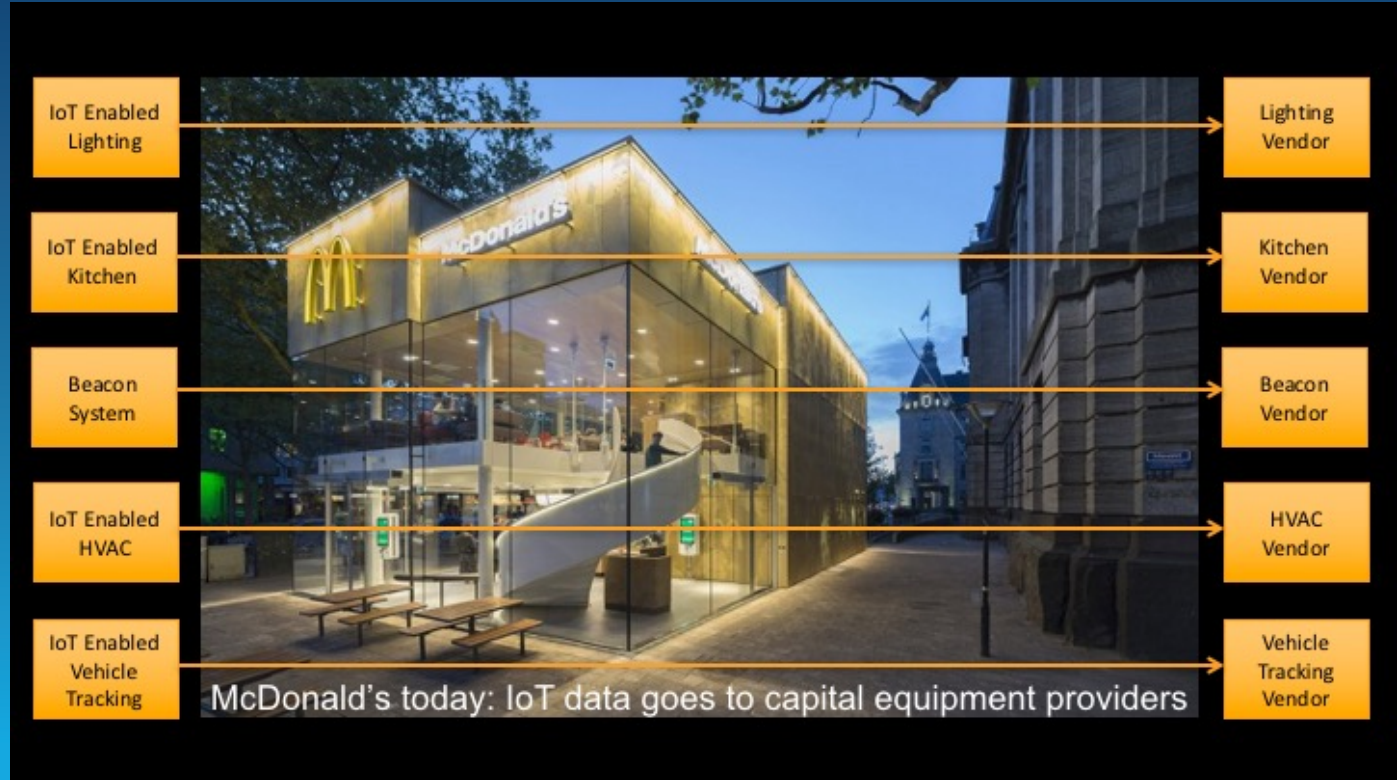
Product  
Systems

System of  
Systems

Technology Delivery / Data Focus is on the **Product Providers**: “How do we deliver smart connected products customers will love?”

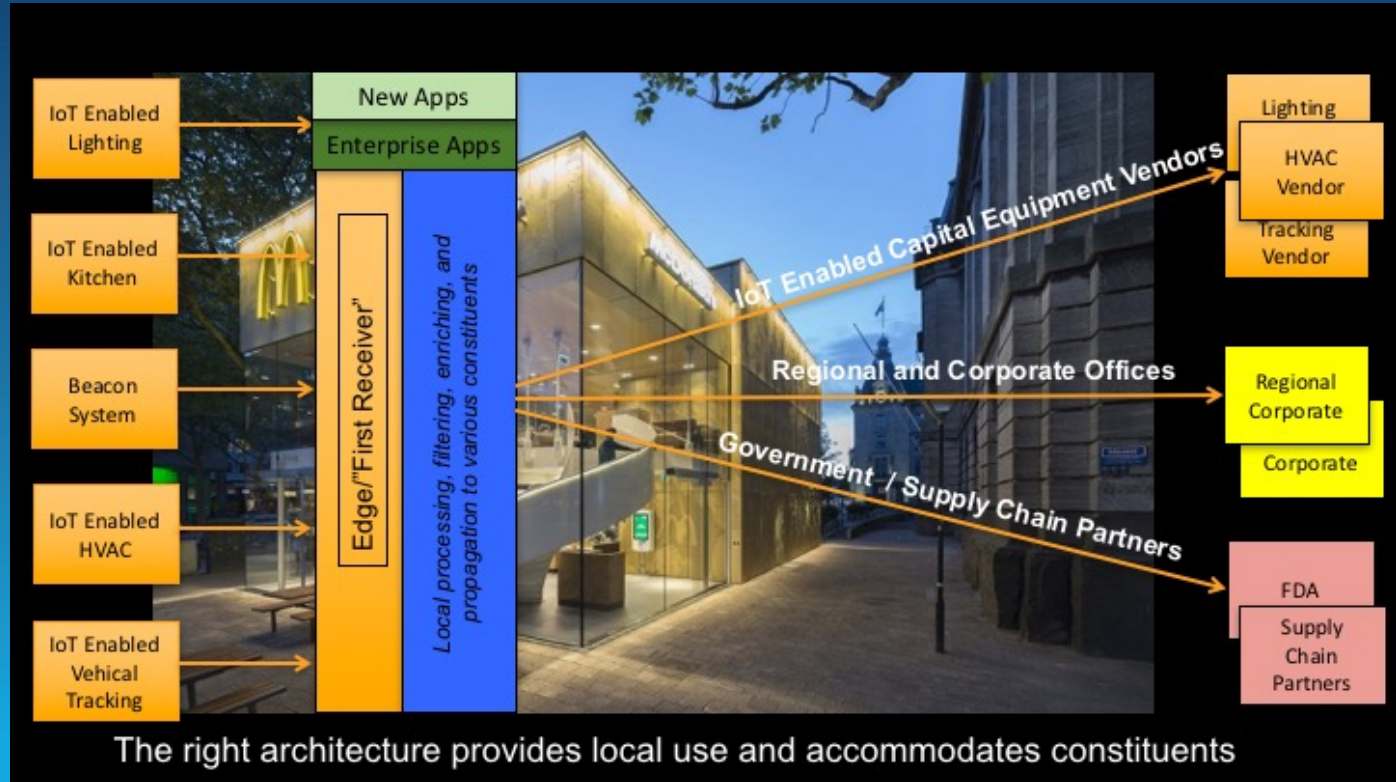
# Illustration of the Progression

- McDonald's Hypothetical
- Array of IoT-Enabled products operating as individual silos



# The First Receiver to Leverage Data

- McDonald's Hypothetical
- Array of IoT-Enabled products leveraged via First Receiver architecture



**What is new about this?**

**Data governance?**  
**Time Tested**

# Pub-Sub Architecture?

## Time Tested



# Device Drivers?

## Time Tested

# Utility Value of Data? Time Tested

All of This...  
Time Tested  
Nothing Really New

**The Last Elephant in the Room..**

# People and the Organizational Processes

## Key Takeaways

- We are moving from “Smart Connected Products” to a “System of Systems”
- The market drivers will shift to the users of multiple IoT-enabled products
  - They want to become *IoT-enabled Organizations!*
- The key value in IoT is in the data

## Key Takeaways

- Supply chains will be massively impacted by IoT
- The increased granularity will provide better insights, better actions as a result, and many benefits
- These will include reduced waste, increased adaptability, better margins, better compliance, more effective utilization of resources and more...

## Key Takeaways

- Maximum leverage of the data – thus maximum value – requires the right architecture
- This is possible using time tested and proven technology - but requires some re-thinking of the delivery
- If done right, everyone wins – with the right data delivered in the right way to the right constituent at the right time.



Thank You