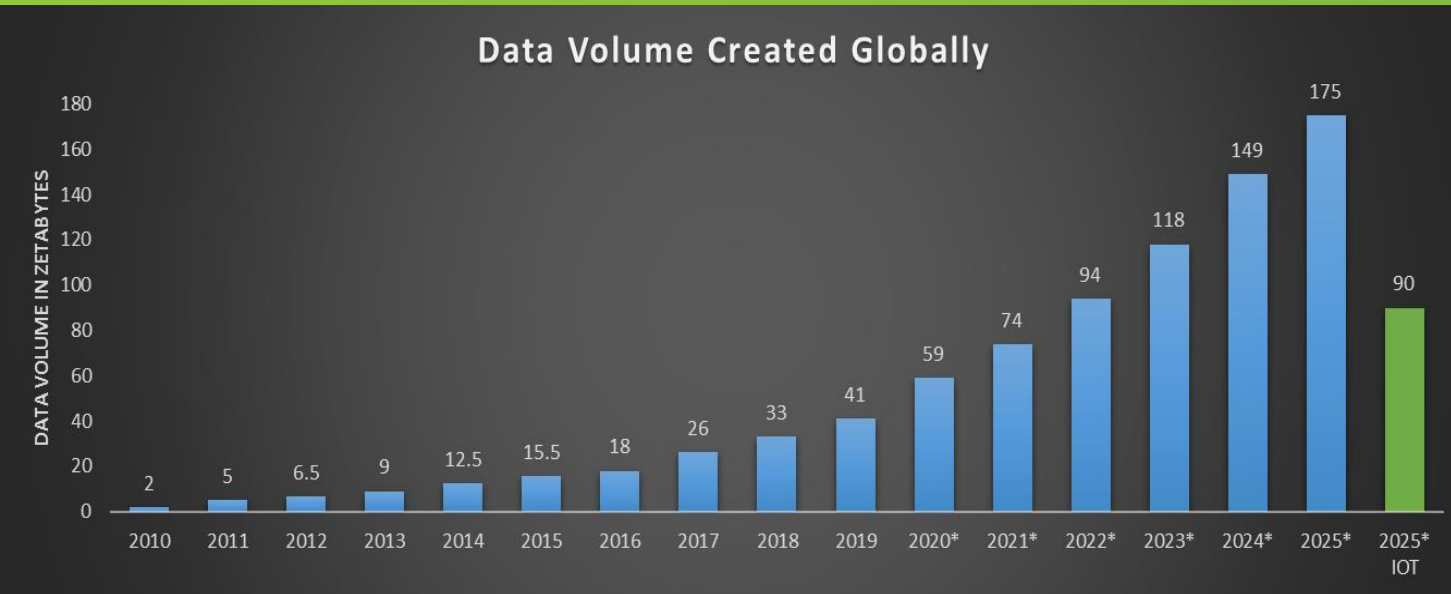


# **FUTURE CARS – SOURCE & DESTINATION OF HIGH VOLUME DATA**

**TAPAN TRIVEDI**

**[HTTPS://WWW.LINKEDIN.COM/IN/TAPANTRIVEDI/](https://www.linkedin.com/in/tapantrivedi/)**

# Evolution of Data Volume



## Forecast for 2025

- Total data volume will reach 175 ZB (88 times 2010 levels)
- IOT data volume will reach 90 ZB (>50% of total data volume)

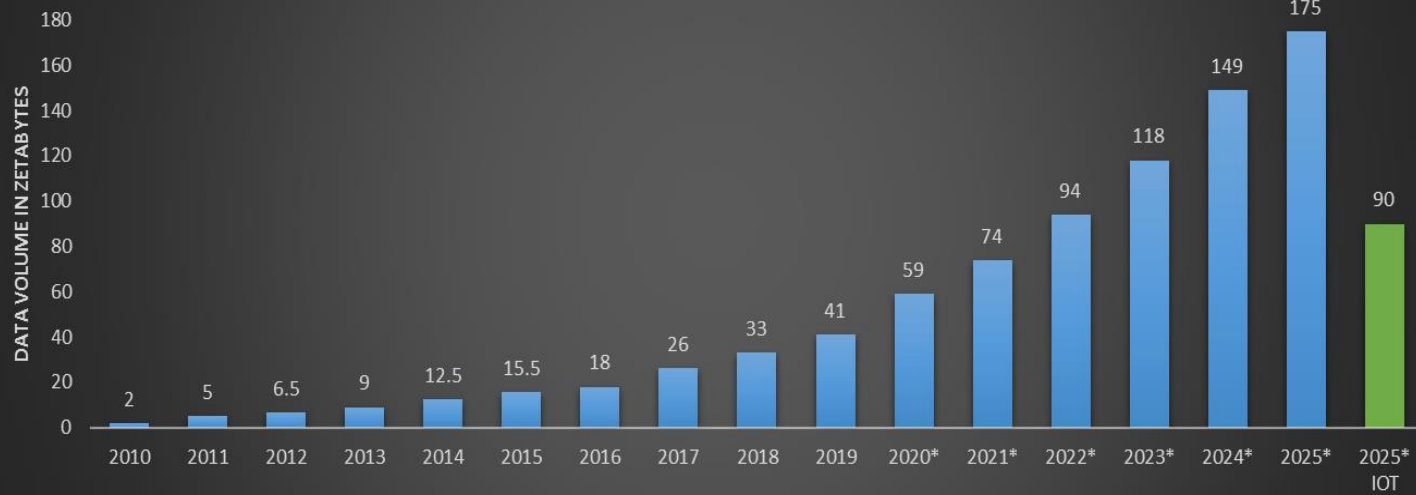
<https://www.statista.com/statistics/871513/worldwide-data-created/>

<https://www.lebigdata.fr/big-data-2025-idc>

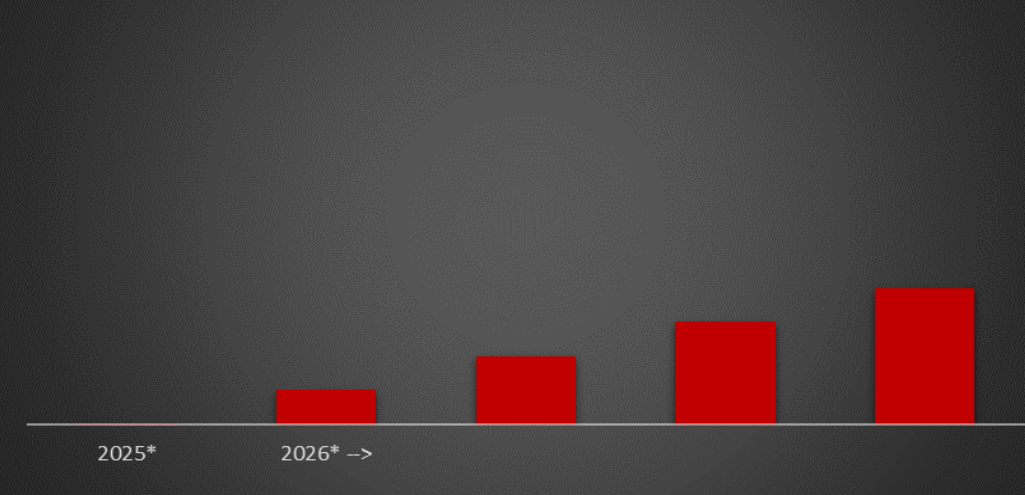
AECC Technical Report 2.0

# Expectation of Vehicle Data Growth

Data Volume Created Globally



Vehicle Data Traffic



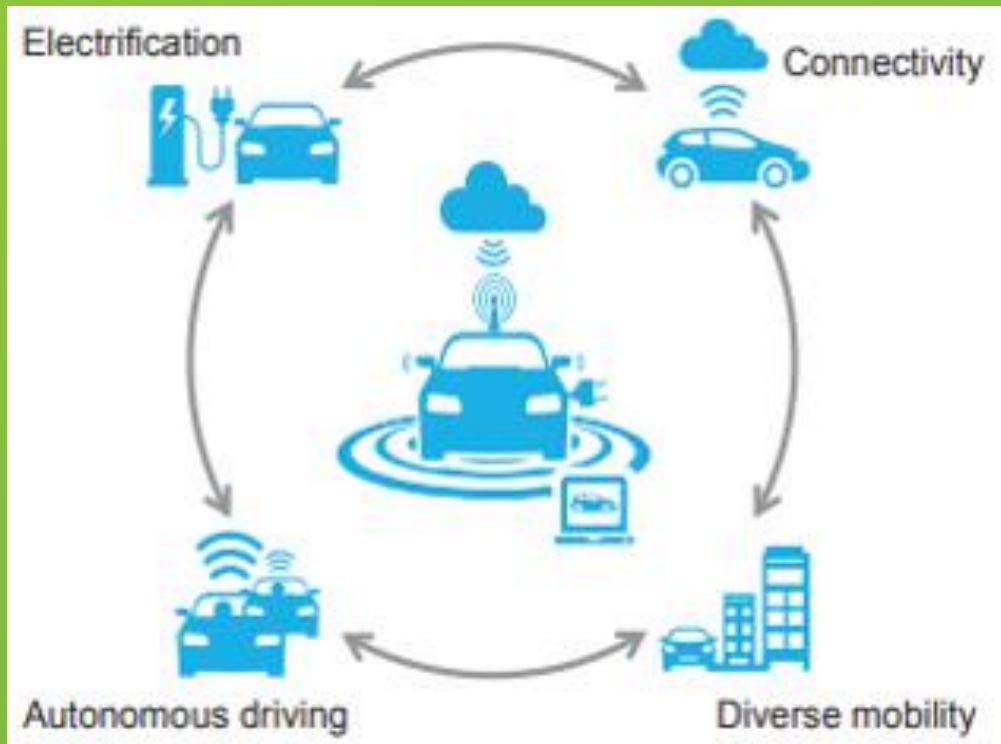
## Forecast for 2025

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## Forecast Vehicle data traffic in 2025 & beyond

- 0.12 ZB (<0.5% of total data volume)
- Exponential growth (Autonomous car ramp-up)

# Disruptive Trends In Automobile Industry



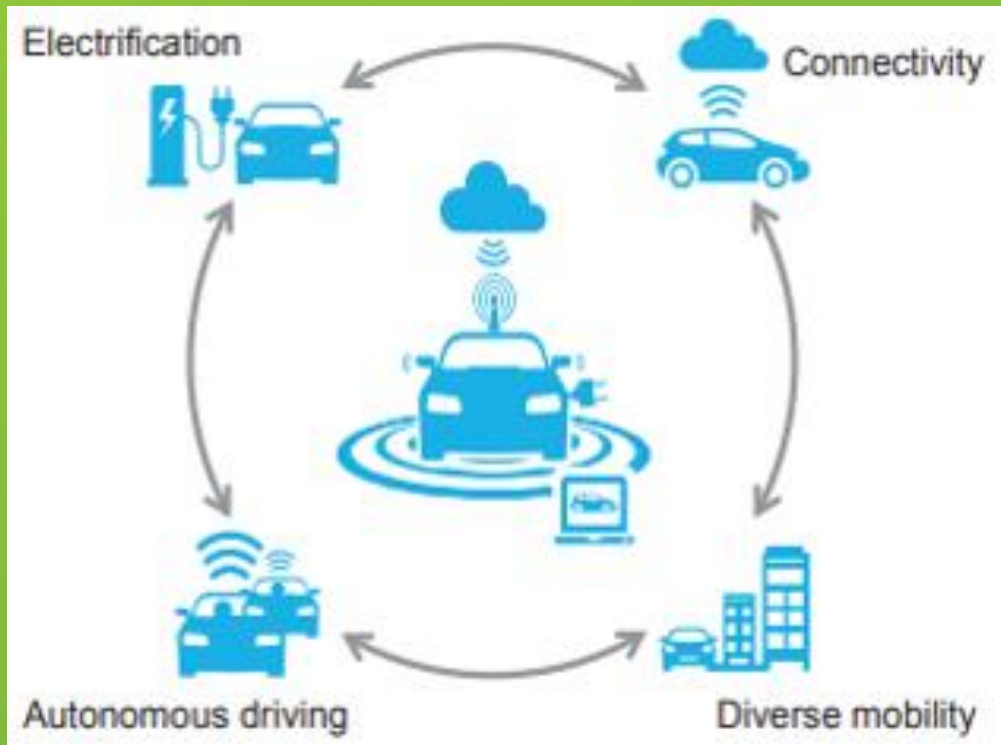
## Actors

- OEMs & Automotive suppliers
- Energy companies
- Charging Operators
- Insurers
- Roadside assistance providers
- Infrastructure operators
- Services providers (Telematics & Mobility)
- Regulators & other government agencies
- Tech companies
- Telcos
- ...

## Applications

- V2G communication
- Dynamic Point Of Interest (EV charging)
- Networked parking service
- Tracking, theft protection, PAYD/PHYD
- Predictive maintenance
- Emergency & Breakdown calls
- E-hailing
- Mobility related contents / services
- Connected navigation
- V2I, V2V, communication
- ...

# 3 Vs Driving Vehicle Data Growth



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Volume



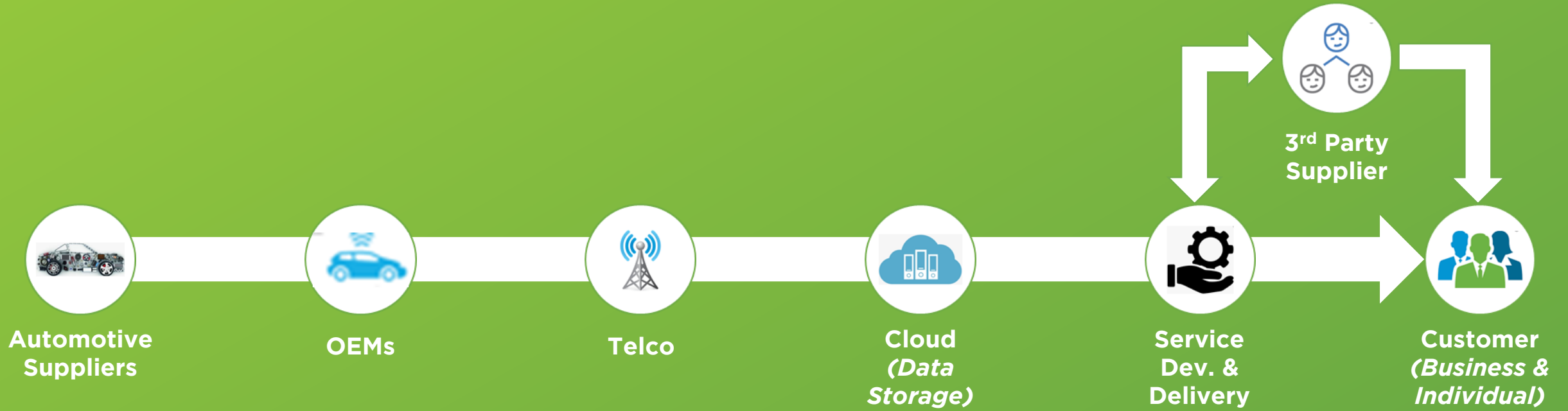
Velocity



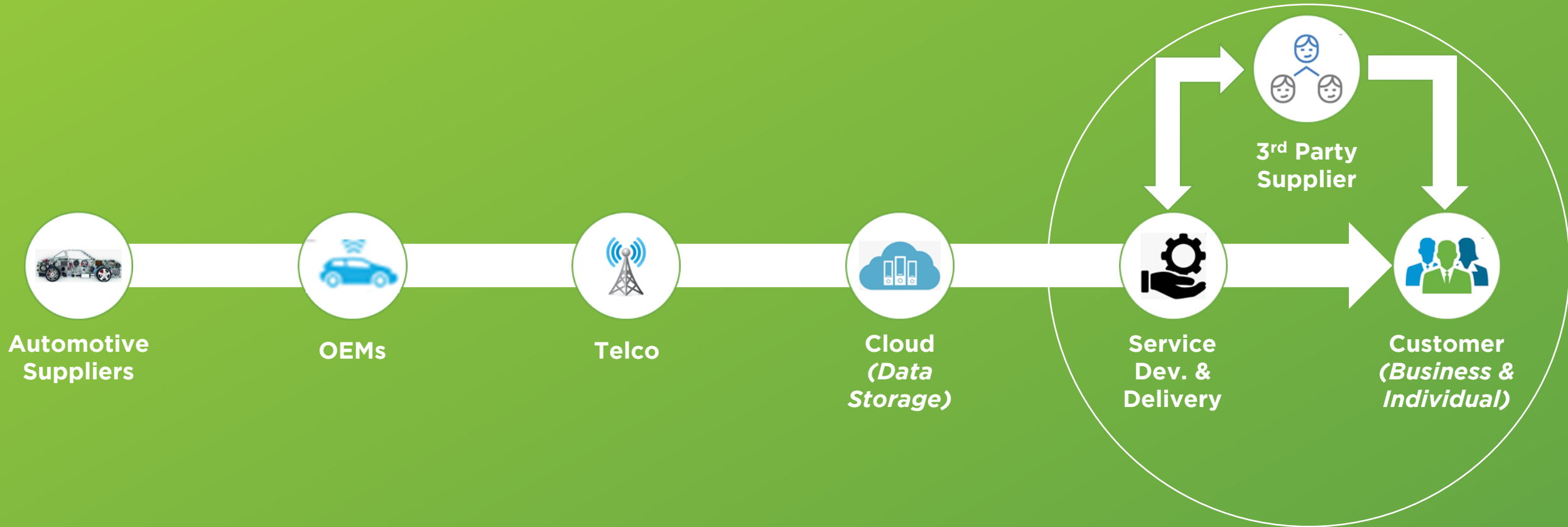
Variety



# Value Chain: Value Added Services From Vehicle Data



# Evolving Ecosystem



# Challenges & Opportunities



Volume



Variety



Velocity

Some interesting figures from Cisco, McKinsey, Gartner & Forbes

- 99.5% of collected data never gets used!
- < 50% of structured data from IoT used in decision making
- Execs believe predictive analytics are becoming more and more crucial for success
- Companies that harness big data's full power could increase their operation margins by up to 60%

- Pressure on infrastructure & systems → Edge computing, machine learning, AI
- Balancing Value Vs Cost → Partnerships & value proposition adjustment

