

Renault: A Data Lake Journey

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GROUPE RENAULT IS READY TO ADDRESS INDUSTRY CHALLENGES

Drive the
Future:
2017-2022

TECHNOLOGY DISRUPTION



- Electric
- Connected
- Autonomous
- Mobility services

NEW CUSTOMER TRENDS



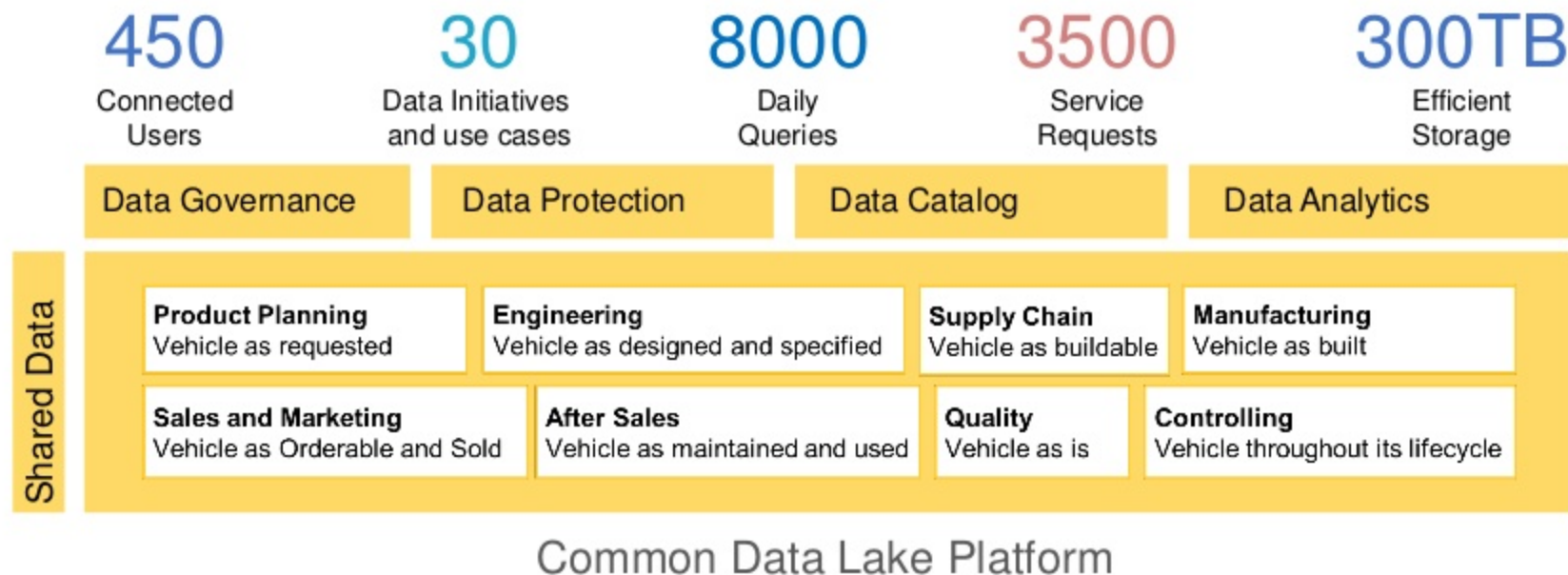
- Digital customer
- Mobility services in cities
- Individual Mobility in emerging countries

REGULATIONS

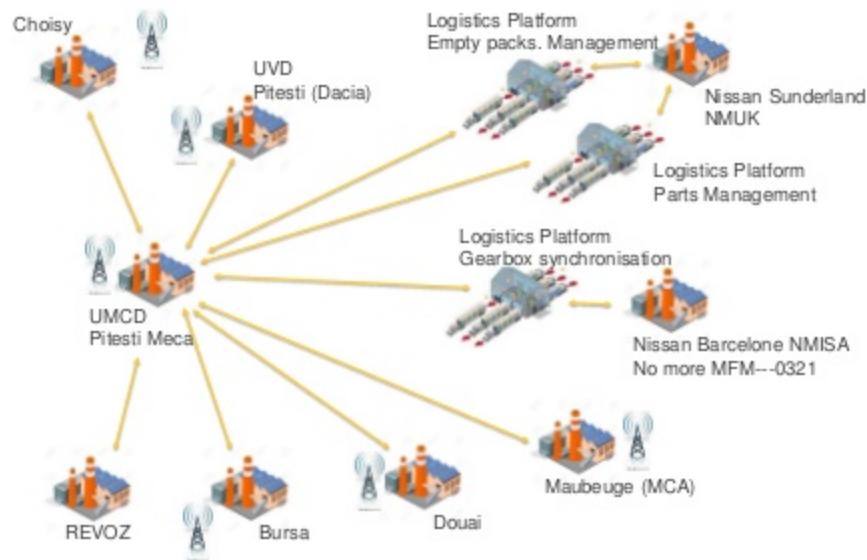


- | | |
|-----------|--------------------|
| ● CAFE | ⊗ ULeV 5 |
| ● Euro 6 | ⊗ LeV 7 |
| ● China 6 | ⊗ City regulations |

BREAKING SILOS WITH DATA LAKE



TRACEABILITY OF GEARBOX PACKAGING



Identify, Capture and Analyze Key Data

Maintain the chain of custody: where packages flow to and from?

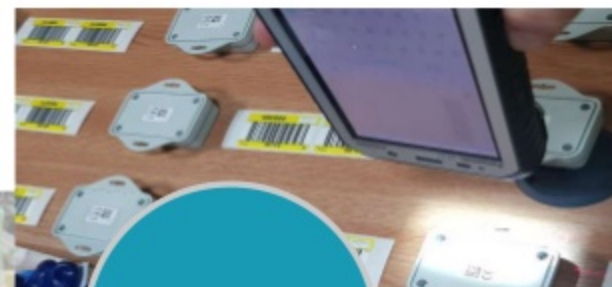


Production Volume	
2016	2017
345 656	430 750

TRACEABILITY OF GEARBOX PACKAGING



Sensors



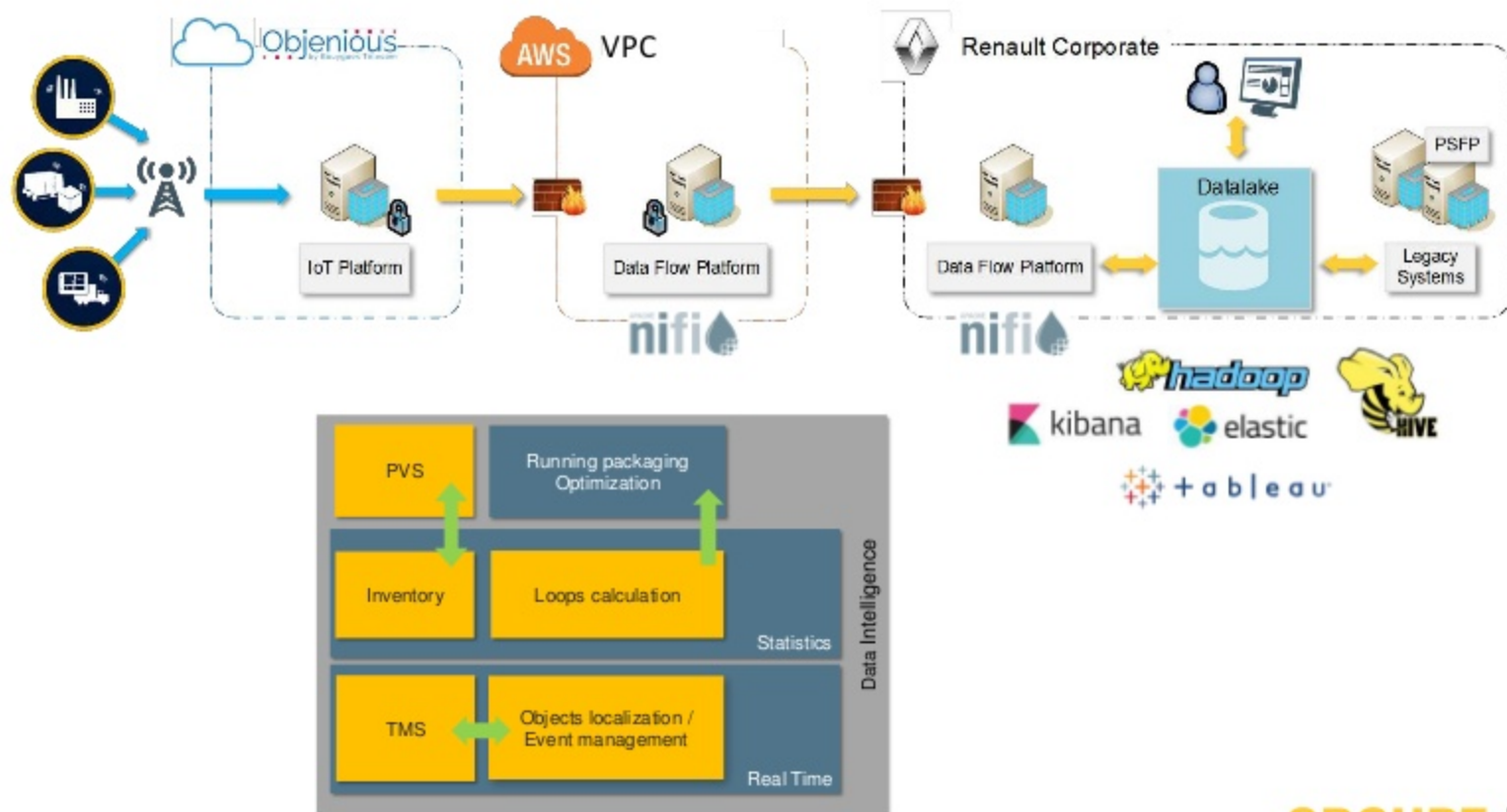
Tags

Specification

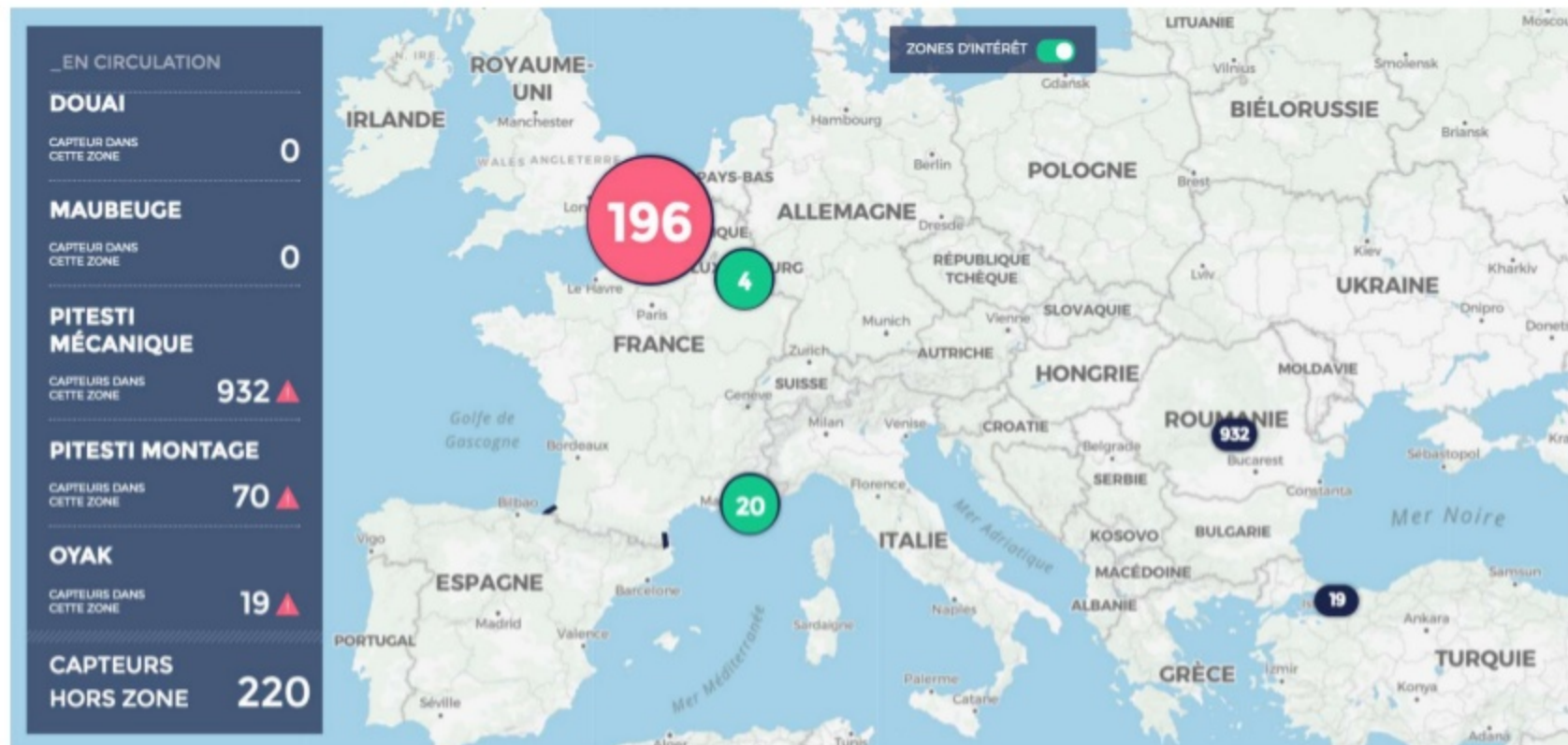
Packaging	IP 68 ; 75x22x50mm
Running Temp.	- 25 ° et +70 ° Celsius
Internal sensors	acceleration, temperature
Shock detection	4 G (sampl. rate 1,95 Hz)
Lifetime	6,7 years (2/J, SF12) 5,6 years (12/J, SF12)



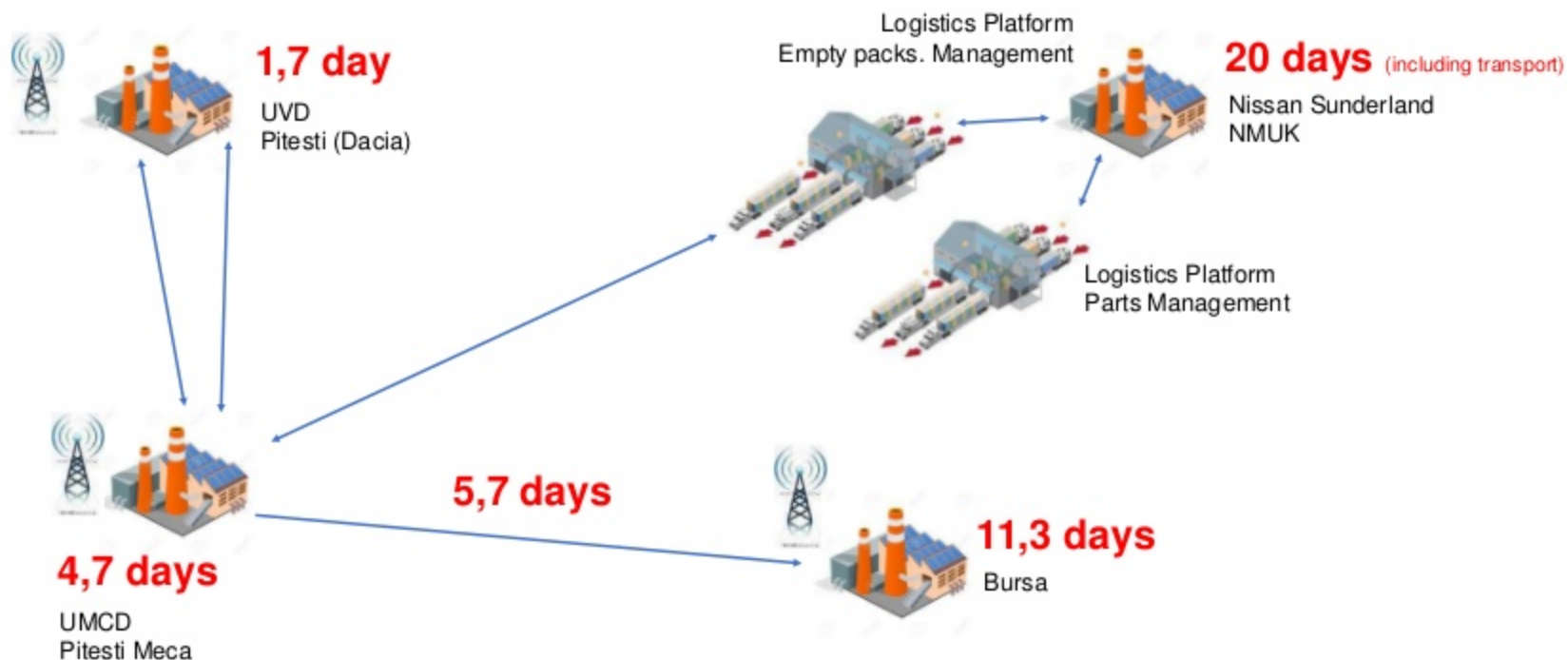
TRACEABILITY OF GEARBOX PACKAGING



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TRACEABILITY OF GEARBOX PACKAGING



DATALAKE CONTINUOUS IMPROVEMENT

TECHNOLOGY

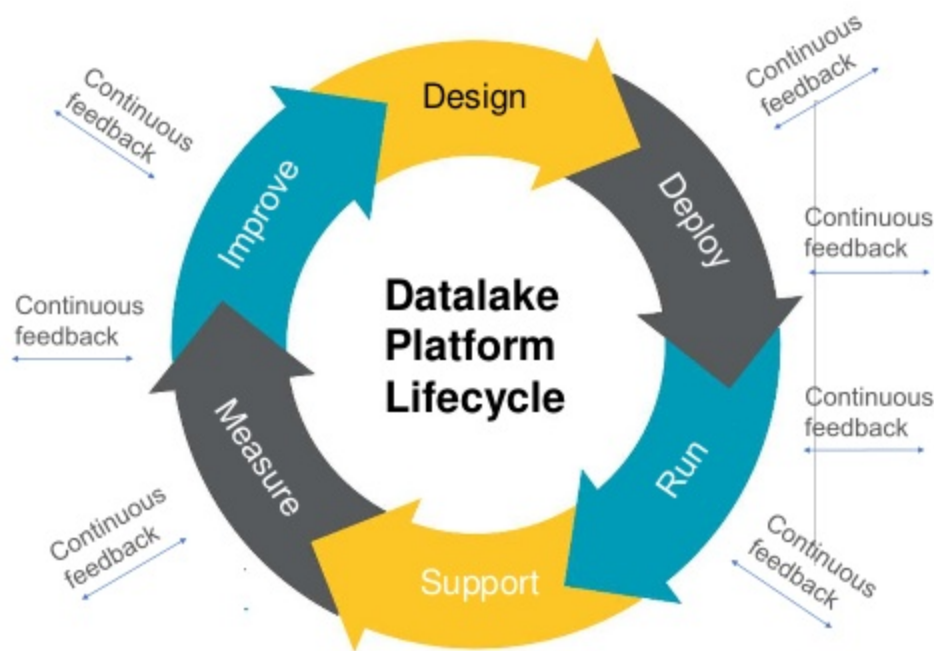
- Open source communities
- Hortonworks, etc.
- Elastic
- Tibco, Tableau

DATA ENGINEERING

- Data Engineers
- Data Modelers
- Data Scientists

DATA SOURCES

- Data Providers
- Data Subject Matter
- Experts (SME)



DATA DRIVEN PRODUCTS

- Product Owners
- Data Scientists
- Citizen Analysts
- Solution Architects
- Applications Developers

GOVERNANCE

- Datalake Product Owner
- Chief Data Officer
- Data stewards, architects
- Corp Policies custodians

DEVOPS STANDARDS

- Continuous Integration
- Continuous Delivery
- Collaboration Tools

INFRASTRUCTURE

- On-Premise
- Cloud Services