

>Agenda



- Siemens
- Analytics Lab
- Projects

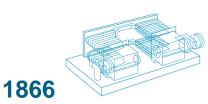
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> Siemens Milestones of a 170-year history





Company founder, visionary and inventor



The dynamo makes electricity part of everyday life



SIMATIC makes Siemens a leader in automation technology

1959



First magnetic resonance imaging scanner goes into operation



Test operation of the world's largest rotor for

world's largest rotor for offshore wind turbines

Werner von Siemens

Siemens innovations over the past 170 years

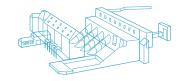
1847

Pointer telegraph lays the foundation of Siemens as a global company



1925

Siemens electrifies the Irish Free State with a hydroelectric power plant

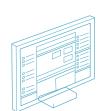


1975

Breakthrough of high-voltage direct current (HVDC) transmission



TIA Portal takes automation a stage further



2017

MindSphere, the cloud-based operating system for the Internet of Things

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> Siemens Company structure



Separately managed ----

Our Business Divisions

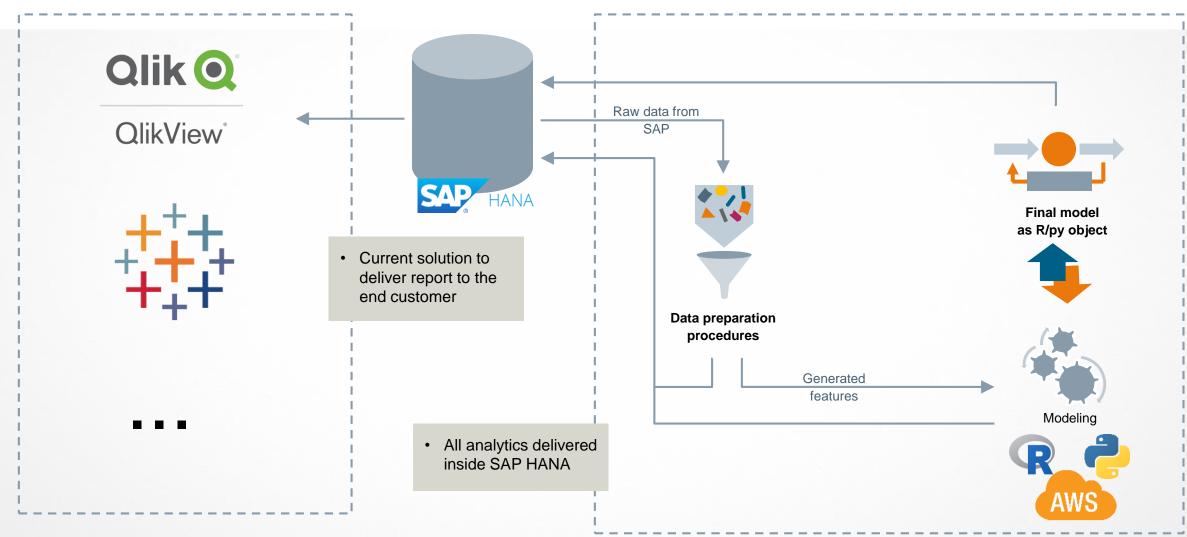
Power and Gas (PG) Power Generation Services (PS)	Energy Management (EM)	Building Technologies (BT)	Mobility (MO)	Digital Factory (DF)	Process Industries and Drives (PD)	Siemens Healthineers	Siemens Gamesa Renewable Energy	Financial Services (SFS)
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> Analytics Lab Technical Landscape



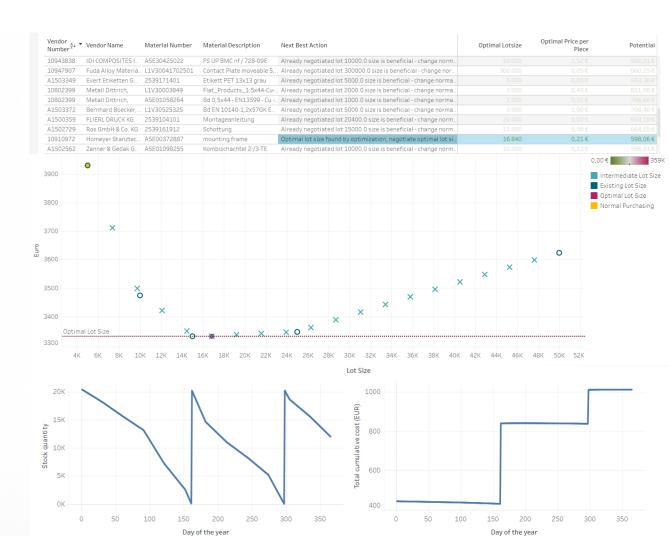


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> Analytics Lab Lot size Optimizer

- Optimization of the lot sizes for each product was done by business specialists, case by case.
- Currently we can assess optimal lot sizes taking into account consumption patterns and other costs.
- Optimal lot size is automatically sent to system.

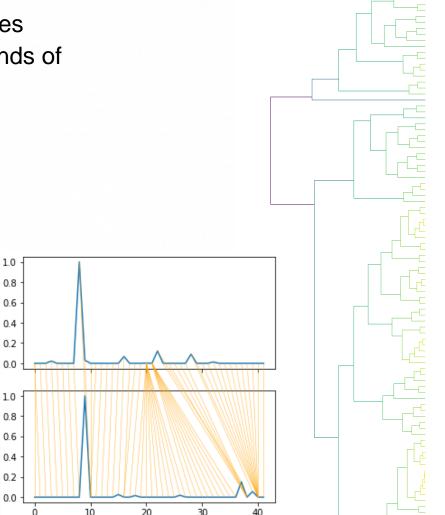




> Analytics Lab Lot size Optimizer



 A forecast of the actual consumption is done - series can have just months of data and there are thousands of materials per factory.





> Analytics Lab Traffic air analytics

- Track vehicles and generate reports for traffic patterns using a drone to capture video.
- Using object detection algorithms and classifiers for vehicle class.

Accuracy scores are quite high, human rate is ~85%.



SIEMENS Ingenuity for life

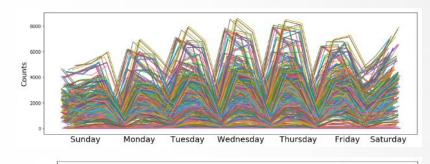


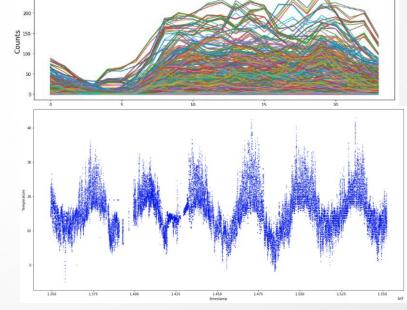
> Analytics Lab Parking forecast

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 Generate insights on public parking occupancy rate based on drivers current location – highway banners, dynamic displays,...

• There is plenty of information that is relevant to the problem: weather data, traffic data, events data, ...





> Questions



Thank you. Questions?

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