

IoT platform service helping to improve competitiveness of manufacturing industry

NTT DATA Big Data Business Promotion Office September 2016



1. Background

Trend: IoT/Industry 4.0 etc. are hot topics in manufacturing industry.

 \rightarrow Manufacturers require a system that makes data openly available and allows the various stakeholders who form their value chains to solve problems quickly and uninterruptedly.

Concept: The implementation should not be divided into phases and should involve the entire supply chain.

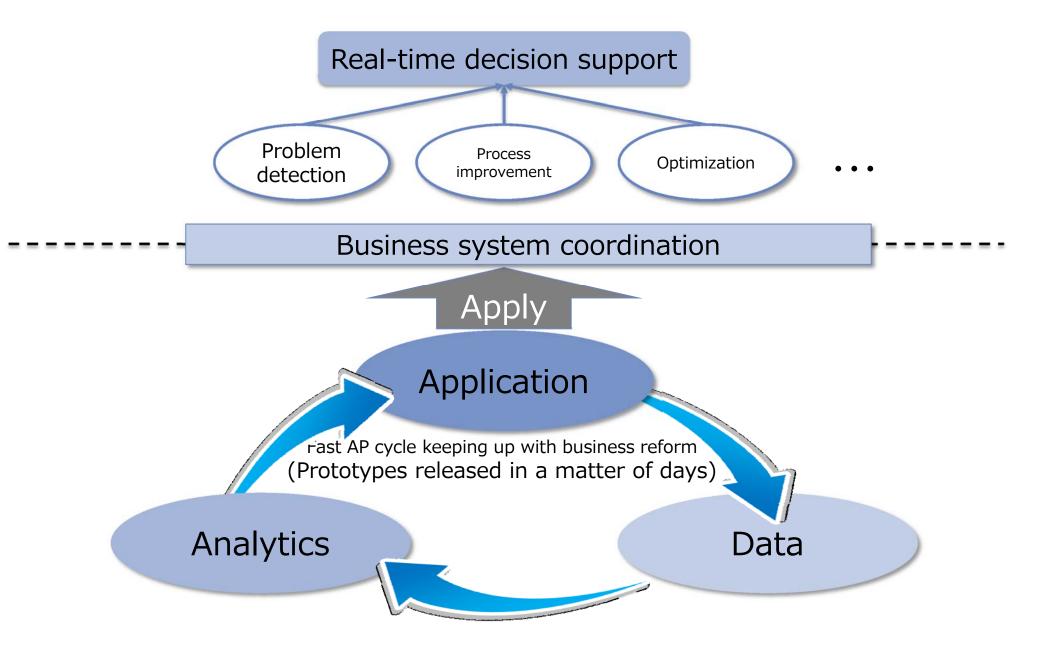
 \rightarrow Strong mutual coordination by common platform

	Procurement	Product	Logistics
<u>Challenges</u>	 Long lead time caused by interaction with each vendor Inefficient downsizing 	 Time and cost needed to identify cause of reduced throughput Automated but not yet streamlined 	 Buyers of products cannot be determined. Not yet standardized
	Coordination support by common platform		
	Open data	Information analysis/utilization	Optimized/real-time operation
	Open data • Collected from sensing devices • Accumulation on large cloud	 <u>Large-amount data analysis</u> Visualization of entire activities Value creation by analysis 	Operation process improvement • Operation reform by utilization AP

Based on our past activities, NTT DATA believes that the following three factors are what's really required to support the development of IoT for manufacturers.

Open (Interoperability)	Open data and participation of stakeholders in global supply chain
Real-time	Real-time visualization of entire value chain Prescriptive process intervention based on cause prediction for problem
Evolutionary	Uninterrupted evolution of business processes through distributed/spontaneous cooperation among stakeholders

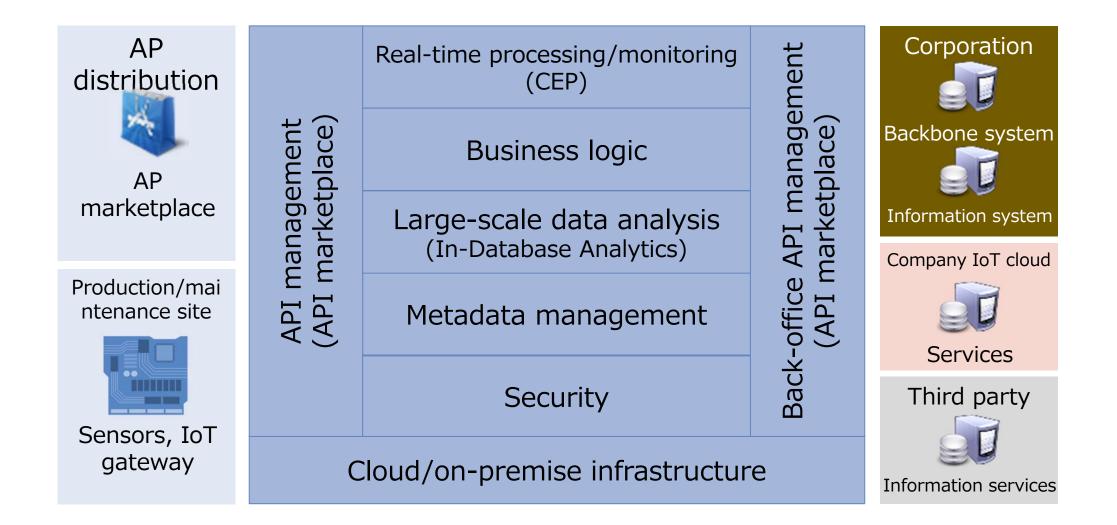




4. Picture of IoT platform sought by NTT DATA

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Building blocks of large-scale, real-time data analysis platform are common functions for allowing applications using collected data to be built or distributed easily.

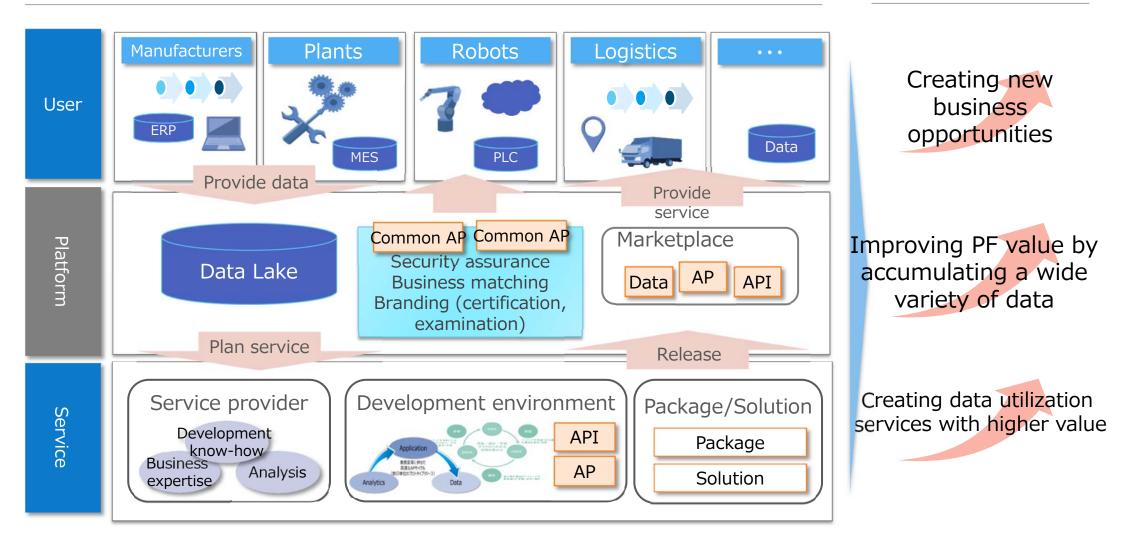


The most important characteristics of the platform leading to a business advantage: as users increase, new value is created and a virtuous circle emerges.

Utilization of platform

Effect

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