

Outotec's Digital Services Platform: How OSIsoft is Helping Transform Our Business

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Outotec – A process technology company



Serving the metals & mining, water treatment, energy and chemical industries



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Megatrends and Customer Challenges

Talent scarcity	Talent – especially close to mining site – scouting has become more difficult and mine owners cannot find the required capabilities.
Industrial Internet	Whilst more and more data is available, also making sense of that data becomes more and more difficult.
Potential for optimization	Plants are connected to global markets and customers. Optimizing over the entire value-chain is hard.
Full visibility	End-to-end visibility of operations is crucial for comparisons and business decisions.



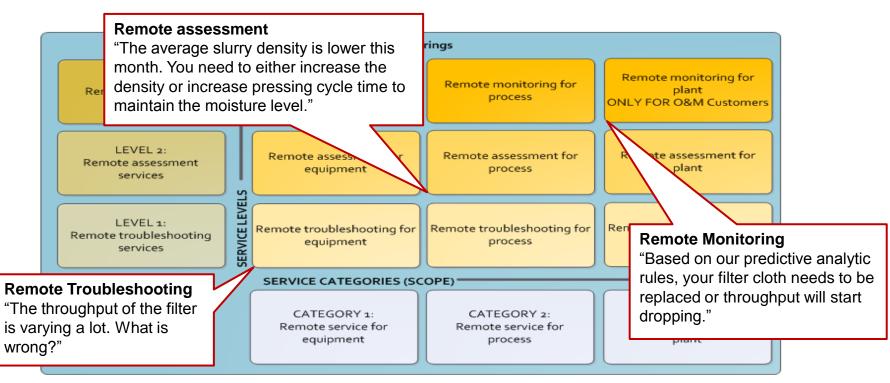
Outotec Digitalization Approach



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Digitalization: Remote Services Portfolio

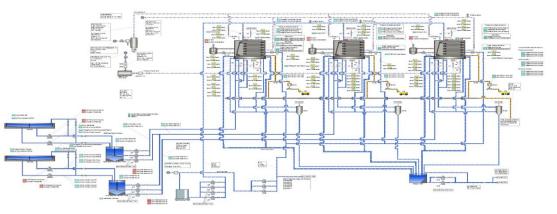
Outotec provides our customers with 9 Remote Service Products:



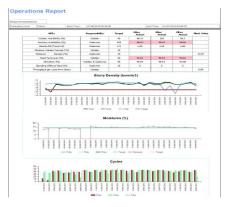
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Digitalization: Remote Services at a glance

Process analysis and troubleshooting



Periodic Assessment Reports



Dashboards and reports (Sample for Filter Process)



Dedicated experts available



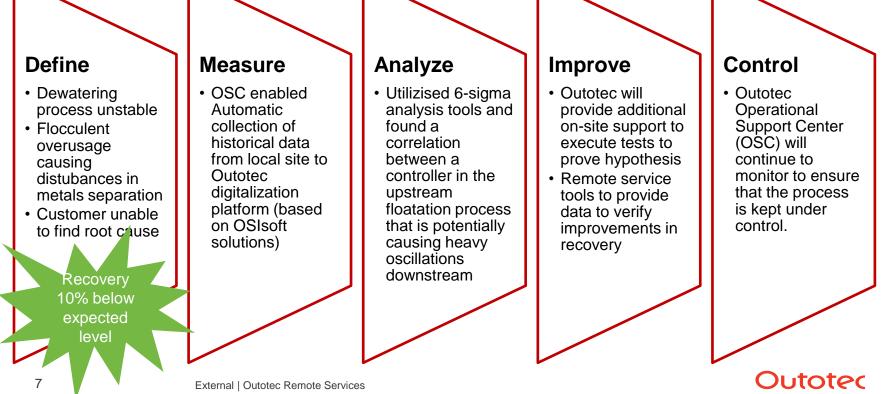
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Sample Case: Outotec solving concentrator plant recovery performance problem



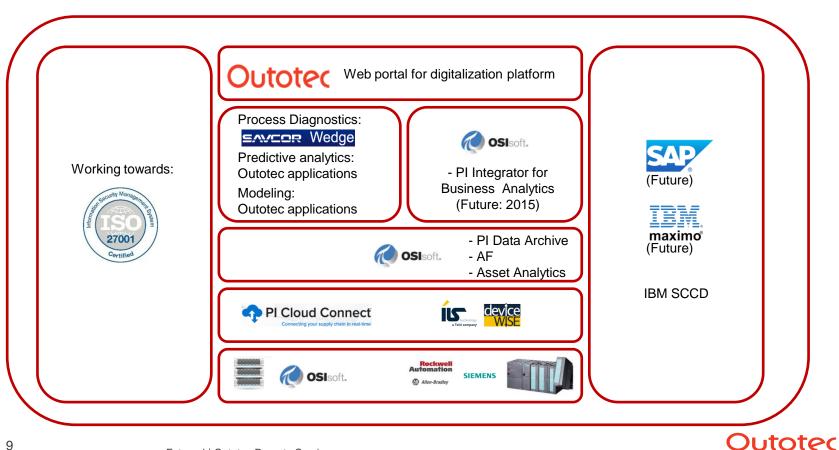
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Outotec Digitalization Architecture

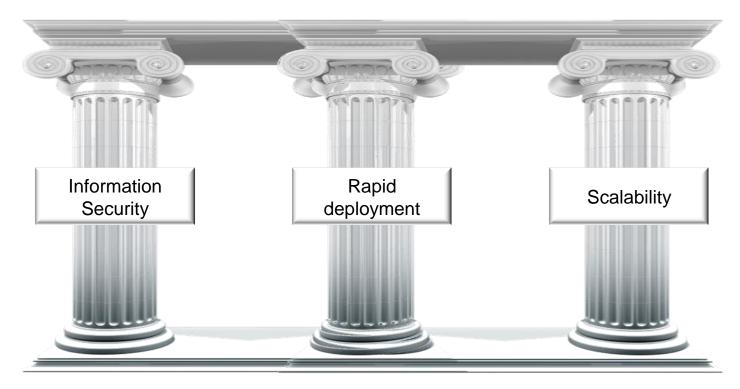


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Outotec Digitalization platform



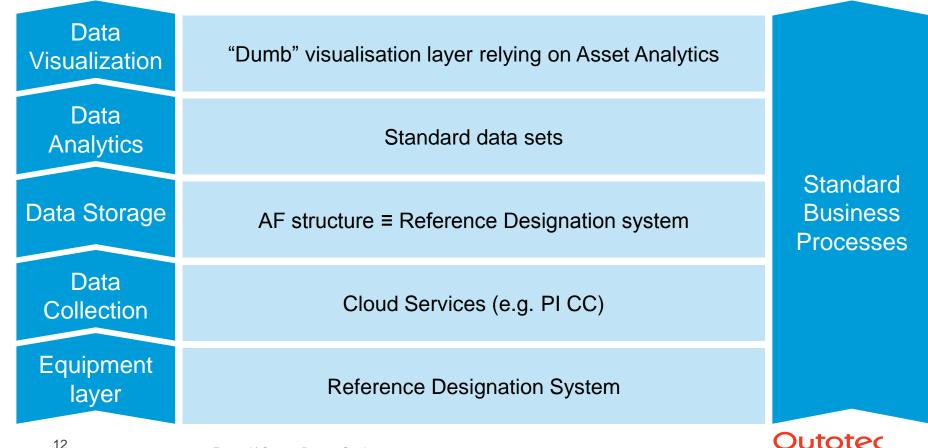
Solution build upon 3 pillars: Information Security, rapid deployment and scalability



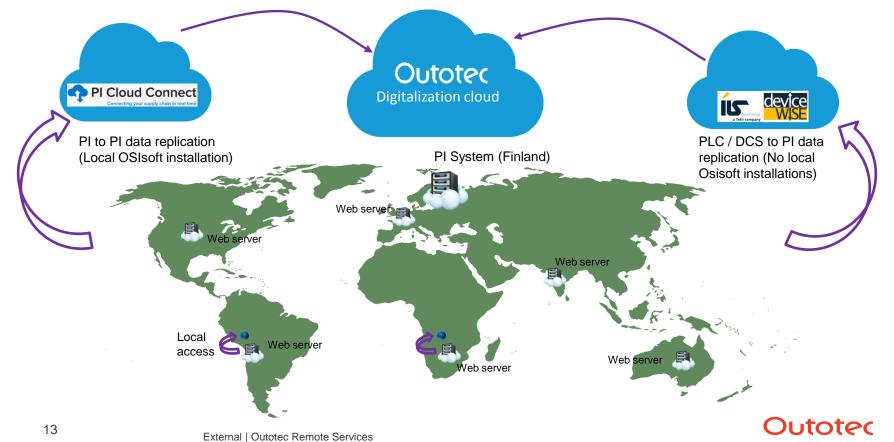




Rapid deployment and standardization at core of systems



Scalable architecture to meet global demand



Digitalization - How we will collect the data? Two preferred options:

Option 1:

Option 2:



OSIsoft Solution

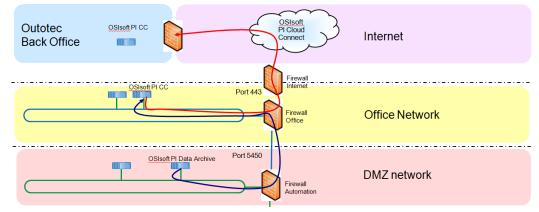
"Customer makes data available in local OSIsoft PI Data Archive and provide controlled access to Outotec over internet "

ILS solution

"Customer makes data available in OPC server or direct from PLC. Outotec installs secure ILS software agent to access data."



Digitalization: Data Collection - PI Cloud Connect Solution



- Local site has an existing PI System.
- Customer / Outotec connects to OSIsoft's PI Cloud Connect service in order to replicate data to Outotec systems.
- Customer can control what data is published. Outotec has no access to local OSIsoft Data Archive.
- Stable / secure service delivered by OSIsoft.

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Outotec Digitalization benefits



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Example: Spotting problems in furnace operation

A smelter plant experiences a flash smelting furnace problem with an out of control chemical reaction. The risk of foaming would force a shutdown of the furnace.

With Outotec Remote Services, the issue can be spotted remotely in time to prevent this.

The furnace is emptied and restarted in four hours. If the situation had escalated, the furnace would have caused a serious safety risk and been out of production for two days. Additionally, the operational processes of the monitored site are safer for personnel.





Outotec Digitalization key challenges



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Digitalization–Key challenges

Mitigation actions

Change Management	Handling digitalization deployment in diverse org. with numerous business lines.	Main focus on single business line to prove business case and fine tune deployment methods before roll out.
Data collection	Find single low cost "one size fits all" method.	Numerous pilots ongoing to find a small subset of data collection options. Reference designation system.
Data security	Secure the data. Persuade customer to share data.	Initial focus on customers who value Outotec partnership. Engage security consultant - Build case.
Operational Feedback loop	Services must be aligned with customer operational strategies and advice needs to be followed up.	Outotec extending capabilities in this area to ensure that Outotec has peers on every level.
Standard data models	Common templates for all equipment and process.	Strategic buy in required from business line management. Definition of AF templates with SMEs.

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"The OSIsoft platform, as part of our Remote Services, is enabling Outotec to deliver a portfolio of exciting new products that will open up new revenue streams and revolutionize the way that we do work."

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BUSINESS CHALLENGES

- A. Talent scarcity at sites to optimize use of equipment / processes
- B. Outotec spend a lot of time travelling to site and collecting data
- C. Outotec want to utilize our global knowledgebase to offer more realtime analysis and optimization services

SOLUTION

- A. Digitalization Strategy to enable low cost data collection and analysis
- B. Provide value adding services to the customer as well as data to our specialists to assist with on-site issues without leaving their desks.
- C. Connected services contract from OSIsoft opening up the use of full suite of OSIsoft products

RESULTS AND BENEFITS

- Service offering better aligned to customer needs
- Less reliance on CAPEX projects with valuable lifecycle service revenues
- Feedback loop to product development team to improve products



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State your name & company



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