PI System As A Core Of Outotec's Remote Services

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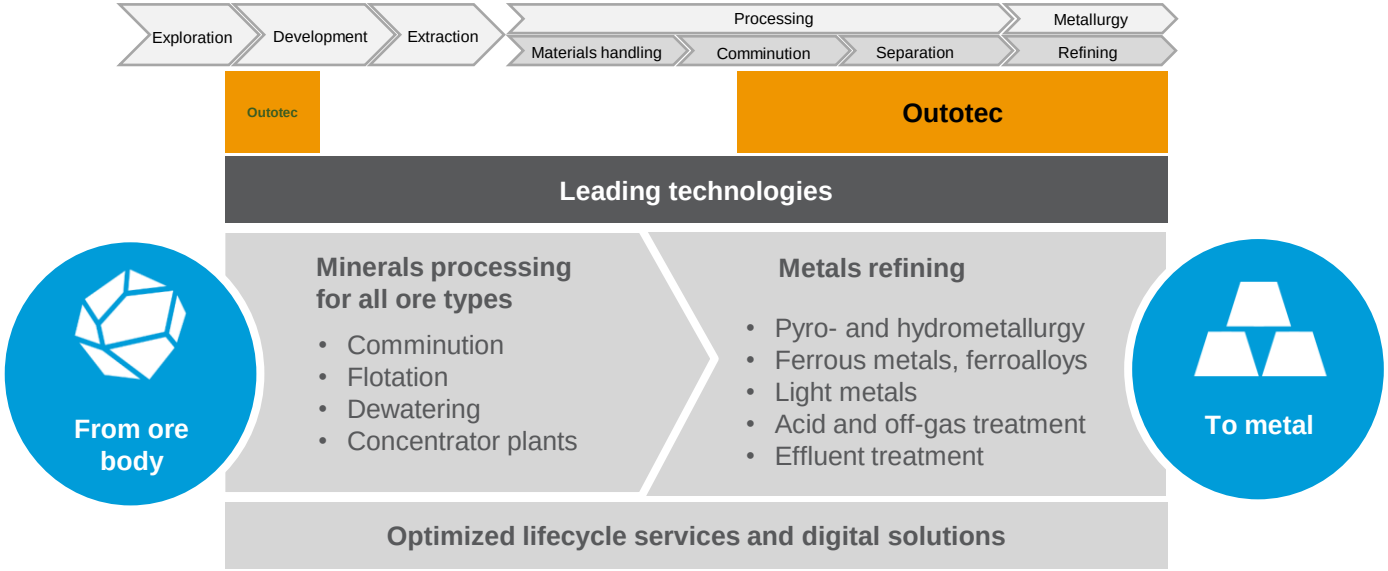
Outotec – a process technology company

- Global leader in minerals and metals processing technologies



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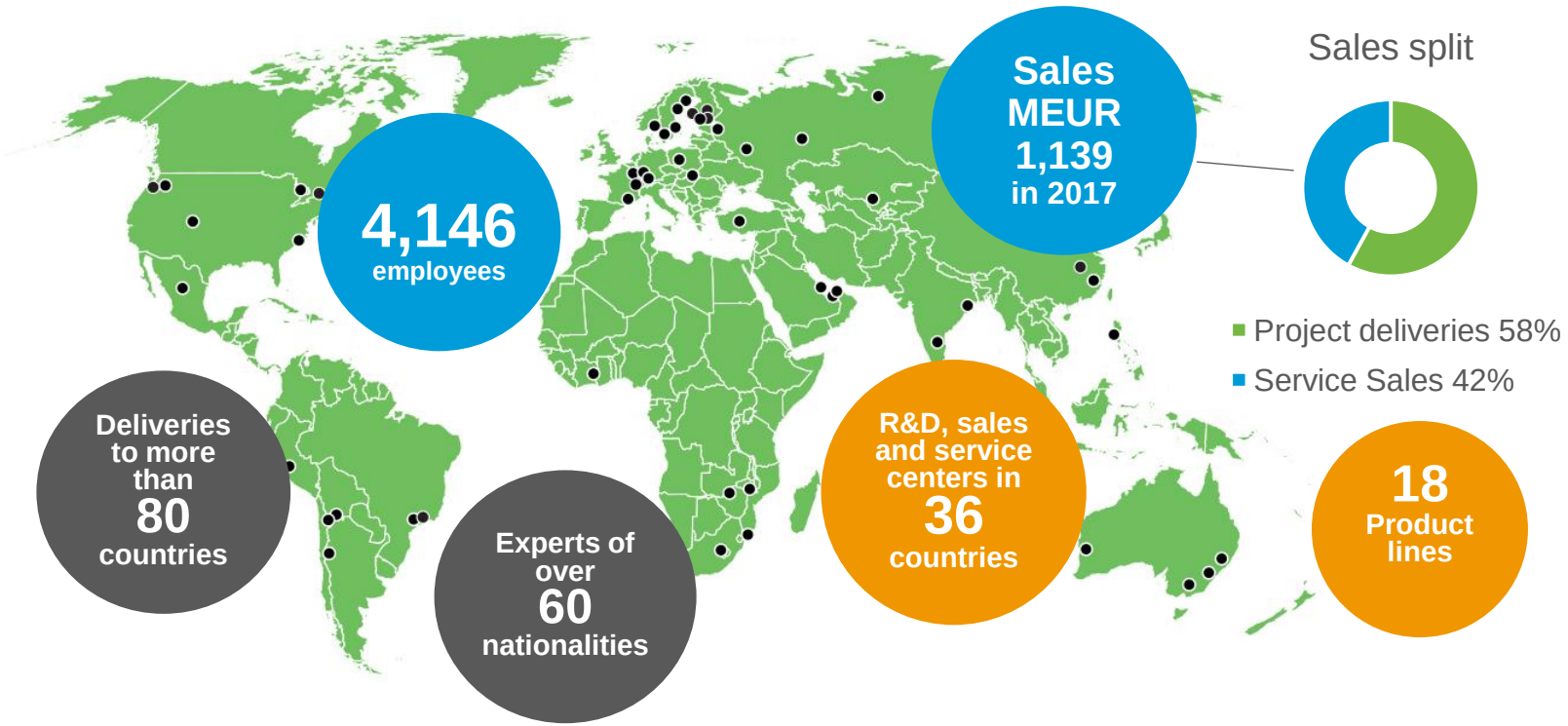
Local operations, global presence



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Remote Services

Expertise, reachability, continuous improvement

Together for the same goal

- Long-term continuous improvement improving customer productivity
- Fast resolution to production issues

Reachability

- Fast reaction upon request
- Best expertise on Outotec technology

Compliance with regulations

- Information security ensured
- User Access Management
- Environmental Reporting

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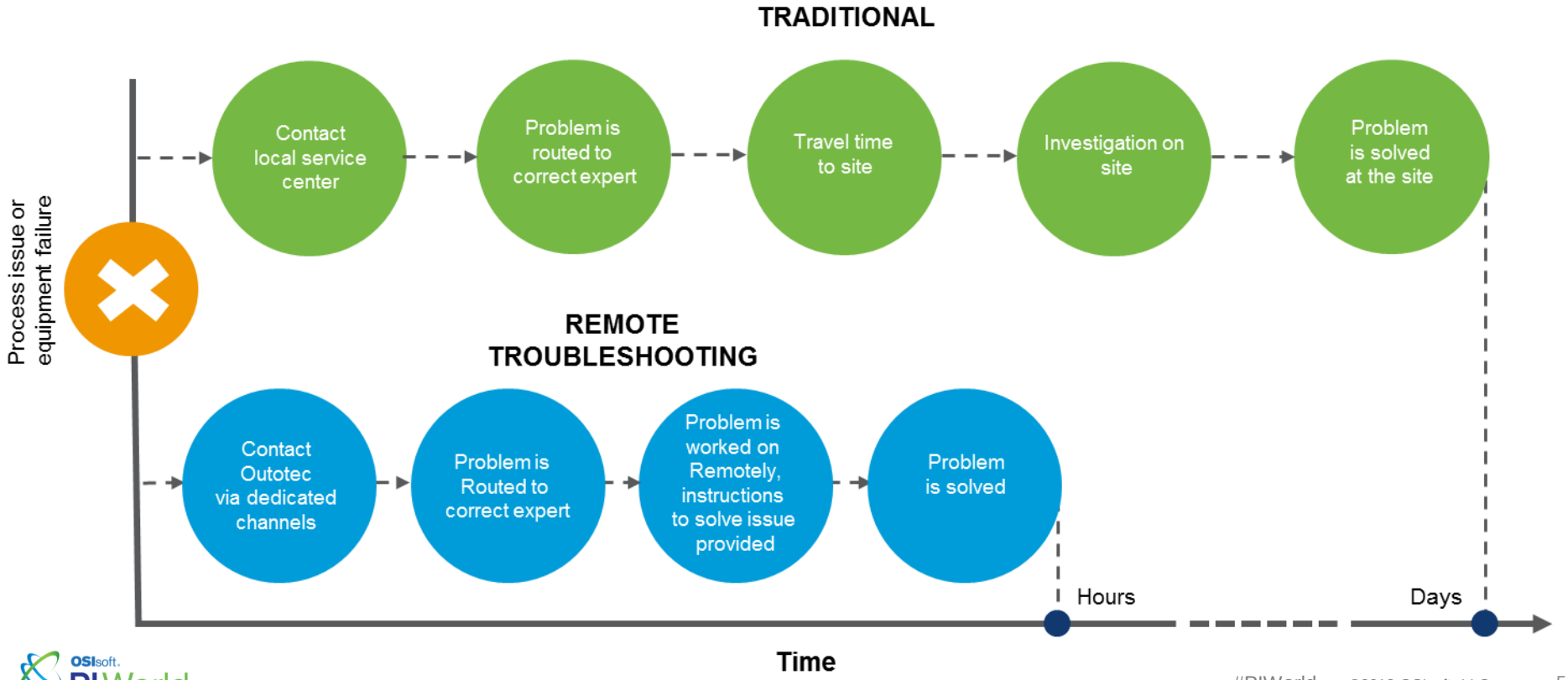
Remote Troubleshooting

Fast way to recover production



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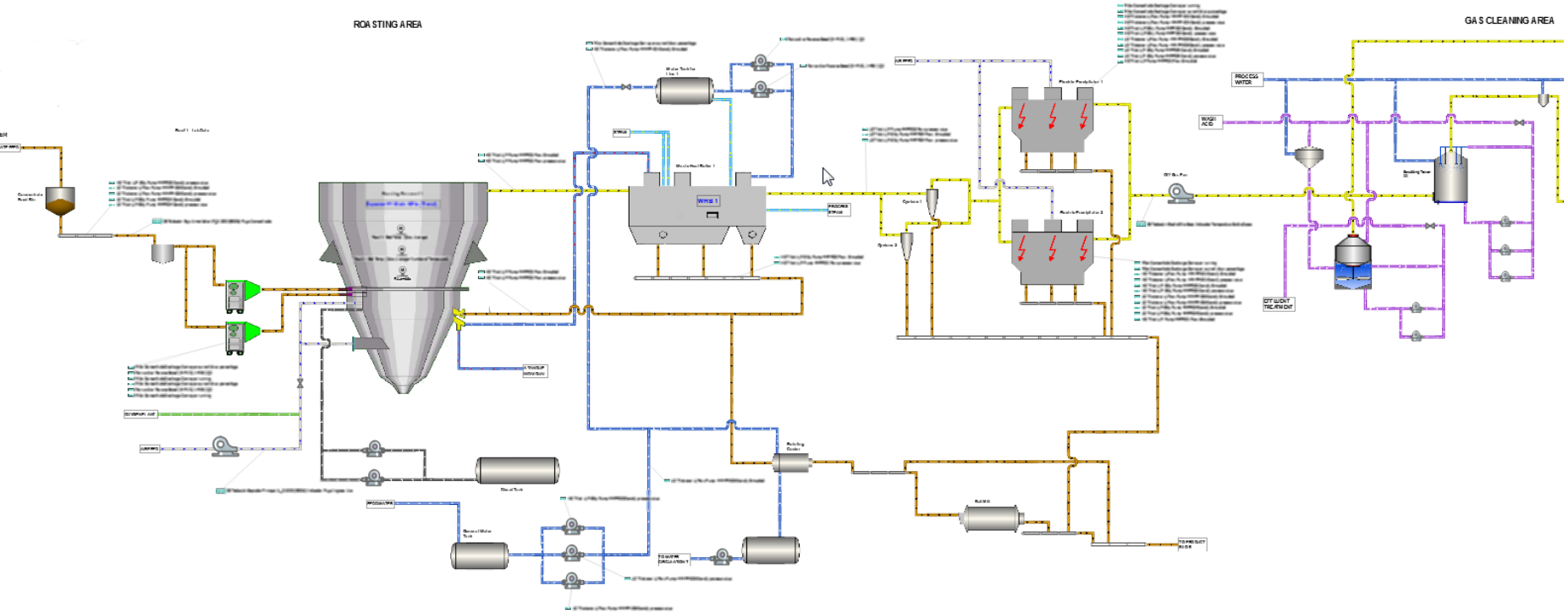
Wedge

Advanced analytics based on process data



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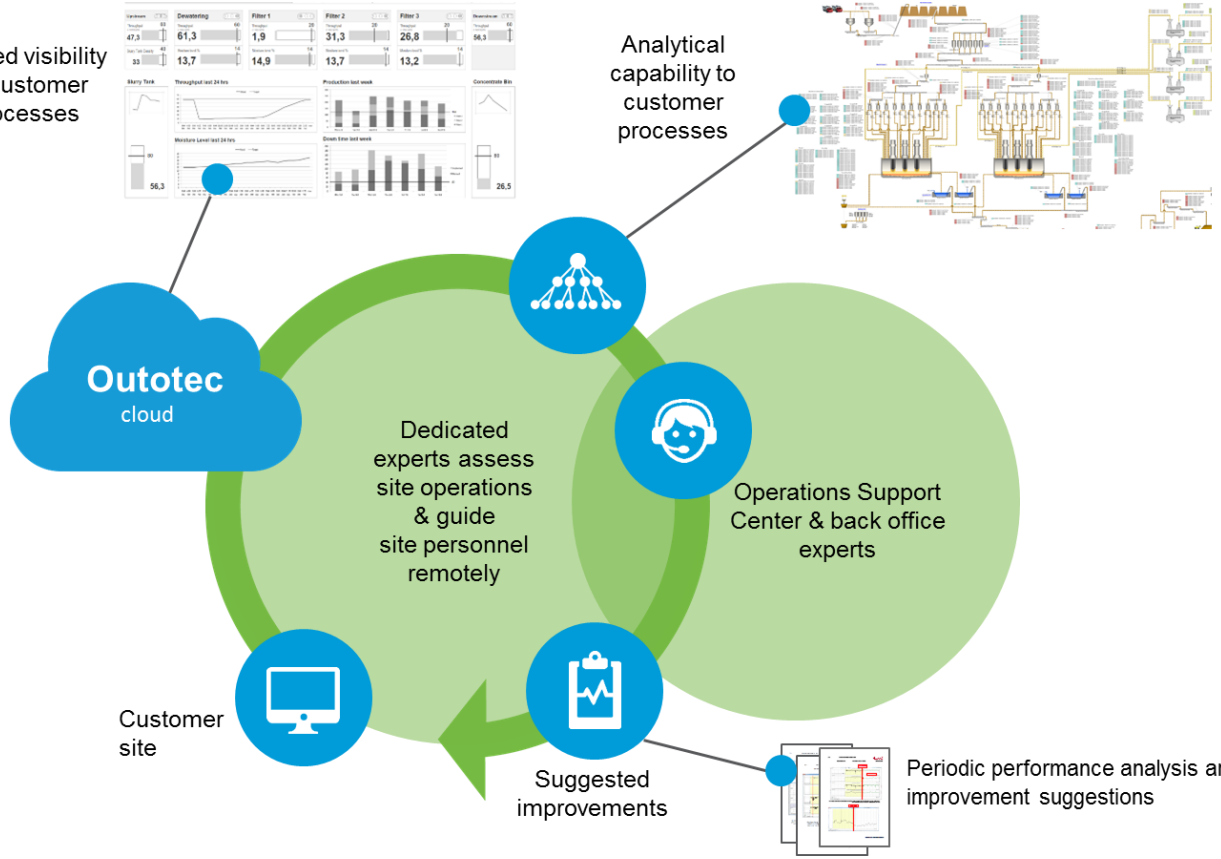
Remote Assessment



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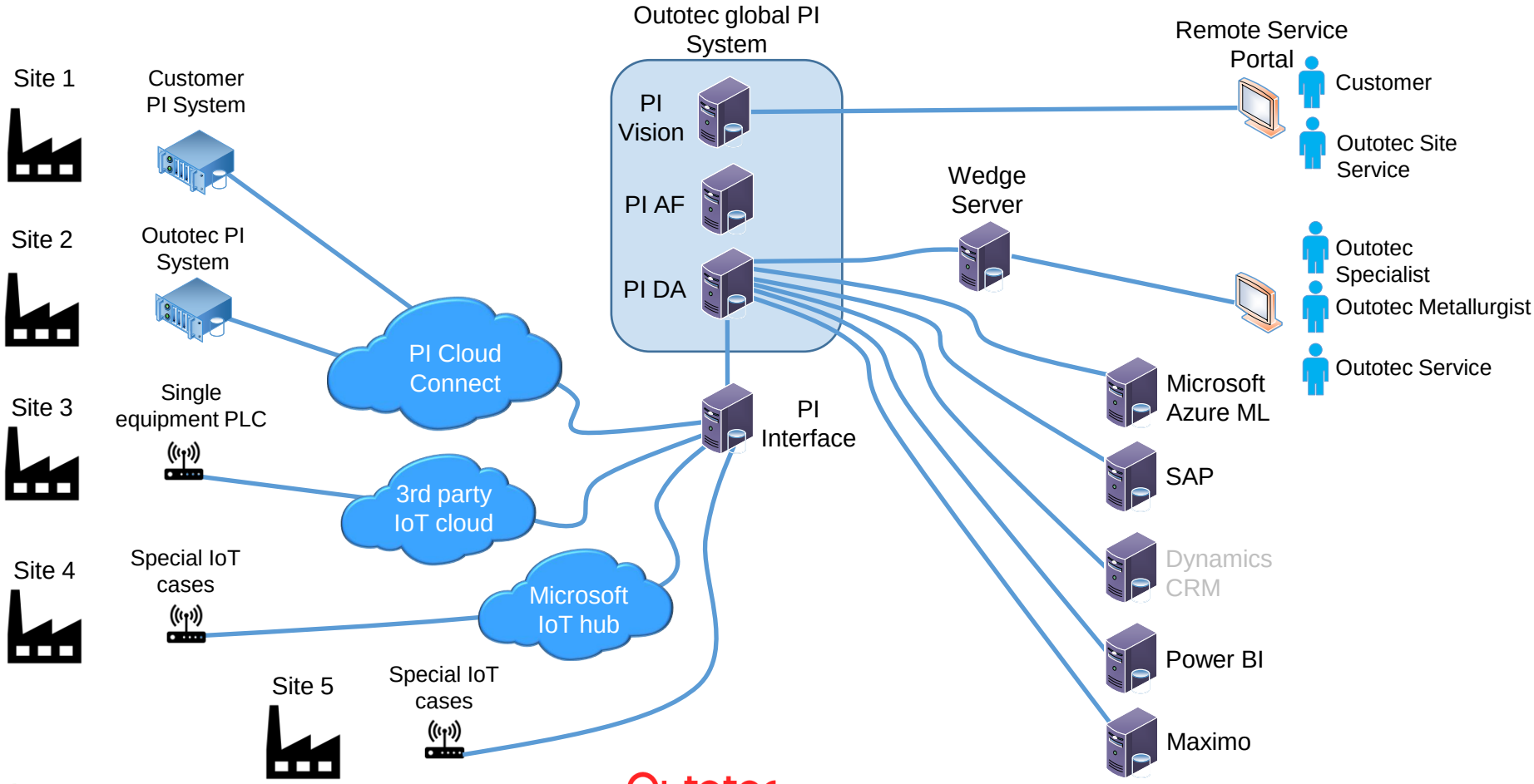

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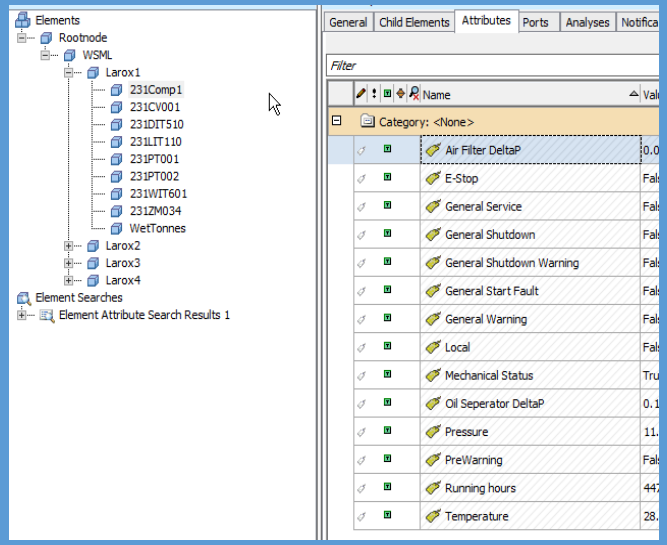
Asset Framework Enabling fast Deployment

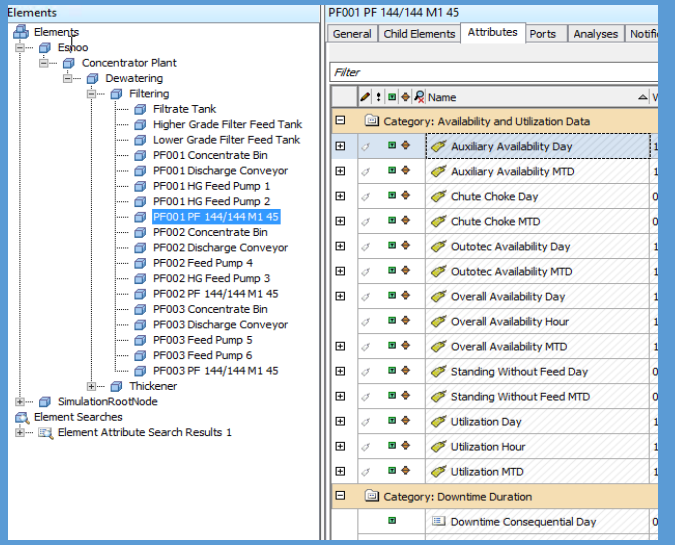
- Customer template



vs.

- Different raw data templates from different sites
- **Outotec template enabling fast deployment**
- Universal naming
- KPI's calculated the same way between sites

- Outotec Template



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Remote Service Portal

Shared insights and tools for day-to-day operations

- Process Book and Coresight dashboards published via web browser
- Fast deployment of recurring projects
- User role based dashboards
- Manual data entry forms
- Reporting
- Logbook functionalities
- Selected customer reference:
  - Anglo Platinum South Africa

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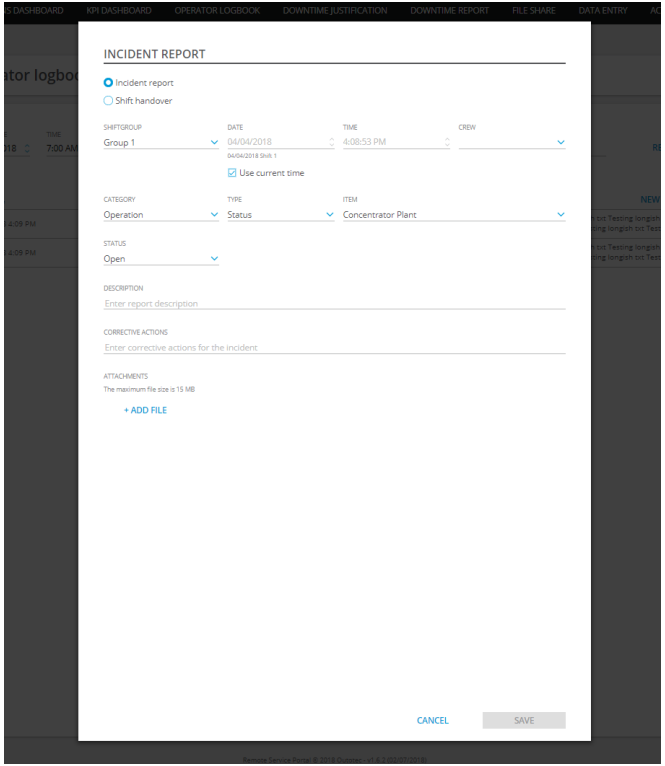
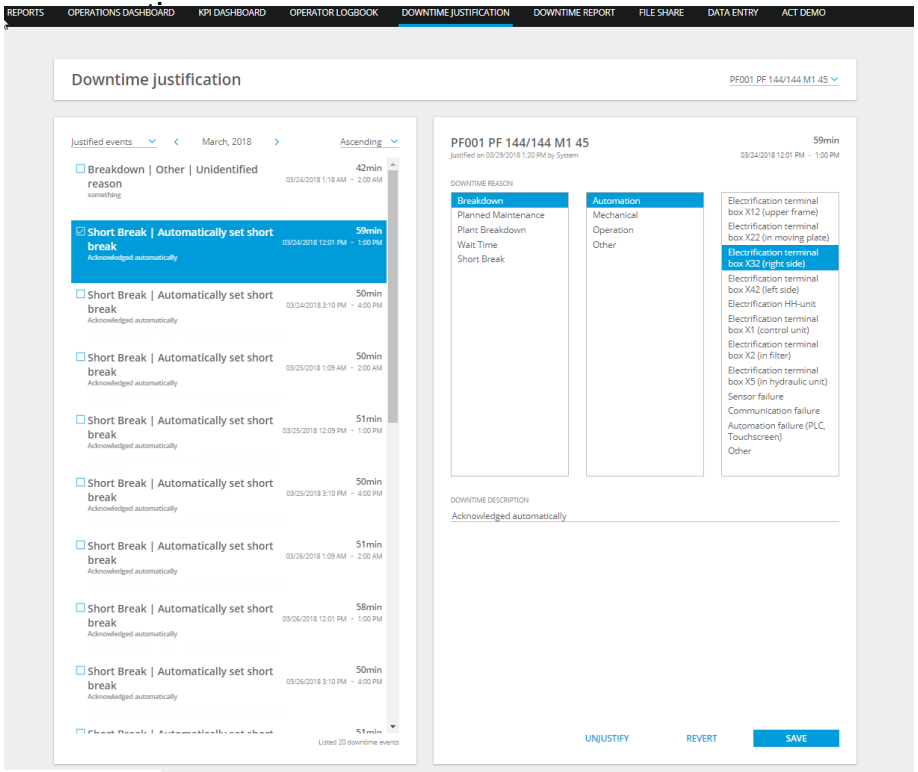


Example 1:

- Logbook
- Incident reports and shift change over forms

Example 2:

- Downtime justification and downtime



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Remote Service Offering in Future

- Outotec's strategy: PI System as an ERP for process data
- Enhanced portal monitoring capabilities
  - Processes
  - Systems
  - Data flows
  - Notifications and alarms based on process conditions
- LIMS module
- Predictive maintenance, Asset performance management
- Integrated machine learning capabilities

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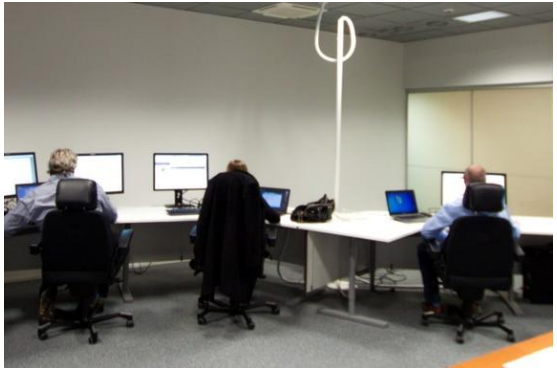

CHALLENGE

No or poor visibility to online/history data

- Remote or isolated site locations
- Long response times to service requests

SOLUTION

Globally centralized database with online process data. One truth!

- Full PI system taken into operation
- Remote Service Portal available
- Advanced analytics based on process data

RESULTS

Faster response and recovery times. Improved operational capability

- Reduced need to travel on site
- Shorter operation downtime during process issues
- Fast deployment of service

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Questions?

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State your **name & company**

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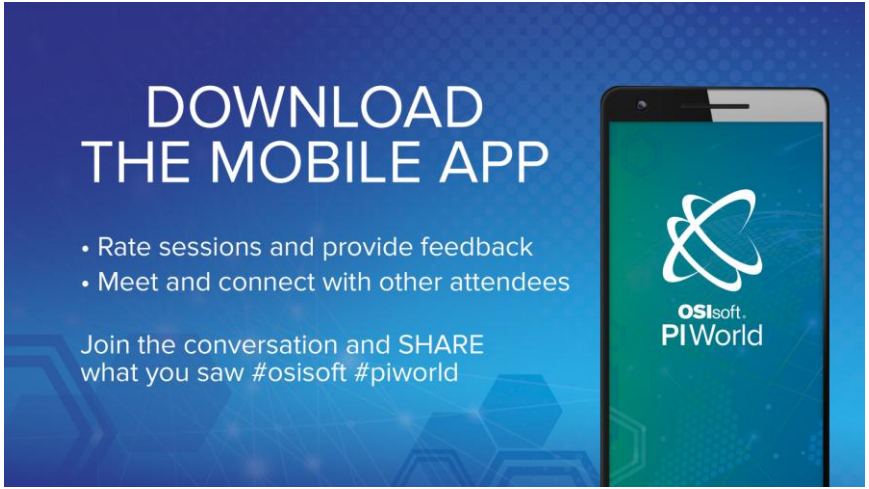

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