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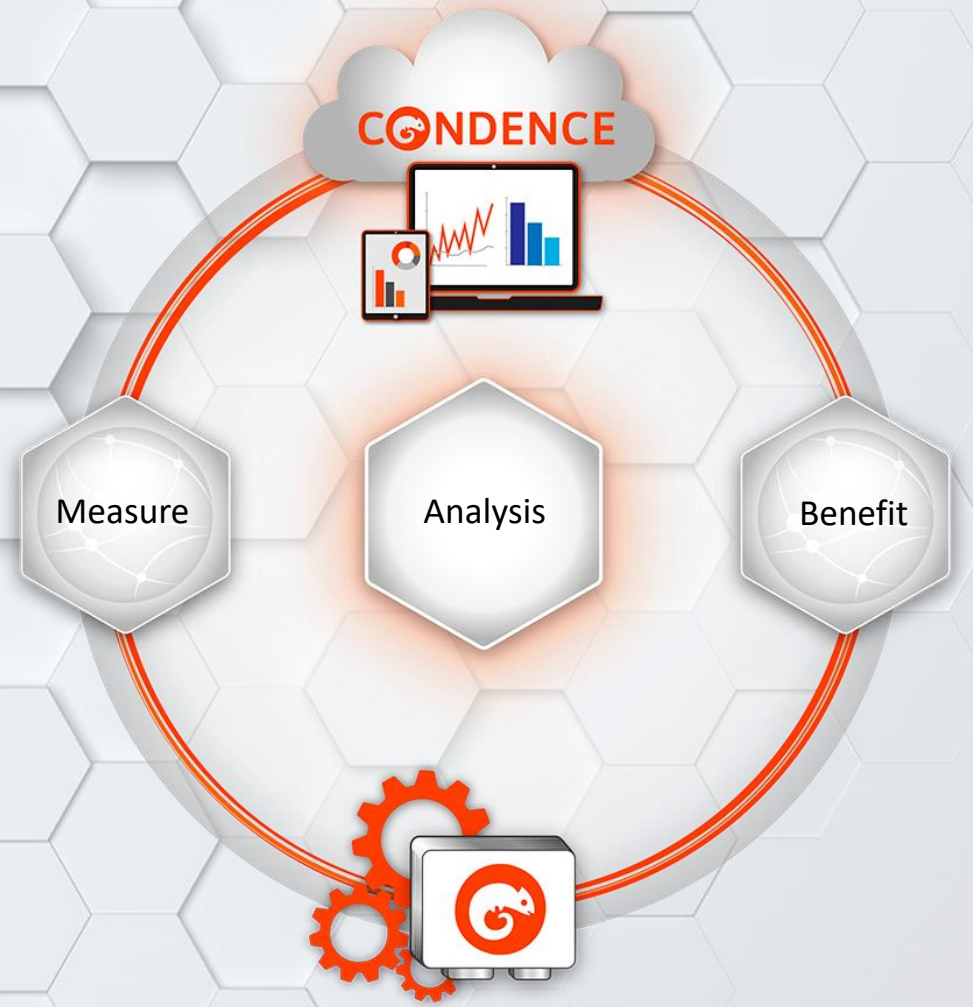
DISTRIBUTED INTELLIGENCE

Condence concept: CHP Facility

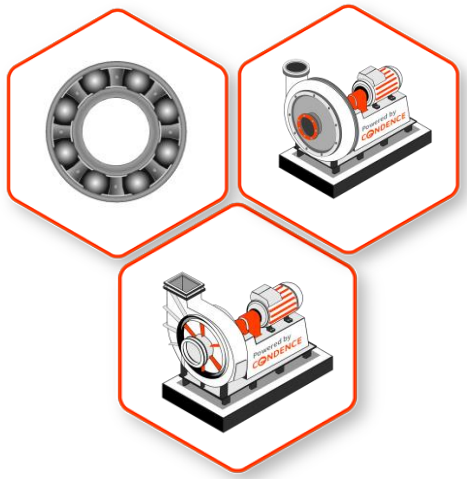
CONDENCE

Content

- General on remote on-line monitoring
- Benefits for CHP facility
- Monitored components
- Technical setup & Price examples



General Benefits in practice



Extend the monitoring plan beyond the turbine to cover all critical equipment

Increase maintenance accuracy & quality

- Start monitoring with relevant **accuracy** to maximise the **time to plan and react**
- Replace manual snapshots of machine condition with **continuous and accurate results**

Operational Excellence

- Skilled personnel can focus to more demanding tasks
- Reveal which assets / areas need your attention
- Perform actions in optimal time and minimised cost

Examples of notifications & using Condence as decision support

- Know the status of all bearings in the facility
- Get notified instantly if blowers/fans require blade cleaning
- Order alignment for machinery when it is actually needed
- Get notified if motors are running hot

Condence in CHP Facility

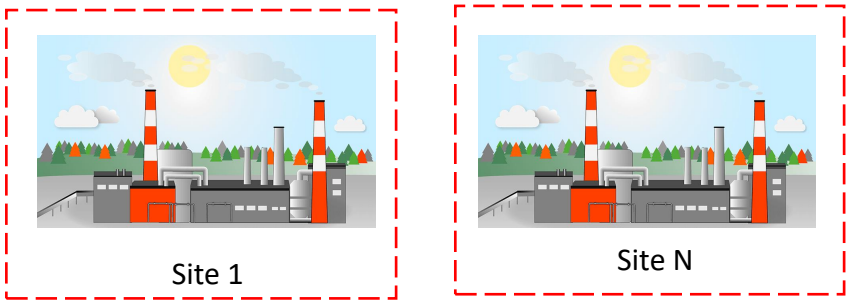
Manage several sites from one view

Improved control on digital asset management

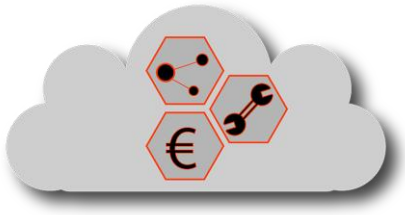
Remote services to reduce operational costs

Early detection and planning to avoid collateral damages and costs

Structured methods & data to improve O&M to maximize asset life



Structured data for post processing and optimization O&M



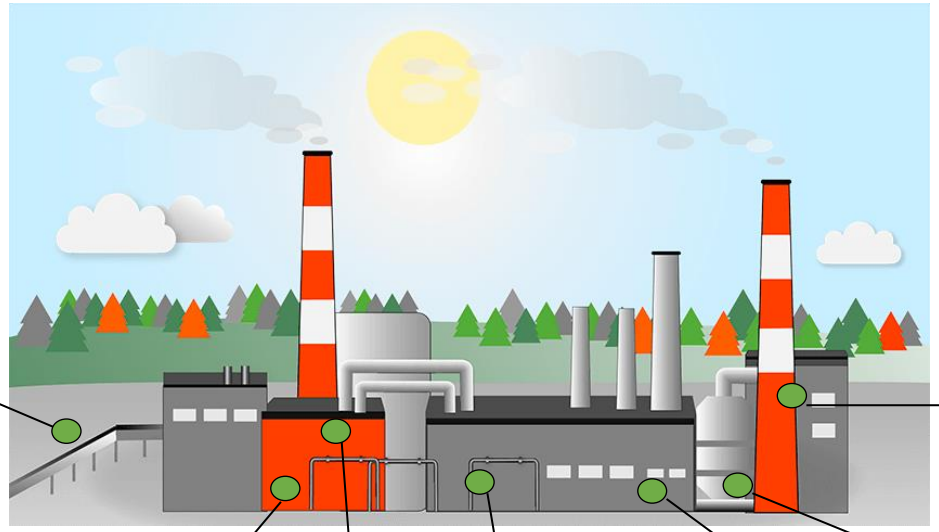
CONDENCE

Remote center view to monitor, analyze and decide actions on-line

On-The–GO

Shared access to external service providers and on-site personnel

Monitoring targets in CHP facility



Conveyors
Vibration analysis, power consumption

Feed water Pumps
Vibration analysis + options

Primary, secondary, circulation blowers
Vibration analysis

Gearbox
Vibration & Oil

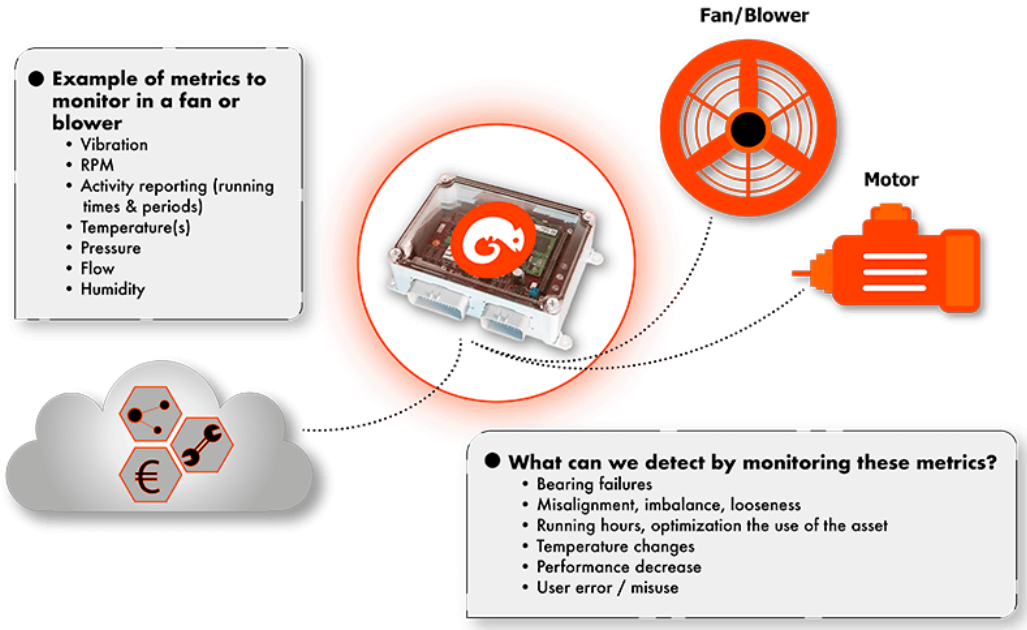
Generator
Vibration & Temperatures

Compressors
Vibration & Oil analysis

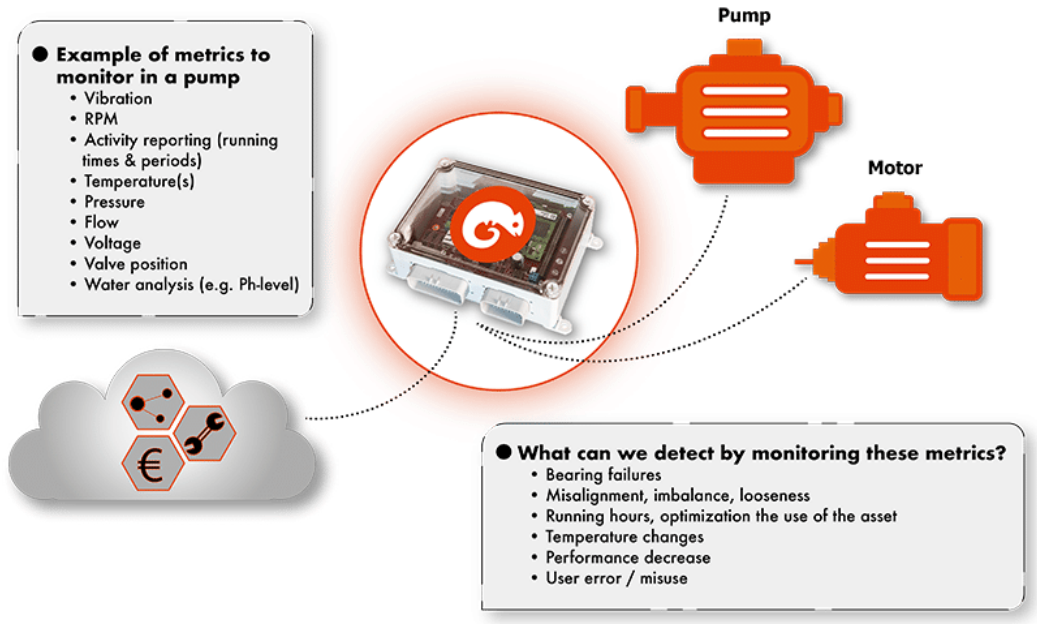
Flue gas & Cleaning blowers
Vibration analysis

Monitoring concepts – Common assets

Fans/Blowers: Flue gas, Primary & Secondary

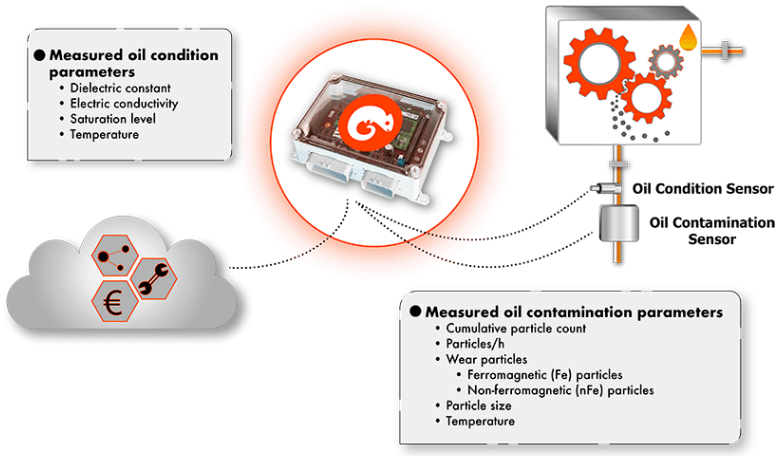


Feed water pumps

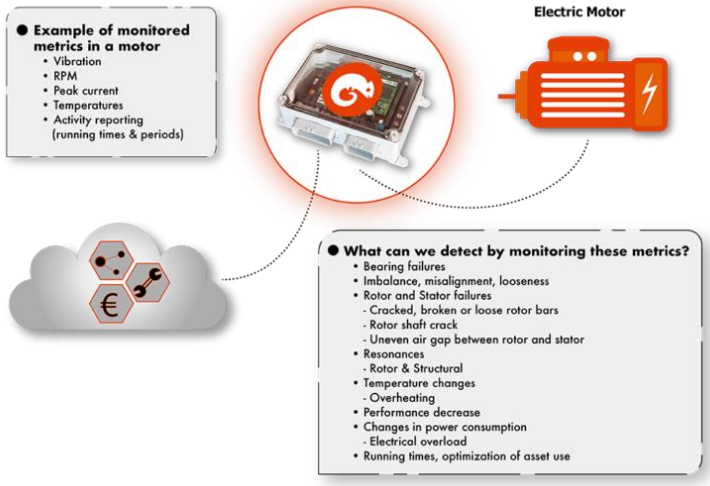


Monitoring concepts – Optional assets

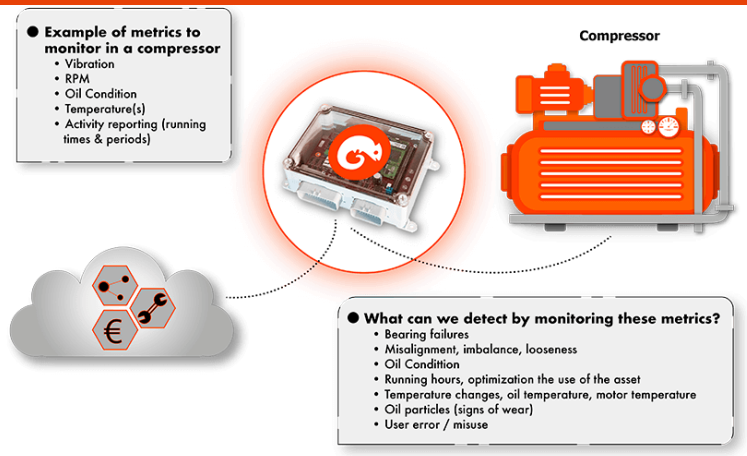
Oil: lubrication & oil contamination



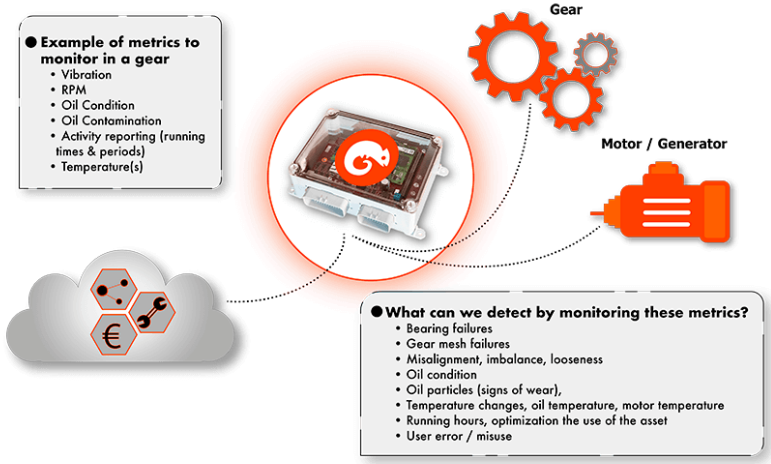
Electric motor / Generator



Compressors

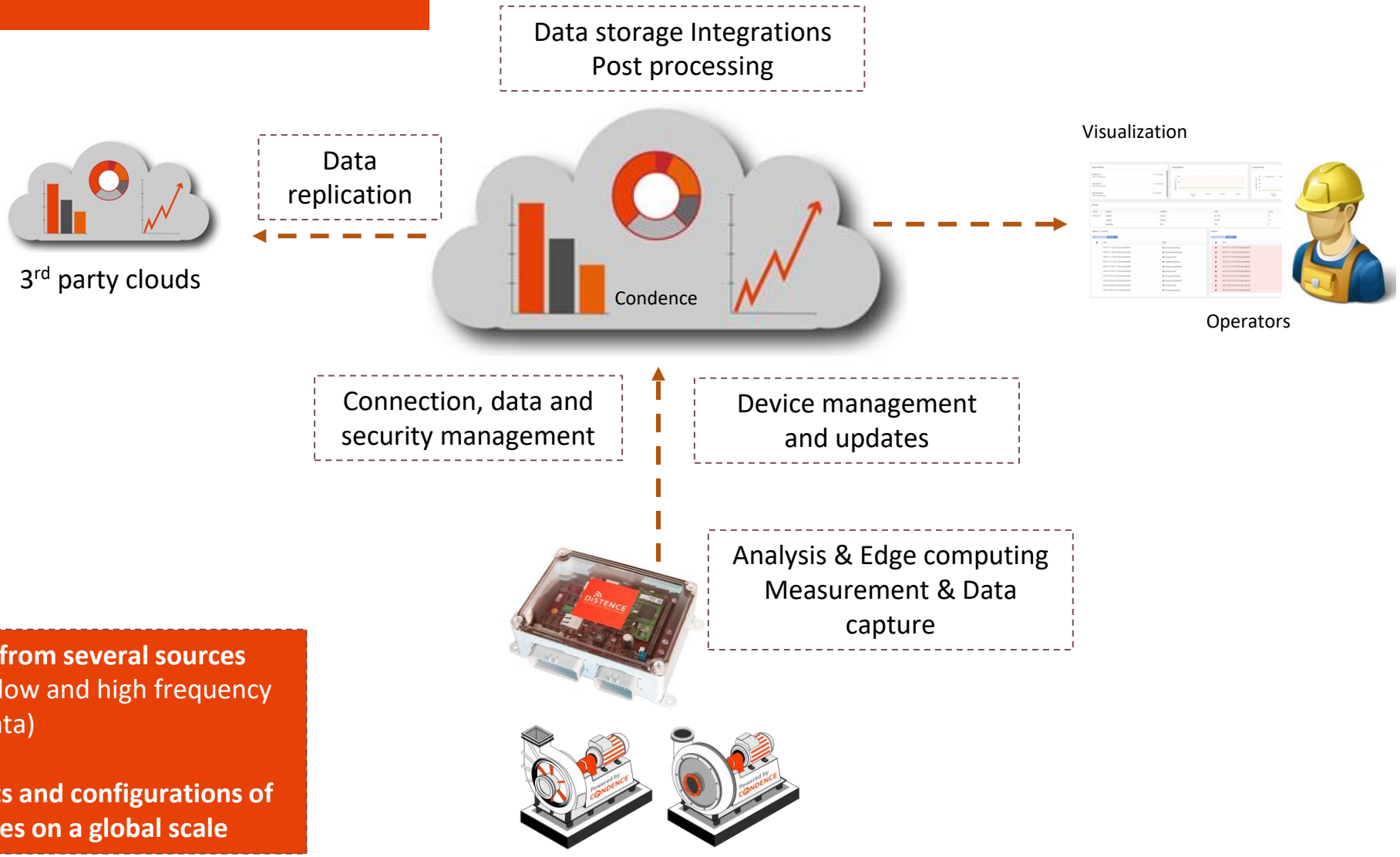


Gearboxes



Technical architecture

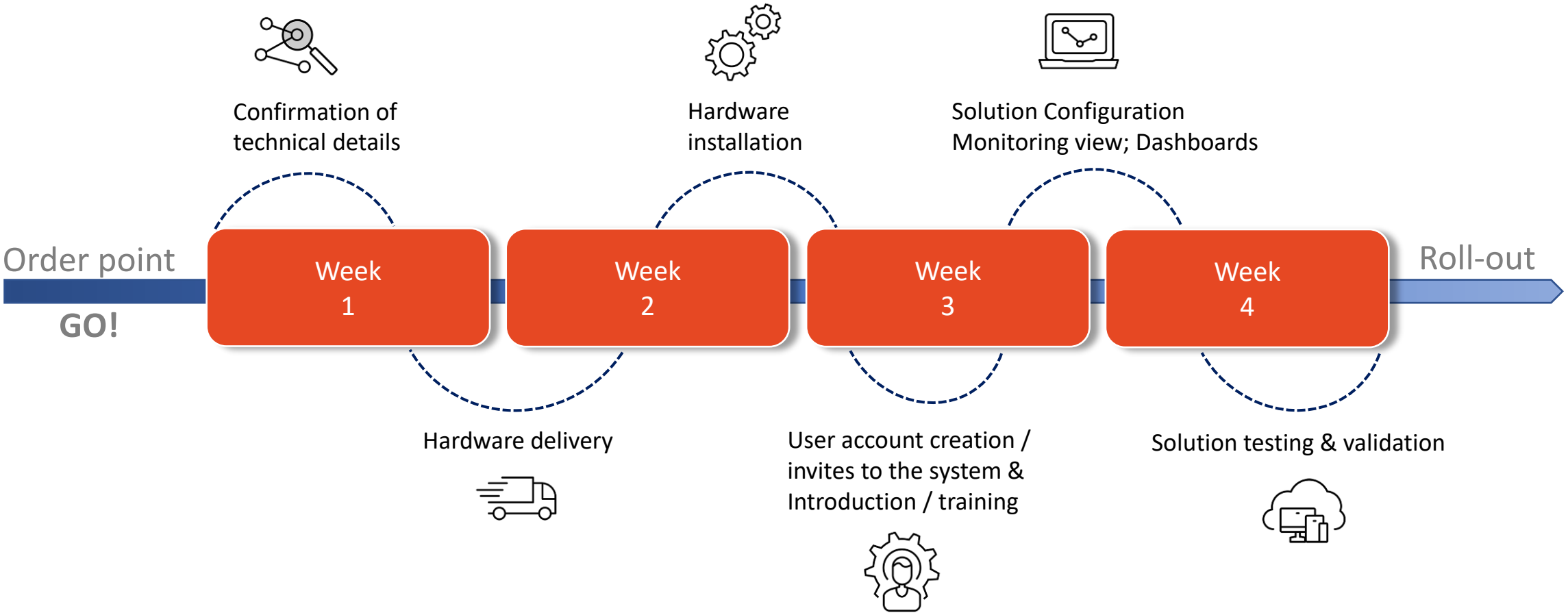
Architecture



Combining analysis from several sources (analog and digital & slow and high frequency data)

Management of assets and configurations of thousands machines on a global scale

Delivery timeline



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Read more at:
https://condence.io/applications/

Condence is a product of Distence Oy

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