Alignment of IT and OT for a digital enterprise

The world of industry is experiencing a major disruption. With the advent of the Industrial Internet, smart machines, and big data, manufacturers have started realizing the benefits of bringing IT and OT together in a connected factory.

But Information Technology (IT) and Operational Technology (OT) have a long, isolated history. Both developed along separate paths, with different goals, operating in completely different ecosystems. The gap between these two critical elements hinders manufacturers in having necessary information on hand. The lack of proper information at the right time can get translated into wrong decisions and unreliable outputs. However, IT and OT won't remain isolated forever.

DISCONNECTION BETWEEN IT AND OT:

The current situation in IT and OT shows that there is a disconnection on three topics:

- Technology Misalignment → Differences between the office and the shop floor
- Cultural Aspects → Organizational separation, because of differences in employee profiles
- Ownership and Governance → IT and OT often have different owners within the company

Driving IT / OT convergence by tearing down the IT / OT Data silo's.

BLUEPRINT FOR DIGITAL SUCCESS

We take 4 crucial steps to be successful in converging IT & OT from the start:

Step 1: Define your Industry 4.0 strategy – start with IT/OT assessment

Evaluate your own digital maturity now and set clear targets for the next five years with our IT/OT assessment approach, which consist of multiple interviews, business models/goals and an outside-in approach by mapping innovations to business changes. Final deliverable is an advisory report that maps the strategy of the company, align IT with OT and a set of first improvements to start from.

	IT/OT Maturity Scan	Business Case and Information Policiy	Mapping innovations to business changes
Activity	Measuring Organizational and IT maturity	Determine business goals/cases from current/desired situation and roadmap	Use of innovations for business changes
Effort	Interviews with at least 2 persons of relevant departments	Kick-off, multiple workshops and final presentation	Input of IT Maturity Scan, Business Case and Information Policy and innovations
Result	Maturity Matrix Balance model	Business goals aligned on current/desired situation including roadmap	Change curve and Benefits Dependency Network

20 days

Advisory report consists of:

- Business case(s);
- IT maturity assessment;
- MOMS findings & point of improvement;
- Roadmap;
- Desired System Architecture;
- Innovation and improvement IT maturity.

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Step 2: Create initial pilot projects – receive proof of business value for you

20 days challenge

Devices and assets	Cloud infrastructure	Analytics ready	Drive insights
Connect to sensors or assets to get the **physical** world to the **digital** world.	Store the **information** retrieved in its **contextual form.**	**Take action** based on data captured.	Derive and present **business insights.**

Proving the "business value" of a customer in a 20-day challenge is the second step of the journey. Based on the business case from step 1, we now want to create the first success to receive proof of the business value.

To learn more: www.orangenxt.com
https://ict.eu/20daychallenge/

Step 3: Use the power of data analytics

The driving factor behind every successful business? Data! Insights gathered in step 2 typically generate new ideas and business cases. We use analytical tools and smart dashboards to discover new business potential.

Use smart dashboards to see if devices are offline or have an error situation.

Check the device status and message history to determine what is wrong and take remote corrective actions.

Analyse the telemetry to see how your machine is performing.

Use the reporting to determine which devices or machines are experiencing the most problems.

While focusing on the business case and using budget for data analytics (instead of complex technical projects), we will generate quick revenues for the business.

Step 4: Transform into a digital enterprise

Final step is to transform any enterprise into a digital enterprise and generate revenues by embedding the pilot projects in their core business process.

BENEFITS

Advantages of the IT/OT assessment approach of the ICT Group, mentioned by our customers:

- Focus on the business case and clear benefits
- Increase of digital maturity
- Clear targets for the next five years
- Easy to respond to the increase of data needs in the IT and OT world
- Successful pilot projects – receive proof of business value
- Easier to enable production data to cloud services

MORE INFORMATION?

The ICT Group can help you with all aspects of IT-OT alignment:

- Guidance by our business consultants
- Alignment of IT and OT (Operational Technology: MES and process automation)
- Mapping innovations to business changes
- Business case and Information Policy
- To create a roadmap and masterplan
- Continues Improvement

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