AFRY Real Digital Twin

ACCELERATE YOUR BUSINESS BY USING AFRY REAL DIGITAL TWIN

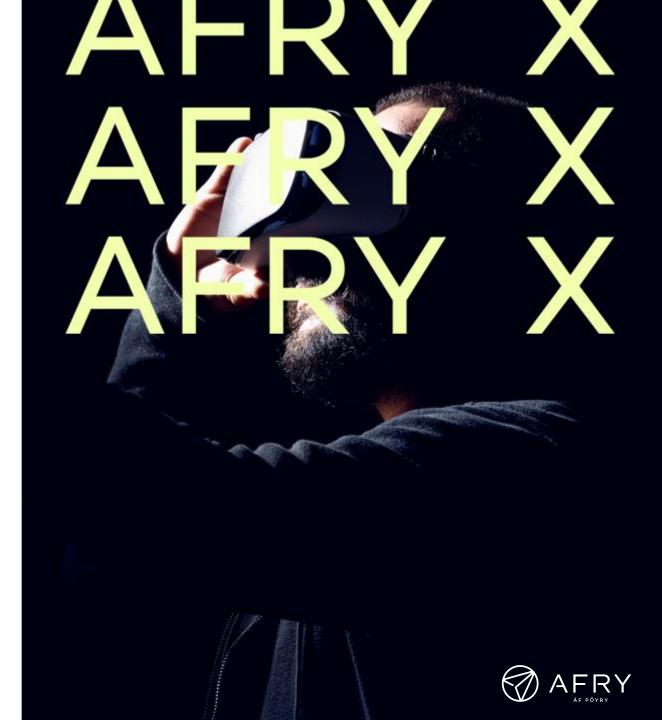


AFRY REAL DIGITAL TWIN

AFRY Real Digital Twin

AFRY Real Digital Twin creates an exact digital twin of any production, by emulating plant modifications in a 100% accurate digital copy on signal level of the production environment. This results in elimination of unnecessary downtime during commissioning and ramp up. This technology is a Game Changer as it gives the industry the opportunity to build, test and verify production equipment before its physically available.

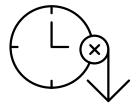
AFRY Real Digital Twin uses established protocols and technologies in combination with AFRY's libraries to allow integration of most automation equipment, control systems and supervisory systems independent from supplier and application. AFRY Real Digital Twin has been applied to industries such as automotive, water treatment, pulp & paper, and others.



Why use AFRY Real Digital Twin?



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Minimize risk

For customers who want to **build new**, change or **connect** their production environment

RDT technology is independent and connects solutions from different brands and suppliers



Real time data

We create virtual Industrial IoT data!

By creating an exact digital replica of your production system including all HW or processes (machines, sensors and actuators)

Quality insurance

It enables control of the physical systems by emulating plant modifications in a 100% accurate digital copy of your production environment before making changes to the actual plant



Reduced time & cost

Run 100% of operational

modifying a plant, which

eliminates unnecessary

downtime (both planned

commissioning and ramp-up

and unplanned) during

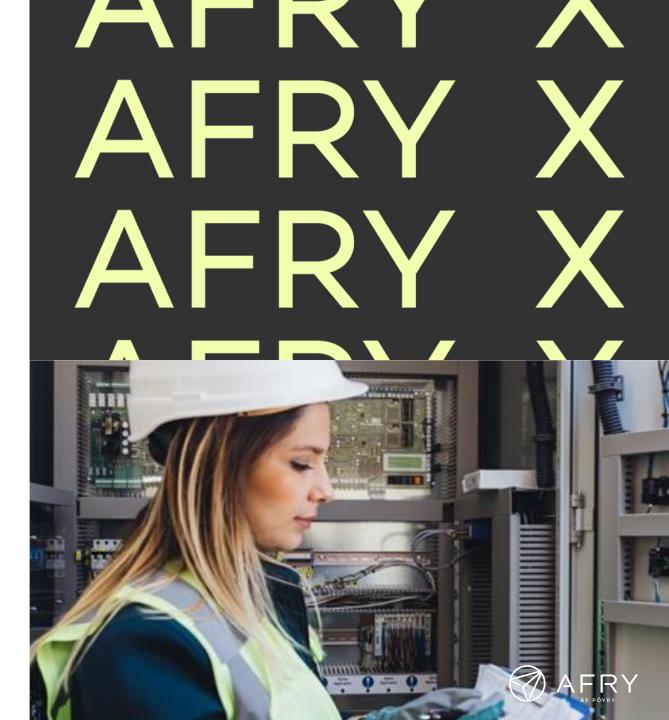
stops when building or

testing without production

AFRY REAL DIGITAL TWIN

AFRY X Real Digital Twin: Capabilities & Benefits

"AFRY RDT provides an exact digital replica of your production system which behaves and generates data identically to the physical twin. This emulated digital twin provides a range of capabilities and benefits"



AFRY REAL DIGITAL TWIN

AFRY X Real Digital Twin: Capabilities & Benefits

| CAPABILITIES | BENEFITS |
|--|---|
| Virtual Commissioning | Reduce commissioning and ramp up time up to 75% Minimise technical and economical risks |
| 1. Test multiple subsystems combined rather than separate | |
| 2. Virtual FAT | |
| 3. Quality assurance | |
| Training | Realistic operator training and visualisation Stress tests without real consequences |
| 1. Train operators on an exact system emulation | |
| 2. Provide immersive virtual reality-based training | |
| Optimise Production Processes | Re-create issues/problems virtually Find solutions with RDT testbed Generate virtual data for future implementation Predict behavior and performance |
| 1. Improve OEE by detailed emulation and analyses | |
| 2. Maintenance & trouble shooting support | |
| 3. Test bed for AI integration, generating industrial IoT data | |
| 4. Stress test OT software | |
| Virtual Design Support | Enable Agile WoW Shortens total project time & cost Assures the productions digital compatibility |
| 1. Create accurate technical specifications for project & procurement purposes | |
| 2. Use virtual hardware designs to provide feedback to R&D teams | |
| 3. Accurate emulated test bed for OT/IT integration (SCADA, MES, IT) | |

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Making Future

