

BENEFITS

Business scope: Improve productivity and transparency of human-centric industrial activities as: preventive maintenance, product assembly, quality assurance, construction works, work safety audits, work result analysis using artificial intelligence tools. Cross industrial applications.

1. Shop floor managers

- Transparency of the work: what shall be done and what was done
- Work order schedule management
- Synchronization of multiply event-driven workflows (teams working in parallel)

2. Workers

- Clear work assignment shown in the smart-glass
- Optional online learning of always up to date instructions
- All information (drawings, schemes) accessible from the smart glass
- Voice controlled communication
- Each work action is recorded (text, voice, video)
- Remote virtual assistance to worker
- Offline learning and testing of new workers

3. Technologists and productivity analysts

- User friendly and workflow design and update as technology changes (zero programming)
- Work execution multimedia results manual analysis by technologist and business analysts
- Input for AI video analytics systems

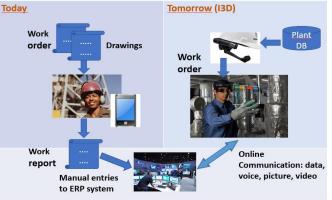
4. Company level benefits

- ✤ Adherence to ISO Standards of the company
- Sharing information between real and digital twin of the company (Industry 4.0)
- Work optimization (workflow content, duration, cost, workforce capacity) based on analysis of recorded experience.

Bottom line:

Improved quality and productivity of humancentric shop-floor processes.

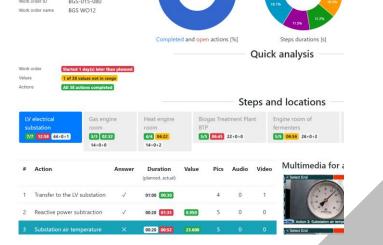
The I3D concept



The work execution in I3D



Work order completion multimedia report





Comment: Novitech (SK) is I3D development partner of e-Content Store S.a.r.l. (LU)





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I3D INDUSTRIAL SERVICES PORTFOLIO

Key I3D Industrial Services

I3D-WF -- Workflow editor
Definition and/or update of workflows: Work locations, actions, events, resources, tools.
I3D-WO -- Work order management
Composition of work orders from defined workflow types. Schedule and Assigning work order to worker(s).
I3D-LE -- Work order learning
Delta learning of work order in VR (virtual reality) smartglass mode
I3D-WE - Work order execution
Execution of work order in AR (augmented reality) smartglass mode
I3D-WR - Work order completion reports
Work order results reports by steps and actions (worker multimedia inputs)

Optional I3D Industrial Services

I3D-RA -- Remote assistant Online remote support for technician / worker in work order execution (I3D-WE) **I3D-OR** – Object recognition Recognition of an object (machine, product) from a set of object samples I3D-NW – New worker learning Offline VR learning of workflow by a new worker. Test capabilities of worker. I3D-ML – Multilanguage Working language(s) and local company settings **I3D-VT -- Industrial virtual tour** VR presentation - virtual tour of plant (Smart glass and desktop). Navigation to work order locations. I3D-MW - Multiply workflow management Workflows managed by events based on workers' inputs set during their work order executions **I3D-OC** -- Optical character recognition Value inputs to work order can be collected from OCR, barcode or OR code **I3D-AR -- Alarm receiving centre** Two-way live video streaming, with availability to connect to third party video streaming server I3D-AP -- Interfaces / connectors APIs to connect with ERP (SAP, Oracle) and process control systems (IoT) of Client

Client support services

I3D-S0 – Pilot use case service
Technical assistance in pilot use case selection, design and implementation (max. 2 months) – free
I3D-S1 – Trainings of client team
Web meeting and on-site trainings of shop floor managers, technologists and workers
I3D-S2 – Help desk services
7/24 help desk services
I3D-S3 – Custom SW development
SW development in integration of I3D services with client IT systems







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