HelmX Industrial Field Intelligence Platform Delivers GPS-Denied Visual Positioning and Field-Proven Asset Intelligence

Developed by a trusted bp digital-twin partner, HelmX turns routine field activity into continuously updated, 3D-located asset intelligence — even in GPS-denied environments.



HelmX helmet brochure cover

RIGA, LATVIA, LATVIA, September 14, 2026 /EINPresswire.com/ -- 3D Engineering, a trusted digital-twin and industrial digitalization partner to bp, today detailed the HelmX Industrial Field Intelligence Platform for energy and heavy-industry operators: a stack that puts every field walk on the asset through Platform Visual Positioning System (VPS) Capture Intelligence.

Developed by 3D Engineering from first-hand experience on complex industrial sites, HelmX captures 360° visual, spatial and contextual data during routine fieldwork and converts it into structured, time-stamped asset intelligence. The helmet is the essential data-capture layer; the platform creates the operational value through digital-twin updates, asset-integrity insights, change, corrosion and anomaly detection, automated field reporting, and real-world datasets for industrial robotics.

Field proof from a live offshore platform pilot (pilot customer unnamed) includes:
- Median positioning error of 0.11–0.26 m in GPS-denied conditions, from existing scans
- 84 confirmed corrosion findings in one survey, severity framed to ISO 4628-3, positioned and prioritised
- 10× separation between real change and viewpoint noise across a 2023 survey 2026 walkthrough comparison

"Industrial sites do not have a shortage of data. They have a shortage of data that is current, structured and connected to the right asset. We built HelmX so every field walk can become a

repeatable source of industrial intelligence. The helmet captures what is happening; the platform explains where it happened, what changed and what needs attention."
— Reinis Tocelovskis, Founder & CEO, 3D Engineering and HelmX

Putting Every Observation in the Right 3D Context
At the centre of HelmX is a proprietary Visual Positioning System (VPS) designed for GPS-denied areas such as process plants, enclosed industrial environments, and offshore decks. VPS automatically places field observations, reports, tags, anomalies and compatible third-party sensor readings at the correct position and asset inside a 3D environment — vision-only localization against previously mapped site models, without beacons, tags, or dedicated radio infrastructure.

Industrial data loses value when its physical location must be reconstructed manually. Conventional workflows often leave images, inspection notes and sensor readings isolated in folders or reports, separated from the asset and position they describe. HelmX connects those records to their correct 3D context so teams can use the information immediately rather than rebuilding that context after the fact.

A Continuous Update Layer Between Dedicated Surveys
HelmX captures data during normal inspection, maintenance and operations walks, adding a continuous update layer between dedicated scanning campaigns. Teams can compare conditions, surface changes, support asset-integrity assessments and create traceable field records. Compatible third-party sensors can feed the same spatial layer, which can also contribute to industrial robotics training datasets.

Built for Operators Who Need Place, Evidence, Then Action
For energy, petrochemical, mining, infrastructure and large-project operators, the challenge is no longer simply collecting more data; it is keeping data current, spatially correct and usable by operating teams. HelmX is intended for asset integrity, inspection, HSE visibility, digital-twin validation, and field execution workflows.

Product overview and brochure: https://www.helmx.ai ·
https://www.helmx.ai/assets/downloads/HelmX-Product-Brochure.pdf
Interview, stills (VPS map, corrosion/change, anonymous offshore), founder headshot, and brochure available on request.

About 3D Engineering
3D Engineering is a Latvia-based industrial digitalization and engineering company specializing in 3D laser scanning, 3D modelling, digital twins and asset-integrity solutions for energy and infrastructure operators. Its project experience includes work for bp and other major industrial clients. 3D Engineering developed HelmX to close the gap between routine field activity and decision-ready asset intelligence.

About HelmX
HelmX is an industrial field-intelligence platform powered by a proprietary helmet-based data-capture layer and Visual Positioning System. It transforms 360° field data into 3D-located digital-twin updates, asset-integrity insights, change, corrosion and anomaly detection, automated reporting and training data for industrial robotics. Its VPS places observations and compatible sensor data in their correct 3D context even in GPS-denied environments. Hierarchy in public messaging: Platform VPS Capture Intelligence. Learn more at https://www.helmx.ai.

MEDIA & PARTNERSHIP CONTACT
Reinis Tocelovskis | Founder & CEO | info@helmx.ai | +1 (650) 855-2797

Reinis Tocelovskis
HelmX Co.
+1 650-855-2797
email us here

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