



Doing the Virtual Gemba

To truly understand a situation, one needs to observe it where it happens. This key manufacturing principle of the Toyota Production System is known as Genchi Genbutsu (or the ‘Gemba attitude’ as it is popularly called). The underlying premise here is that you only understand that which you experience with your senses, therefore you have to be out there where the action (and problems) happen.

This boots-on-the-ground approach has been in use for decades, but the challenge is how many places can we be at once? Do we have the people required to faithfully achieve it? A possible way to overcome this challenge is to do some of it virtually and help operations teams prioritize their physical interventions. That's why we're bringing Virtual Gemba to industrial partners in collaboration with our technology partners.

As you know, context and experience are two sides of one coin. Experience is developed when you live in the context for long enough. Virtual Gemba is exploiting context in a more efficient manner than what has been traditionally followed – physically walking around the shop floor at predesignated times.

Falkonry can locate anomalies and contextualize them from existing sources of manufacturing data. This information drives attention towards specific parts of a photorealistic and interactive virtual view of the context. Falkonry makes those interactions richer by allowing you to walk only to those places that require attention (rather than cycling through areas on a scheduled basis). Falkonry also makes it easy to replay time and what AI finds over time. The virtual Gemba then is an interaction just like a physical Gemba walk with interaction mechanisms such as 3D walkaround, flow simulation, time replay, data views, and documentation access.

This is our vision of the industrial omniverse - it is an abstraction of the real world that is in many ways more enhanced than paper, hand held tools, and steel toed boots. Providing virtual accessibility to a primarily physical work environment also serves to both attract new and retain existing talent as well as accelerate real world training.

Together with our technology partners in industrial contextualization, photorealistic displays, and IT infrastructure, we are making Virtual Gemba a reality for defense and industrial organizations. [Let us know](#) if you want to know how it might work for you.

ORIGINAL CONTENT

Challenges in data-driven Oil & Gas production

We asked leaders in Oil & Gas to list challenges they face in implementing data-driven monitoring in their operations. Falkonry's automated anomaly detection approach is a way toward overcoming those persistent roadblocks.

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ORIGINAL CONTENT

Get to know Falkonry Insight

Find out how our recently launched plant-scale anomaly detection application, Falkonry Insight, provides a cost-effective and sustainable way to achieve smart manufacturing benefits.

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Innovation Leader

Oracle customers gain Time Series AI capabilities. OCI enables running AI services in factories that have limited internet connectivity and high security requirements. With the partnership between Oracle and Falkonry, you can find anomalies in all your signals as they happen and alert on it so you can get ahead of the game by anticipating consequences and understanding causes.

[\[Read more\]](#)

Briefs

What to watch in AI. Copilot for everything and skilled worker shortage are two issues that will dominate work on AI. Here's an article that explains these and other important trends that everyone interested in the new industrial economy should know about.

[\[The Generalist\]](#)

Attracting and training digital natives. By 2030, the last Gen Xers and Baby Boomers will leave the shop floor. Replacing them with digital natives will require new training approaches to bridge the knowledge and skill gap. Find out what those approaches could be in this forward-looking article.

[\[LNS Research\]](#)

How the US Navy is mastering AI: US Navy's Office of Naval Research is seeing Artificial Intelligence as essential in enhancing and accelerating modern military forces. Currently, the US Navy is actively developing over 1000-AI related activities spanning every sector of the service. Brett Vaughan, Chief AI Officer for the US Navy says, "The approach of the US Navy towards AI is chiefly one of the intelligent autonomous systems and decision aids augmenting the humans, not replacing them, in most cases - it is very much a hybrid approach"

[\[AI Magazine - Dec 2022\]](#)

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