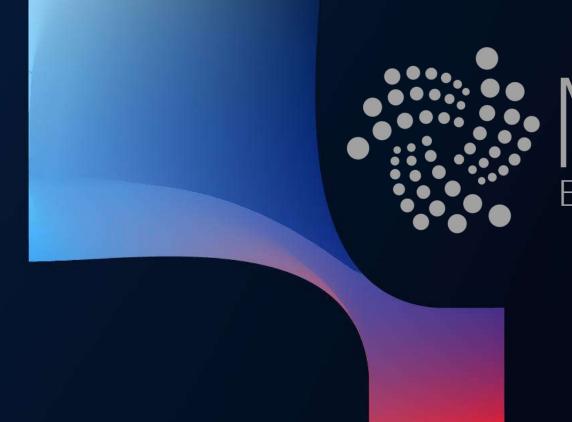
trinity

Engineered by











MYW.AI4ROBOTICSTM

ROBOTS AS A SERVICE @THE VERY EDGE

Fabrizio Cardinali CEO Knowhedge™ – MYW.AI™



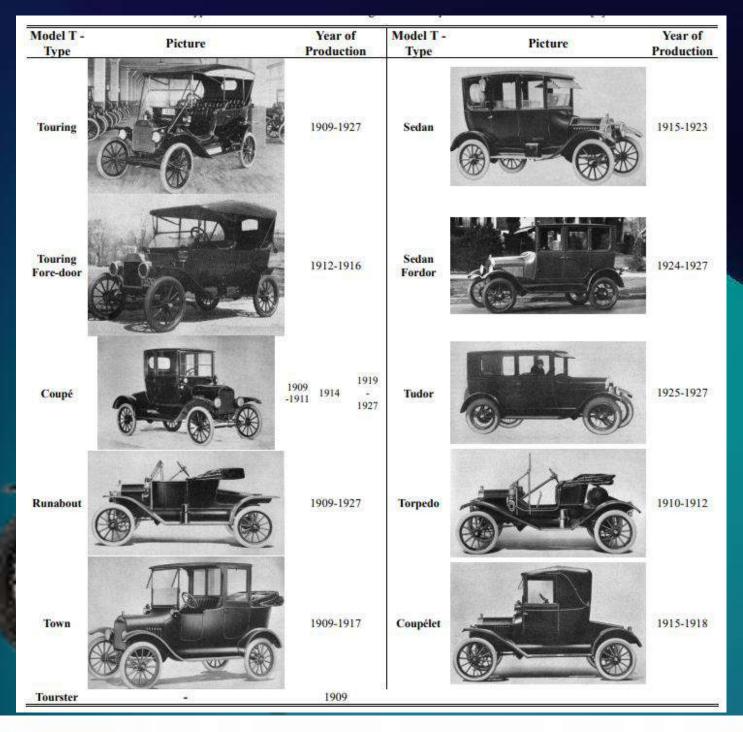
Funded by

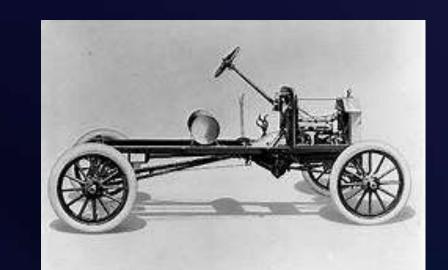


TRINITY is a project funded by the Horizon 2020 Programme under grant agreement Nº 825196 TRINITY H2020-DT-2018-2020/H2020-DT-2018-1

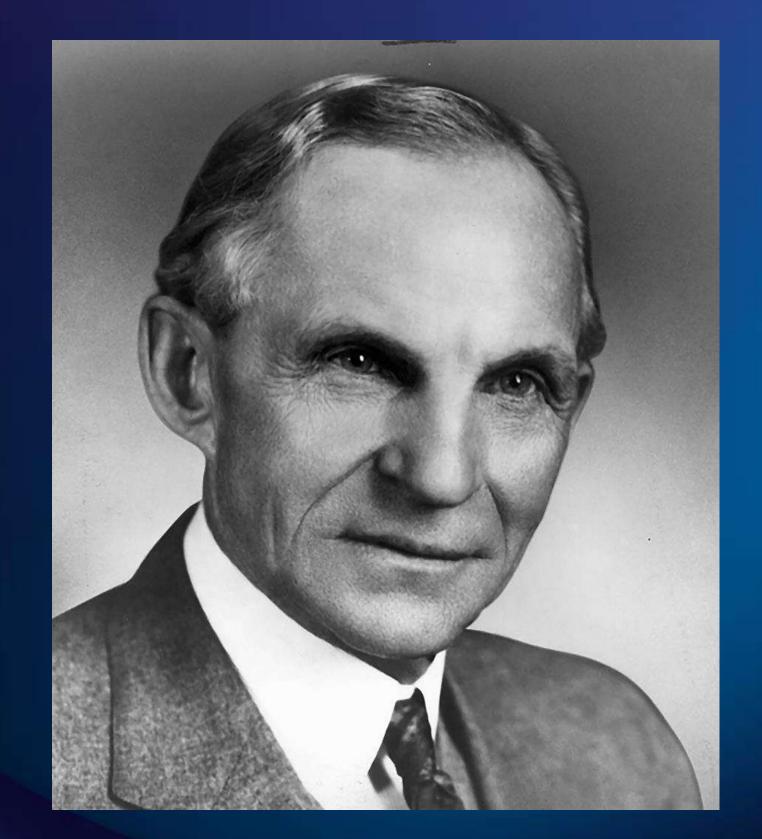
The Fordian Nemesis 1/3

Products as a Service Platform











"A business absolutely devoted to service will have only one worry about profits, they will be embarrassingly large!" Henry Ford



The Fordian Nemesis 2/3

Towards a New Product Servitization Economy

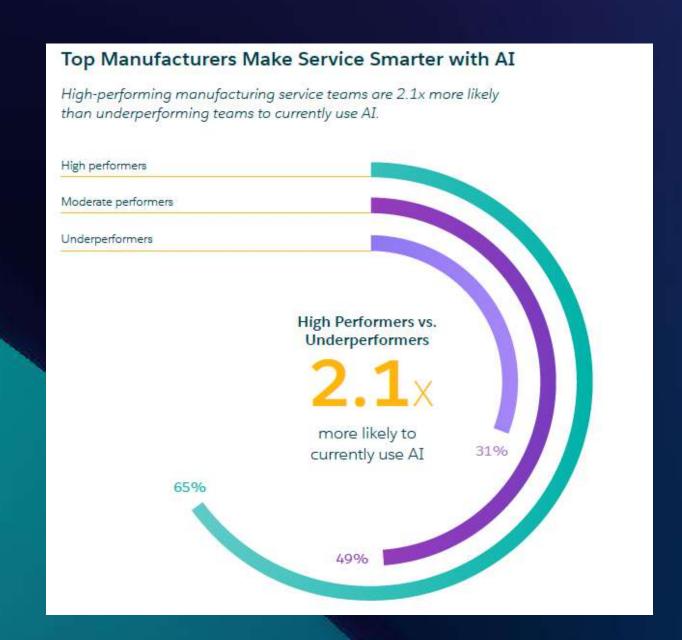


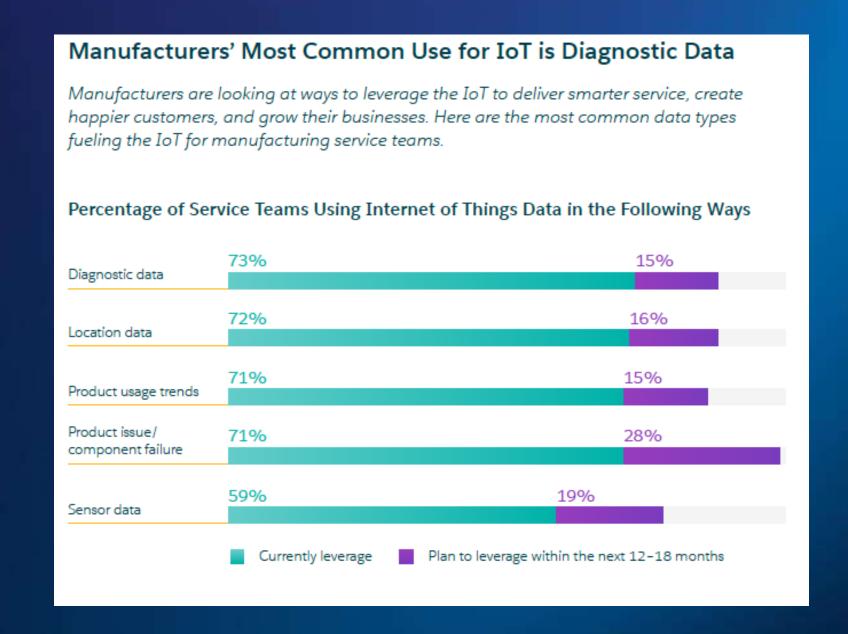


The Fordian Nemesis 3/3

Where innovative service models are going to be KING!





















^{*} SOURCE https://www.salesforce.com/uk/blog/2017/04/servitization-the-changing-face-of-manufacturing-and-service.html

The Pandemic Game Changer

Pandemics has accelerated "servitization" starting from MedTech equipment to ensure:

- Critical Uptime: connected MedTech products may save lifes
- Social Distancing: connected Medtech products may extend professional reach without physical presence
- Privacy & Security by design: connected MedTech products may increase Cybersecurity and protect Self Sovreign Identity and comply to GDPR... fully...

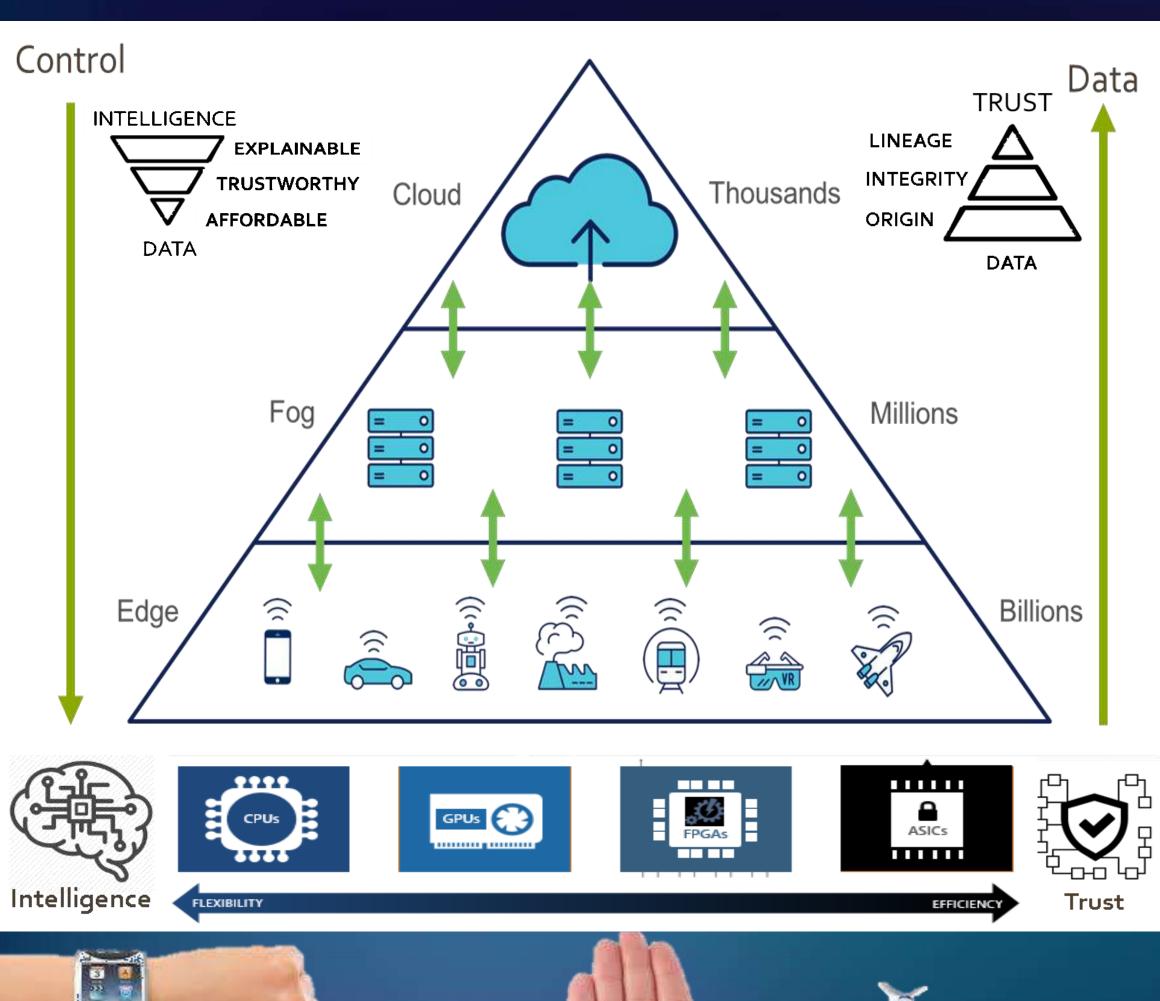


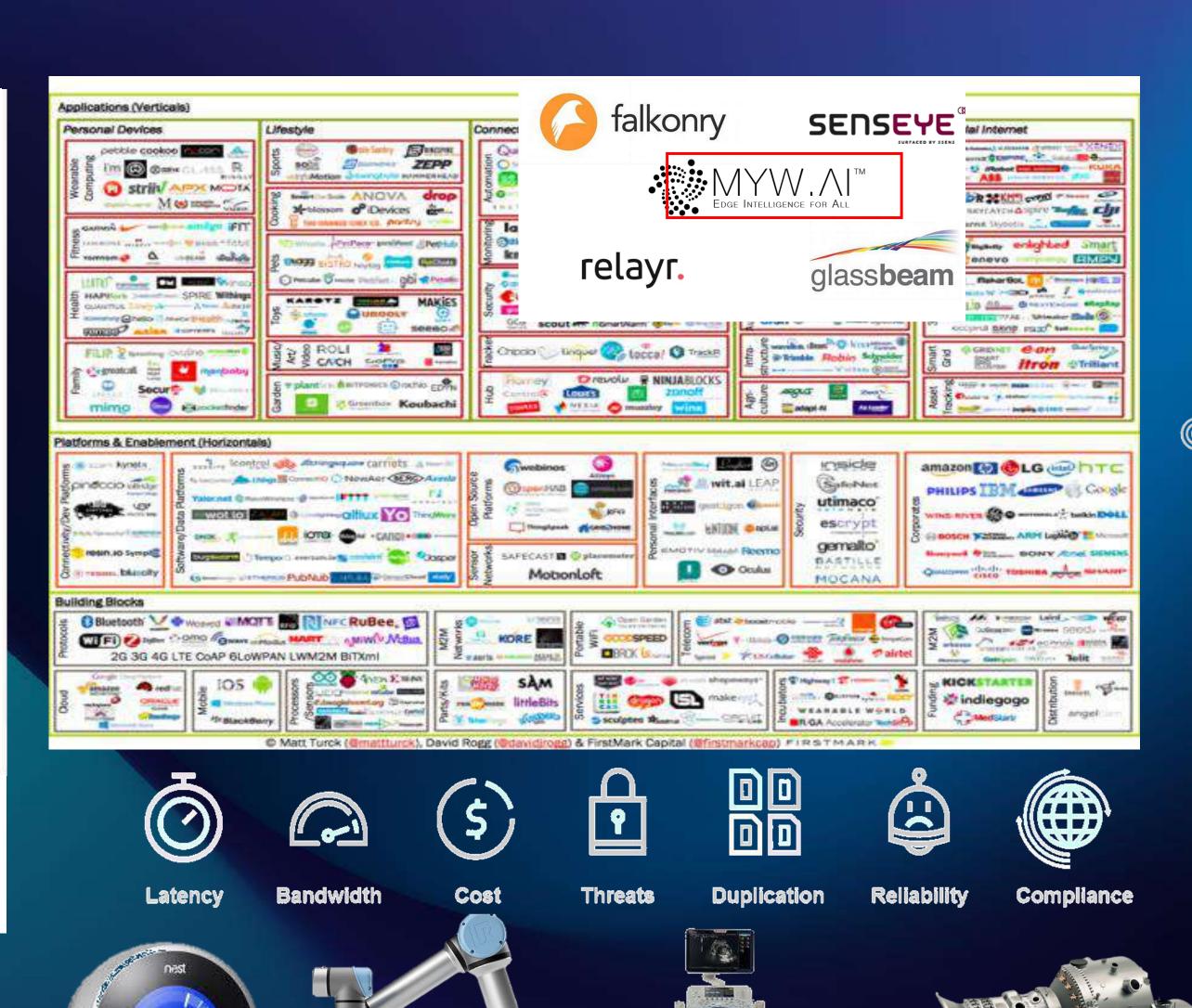






The Staterine off ((Ewerry)) Thimg





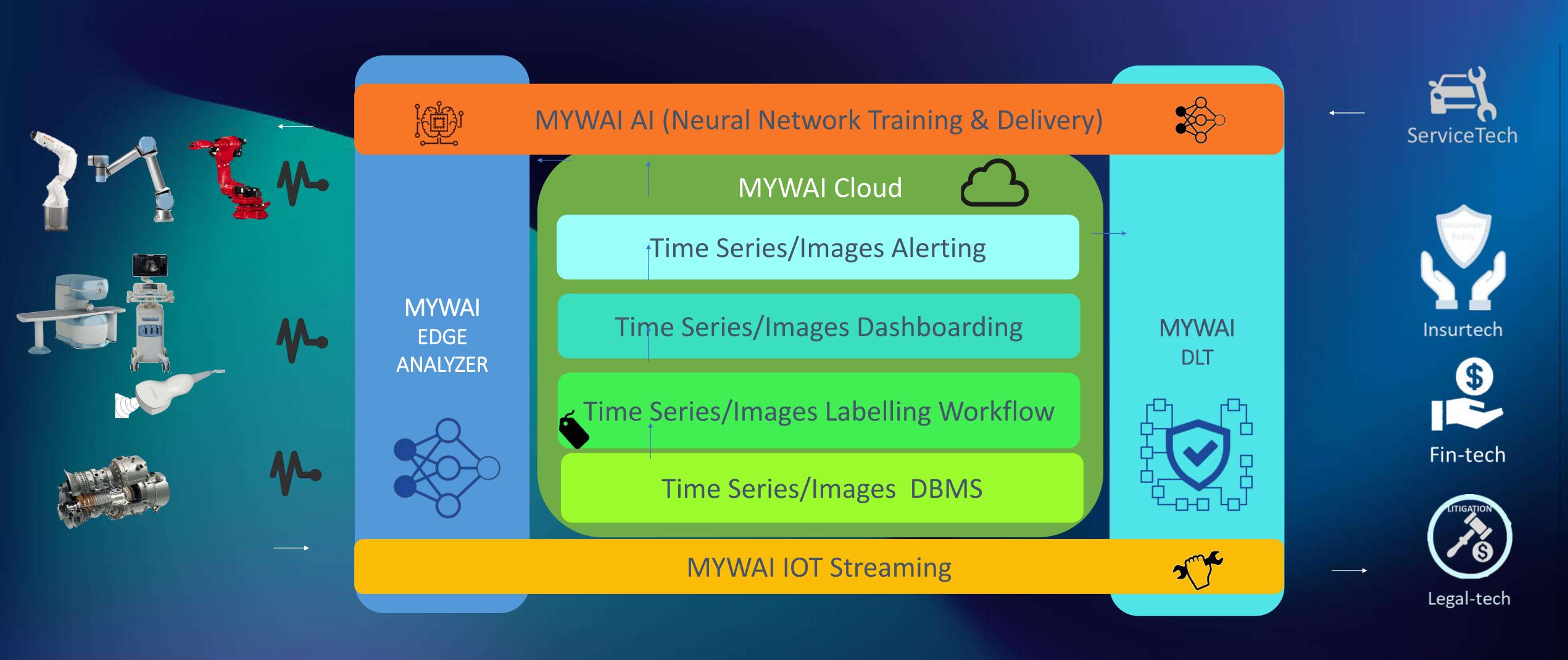






The MYW.AI EaaS Platform





The MYW.AI EaaS Workflow

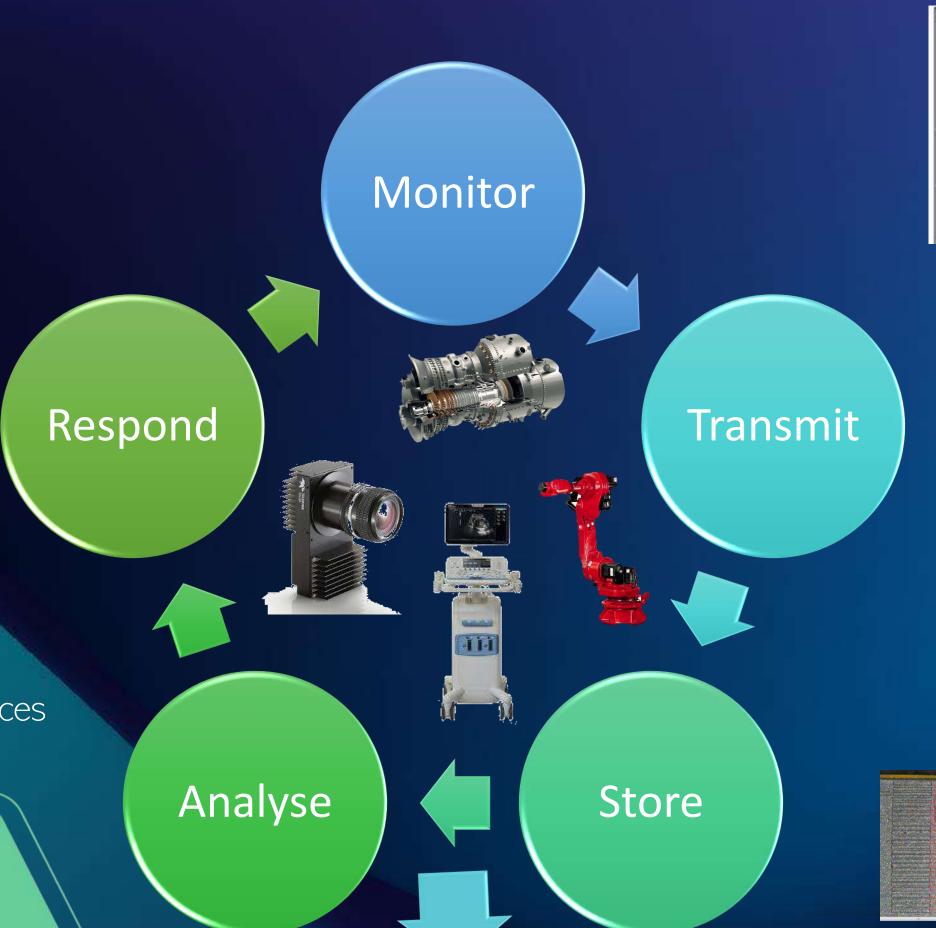


Pre-Flash Flash 25ms 30ms 45ms 55ms 75ms 150ms
AGILE MANUFACTURING

The MYWAI[™] Prognostic Maintenance Service Solution will enable to:

- Monitor usage by connecting machines to the MYWAI cloud
- Transmit Time Series & Images Streams & Records
- Store Time Series and Images files to the cloud
- Analyse Time Series & Images using AI on edge, fog and/or cloud





Certify

The MYW.Al Edge

The Myw.ai platform delivers prognostic maintenance at the very edge using:



Containerized Software Neurons running either on cloud or local CPU, GPU, MCU chips ideal for "digital native" IOT equipment



Low cost Neural HW Expansion (USB/Arduino/Raspberry) adding HW based Artificial Neural Networks acceleration on digital equipment with limited resources



Industry 4 grade M2 PCI-e MYWAI™ NeuroBoards (PCI Express bus on M2 ff). Expanding 3rd party IoT, Edge PCs & Servers using industry standard parallel neural computing boards

Complemented by Very Edge Intelligent Sensors













Up to 16 NM 500 Neurons = 9000 Neurons



Up to Quadcore Xylink FPGA











The MYW.Al Edge Artificial Neural Networks





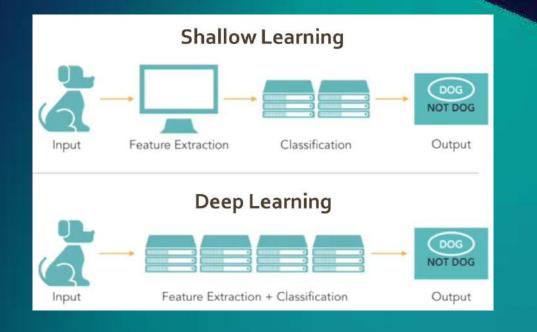




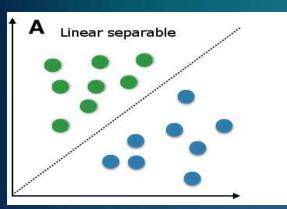
MYWAI AI (Neural Network Training & Delivery)

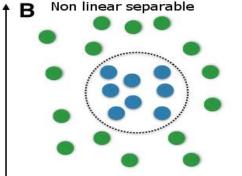


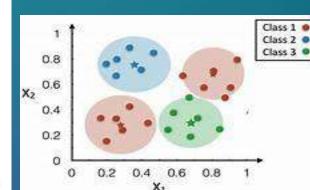
EDGE INTELLIGENCE

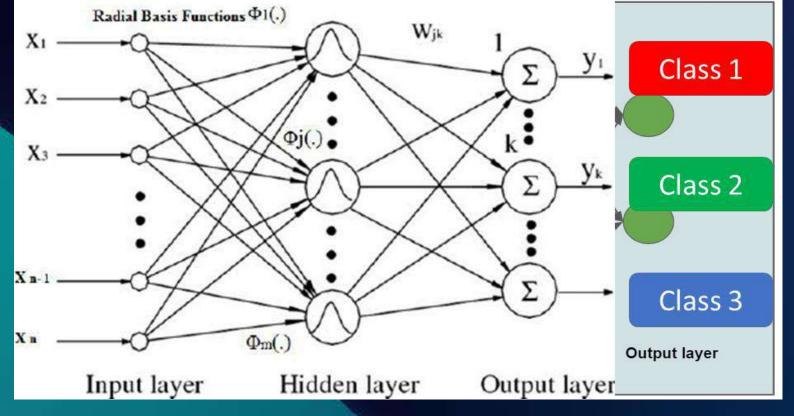


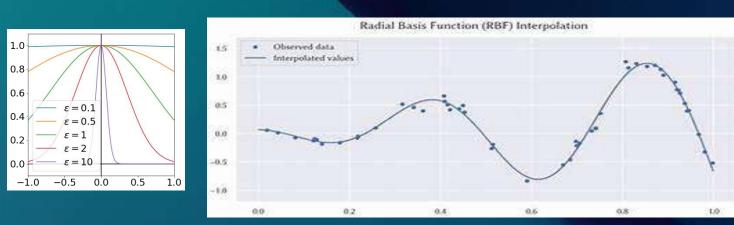
Shallow Learning Radial Based Function (RBF) **CLASSIFICATION**











Trainable

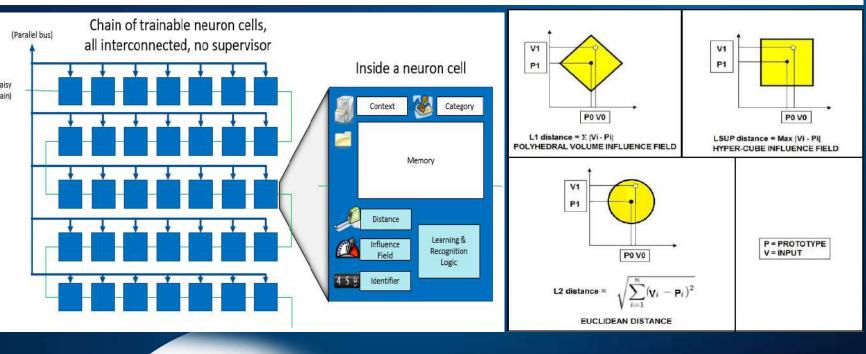
Dynamic learning on the chip. Real-time addition of new categories. Built-in excitation/inhibition.

Parallel

Recognize patterns in micro-seconds regardless of the number of models stored in the neurons.

Energy Efficient

>100K recognitions per second at 27Mhz. Less than 300 milliWatts per 1000 neurons.

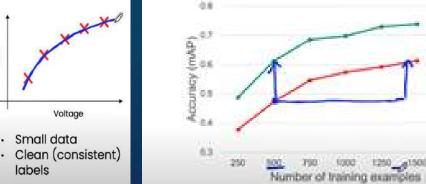


Big vs Smart Data

Big data

Noisy labels

Noisy labels





Noisy vs Big Data





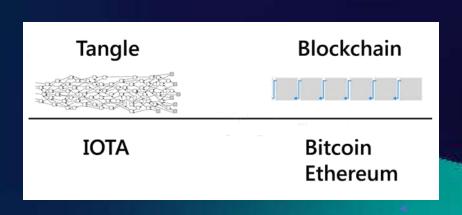


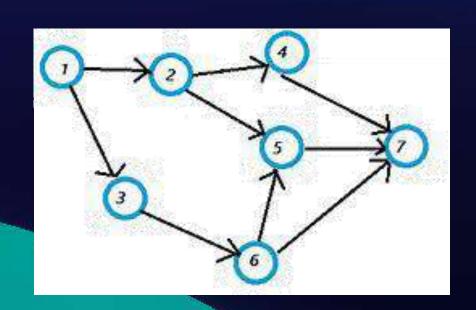


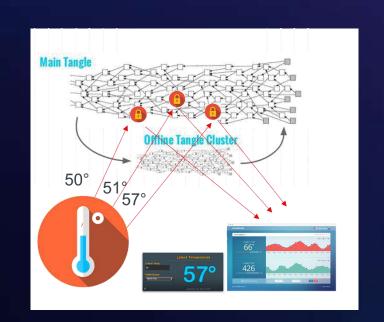
The MYW.AI Certification DLT

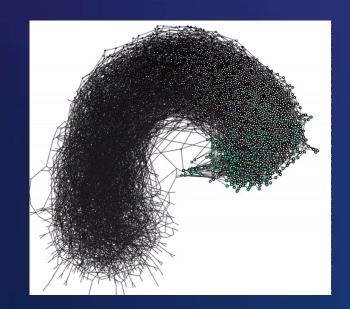














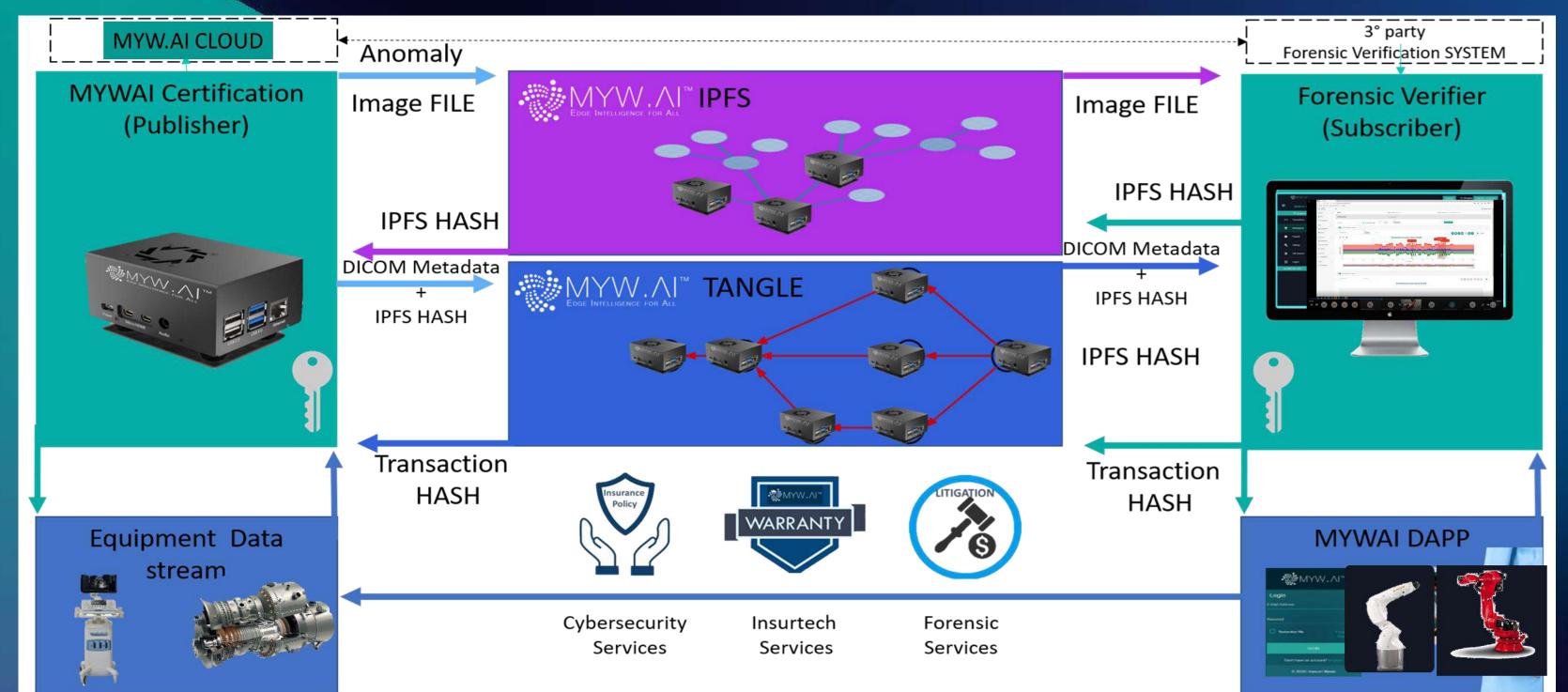


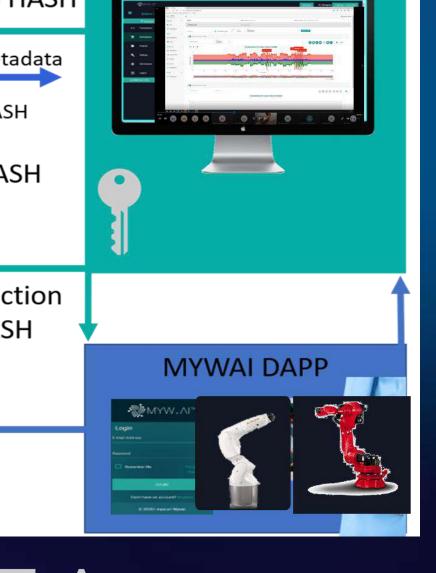
MYWAI DLT

















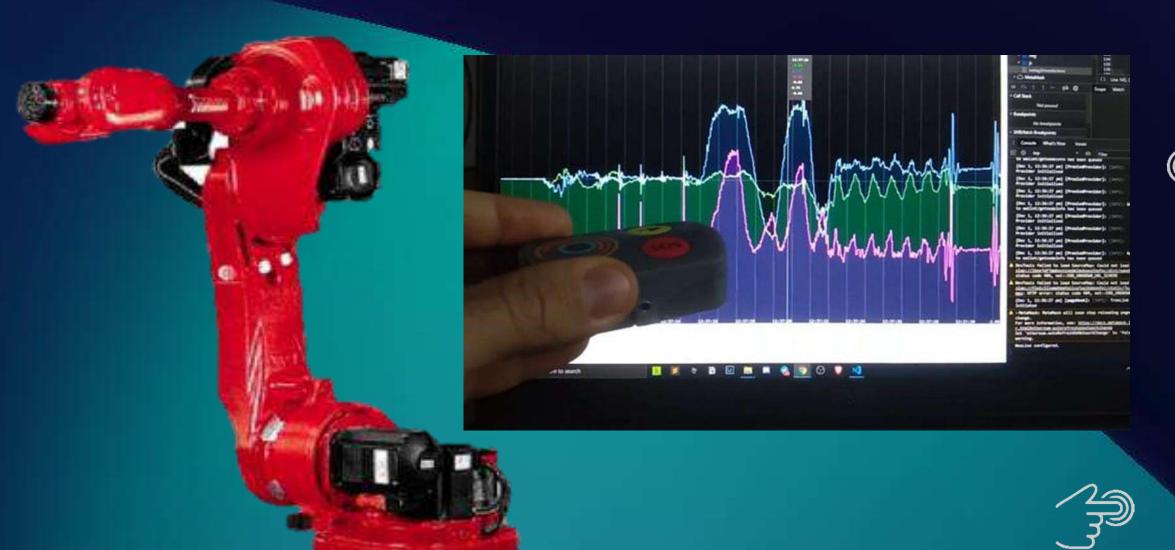




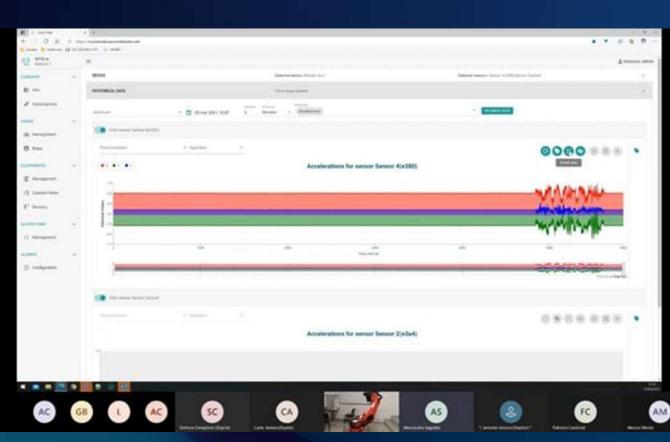




MYW.AI 4 ROBOTICS



















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@TRINITY Robotics DIHs





trainity

Thank you!

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