RFiD JOURNAL

DIGITAL SUMMIT

MAY 10 - 13, 2021
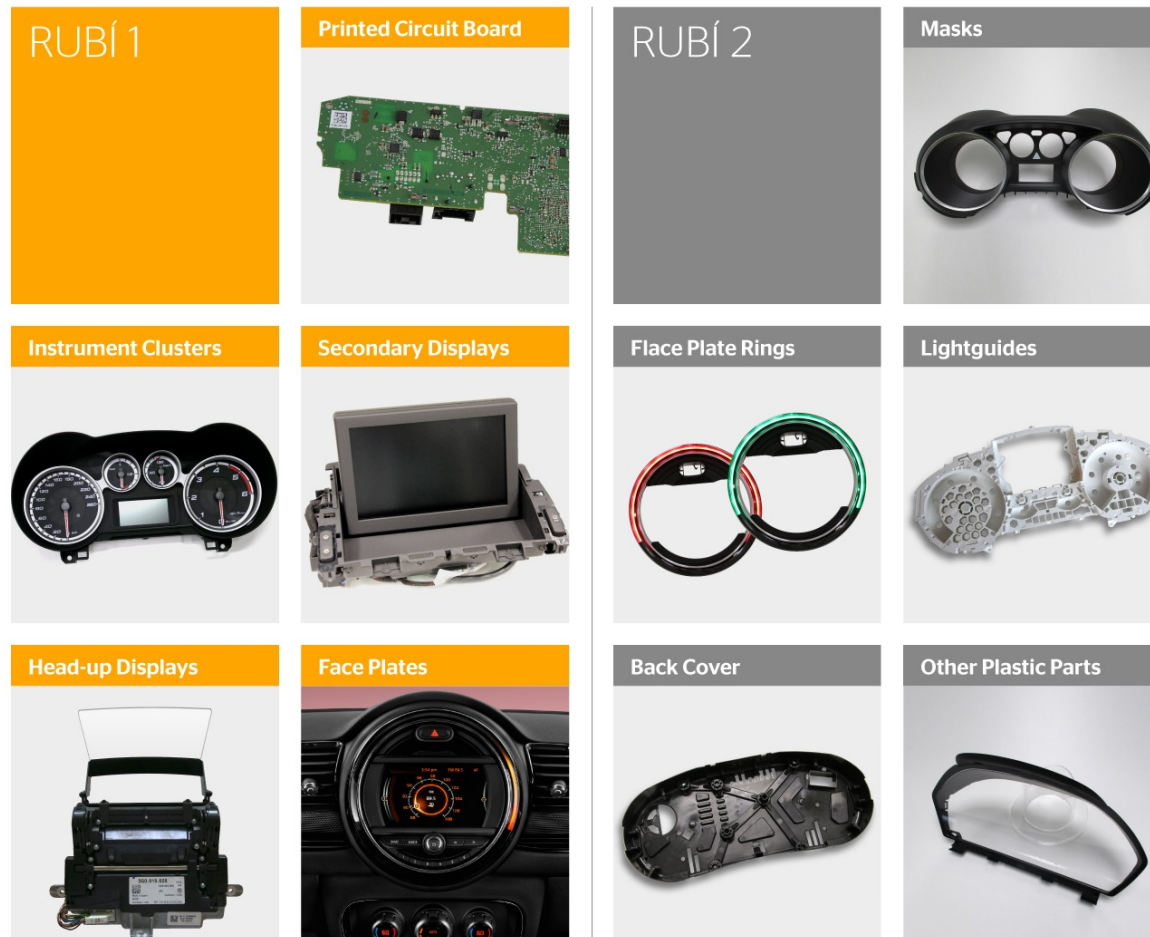
Manufacturing Plant Boosts Efficiency with IoT and UWB

Víctor Canton Ferrer

Industry 4.0 Project Manager at Continental, Rubi plant

Continental Group Structure

Continental Group	**Continental**			
Group Sectors	**Automotive** Technologies	**Rubber** Technologies		**Powertrain** Technologies
Business Areas	Autonomous Mobility and Safety (AMS) / Vehicle Networking and Information (VNI)	Tires	ContiTech	Vitesco Technologies

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Continental – Rubí Plant

RUBÍ 1 | Printed Circuit Board | RUBÍ 2 | Masks

Instrument Clusters | Secondary Displays | Flace Plate Rings | Lightguides

Head-up Displays | Face Plates | Back Cover | Other Plastic Parts

Innovation approach
Which are our pains doing projects

- Usually a new projects is done with new partners. This leads to repeat efforts to interface segregated systems again and again

- Once solution is finished, customer needs have changed (or will change) and the project needs a new development in order to adapt to the new scenario
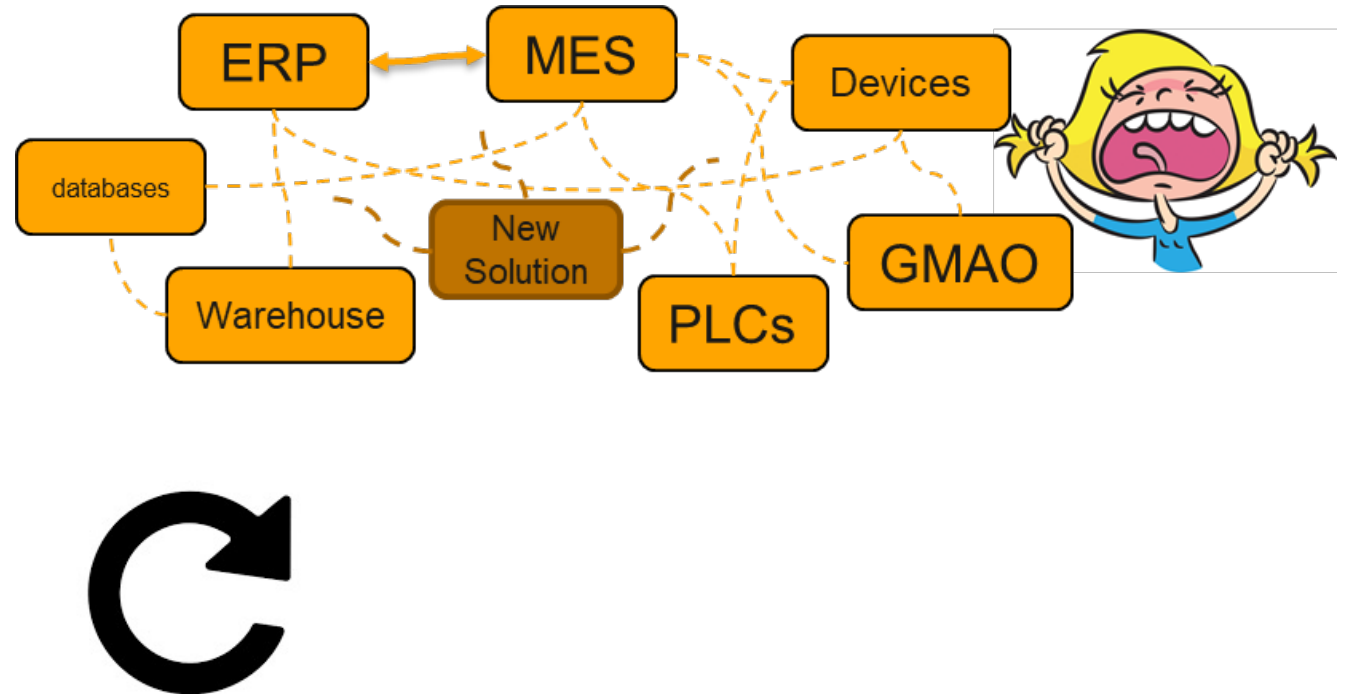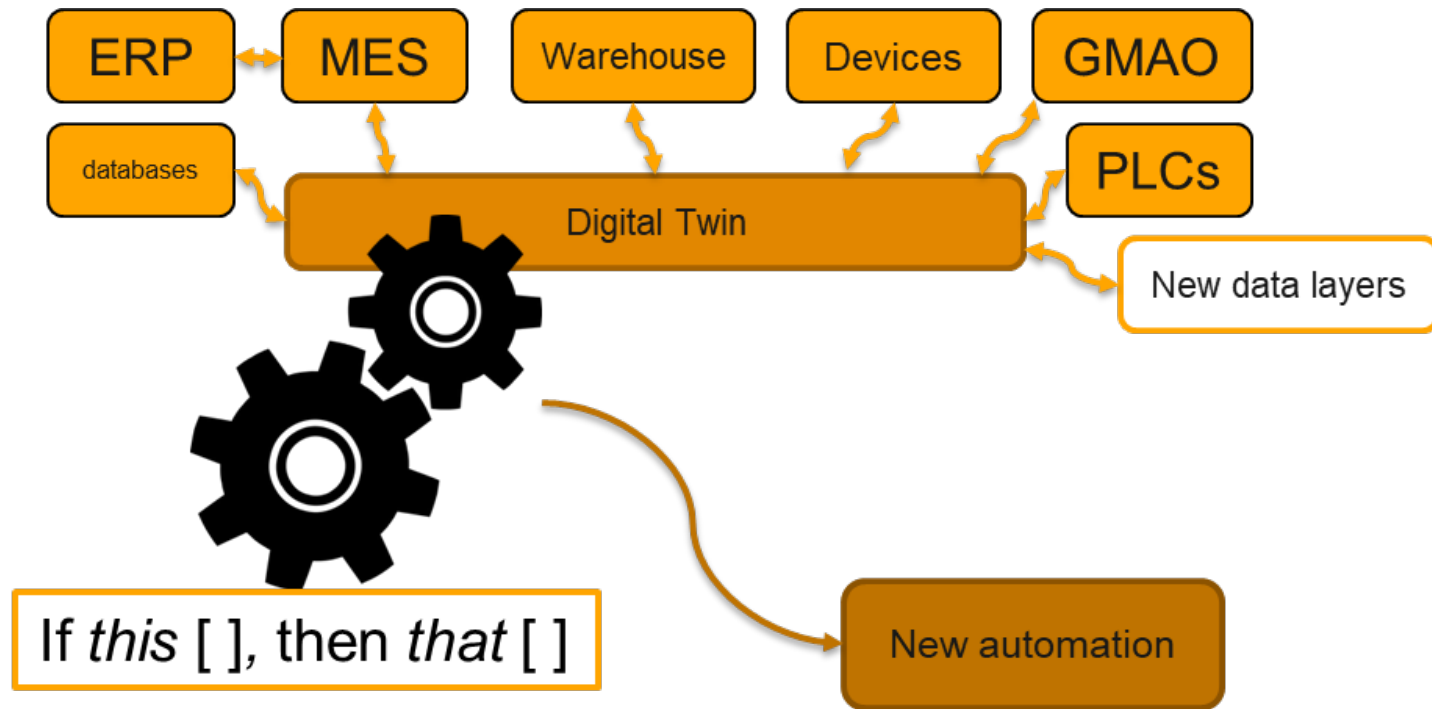
Digital Twin
Focused on solving our pains once and for all

- Defined as an open platform to gather all possible data layers from our business

- Including a user-friendly Rules Engine that will enable our process owners to deploy their own automations

If *this* [ ], then *that* [ ]

Digital twin and Industrial Internet of Things (IIoT) platform
4ACTION

Solution for the integration of IT-OT-EMPLOYED data, real time event detection based on these data and configurable rules, and finally launching defined actions for them

› CONNECTS all assets and integrates all IT, OT and employee data into one platform

› DEFINES the key events in the process that require an automatic response from the system

› Easily CONFIGURES the system responses to these events in the 4ACTION rule engine

› ANALYZES both historical and real-time data to make the correct decision

› MANAGES, establishing priorities that optimize the work by the teams and the efficiency of the resources

Powered by zerintia technologies

Digital Twin
Ok, sounds nice… some examples, please

- Task request button
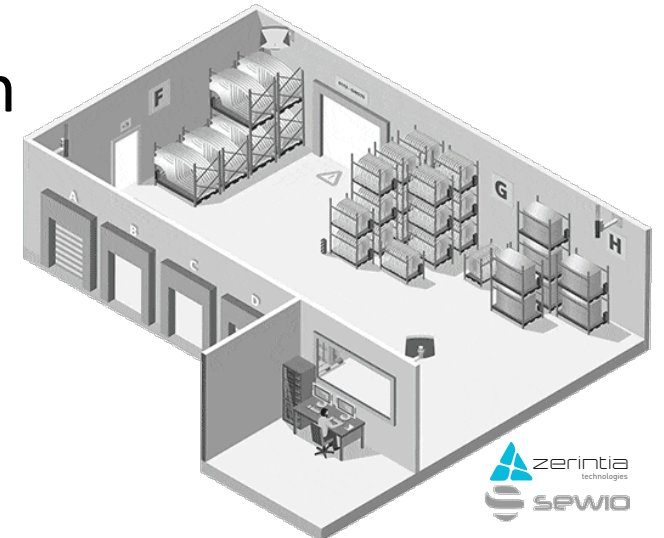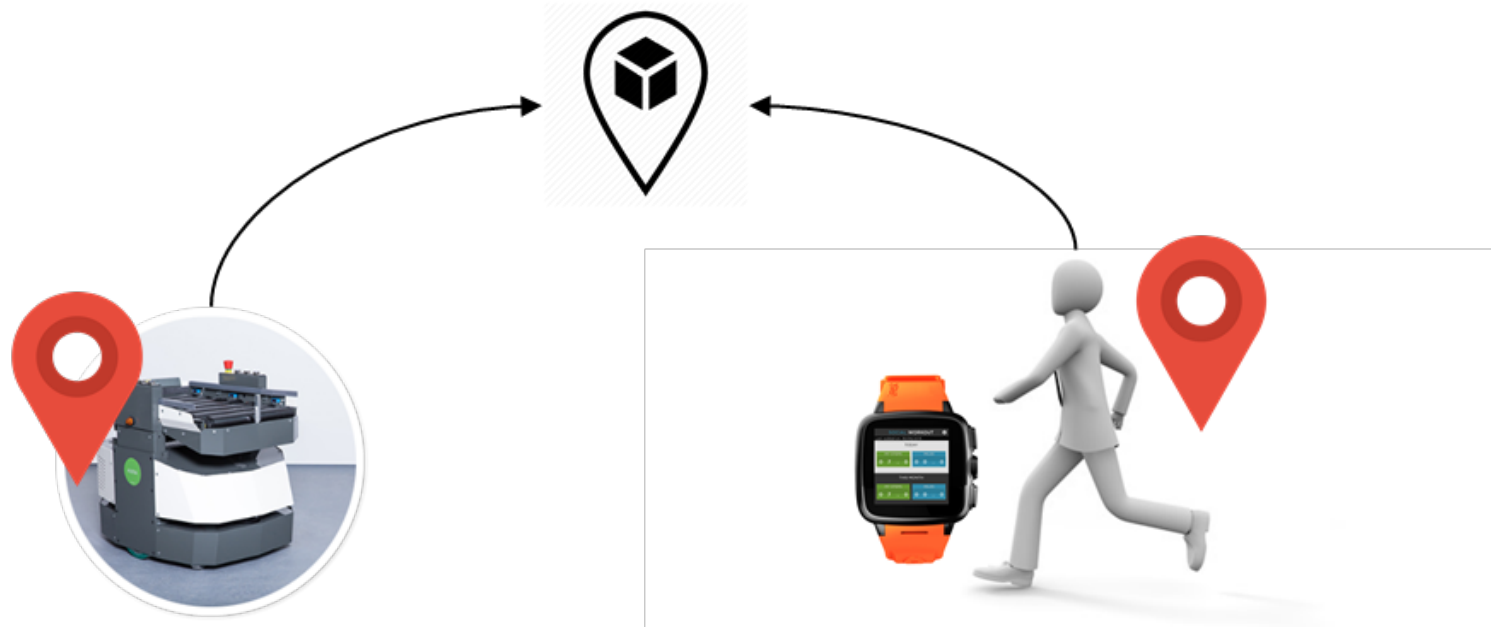 - Wearables and AWS IoT Button data layers added
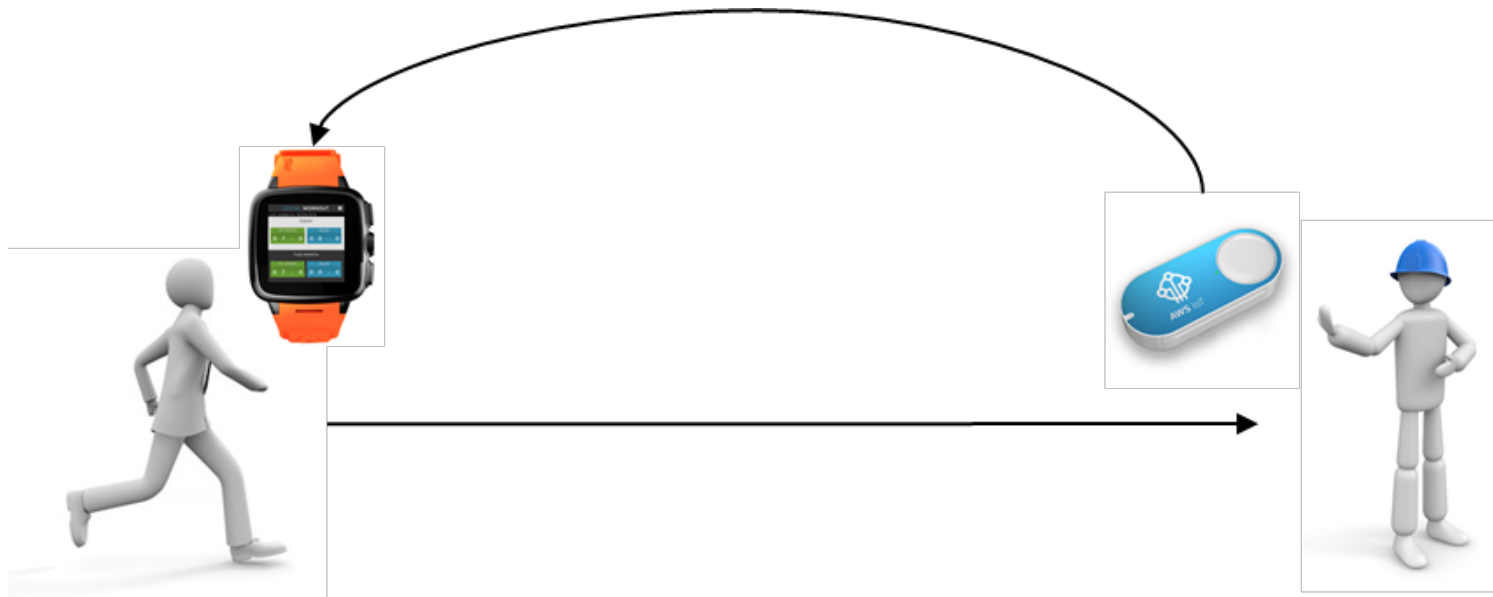
- › Fast deployment, not meant for long term use (battery)

- › Lots of operator minutes saved

Digital Twin
That was easy, something cooler?

- Logistic operator and Logistic shuttles syncronization
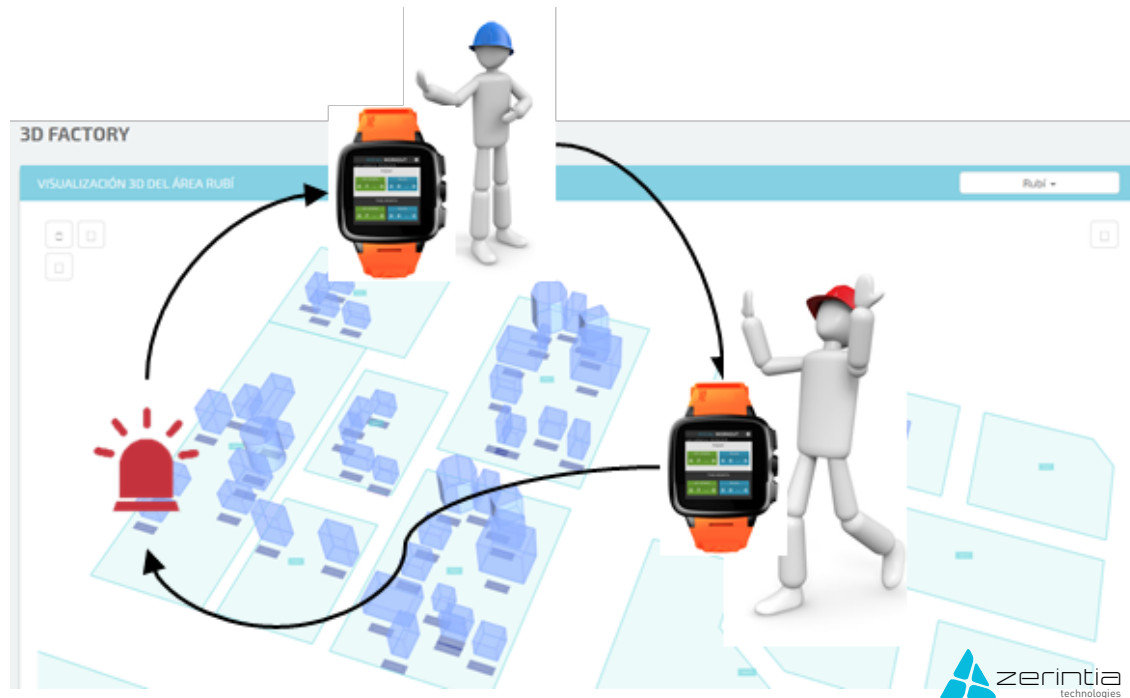 - UWB Geolocation and ERP data layers added

> Lots of operator and machine minutes saved

> Lack of material stops dramatically reduced

Digital Twin
Wow, something else?

- Maintenance Incident Management

> Management based on production priorities, incident severity and techinician expertise

> Terrific KPIs to improve maintenance,

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Main challenge?

- Not technology, once you find the right support
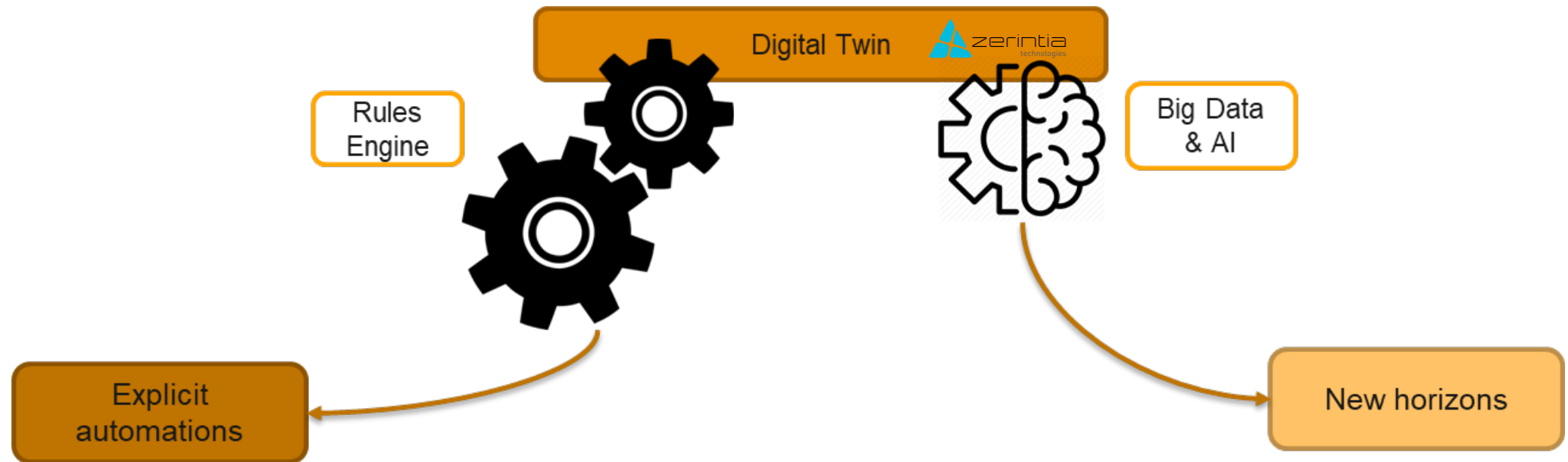
- People's acceptance

How to deal with it?

- The tools needed to deal with it are quite old
    - Communication, feedback, empathy, trust, acknowledgement, transparency…

- Include all actors from the beggining and empower them to build their own automations with the system

Digital Twin
What comes next?

- With lots of data on the same place, makes sense to use it

Takeaway #1
Avoid FOMO

Takeaway #2
Start with simple concepts

Takeaway #3
Take people into account from the beggining

THANK YOU