

# BPT Industries Campus IN A NUTSHELL

Founded: 2014

<u>Location</u>: Eindhoven, The Netherlands <u>Technology</u>: Asset Administration

Shell

**Industry**: Manufacturing

Website:

https://www.brainportindustriescampu

s.com/en/





### **ABOUT BPT INDUSTRIES CAMPUS**

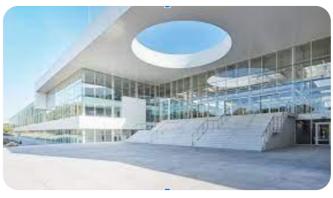
BPT Industries Campus (NL) by BPT Industries and TNO: The biggest (60.000 m2) and fully privately funded low volume manufacturing facility in the Netherlands. It has a joint investment of 24 euro's and more than 90 partner million companies. Brainport Industries Campus is a unique location in the Brainport region, where various companies in the high-tech manufacturing industry, education and knowledge institutions are located.

## **BPT INDUSTRIES CAMPUS PILOT LINE**

Digital Factory is a three-dimensional model in which all business assets are connected to each other and within the supply-chain. We then record all assets, equipment and processes in a so-called Asset Administration Shell (AAS), organised into standardised submodels drawn from, among others, the CIM. This allows you to digitally steer and manage processes even better. Ultimately, such an AAS can develop into a Digital Twin, to create simulations and predictions, to further optimize your production process.



The Factory Explorer makes the AASs hosted in, e.g., the DIMOFAC Platform easily to inspect for varied purposes, such as browsable, viewing, and analyzing. The graphical interface part of the Factory Explorer goes beyond the functionality offered by other AAS tools, so we expect the Factory Explorer to be necessary across use cases. The tool also facilitates custom dashboards for custom views on the AAS data and custom selection procedures based on, e.g., implemented CIM submodels.



#### SERVICES OFFERED



#### **Consultancy:**

- Viability Check with applicant for implementation of Factory Explorer
- · Asset Administration Shell
  - Asset modelling based on I4.0 standards and/or use-cases
    - Curated Submodels provided by CIM and IDTA
    - Verification & validated of AAS models
  - AAS connector-based integration with ERP, PLM, machines, etc.
- DIMOFAC AAS Platform design & implementation

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### **Process Development**

- Factory Explorer
  - Deployment & operation of the Factory Explorer tooling
  - Backend integration with DIMOFAC Platform
  - Development of AAS-integration connectors
  - Manufacturing operations Management (MoM) based process integration

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#### **Training**

- · Asset Administration Shell
  - Asset Administration Shell core principles & operation (incl. APIs)
  - Guidelines for CIM- and standards-based modelling & semantics
  - AAS connector-based integration

#### **BENEFITS**

The Factory Explorer allows you to explore Admin Shell (AAS) enabled Assets in real-time and create purposeful custom dashboards. Browsing, viewing and analyzing Admin Shells can be a hassle, but we aim to make it effortless.



#### **VALUE PER SERVICE**

- Consultancy (10k EUR)
- Process Development (80k EUR)
- Training TBD

