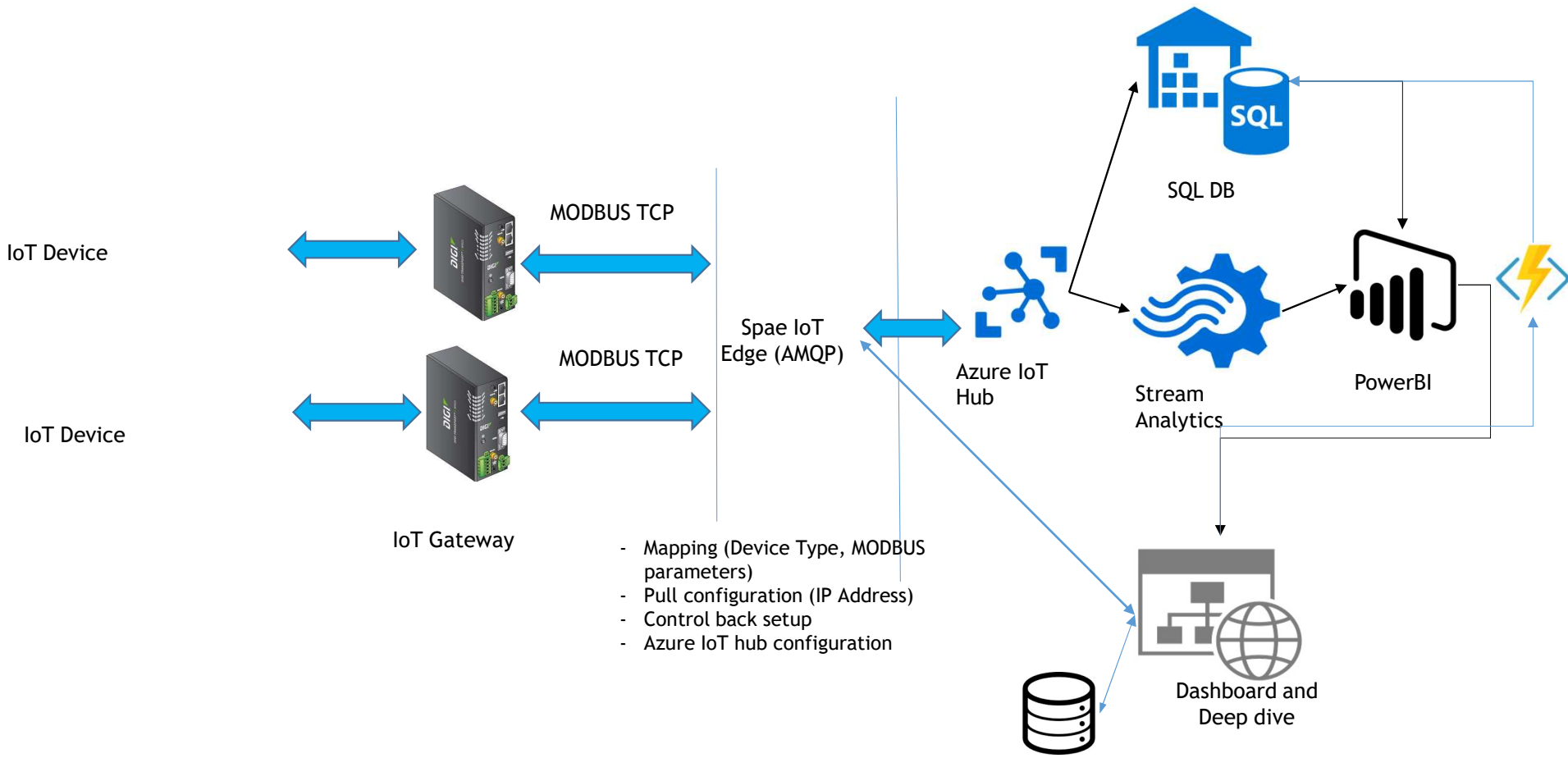# About Us

- **IOP Technologies** is engaged in IoT, Cloud Technology, AI, NLP and Machine Learning Development Services

- We build solutions on Microsoft Azure Cloud

- Our IIoT services suitable for:

  - Production monitoring

  - OEE, TEEP monitoring

  - Sensor data monitoring and event handling

  - Connected Factory, Remote factory/ Remote machine control

  - Location, Shopfloor, Production line, Machine IoT drill down views

  - BI Dashboard development

  - Management by alerts

  - Automated control

  - Integration with SCADA systems and Databases

Solution Architecture Overview

IoT Device

IoT Device

MODBUS TCP

MODBUS TCP

IoT Gateway

Spae IoT Edge (AMQP)

Azure IoT Hub

SQL DB
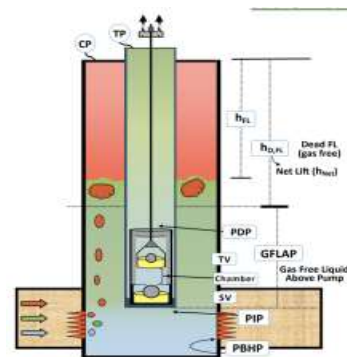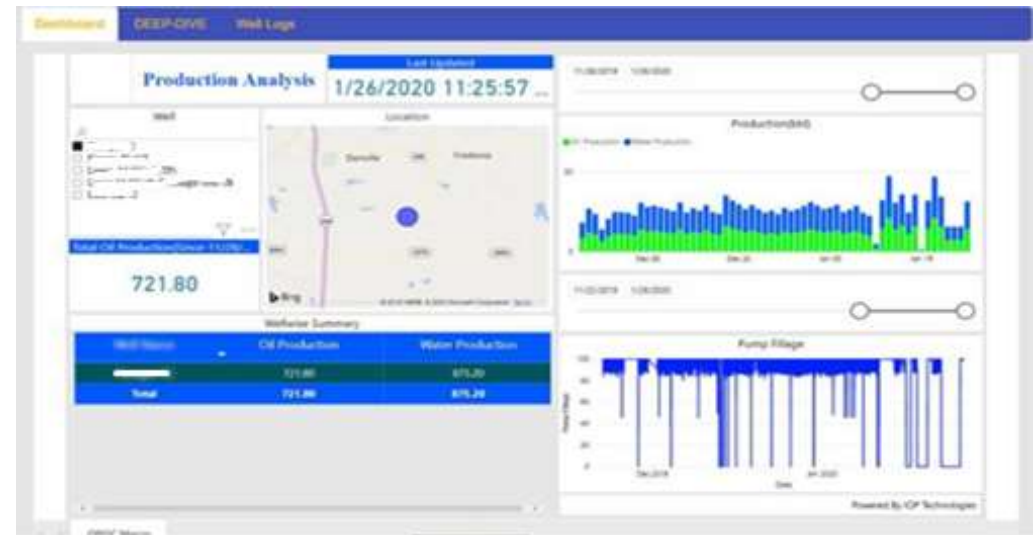
Stream Analytics

PowerBI

Dashboard and Deep dive

- Mapping (Device Type, MODBUS parameters)
- Pull configuration (IP Address)
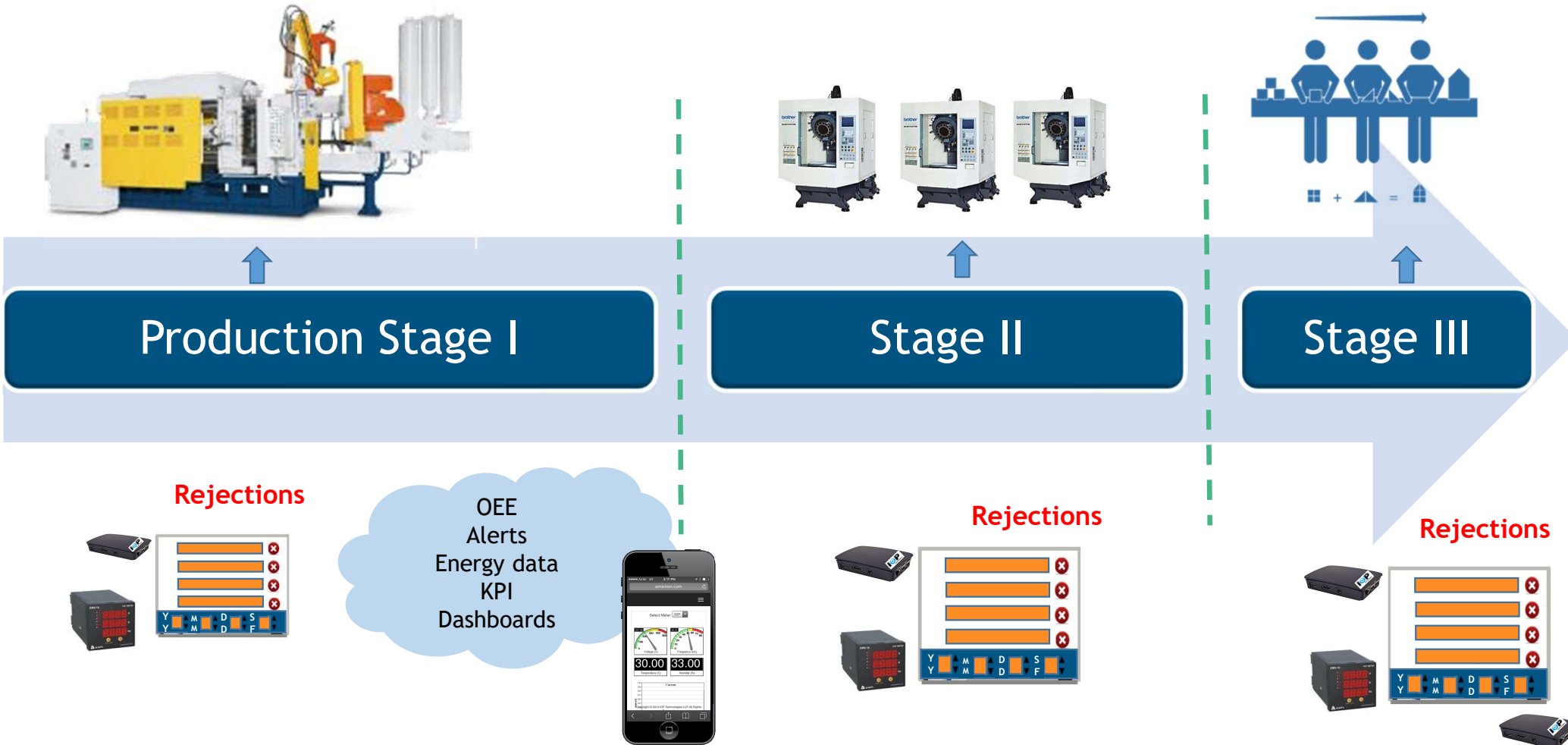- Control back setup
- Azure IoT hub configuration

Case Study: Oil & Gas IoT - Analytics & Optimization

❖ IoT taking advantage of the **Microsoft Azure Platform**

❖ Our turn-key **Remote Monitoring Solutions** allows E&P companies to greatly increase their production efficiency by equipping field managers and operators with **critical information anytime, anywhere**

❖ Real-time information about well status allows for better allocation of human resources, driving faster operation and field decisions

❖ Monitor the status and surface card of the well in real time from your web browser, tablet, or your mobile phone. Remote location monitoring.

❖ Data available includes well status, cycles completed, cycles missed, flow rate, tubing pressure, casing pressure, line pressure, and tank levels.

❖ Deep dive dashboard will provide information about Pump intake pressure, RPM, HPM, pump fillage, surface card , pump card readings.

❖ Pumpers can **control the operation remotely**. In addition, automated 24x7 **AI driven actions** take care of seamless operation even during night

Case Study – Automotive Supplier

IOP Technologies

Production Stage I

Stage II

Stage III

Rejections

OEE
Alerts
Energy data
KPI
Dashboards

Rejections

Rejections

Thank You

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