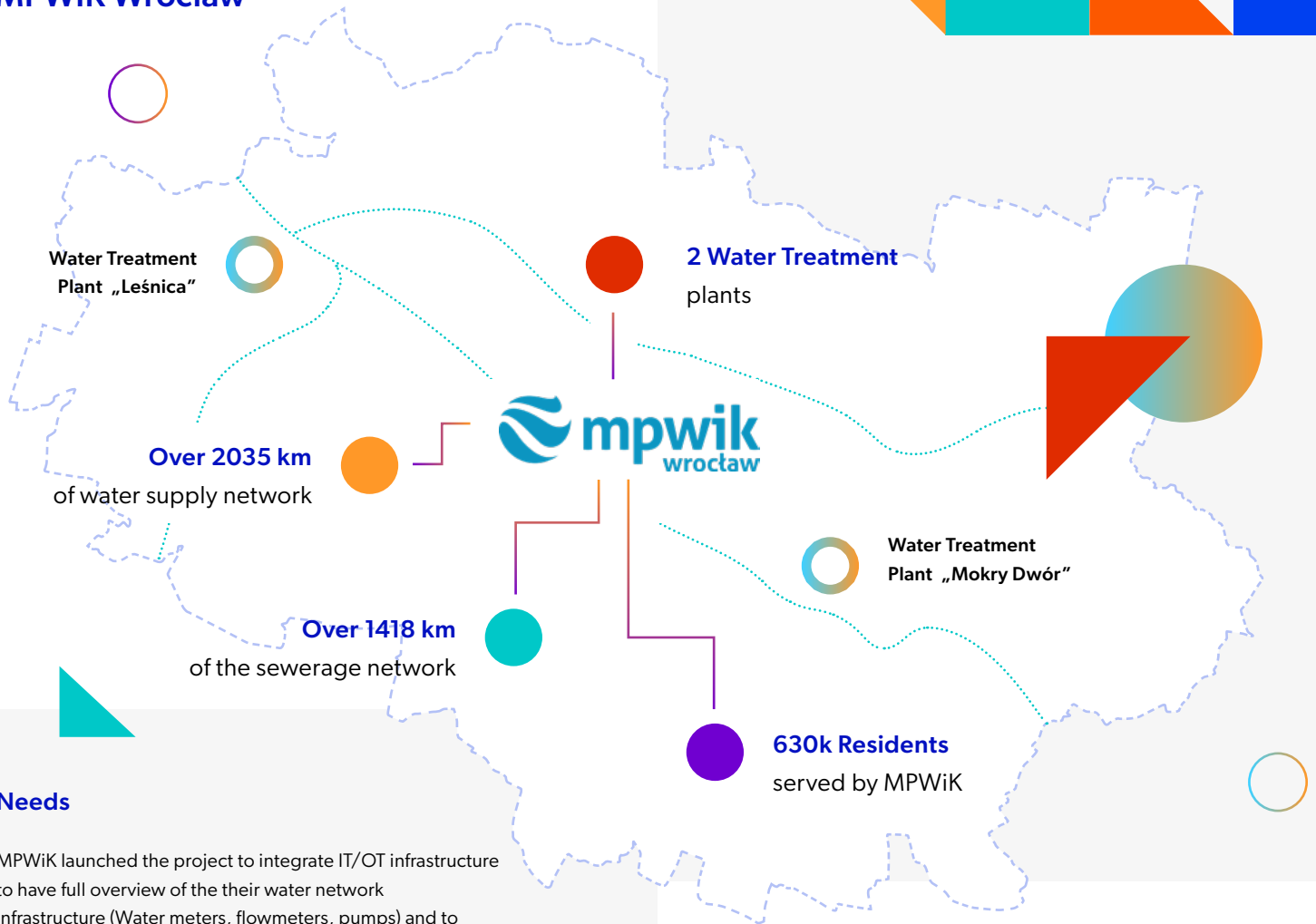


# ConnectPoint for MPWiK Wrocław

Central Measurement Data Repository  
Implementation for Municipal  
Water and Sewerage Company

Miejskie Przedsiębiorstwo Wodociągów i Kanalizacji S.A. (MPWiK) in Wrocław is one of the largest municipal water and sewage companies in Poland. It has been operating since 1871.

## MPWiK Wrocław



### Needs

MPWiK launched the project to integrate IT/OT infrastructure to have full overview of their water network infrastructure (Water meters, flowmeters, pumps) and to have full data visualization on central control room.

### The main purpose of the project was:

- » Single database for production data
- » Enabling the implementation of the intelligent water and sewage network project
- » Construction of a hierarchical structure of elements in the system
- » Analysis of production data in real-time
- » Use of data to improve forecasting
- » Ensure high-quality of production data
- » Enable more accurate and faster analysis



### Industry challenges



Climate change is causing increasingly frequent weather fluctuations: from droughts to floods. Water companies are forced to improve the efficiency of water resource management and to prepare for emergencies. A major challenge for these companies is their infrastructure, which has been developed since the 19th century.

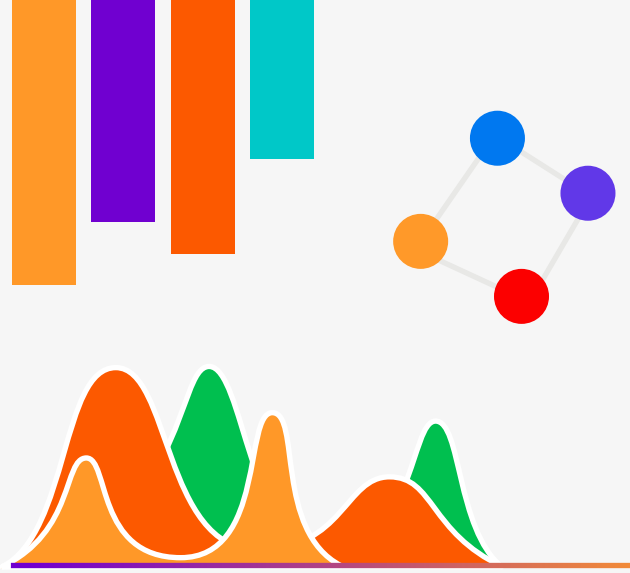


## ConnectPoint project approach

ConnectPoint as the experienced IT/OT System Integrator within Utility industry has been selected for this project by MPWiK.

In order to achieve the required functionalities of MPWiK, there was necessity to build Central Data Repository where all data from OT/IT systems are processed in real-time mode.

CDR was build based on the system OSIsoft PI that is the the leading software technology for collection, analysis, visualization of large amounts of time-series data from multiple sources and systems across all operations.



## Functionalities delivered by ConnectPoint



Data from water production: visualization of water production data is made in the Tableau System. As part of the CDR implementation, existing reports are reconstructed based on CDR through Data Warehousing. CDR shares aggregated data sets to the Data Warehouse or directly to the Tableau tool.

Data from noise loggers are real time visualized on a dedicated dashboard using the OSIsoft PI's (Processbook, Coresight) visualization tools.

In addition to the indications for the individual measuring devices, dynamic objects are designed to indicate the deviations of the set ranges of allowable values.



### Fixed assets model

Hierarchical structure of elements in Asset Framework technology reflecting the network.



### Notification system

Allows to configure the mail notification that is called when a previously configured condition is met.



### Analytical module

Provides the right tools for configuring formulas, enumeration fields or events based on asset framework data. PI Analysis will create an analytical model based on the principles provided by the Ordering Party (e.g division of measurements).



### Meteorological data

A set of views showing data from weather stations and piezometers and gauges.



## About ConnectPoint

ConnectPoint is an IT company that supports the process of digitalisation in industry, energy sector and public utility segment. It specialises in IT/OT and IoT integration and combine industry knowledge with expertise in the field of OT, Big Data, GIS, Business Intelligence and Machine Learning. It builds systems that allow for effective cooperation between Operations, IT and Business.