



IoT Insights

Platform Solution for IoT Deployments
based on Microsoft Azure Technology

HEROES

Up to speed with IoT Insights

A Platform Solution by Heroes

Although IoT uses cases differ, we have experienced that a high level of required software functionalities are the same. To enable development speed we have created IoT Insights, a Platform solution for IoT applications. Customers experience IoT Insights as:

- Proven Microsoft Azure architecture for IoT applications;
- Reduces development & implementation time, resulting in fast “time to value”;
- Fast and flexible configuration of data processing;
- Fast and flexible configuration of user interfaces & dashboards



From Edge to App

IoT Insights - Solution Outline

The IoT Insights Platform exist out of three main components that can be used separately or in combination with each other:

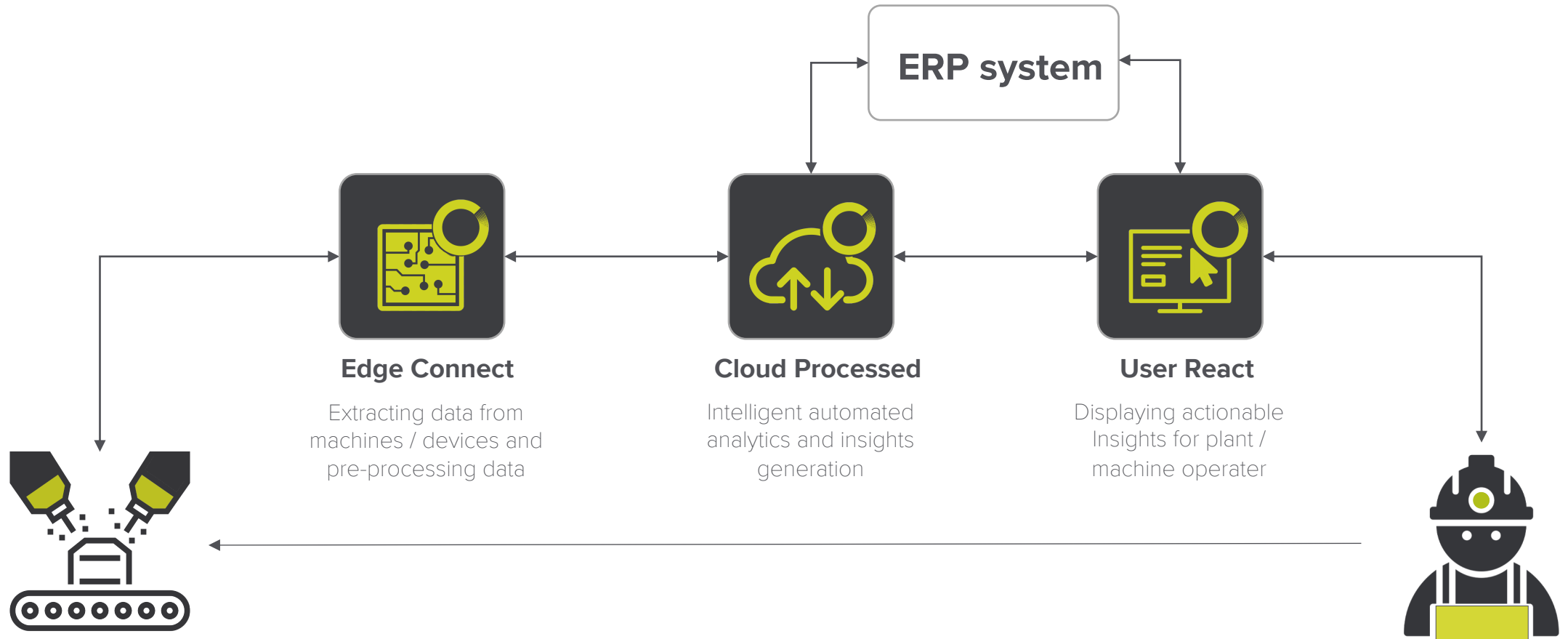
- **Edge connect:** based on Azure IoT Edge software. Edge Connect comes in two variants:
 - **Time Series:** for unlocking and (pre) processes (Machine learning) of time series data
 - **Vision:** for unlocking and processes (Machine learning) of video and image data
- **Cloud Processed:** based on Azure native components combined with open source technology for processing time series data, interactively via platform API.
- **User React:** based on ReactJS and Azure native components, enables you to quickly configure web-based data-driven apps.



Smart Manufacturing

A possible solution outline

The IoT Insights Platform has proven implementations in manufacturing environments.



Endless Possibilities

Two more examples

But the IoT Insights Platform is also applied in other industries.

Applied solution architecture for Smart Buildings & Facility Management



Applied solution architecture for distribution centres





Edge Connect

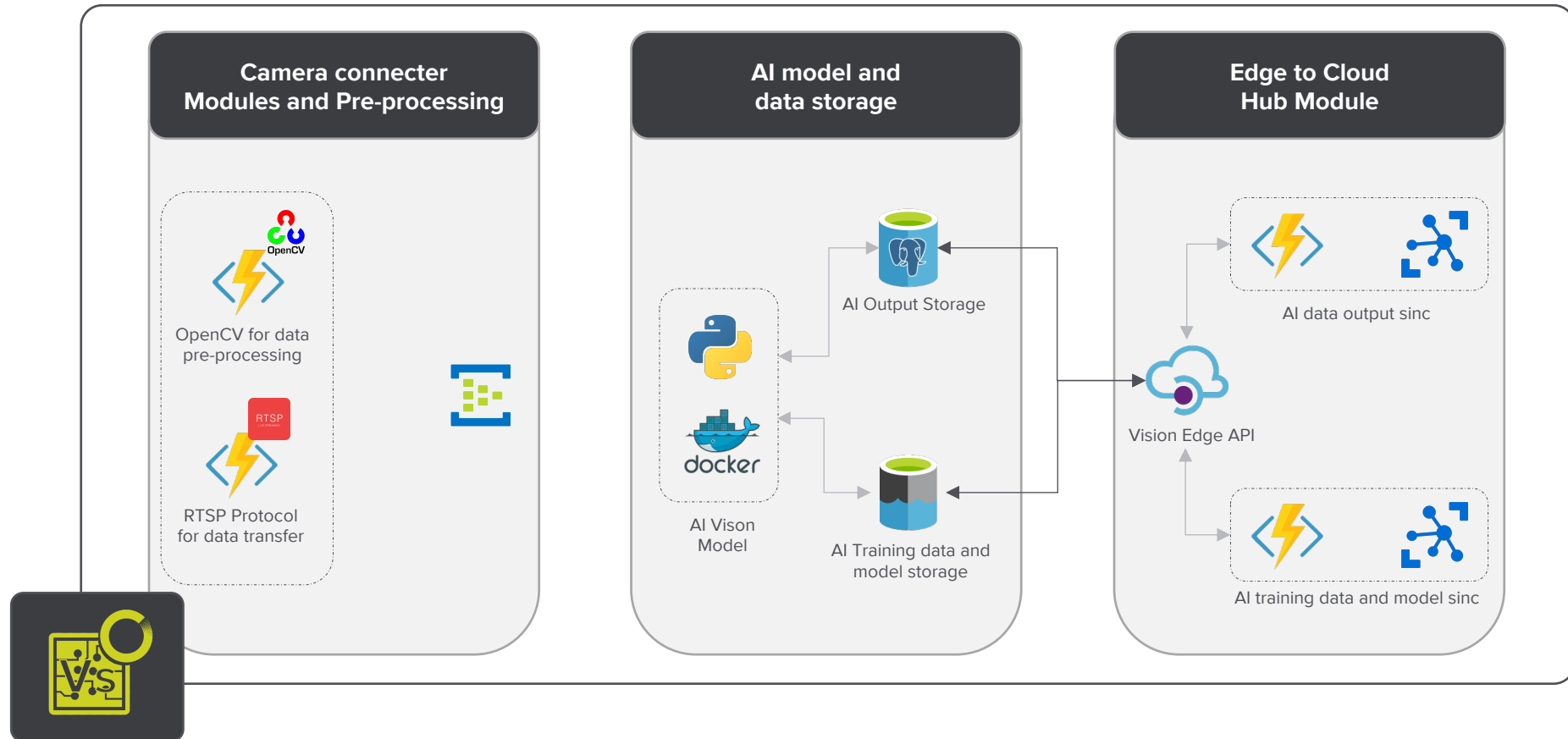
Making IoT data accessibility
and pre-processing easy

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Vision Architecture

Edge Connect

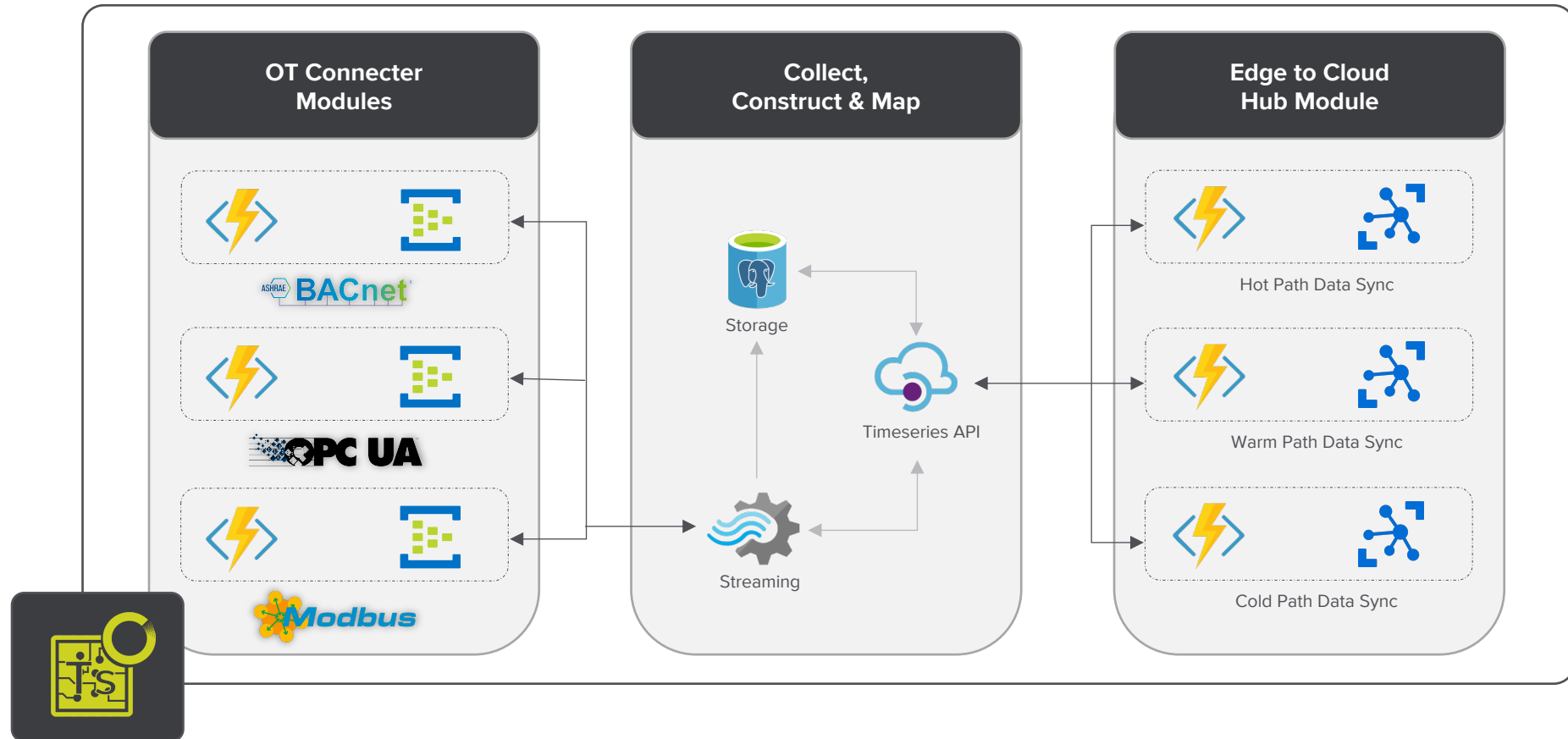
Edge Connect software architecture for processing video / image data on the edge.



TimeSeries Architecture

Edge Connect

Software Architectue of our Edge Connect software for processing timeseries data on the edge.





Cloud Processed

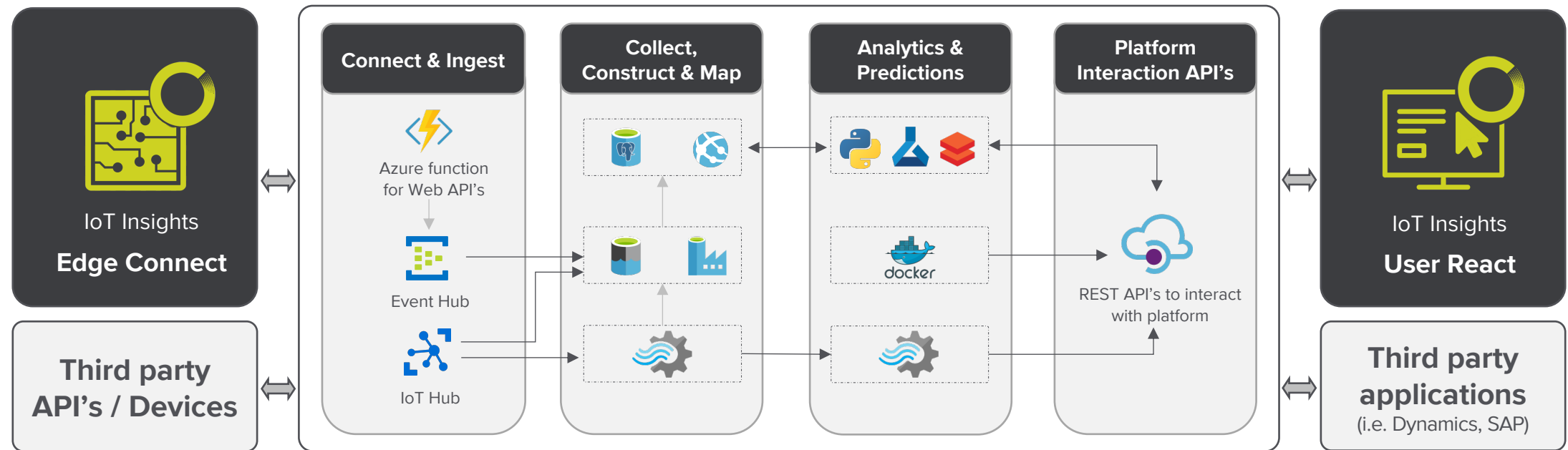
Flexible cloud architecture for fast
and scalable data processing

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Architecture

Cloud Processed

Software Architectue of our Cloud Processed software for IoT data processing.

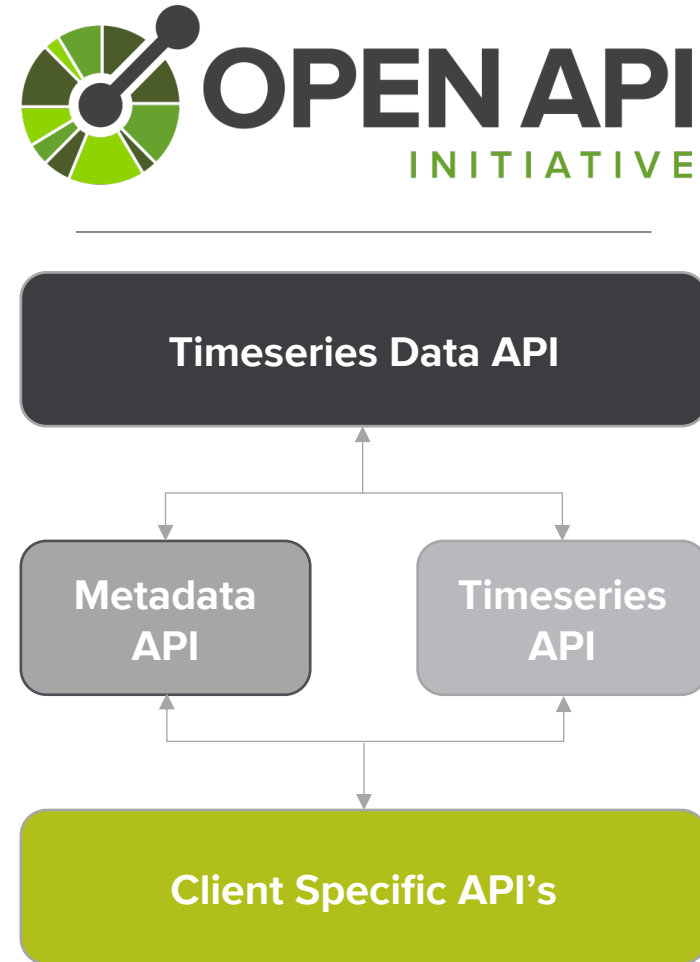


Platform Timeseries API

Cloud Processed

The platform REST API is built up with standard functionalities, but can be easily extended for specific need:

- Standard data pipelines for time series data;
- Time Series API based on Project Haystack protocol;
- API can be expanded / added based on customer requirements;
- Adjustment / addition can be tailor made;





User React

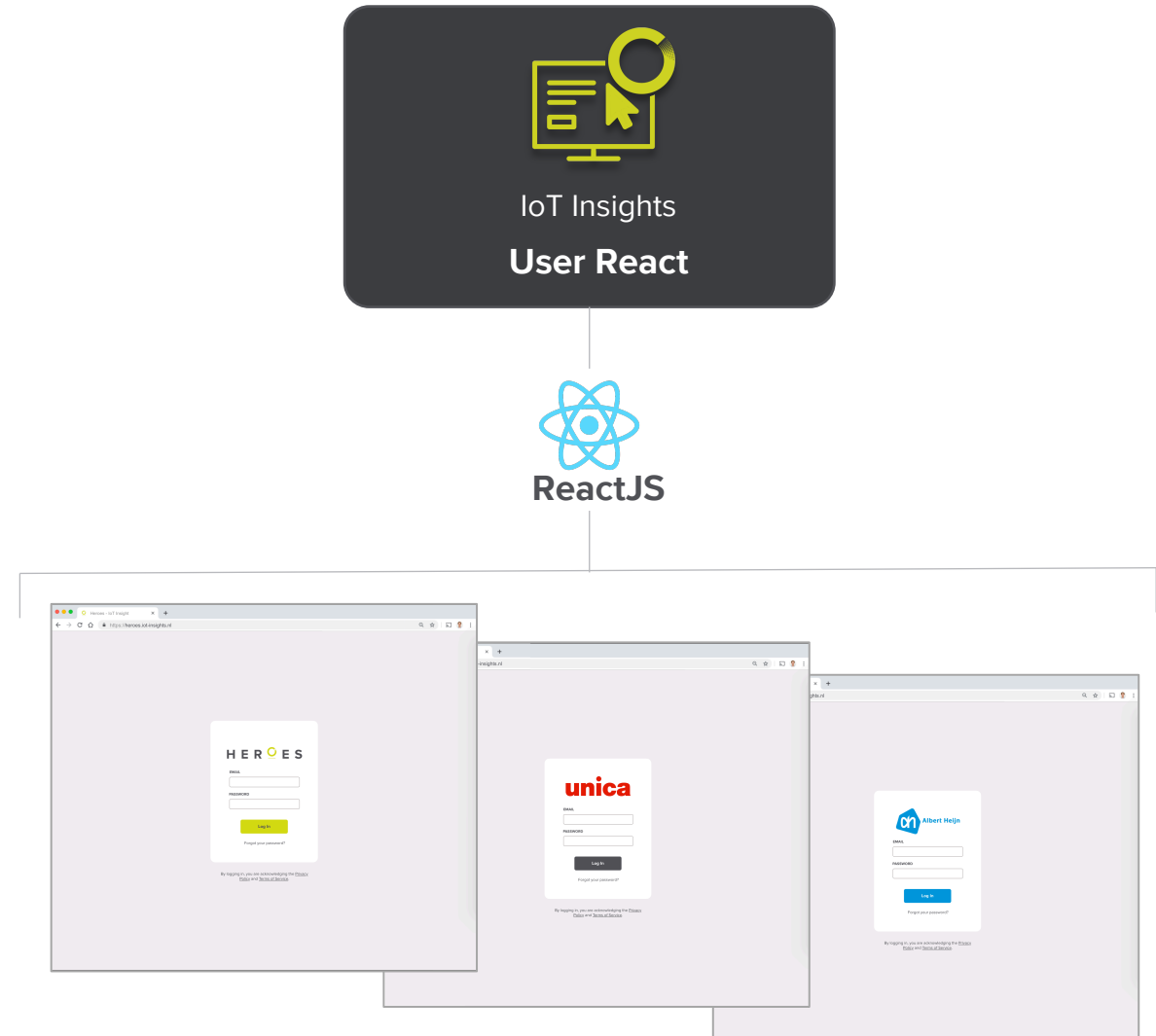
Front-End templates for fast
application deployments

White-Labeled User Portal

User React

User React has standard templates that can be used to quickly configure costumer specific applications / dashboards:

- White-Labeled User portal in which functionalities can be configured and cloud platform can be managed;
- Portal that can be configured quickly in relation to customer requirements;
- Out of the box dashboard functionalities to quickly obtain actionable insights





IoT Insights

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A Microsoft Azure solution of

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