



# INDUSTRY 4.0

## Redefining SCADA systems

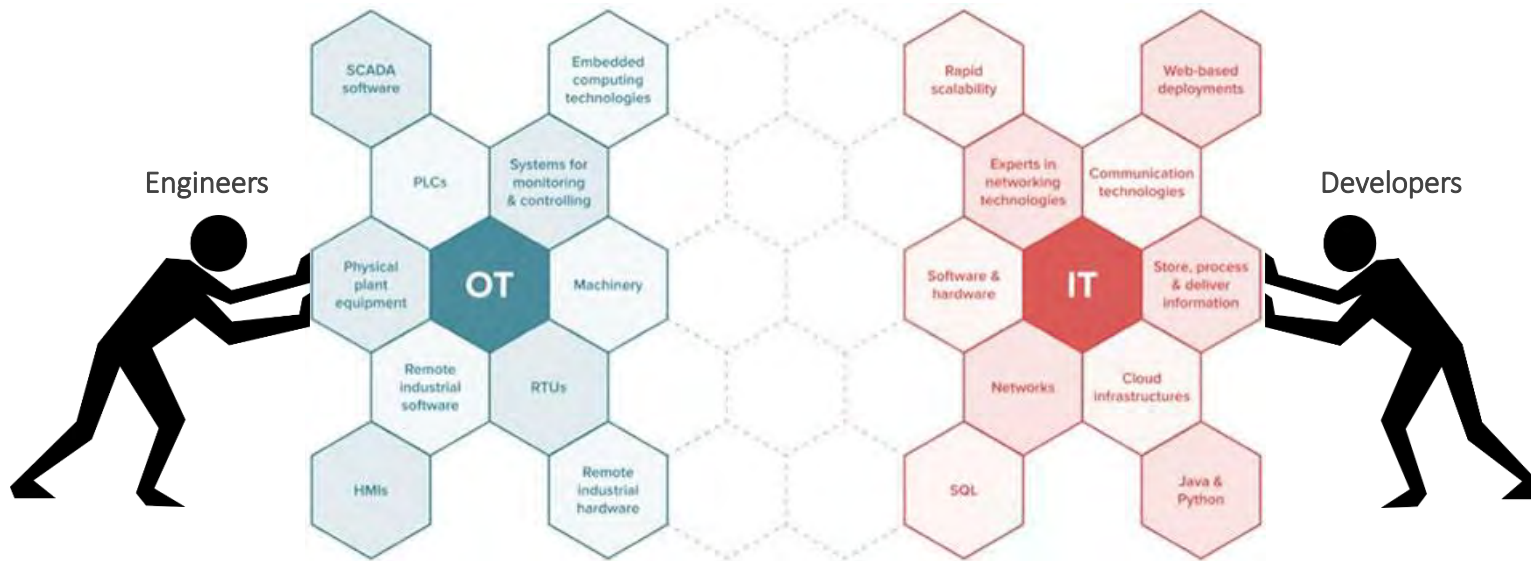




# New Industry Challenges

## Industry 4.0:

The Fourth Industrial Revolution



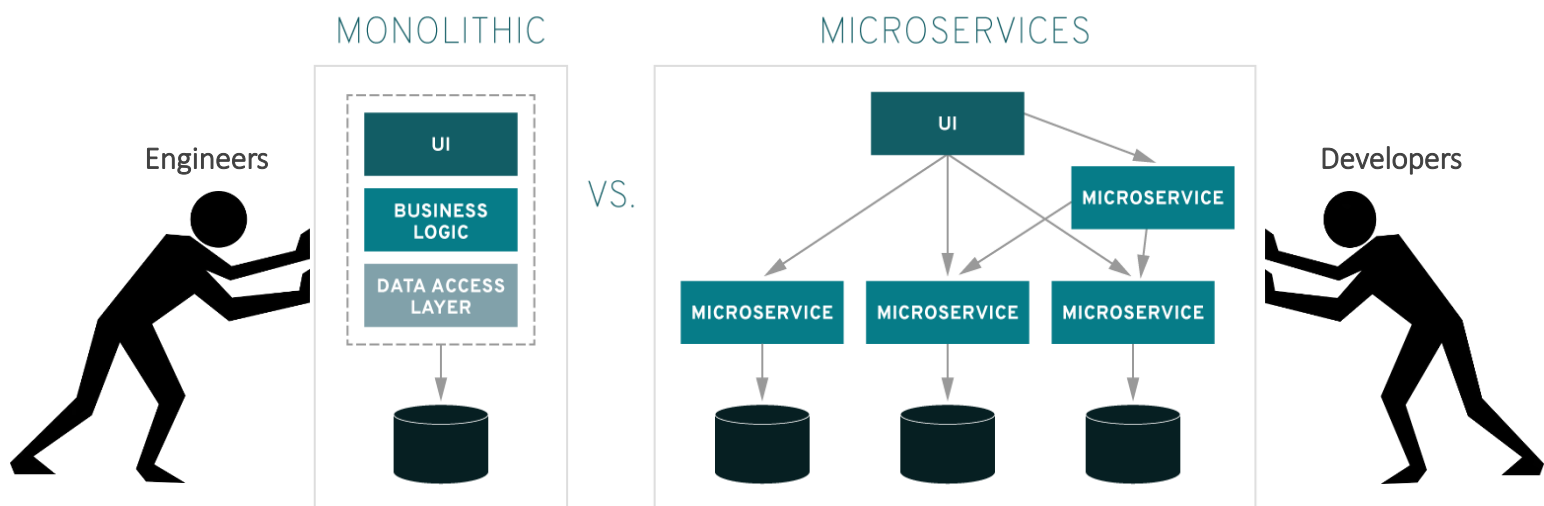
## OT & IT Convergence

IT/OT convergence is the integration of **Information Technology** systems used for data-centric computing with **Operational Technology** systems used in industrial operations.

# New Industry Challenges

## Industry 4.0:

The Fourth Industrial Revolution



## OT & IT Convergence

- ▶ Modularity / **Scalability** & portability
- ▶ **On-demand provisioning**
- ▶ **Decentralized** processing (clusters / cloud)
- ▶ **High Security**, Auditing & Access restrictions.
- ▶ **Big data** management DBs.
- ▶ **Platform independency**.

# New Industry Challenges

Built an OT platform from IT tools & methodologies



## OT & IT Convergence

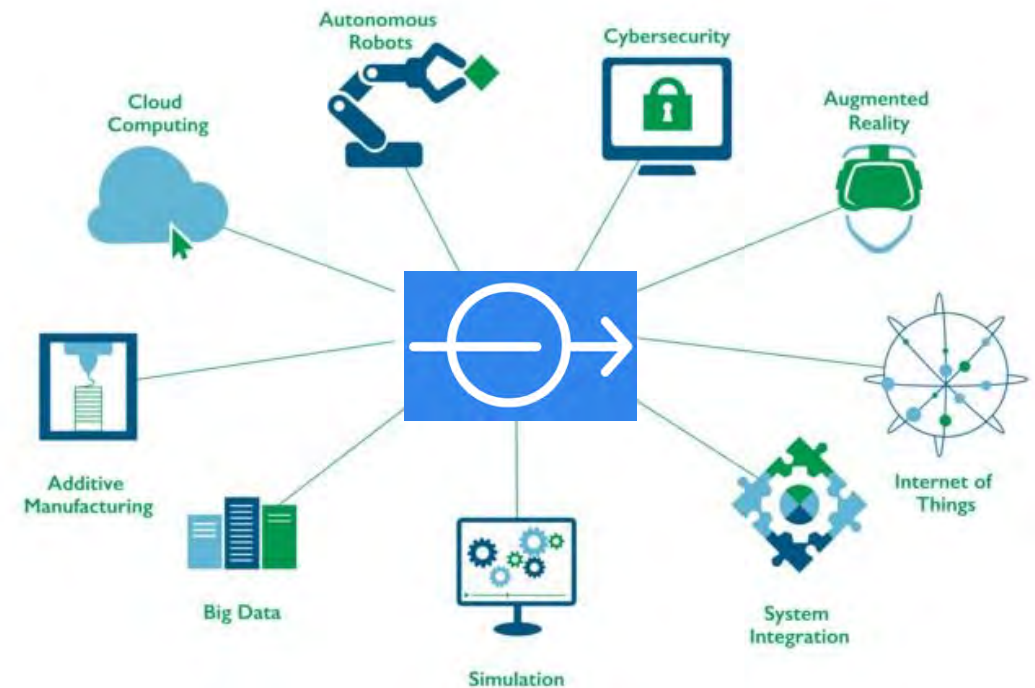
In 2015, **MAS** forms a team of leading **IT Developers** who were given the task to **develop an OT platform** using latest tools and architectural concepts providing a real **solution for tomorrow's operational challenges**.

- ▶ 2015 - 2017: **Development**
- ▶ 2017: **Testing & proof of concept**
- ▶ 2018: **Major projects under development**

# ACROSS

## IT Technology in OT Systems

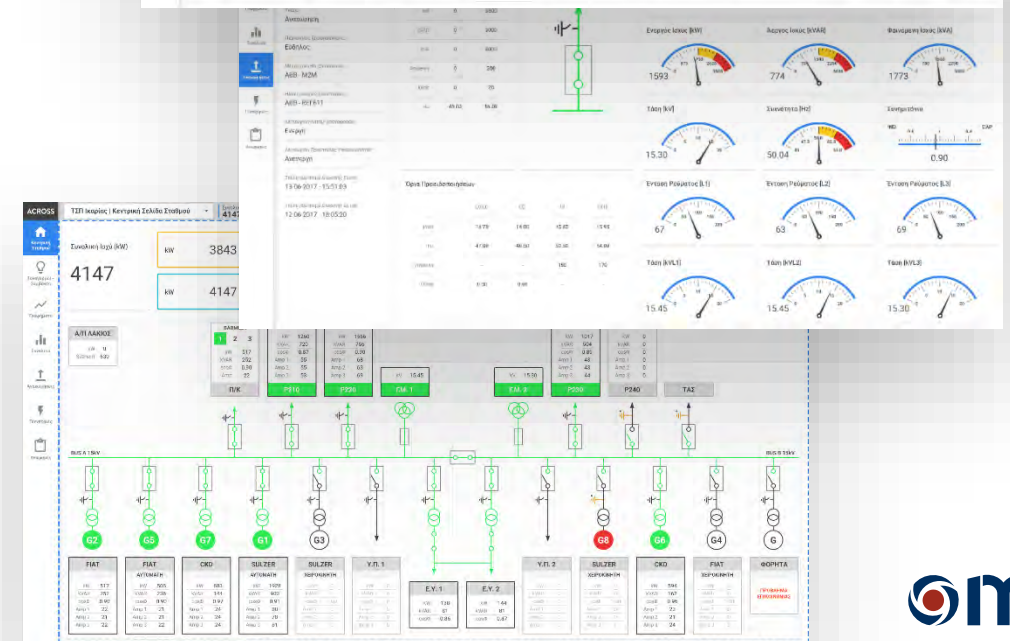
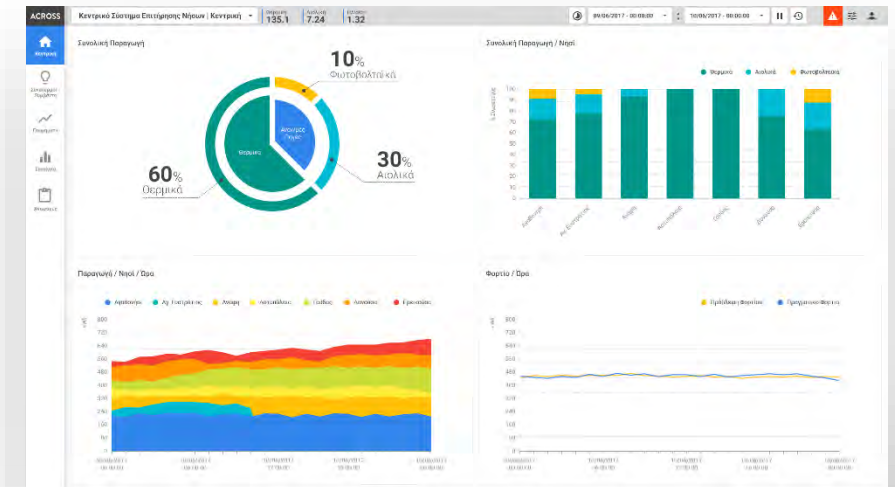
- ▶ Security (**beyond Cybersecurity**)
- ▶ Reliability & Availability (**Beyond Hardware**)
- ▶ AI Operations (**beyond static logic**)
- ▶ Compatibility (**beyond protocols**)



# ACROSS

## IT Methodology in OT Systems

- ▶ **Fresh design** based on latest “Look & Feel” practices
- ▶ **Dynamically build pages** based on underlining relations
- ▶ Relative time concept with **time lapse support**
- ▶ Sophisticated security with **constant updates**
- ▶ **Real Time Big Data analysis** for AI functionality.
- ▶ Native support for the **technology of the future.**

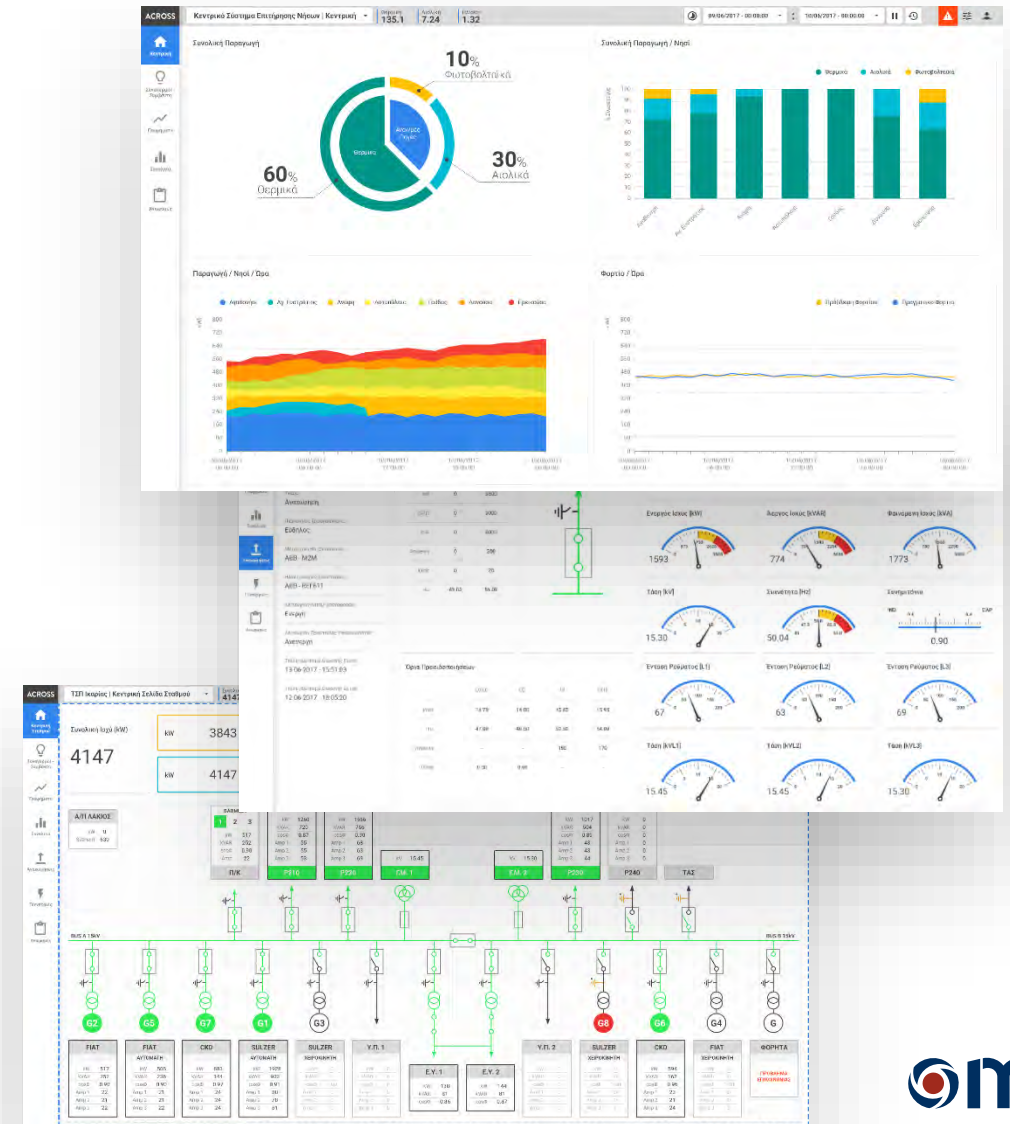


# ACROSS

## Industry 4.0 compliance

Available Modules include:

- ▶ Supervisory Control and Data Acquisition (**SCADA**)
- ▶ Energy Management System (**EMS**)
- ▶ Generation Management System (**GMS**)
- ▶ Metering (**smart networks**)
- ▶ Process Management System (**PMS**)







# Thank you!