

ACROSS the new SCADA technology

ABOUT MAS



Automation & Control

Machine control systems

Power & Energy Management Systems

Compressor Station Controls



Supervision & Control

Local HMI Systems
Station / Plant Supervision & Control
GMS / AGS / EMS Solutions

We belong to a niche group of companies that specialize in the **design**, **development** and deployment of **latest technology**, **Automation**, **Control and Supervisory Systems** for the Energy and Utility sectors.

- ▶ 45 years of Experience and Technological Innovation
- Proven by hundreds of large scale projects in a wide geographical area
- Recognized by multiple International awards
- ► 100% Greek company

ABOUT

MAS



Plant upgrades

38

> 250 engines & 26 Turbines



Hybrid Control & Monitoring system

2



Large Wind Farm Control & Monitoring systems

18



Local control & Monitoring systems

> 150

(< 1,500 IOs / site)



Plant Supervisory and control systems

34

(< 32,000 IOs / site)

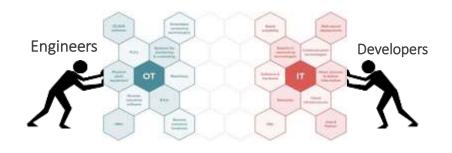


Wide Area GMS & EMS Systems

2

(> 500,000 IOs / Site)

OUR CHALLENGE



2015 - 2017: Development

> 2018: **Testing & proof of concept**

2019: Projects under execution

True OT & IT Convergence

In 2015, MAS forms a team of leading OT engineers & 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.

- No patchworks and no shortcuts!
- Design and develop from scratch
- **Question** existing principles
- Use latest technology tools and methodologies
- One tool for Engineers & end-users

→ ACROSS An OT SOLUTION from an IT PERSPECTIVE

ACROSS® is designed to cover all of today's operational and technical requirements while providing the foundations to embrace future technological and operational evolutions.

- Latest standards on security.
- Microservices architecture
- Cloud based capabilities
- Big Data & AI capabilities
- Native UI for all devices



- Mission Critical Concepts.
- True Real Time Processing.
- Industrial control Best Practices.
- Native IIOT support
- Industrial protocol support.



The Next Generation SCADA

Beyond Reliability & Availability

- Automatic system recovery & Performance Tuning
- Live (No Downtime) updates and upgrades.

Beyond Cybersecurity

- Behavior heuristics & latest web security
- Build in strict user credential access system.

Beyond Speed & Size

- Designed to meet the large scale data processing requirements
- Build for speed with true real-time processing engine.





The Next Generation SCADA

Beyond Design

- Pages build automatic from entity modeling data
- Special UI design to cover both engineers and simple users.

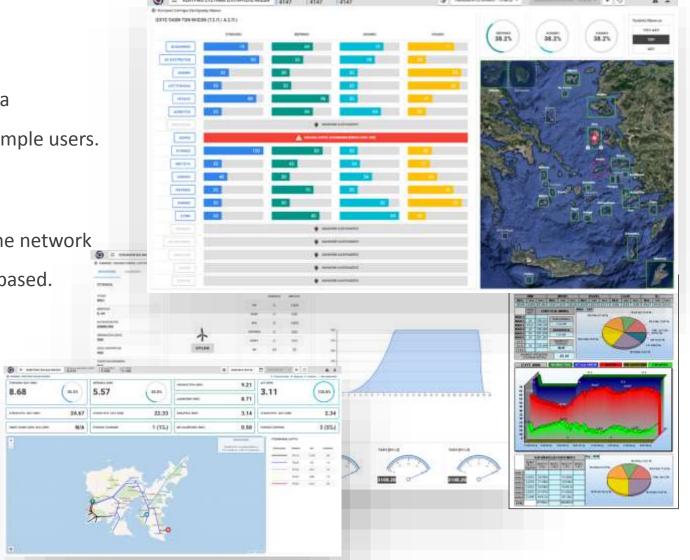
Beyond connectivity

Auto-discovery of know devices as they enter the network

Object based data manipulation and not signal based.

Beyond OT Functionality

- Fault prediction models
- Real time operational forecasts & projections.
- Time lapse & root cause analysis tools.





The Next Generation SCADA

Current Modules

- Generic Industrial SCADA system
- Power Management Solutions (Thermal, Renewables & Hybrid)
- Energy Management Solutions (Production & demand management).

Nearly Here

Water Management Solutions

Coming Soon

- Augmented Reality Tools.
- Building Energy Management Solutions.



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Thank you!