

# Modelway

Engineering company expert in innovative data-driven technologies for control, virtual sensing and modeling of complex systems



## Speaker:

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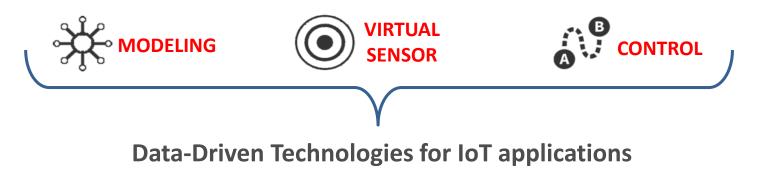


- Founded as academic **spinoff of Politecnico di Torino**
- Experienced in applying Machine-Learning methods to solve technological problems in relevant automotive, aerospace, mechatronic and energy applications
- Support the technological transfer to the industrial world of innovative data driven solutions
- Provide **bespoke embedded systems** integrated with customers' value chain



### We extract information from data







- Reliable estimate of critical on-board information
- Diagnostic, redundancy and recovery functionalities



- Robust prediction of complex physical behaviors
- Predictive maintenance & real-time optimization

#### **Benefits**

- 4x reduction of time&cost in design and calibration
- 10x improvement in accuracy





#### Estimation of pollutant concentrations

- Prediction of critical behaviors in structures and environmental systems
- Estimation of human behaviors

Process Optimization

Environment

Awareness

- In-line availability of **laboratory "accuracy level" information**
- Physical sensor reduction
- Low cost redundancy & predictive maintenance using the information available on the process

Decision-Making Support

- Estimate of critical information allowing system control improvement
- Fast development of data-driven models of complex physical behaviors
- Systematic control design from actual data of the system / process

### We want to increase the business prospect toward





- Penetrate the Industry 4.0 market with the Machine Learning application based on the process data
- Grow the accuracy and reliability of the industrial process information

COFOUNDED	
R&D	
PROJECTS	

- Develop innovative IoT platforms able to exploit the process data using Machine Learning technologies
- Use the data in order to improve the human operator state of health and comfort









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