



# MODELING AND SIMULATION

## ***Prochaines Dates***

19.06.2024 - 21.06.2024, Zurich

## ***Descriptions des Cours***

This course is designed for professionals seeking to enhance their understanding and analysis of complex systems through modeling and simulation. Trainees will learn various modeling approaches, including discrete event simulation, agent-based modeling, system dynamics and Monte Carlo methods. The course covers topics such as model formulation, experimentation, verification, validation, training and exercises. Trainees will gain practical skills in developing simulation models and analyzing system behavior to support decision-making in their respective professional domains.

## ***Objectifs***

- Understand the role of modeling and simulation in analysing complex systems.
- Learn various modeling approaches, including discrete event simulation and agent-based modeling.
- Acquire skills in model formulation, experimentation, verification, validation.

- Analyse system behavior through simulation to support decision-making.

### ***Pour Qui***

- Systems Analysts
- Decision-makers
- Researchers
- Engineers in various domains requiring simulation skills

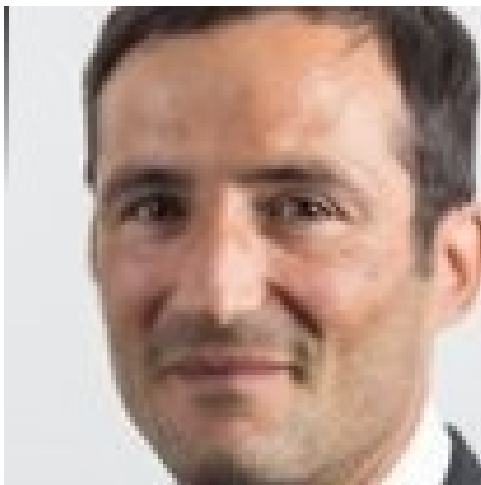
### ***Tarifs des Cours***

Early Bird: 2025 CHF | Regular: 2250 CHF

### ***Durée***

3 jours

### ***Enseignant***



Vincent Arnould

Vincent Arnould brings over two decades of experience as a versatile leader and expert in the field of System Engineering and Architecture. His career spans in the defense domain, on avionics and maritime warfare systems. His expertise lies in Software Intensive Systems and Systems-of-Systems Architecture and System Engineering, supported by a robust skill set that includes transversal management, communication, and international collaboration. He has excelled in leadership roles at companies like Naval Group and Hensoldt Sensors GmbH, contributing to prestigious projects such as the Gowind-class Frigate, the Future Combat Air System (FCAS) and Maritime Airborne Warfare System (MAWS). Vincent's expertise lies in operational analysis, architectural design, and Model-Based System Engineering (MBSE), driving successful outcomes in the defense

and avionics sectors. His transnational collaboration and commitment to rigorous quality standards like SysML further underscore his influence in the industry.