



# Cloud Based Simulation Developments in Europe

Event Coordinator: Wim HUIJKAMP (ETSA Board)

Supported by: Andy SMITH (ETSA Chairman)



# Focus Event Objectives

Innovating and Accelerating Training:



Adapting to an Unexpected Future!

- Provide an overview of the European state-of-the-art and roadmaps regarding 'Cloud Based Simulation Capabilities'
- Discuss how to engage with ETSA ("The European Voice" of the MS&T community) and leverage its partnership agreements with NTSA and EDA



# Agenda



- ETSA Overview – organization, membership and main activities
  - Andy Smith (ETSA, UK)
- National Perspectives – Cloud Based Simulation developments and roadmaps
  - Current state-of-the-art, vision on the evolution and mid-term plans
    - Dr Robert Siegfried (Aditerna GmbH, DEU)
    - LTC Felice d'Ippolito/LTC Marco Biagini (MoD ITA)
    - Mr Bharat Patel (Dstl, UK)
    - Mr Lars Jansson/Cpt Peter Lindskog (FMV/SWE Armed Forces, SWE)
- Q&A to the panel of 5 presenters, moderated by Mr Wim HUISKAMP



# I/ITSEC 2021 Special Event:

## Cloud Based Simulation Developments in Europe

Innovating and Accelerating Training:



Adapting to an Unexpected Future!





## Session Chair



Wim HUISKAMP is Chief Scientist Modelling, Simulation and Gaming in the M&S department at TNO Defence Research in the Netherlands. He is member of the NATO Modelling & Simulation Group (NMSG) and served as NMSG Chairman (2013-2016) and before as Chairman of the NMSG M&S Standards Subgroup (MS3). Wim is liaison of the NMSG to the Simulation Interoperability Standards Organization SISO.

Wim HUISKAMP (ETSA Board)





# Participant (1)



Andy SMITH is the ETSA Chairman and has been a simulation and training advocate for 35 years. As a publisher and event organizer for the Simulation and Training industries he has dealt with regulatory, learning and technology issues for most of his career. Andy launched Military Simulation & Training, the original title of MS&T, with Monch Publishing in 1983. He launched Halldale as a buyout in 1992 and started Halldale's USA operations in 2002. In 2012 came the launch Medical Training Magazine, and in 2018 Safety Critical Training. All on [www.halldale.com](http://www.halldale.com)

Andy SMITH (ETSA chairman)





# Participant (2)



Dr. Robert Siegfried is a Senior M&S Consultant and Managing Director of Aditerna. Robert is serving as Chair of the NATO Modelling and Simulation Group (NMSG) and leads the NMSG's efforts towards Modelling and Simulation as a Service (MSaaS). Robert is a member of the Executive Committee of the Simulation Interoperability Standards Organization (SISO) and is actively engaged in multiple SISO working groups.

[Presentation Siegfried](#)

Dr Robert SIEGFRIED (Aditerna GmbH)





## Participant (3)

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Marco is Italian Army Lieutenant Colonel, he is the Concept Development and Experimentation Branch Chief at NATO Modelling & Simulation Centre of Excellence, with more than 20 years of experience in the field of M&S. He is the Executive Director for the Italian Defence Modelling as a Service National Military Research Program. He has a Ph.D. in Mathematics, Engineering, and Simulation. He has master degrees in strategic studies, peace keeping and security studies and, new media and communication.

LTC Marco BIAGINI (NATO M&S CoE)







# Participant (4)



Bharat Patel is a Fellow within the Defence Science and Technology Laboratory within the UK Ministry of Defence. He has over 25 years experience specialising in modelling, simulation and synthetic environments, system of systems methods and techniques for evaluating and integrating future disruptive capabilities in defence, currently in areas of multi-domain training, operational decision support, autonomy, cyber, and space. He has championed distributed Live, Virtual and Constructive simulation and C2-to-simulation interoperability. He has developed the vision for an enterprise cloud-based ecosystem to meet future M&S requirements for all Defence applications.

[Presentation Patel](#)

Bharat PATEL (Dstl)





# Participant (5)

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Lars Jansson is project engineer at Swedish Defence Materiel Administration (FMV).

[Presentation Jansson](#)

Lars JANSSON (FMV)





# Questions, Answers, Discussion

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