



ESReDA | European Safety, Reliability & Data Association

ESReDA WEBINAR

LIMITATIONS OF TRADITIONAL RAM APPROACHES IN MULTI-VENDOR PROJECTS

THE RAILWAY EXAMPLE

23 SEPTEMBER 2026

10:00–11:30 CEST · ONLINE

SPEAKERS



Pierre Dersin
EUMETRY sas
LTU



Stefano La Rovere
N I E R



Matteo Vallucci
N I E R



SPEAKER BIOGRAPHIES

ESReDA webinar · 23 September 2026



Prof. Dr Pierre Dersin

Founder, EUMETRY sas

Adjunct Professor, Luleå University of Technology (LTU)

Louveciennes, France · Luleå, Sweden

Professional biography

Pierre Dersin graduated from the Massachusetts Institute of Technology (MIT) with a PhD in Electrical Engineering, after receiving a Master's degree in Operations Research, also from MIT. He also holds degrees in Mathematics and Electrical Engineering from Université Libre de Bruxelles, Belgium.

Since 2019, he has been Adjunct Professor in the Operations and Maintenance Engineering Division at Luleå University of Technology, Sweden. In January 2022, he founded EUMETRY sas, a consulting company based in Louveciennes, France, active in the fields of RAMS, PHM and AI. He founded the company shortly after retiring from Alstom, where he had spent more than 30 years.

At Alstom, he served as RAM (Reliability, Availability and Maintainability) Director from 2007 to 2021 and as RAM Master Expert, and founded the RAM Center of Excellence. In 2015, he contributed to the launch of the predictive maintenance activity and became PHM (Prognostics and Health Management) Director of Alstom Digital Mobility in Saint-Ouen, France.

Before joining Alstom, he worked in the United States on the reliability of large electric power networks and on fault detection and diagnostics in industrial systems. He has contributed numerous presentations and publications to scientific conferences and journals in the fields of RAMS, PHM, AI, automatic control and electric power systems. He was keynote speaker at the 2014 European Conference of the PHM Society.

In 2020, he received the Alan O. Plait Award for Best Tutorial at the Reliability and Availability Symposium for *Designing for Availability in Systems, and Systems of Systems*. In 2024, he received the Lifetime Achievement Award from SRESA, India.

He is a member of the IEEE Reliability Society and leads its Technical Committee on Systems-of-Systems Reliability. He is the author of *Modeling Remaining Useful Life Dynamics in Reliability Engineering*, published by CRC Press in June 2023.

His current interests focus on the convergence of RAMS and PHM, as well as complex-system resilience and asset management.



Dr Stefano La Rovere

Head of Systems Engineering Area

NIER Ingegneria S.p.A.

Bologna, Italy

Professional biography

Stefano La Rovere graduated *summa cum laude* in Nuclear Engineering from the University of Bologna and holds a PhD in Energy, Nuclear and Environmental Control Engineering, with a thesis on advanced techniques for reliability and risk analysis of complex systems.

Since 2002, he has worked at NIER Ingegneria S.p.A., where he leads the Systems Engineering Area, coordinating multidisciplinary teams in complex, safety-critical projects across the railway, nuclear - fusion and fission - and industrial sectors.

He has extensive experience in Systems Engineering, Reliability, Availability and Maintainability (RAM), safety analysis and safety management, and Verification and Validation for complex and safety-critical systems.

He has contributed to several research and industrial projects, with a specific focus on the development of complex systems for railway and nuclear applications. He is the author or co-author of scientific publications in the fields of RAM, safety and Systems Engineering.

His current professional interests focus on applying integrated Systems Engineering, RAM and safety approaches to the design, qualification and operation of complex safety-critical systems.



Dr Matteo Vallucci

Senior Consultant, Reliability and Maintenance Division

NIER Ingegneria S.p.A.

Bologna, Italy

Professional biography

Matteo Vallucci graduated in Energy Engineering from the University of Bologna and also holds a degree in Mathematics.

Since 2013, he has worked at NIER Ingegneria S.p.A., where he is a Senior Consultant in the Reliability and Maintenance Division.

He has extensive experience in Reliability, Availability and Maintainability (RAM), applied to complex systems in the railway, nuclear, power-supply and oil and gas sectors.

He has contributed to research projects concerning the development of advanced tools for reliability analysis using Monte Carlo simulation.