



INN4MECH

SECOND EDITION

**OFF-HIGHWAY  
MACHINE  
R-EVOLUTION**

JULY 12<sup>TH</sup>-15<sup>TH</sup> 2021

by TRENTINO SVILUPPO  
& POLO MECCATRONICA

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# INN4MECH 2021

Inn4Mech, at its second edition, is organized by **Trentino Sviluppo & Polo Meccatronica**, Rovereto (Trentino, Italy), in partnership with some of the **most important industries of the mechatronic sector**.

**Inn4Mech** addresses industrial researchers, technicians, operation managers of large companies and SME's as well as academics, providing **highlights on technical novelties and future technologies**, and it is conceived as a matchmaking and **networking platform** for industrial **R&D projects**.

Each edition focuses on a different topic concerning Mechatronics and Industry 4.0 and hosts scientific and cutting-edge innovation speeches by primary academic and industrial speakers.

Due to the Covid-19 pandemic, the upcoming event will take place in a hybrid fashion: most of the speakers will be welcomed at the Exhibition & Congress Center of Riva del Garda, but attendees will participate online. The date is July 12th to 15th, 2021.

The central topic of **Inn4Mech 2021** will be **Off-Highway Machine R-Evolution** for automotive and off-road applications, focusing on **Future Workspaces**, **Circular Economy** and **Open Innovation**.

## AGENDA

Inn4Mech hosts three plenary sessions focused on **Future Workspaces**, **Circular Economy** and **Open Innovation**, followed by round tables with the possibility of Q&As for the speakers.

There will be technical workshops, each alternating academic studies and industrial experiences regarding **Green Machines**, **New Materials and Processes**, **Smart Technologies**, **Smart Machines** and **Open Innovation**.

Networking sessions will be organized to foster the establishment of R&D partnerships among participants. B2Bs and virtual exhibition stands with sponsors, partners and patrons will be available to attendees and their use encouraged.

### › Participation fees

3-days-package + day 4 € 300 + VAT (if applicable)

1-day-package + day 4 € 130 + VAT (if applicable)

EARLY BIRD until June 18<sup>th</sup> 2021 20% off

**Book your seat:** [riva.fc.onlinecongress.it/Inn4Mech2021](http://riva.fc.onlinecongress.it/Inn4Mech2021)

Inn4Mech will take place in the afternoon (Central European Time), and in the morning (Eastern Standard Time). The sessions will be registered and visible for registered participants in the morning hours (Central European Time) of the day after the live event.

## CONTACTS

› [info@inn4mech.eu](mailto:info@inn4mech.eu)  
[www.inn4mech.eu](http://www.inn4mech.eu)

# Day I

## JULY 12<sup>th</sup>

CET 15.00 - 15.10 EST 9.00 - 9.10 am

### > Welcome greetings

by Trentino Sviluppo and Dana

CET 15.10 - 16.10 EST 9.10 - 10.10 am

### > Plenary session **Future Workspaces**

Speaker	Organisation	Title
Giulio Lanza	<b>Capgemini Engineering, Italy</b> <a href="http://capgemini-engineering.com/it/it/">capgemini-engineering.com/it/it/</a>	People engagement in the Digital Transformation
Sergio Soares	<b>CNH Industrial, Brazil</b> <a href="http://www.cnhindustrial.com/en">www.cnhindustrial.com/en</a>	The Sustainable Technology Transformation of Off-Highway Machines

CET 16.10 - 16.50 EST 10.10 - 10.50 am

### > Plenary round table: **discussion with the keynote speakers and Q&A**

with the special participation of Christophe Dominiak, Dana Inc.

Day I  
JULY 12<sup>th</sup>

CET 17.00 - 18.30 EST 11.00 am - 12.30 pm

## > Workshop **Green Machines**

moderated by Lorenzo Serrao, Dana Italia (Italy)

Speaker	Organisation	Title
Luigi Alberti	<b>University of Padova, Italy</b> <a href="http://www.unipd.it/en">www.unipd.it/en</a>	The Green SEED project: Design of more-electric tractors
Davide Bagnara	<b>MCI Management Center Innsbruck, Austria</b> <a href="http://www.mci.edu/en">www.mci.edu/en</a>	Electrification of heavy duty vehicles
Marcello Canova	<b>The Ohio State University, USA</b> <a href="http://www.osu.edu">www.osu.edu</a>	Hybrid Energy Storage Systems: Emerging Technologies and Applications
Tatiana Minav	<b>Tampere University, Finland</b> <a href="http://www.tuni.fi/en">www.tuni.fi/en</a>	Review of Energy efficiency improvement of off-road machinery by means of zonal hydraulics
Andrea Vacca	<b>Purdue University, USA</b> <a href="http://www.purdue.edu">www.purdue.edu</a>	An energy efficient actuation technology for electrified off-road vehicles

CET 18.30 - open end EST 12.30 pm - open end

## > B2B

## Day II JULY 13<sup>th</sup>

CET 15.00 - 15.10 EST 9.00 - 9.10 am

➤ Welcome greetings by **Trentino Sviluppo**

CET 15.10 - 16.10 EST 9.10 - 10.10 am

➤ Plenary session **Circular Economy**

Speaker	Organisation	Title
Silvia Gross	<b>University of Padova, Italy</b> <a href="http://www.unipd.it/en">www.unipd.it/en</a>	Design and Manufacturing in a Circular Economy Framework
David Peck	<b>TU Delft, Netherlands</b> <a href="http://www.tudelft.nl/en/">www.tudelft.nl/en/</a>	Circular Opportunities and Materials Challenges

CET 16.10 - 16.50 EST 10.10 - 10.50 am

➤ Plenary round table:  
**discussion with the keynote speakers and Q&A**

with the special participation of Giorgia Marino, Renewable Matter (Italy)

## Day II JULY 13<sup>th</sup>

CET 17.00 - 18.30 EST 11.00 am - 12.30 pm

### ➤ Workshop **New materials and processes**

moderated by Paolo Bosetti, University of Trento (Italy)

Speaker	Organisation	Title
Nicola Battisti	<b>OPTOI, Italy</b> <a href="http://optoi.com/en/home">optoi.com/en/home</a>	Smart Sensors in harsh environment, mobile vehicles: how can they offer more functionalities through integration, how can they be reliable and predict maintenances through smart algorithms
Michele Pinelli	<b>University of Ferrara, Italy</b> <a href="http://www.unife.it/it">www.unife.it/it</a>	The Efflics Project for the increasing use of eco-friendly fluids in volumetric machines
Sooky Winkler	<b>Dana Inc., USA</b> <a href="http://www.dana.com">www.dana.com</a>	Additive Manufacturing – Process, Structure and Properties
Nicholas Zanasi	<b>CNH Industrial, Italy</b> <a href="http://www.cnhindustrial.com/en">www.cnhindustrial.com/en</a>	Additive Manufacturing application in Agricultural Machinery hydraulic systems – a redesign study
Valeria Tirelli	<b>AIDRO, Italy</b> <a href="http://www.aidro.it">www.aidro.it</a>	
Thanos Tsakiris	<b>CERTH, Greece</b> <a href="http://www.iti.gr">www.iti.gr</a>	Augmented Reality Technology for Personalised Maintenance Training

CET 18.30 - open end EST 12.30 pm - open end

### ➤ B2B

# Day III

## JULY 14<sup>th</sup>

CET 15.00 - 15.10 EST 9.00 - 9.10 am

➤ Welcome greetings by **Trentino Sviluppo**

CET 15.10 - 16.10 EST 9.10 - 10.10 am

➤ Plenary session **Open Innovation**

Speaker	Organisation	Title
Salvatore Majorana	<b>Kilometro Rosso, Italy</b> <a href="http://www.kilometrorosso.com/en/">www.kilometrorosso.com/en/</a>	Science Parks as Enablers of Open Innovation in the Global Ecosystem of Mechatronics
Josep Miquel Piqué Huerta	<b>Technova Barcelona, Spain</b> <a href="http://www.technovabarcelona.org">www.technovabarcelona.org</a>	Managing the dealflow of Eco-systems of Innovation in Industry 4.0

CET 16.10 - 16.50 EST 10.10 - 10.50 am

➤ Plenary round table:  
**discussion with the keynote speakers and Q&A**

with the special participation of Lucia Chierchia, Gellify (Italy)

# Day III

## JULY 14<sup>th</sup>

CET 17.00 - 18.30 EST 11.00 am - 12.30 pm

### ➤ Workshop **Smart machines**

moderated by Enrico Sedoni, CNH Industrial (Italy)

Speaker	Organisation	Title
Gabriele Caiulo	<b>Pure Power Control, Italy</b> <a href="http://www.purepowercontrol.com/en/">www.purepowercontrol.com/en/</a>	Energy Management Strategies for Fuel Consumption Minimization of Parallel Hybrid Vehicles
Claudia Elisabetta Campanella	<b>CNH Industrial, Italy</b> <a href="http://www.cnhindustrial.com/en">www.cnhindustrial.com/en</a>	Ergonomics and Virtual Reality on CNH agricultural tractors
Francesca Perino	<b>Mathworks, Italy</b> <a href="http://it.mathworks.com/">it.mathworks.com/</a>	Artificial Intelligence for Agriculture
Alejandro Secades Rodríguez	<b>MCI Management Center Innsbruck, Austria</b> <a href="http://www.mci.edu/en/">www.mci.edu/en/</a>	On the Digital Representation of Heavy-Duty Vehicles: a case study and outlook

CET 18.30 - 20.00 EST 12.30 pm - 2.00 pm

### ➤ Workshop **Smart technologies**

moderated by Gaétan Bouzard, Siemens (France)

Speaker	Organisation	Title
Marco Bietresato	<b>Free University of Bozen, Italy</b> <a href="http://www.unibz.it">www.unibz.it</a>	The tractor of the future: a retrospective on the past and an analysis of the present in order to outline the architecture of the future
Andrea Gaiola	<b>University of Modena and Reggio Emilia, Italy</b> <a href="http://www.international.unimore.it">www.international.unimore.it</a>	Modelling and Simulation of the Hydraulic Circuit of the Wheel Loader
Massimo Galbiati	<b>Enginsoft, Italy</b> <a href="http://www.enginsoft.com">www.enginsoft.com</a>	E-Motors and E-Axles design by Simulation
Henry Tanner	<b>Romax Technology, United Kingdom</b> <a href="http://romaxtech.com">romaxtech.com</a>	Designing Electrified Off-Highway transmissions using a modified systems engineering "V" model

CET 20.00 - open end EST 2.00 pm - open end

### ➤ B2B

# Day IV

## JULY 15<sup>th</sup>

CET 9.00 - 13.00

### ➤ Brokerage event **Enterprise Europe Network**

Special Networking Event for EEN members

CET 15.00 - 15.10 EST 9.00 - 9.10 am

### ➤ Welcome greetings by **Trentino Sviluppo**

CET 15.10 - 18.00 EST 9.10 - 11.00 am

### ➤ Workshop Open Innovation: **The Mechatronic accelerators experience, with startups operating in the field of Open Innovation in Mechatronics**

moderated by Alfredo Maglione, Optoi (Italy)

#### Speaker

Alberto Gasperi

Roberto Santolamazza

Jörg Schüler

Przemysław Zieliński

#### Organisation

**Industrio, Italy**  
[www.industrio.co](http://www.industrio.co)

**T2i, Italy**  
[www.t2i.it](http://www.t2i.it)

**HighTech Startbahn, Germany**  
[www.hightech-startbahn.com](http://www.hightech-startbahn.com)

**Krakow Technology Park, Poland**  
[www.kpt.krakow.pl/en](http://www.kpt.krakow.pl/en)

CET 18.00 - 18.10 EST 11.00 - 11.10 am

### ➤ Final remarks and closure of **Inn4Mech 2021**

# PATRONAGES



# MEDIA PARTNERSHIP

**INDUSTRIA ITALIANA**  
ANALISI E NEWS SU ECONOMIA REALE, AUTOMAZIONE, INNOVAZIONE, EBB TECH



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