

## Sustainable and Technological Transition in the Automotive Sector

Day	Time plan	Partner	Speaker	Title	Session
Monday, March 11th	10:00-10:30	UNIBZ	Prof. F. Concli	Welcome	Tribology
	10:30-11:00	UNIBZ	Prof. F. Concli	The role of tribology in the automotive sector	
	11:00-12:00	UNIBZ	Prof. F. Concli	New technologies for improving the lubrication of the powertrain	
	Lunch				
	13:30-15:30	UNIBZ	Dr. Lorenzo Maccioni	Experimental approaches for tribology	
	15:45-17:45	TUK	Prof. O. Koch and/or S. Graf	Electric currents in mechanical drivetrains – a new challenge for e-mobility applications	
Tuesday, March 12th	8:30-10:00	KUL	Prof. Joshua Lacey	State-of-the-art concepts (and beyond) for automotive powertrains	Tribology
	10:15-12:15	POLIMI	Prof. C. Gorla	Gears for EV-drivertrains	
	Lunch				
	13:45-15:45	POLIMI	Dr. L. Bonaiti	Gears for EV-drivertrains - part 2	
	16:00-17:00	UNIBZ	Prof. Massimiliano Renzi	Challenges in the thermal management of hybrid and electric vehicles	
Wednesday, March 13th	8:00-10:00	KUL	Prof. Wim De Roeck	Digital twin in automotive/virtual testing	I4.0
	10:15-12:15	KUL	Prof. Wim De Roeck	Digital twin in automotive/virtual testing: case studies	
	Lunch				
	13:45-14:45	UdG	Andrea Bikfalvi	Digital Technologies in I4.0 - from determinants to impact	
	15:00-16:00	UNIBZ	Prof. Guido Orzes	Digital Supply Chains	
Thursday, March 14th	8:30-10:00	PUV	Serafim Oliveira	The use of augmented reality in the automotive industry	AM and Robotics
	10:15-12:15	PUV	Daniel Gaspar	The application of 3d model and printing in the production of automotive parts	
	Lunch				
	13:45-16:15	UAntwerp	Prof. Erwin Smet	Safe use of industrial robots in automotive industries	
Friday, March 15th	8:00-9:00	UNIBZ	Prof. Erwin Rauch	Sustainability as a challenge in automotive manufacturing	Sustainability
	9:00-10:00	UNIBZ	Prof. Erwin Rauch & Dr. Ali Bataleblu	Design of sustainable manufacturing factories	
	10:15-11:15	UNIBZ	Prof. Erwin Rauch & Mattia Gualco	Product Carbon Footprint (PCF) measurement of automotive parts	
	11:15-12:15	UNIBZ	Speakers from AES network tbd	Practical examples from automotive industry	
	Lunch				
	13:45-16:15	UNIBZ	AES company	Visit of an automotive factory	
<b>BLENDED</b>					
		UNIBZ	Prof. Yuri Borgianni	Additive Manufacturing and Sustainability: Friends or Foes?	AM and Robotics
		UNIBZ	Dr. Margherita Molinaro	Sustainability in Companies	I4.0
		UNIBZ	Prof. Massimiliano Renzi	How to optimally size a hybrid powertrain for heavy duty applications	Tribology
		BUT	Jan Foltyn	TBD	