

InShaPe

INNOVATION THROUGH LASER BEAM SHAPING IN METAL-BASED AM

Come and join us for the final workshop of the EU project InShaPe, where researchers, industry leaders, innovators and professionals connect to share insights and explore new opportunities!

We will present key findings from InShaPe: Green Additive Manufacturing through Innovative Beam Shaping and Process Monitoring. Let's discuss about how research excellence impacts advances in industry.

With live demonstrations: Witness cutting-edge technologies in action!

10. April 2025 9:00-17:00 hours

Shaping the Future of Laser Processing

TUM-Oerlikon Advanced Manufacturing Campus, Auditorium Newton Freisinger Landstraße 52 85748 Garching near Munich

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(Beam)

	Start	Session	Company/	Title	Sneaker	REGISTER	HERE:
			Project		Spearcer		
	09:00	Welcome & Opening Remarks					
	09:15	Keynote Talks	VentureLabs	From Lab to Launch: lessons learned in translating excellent research into deep tech Start-ups	Sascha Schwarz		
	09:40		InShaPe – TUM	Green Additive Manufacturing through Innovative Beam Shaping and Process Monitoring	Katrin Wudy		
	10:00	Networking Break					
10:30	10:30	Innovative Beam Shaping for Green	InShaPe – EOS	Beamshaping the Future: Redefining Possibilities in Additive Manufacturing	Markus Birg		
	Manufacturing	Midel Photonics	All-Reflective Beam Shaping for Laser Processing based on Microstructured Mirrors	David Dung			
			Cailabs	Upscaling Additive Manufacturing with MPLC- based beam-shaping solutions	Gwenn Pallier	<u>www.bayfor.o</u> workshop	<u>rg/inshape-final-</u>
			Metamorpha- RWTH Aachen	Three-dimensional laser beam shaping with cascaded spatial light modulators based on diffractive neural networks	Paul Buske		
	11:50	Lunch Break + Poster Pitch				Project Coordi	nator:
13:00	13:00	<section-header></section-header>	InShaPe – SILIOS, Technion, TUM	Multispectral Imaging Technology for Innovative Process Monitoring in Additive Manufacturing	Richard Off	Professorship Additive Manu	of Laser-based facturing, TUM
			Hamamatsu	Innovate and Excel: New High-Power LCOS Spatial Light Modulator Pushing Boundaries in Laser Material Processing	Thomas Niedereichholz		
			Optoprim & nLIGHT	Revolutionizing Laser Beam Shaping and Process Monitoring for Next-Gen Manufacturing	Christian Schröter,	Contact at Bav Alliance GmbH	arian Research
	1/1.00	Coffee &	Plasmo		Christo Gavrilov	Simone Wiegar	nd nager
	14.00	Networking Break				phone: +49 89	9901888-134
14:30	14:30	Case Studies & Applications	InShaPe – Use Case Partners	From Research to Reality: Demonstrating the Benefits of Beam Shaping in four Industrial Use	Robin Prudlik	email: <u>wieganc</u>	<u>l@bayfor.org</u>
			Partners	Cases		Event Manager phone: +49 89	9901888-107
			Airbus	Effects of beam shaping on the requirements of RF space components and associated benefits	Michael Ralf Kilian	email: <u>veransta</u>	altung@bayfor.org
			MTU	How to advance Additive Manufacturing for future aero engine applications	Karl-Heinz Dusel	* * *	
	15.30	LahTours				* *	Funded by the

PLEASE







PROJECT CONSORTIUM

Coordinator

Technical University of Munich, Germany



AMEXCI, Sweden

Bavarian Research Alliance GmbH, Germany

BEAMIT Group, Italy





ΛΜΕΧΟΙ



Bavarian Research Alliance



Technion – Israel Institute of Technology, Israel

TU/e EINDHOVEN UNIVERSITY OF TECHNOLOGY



Eindhoven University of Technology,

The Netherlands

Institute of Metals and Technology, Slovenia

Oerlikon AM Europe GmbH, Germany

SILIOS Technologies, France









