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PULSATE Project: Activities and Opportunities for SMEs

June 8th, 2021 - Fotónica 21

Ambroise Vandewynckèle - AIMEN

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Fostering the PAN-European infrastructure for empowering SMEs digital competences in laser-based advanced and additive manufacturing

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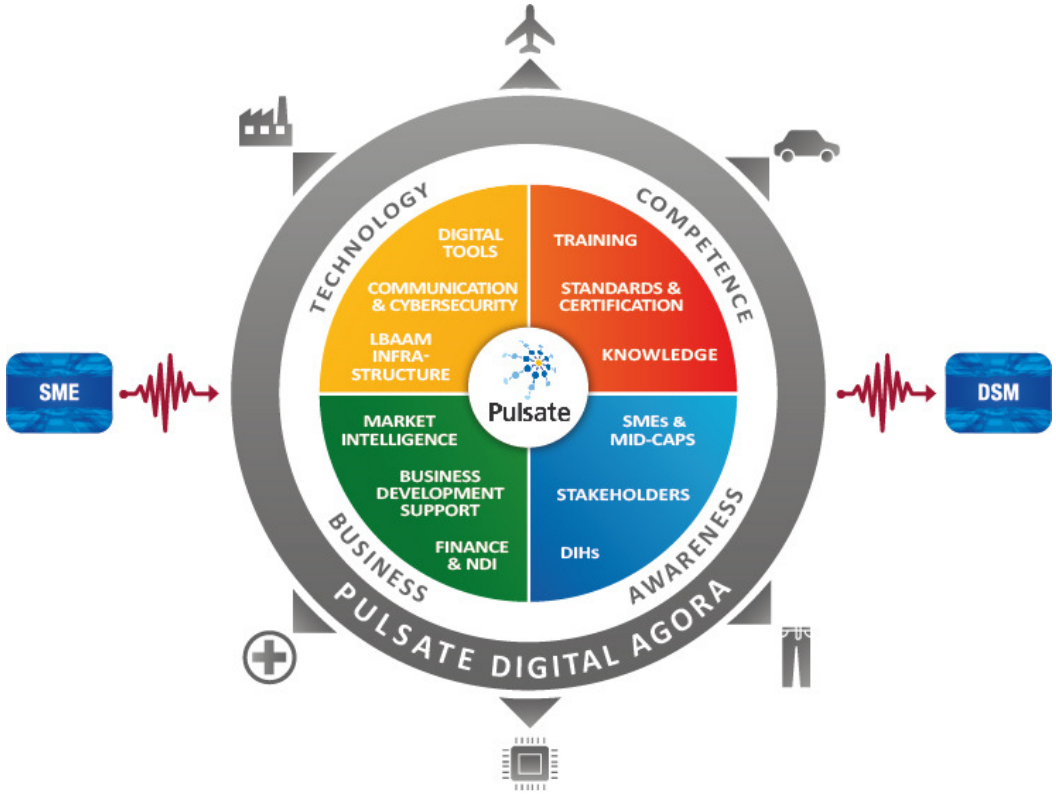
About PULSATE

PAN-European Network for Laser-Based Advanced and Additive Manufacturing

The main objective of PULSATE is to set up and consolidate a robust and open PAN European Network, sustainable beyond the project timeframe, to promote and facilitate the adoption of Laser-Based Advanced Additive Manufacturing (LBAAM) technologies by SMEs and Mid Caps.

The network will connect DIHs, top class Competence Centres, Public Institutions, Standardization Organizations, Financing and Business Development entities through a Single Entry Point.



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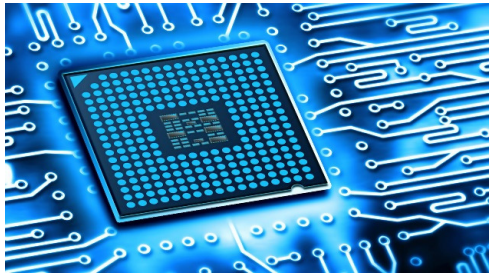
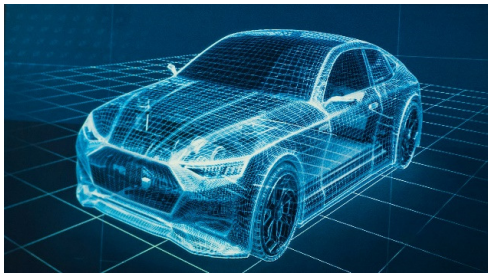
Revolutionising Markets

LBAAM provide maximal benefits towards flexible manufacturing and highly digitalized production environments

LBAAM technology is particularly beneficial for sectors like aerospace, automotive, medical devices, industrial machinery, customised electronics, and textiles & clothing.



Implementing Services

Through our PAN-European Network for Laser-Based Advanced and Additive Manufacturing PULSATE will:

- Mobilise at least 200 SMEs to participate in open calls:
  - 20 Technology Transfer Experiments (TTEs)
  - 42 Adopters Use Cases (AUCs)
- Consolidate technological and business offering by providing at least 5 LBAAM access to infrastructure, 4 software services and 8 business support services.
- Consolidate digital competency by offering a minimum of 6 digital maturity assessment and 6 LBAAM technology knowledge development services.
- Deliver at least 6 specific technical webinars, 2 info-days, 4 general webinars and 11 specific brokerage and matchmaking events.
- Deliver at least 30 courses offering on training in LBAAM and publish at least 20 training materials.
- Successfully deliver training to 1,000 trainees in LBAAM technologies.
- Achieve a minimum of 500 community members/ users and a wide catalogue of services.

Open Calls

Technology Transfer Experiments (TTEs)

First open call: February – April 2021

TTEs are focussed on the adoption of LBAAM technology in production environments. Consortia of technology providers with end-users are invited to apply with a goal to create prototype systems during the 13-month PULSATE Support Programme that includes:

- Technical and business mentoring
- Services provided by consortium partners
- Funding with up to 150k EUR funding per experiment

Adopter Use Cases (AUCs)

First open call: Q1 - 2022

AUCs are focussed on technical and/or economic feasibility assessment for the implementation of LBAAM technologies.

Selected SMEs will receive 3 months of support and funding with up to 25k EUR per adopter.

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Open Calls

	TECHNOLOGY TRANSFER EXPERIMENTS	ADOPTERS USE CASES
CALL LAUNCH	1ST: FEB 2021 2ND: Q2 2022	1ST Q1 2022 2ND Q2 2023
WHO CAN APPLY?	CONSORTIA: MINIMUM 2 SMES OR SLIGHTLY BIGGER (TECH PROVIDER AND END USER)	1 SME OR SLIGHTLY BIGGER (END USER)
SCOPE	DEVELOPING, TESTING AND VALIDATING THE TECHNICAL AND ECONOMIC VIABILITY OF NEW TECHNOLOGIES IN LBAAM	PERFORM A TECHNICAL/ECONOMIC FEASIBILITY STUDY FOR THE IMPLEMENTATION OF LBAAM TECHNOLOGY
NO. SELECTED PER CALL	10	21
FUNDING	UP TO 150.000 EUR	UP TO 25.000 EUR
DURATION OF SUPPORT PROGRAM	13 MONTHS	3 MONTHS

35 applications submitted to the first TTE Call

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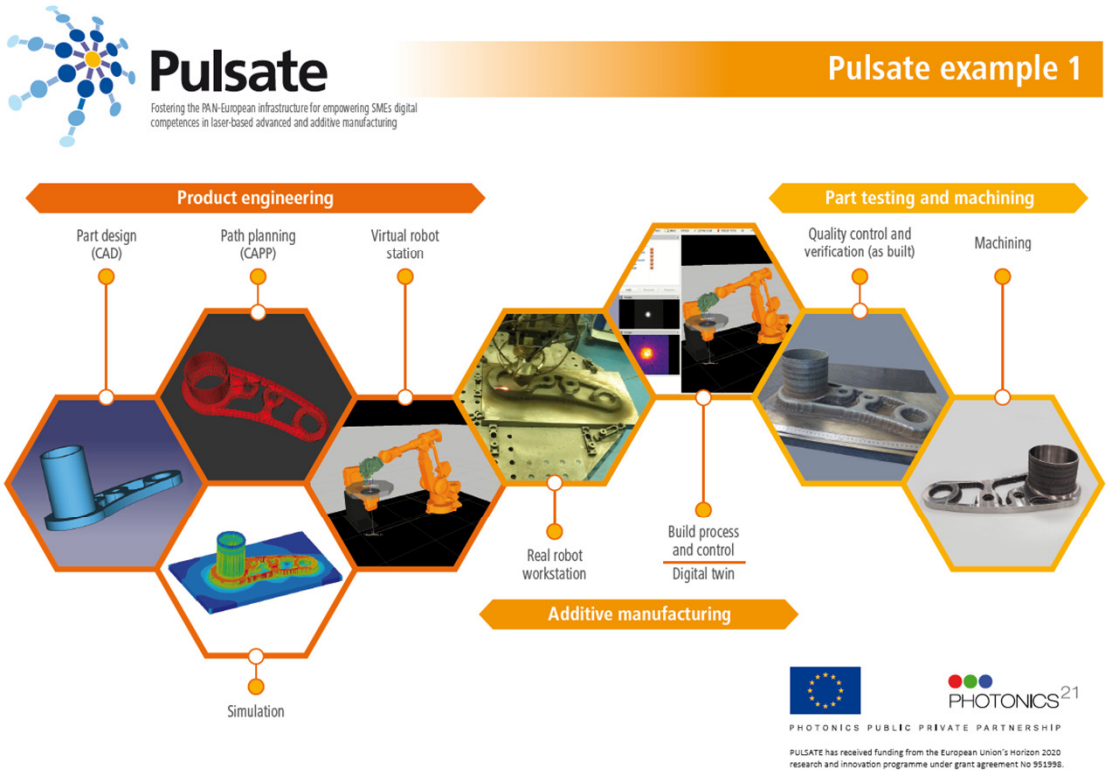
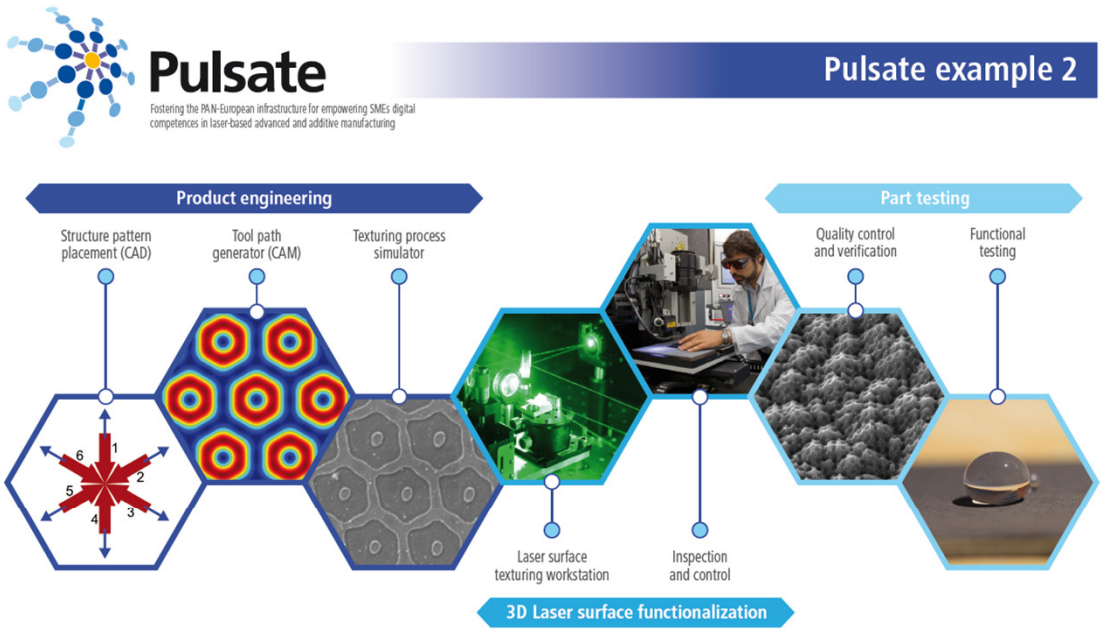
Best Practice Experiments

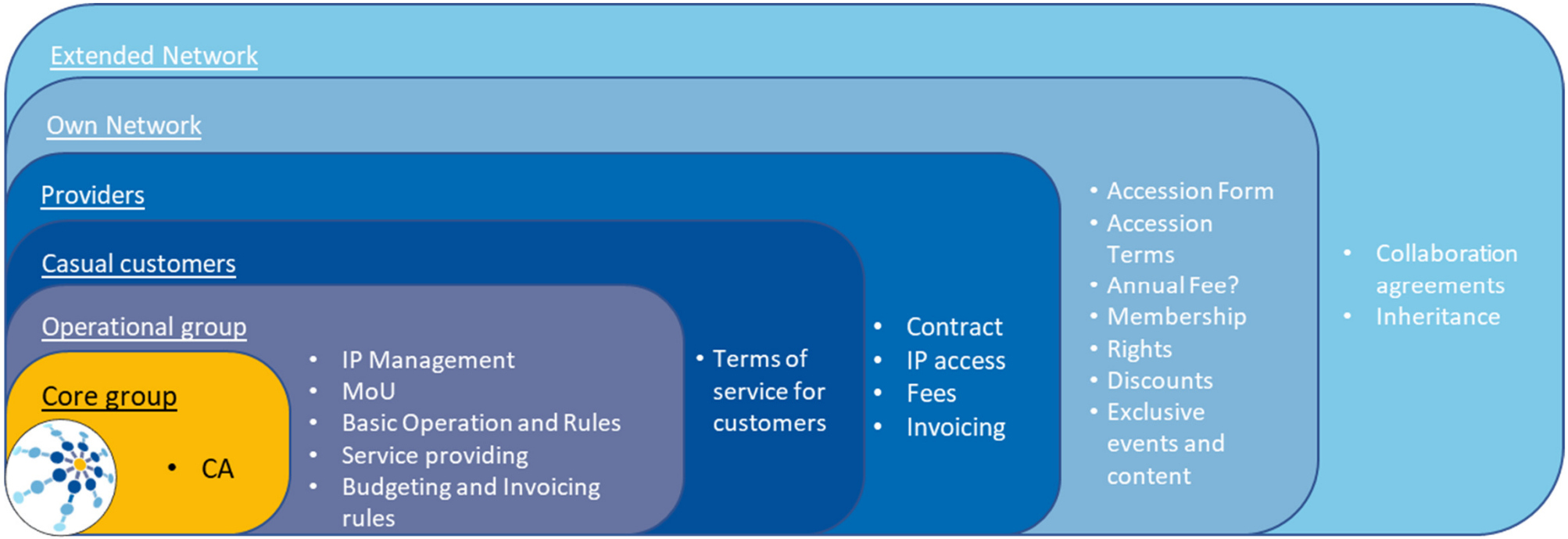




Expected structure

Multilevel engagement structure

Multiple contract and engagement levels



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About us

We are a strong consortium to support you with any need for implementing LBAAM technologies

aimen TECHNOLOGY CENTRE

SINTEF

cea

Fraunhofer IWS

CENTER FOR PHYSICAL SCIENCES AND TECHNOLOGY

mtc Manufacturing Technology Centre

FundingBox

EPIC European Photonics Industry Consortium

clergo

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