Follow us on Twitter:
@amable_eu

AMable

AMABLE – EUROPE'S FIRST I4MS DIGITAL INNOVATION HUB ON DIGITAL DESIGN FOR ADDITIVE MANUFACTURING

AMABLE – APPLICATION EXPERIMENTS

AMable will issue calls for proposals for innovative product ideas in Additive Manufacturing, the first is coming in the second quarter of 2018. Two will follow in consecutive years. They will allow legal entities with SME and mid-cap character to apply for funding and support from the consortium.

Application Experiments will be characterised in two classes: Feasibility Studies are short term experiments (3 – 6 months) which are focused to analyse and demonstrate the feasibility of developing new products or businesses. The Digital Design of those will be challenged by a decentralised and digital environment. Best Practice Experiments are seen as widespread application experiments (4 – 12 months) which are conceived for benchmarking, testing, validation and improvement of new AM products, services and standards.

Special conditions for these calls will apply, so stay tuned and watch us!

For further information please see: **www.amable.eu**
or follow us on Twitter: **@amable_eu**

CONTACT

projectoffice@amable.eu

PROJECT COORDINATOR

Fraunhofer Institute for Laser Technology ILT
Ulrich Thombansen
Telephone +49 241 8906-320
ulrich.thombansen@ilt.fraunhofer.de
www.ilt.fraunhofer.de

PROJECT PARTNER

aimen | CISCO | DANISH TECHNOLOGICAL INSTITUTE | EWF

Fraunhofer | FREDERICK RESEARCH CENTER | INTERNATIONAL DATA SPACES ASSOCIATION | inspire

Keen Bull | LMS Laboratory for Manufacturing Systems & Automation | IK4 LORTEK Research Alliance | mtc Manufacturing Technology Centre

POLITECNICO DI TORINO | sirris | Scuola universitaria professionale della Svizzera italiana SUPSI | TNO innovation for life

TWI | VTT | Politechnika Wrocławska | zabala innovation consulting

SERVICES ARENA

AM-related services for SMEs and mid-caps
Support from idea to finish for accelerated market uptake

DIGITAL DATA CHAIN

Industrial Dataspace for secure data exchange
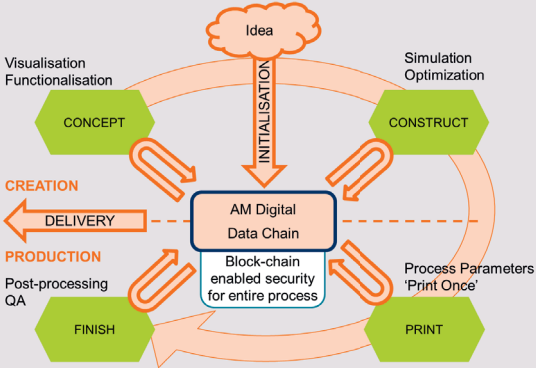Blockchain integration for continuous documentation

APPLICATION EXPERIMENTS

Competitive Calls in 2018, 2019 and 2020

QUALITY MANAGEMENT

FINISH

DESIGN FOR ADDITIVE MANUFACTURING

PRINT

CONSTRUCT

CONCEPT

AMable

Follow us on Twitter:
@amable_eu

SUPPORT THE UPTAKE OF AM

AMable supports SMEs and mid-caps in their individual uptake of additive manufacturing. Across all technologies from plastics through polymers to metals, AMable offers services that targets challenges for newcomers, enthusiasts and experts alike. Grouped along the value chain, four stages guide your idea to delivery.
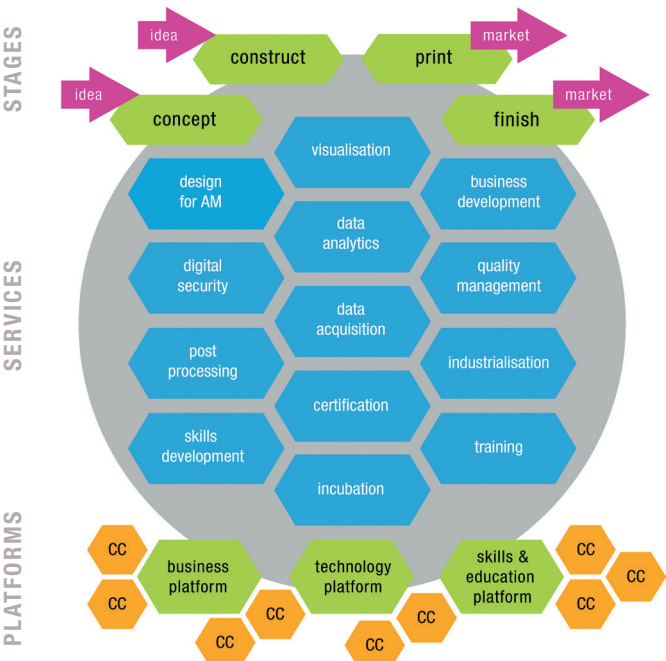
CONCEPT STAGE

The concept stage captures your product idea and assists in the development of suitable implementation scenarios. Visualisation through augmented and virtual reality (AR/VR) technology allows you in-depth discussions of features and functionalities. At this early stage, the AMable business-case-assessment-tool assists you with a first estimate of the economic viability of the envisioned product.

CONSTRUCT STAGE

At the construct stage, experts give you support on simulating product properties such as fluid dynamics or load cases. Topology optimisation as a service stands at the heart of an interlinked holistic approach to ensure the achievement of all expected properties.

PRINT STAGE

Once you have a fully assessed 3D model, you can print it wherever you like. The print stage supports data preparation and execution of critical prints. Data acquisition during production tracks progress and specifications.

FINISH STAGE

The finish makes your part ready for use. Your specifications at construct stage define the finish line, whether milling or grinding, testing or computer tomography is needed.

ENTRY POINTS

AMable is a flexible tool. Ideas either enter at concept or construct stage which depends on your requirements.

AMABLE – DIGITAL DATA CHAIN

AMable needs your data – you need the simulation results.
But you might not want to upload everything into a data cloud.

The AMabel Industrial Data Space (IDS) offers a solution. Industry grade authentication and hardware based data endpoint security keeps your data where you want it. You control when data is sent to an AMable connector, installed on your premises or on a partner's premise. That gives you and your customers room to concentrate on your business and not on the data management.

The AMable connector integrates not only with the Industrial Data Space but also connects you to the world of Blockchain technology (AMable Blockchain). You can tell your connector to create a digital fingerprint on your data at your premise and link this fingerprint into the AMable Blockchain. As easy as a mouse click, you can document the existence of your data without showing your data. This process enables you to document without publishing your files.

For further information please see: **www.amable.eu**
or follow us on Twitter: **@amable_eu**