

Box 1: Scope of targeted projects

The key 'eligibility' criteria for the '3DP Pilot Platform for Pitching and Implementing new cross regional projects' are the followings:

- AM-focused Demonstration project (i.e. the project deals with additive manufacturing-related applications and is focusing mainly on TRLs 6-8)
- Industry-relevant and industry-driven project (i.e. the project aims at addressing industry needs and the potential interest of private actors can be demonstrated)
- Cross-regional project (i.e. cross-regional cooperation is instrumental for the project being implemented: the cross-regional collaboration can take the form of combining expertise/equipment/services, co-investing in new assets, etc.)

Box 2: Process for newly proposed project ideas

Once an idea is submitted, the following steps will be taken:

- 'Project owner' will be invited to pitch their idea during the next plenary meeting (02.04.2020)
- Projects ideas will then be circulated to the network so that other regions and organisations can indicate their interest in co-developing the project.
- Project-dedicated actions (incl. action plan, identification of funding solutions, etc.) can then be launched with the support of Mikael and Jean-François (in cc.), if the industrial and cross regional interests are confirmed (see below for more detailed information about the expected outcomes of the action).
- Detailed 'assessments' of the projects and their potentials will be conducted throughout the process and fully realized by January 2021. This process will ultimately lead to:
 - The emergence of new demo cases, if the following criteria are being met for the new demo case:
 - The possibility to generate (through the possible new 'demo case') at least 10 distinct (i.e. with different companies) product/application-specific 'business' projects (unlike 'demo cases' these 'business cases', while still involving demonstration activities, are focusing on a single very specific application or product and are led by one or several companies);
 - The interest of at least 20% of regions participating in the Pilot;
 - Demonstrated relevant linkages with technology roadmaps (AM Motion, EFFRA, etc.).AND/OR
 - The integration of new projects into existing demo cases, when relevant linkages can be made;
AND/OR
 - The launch and implementation of specific industry-driven cross regional demonstration projects enabled by the 3DP Pilot and outside the scope of existing demo cases (e.g. if the scope of the proposed area is too specific to generate various product/application specific cases).

Possible linkages with existing demo cases will be assessed continuously. For projects that will not be integrated into existing demo cases and for which the aforementioned criteria are met, this might lead (among others) to the formal launch of new demo case(s) in the Pilot.

Box 3: The current list of demo cases that are under active development and the 5 new project ideas that were proposed in 2019

The following '**demo cases**' (technological-sectoral areas for joint-demonstration) are under active development.

1. Multi-materials components by hybrid 3D Printing manufacturing
2. Additive-subtractive high precision & high finish production (high-end metals)
3. Machinery and Tooling - Structural Parts with Complex Shapes
4. 3D-Printed large parts and complex shapes (mono-material) through emerging 3DP technologies
5. Healthcare - 3D-Printed customized components for orthosis, exoskeleton and exoprosthesis

The **thematic areas of the 5 emerging projects ideas** are described below.

6. Multi-material 3D printing: Structural integrated electronics in 3D printed parts
7. AM in the Built Environment
8. Efficient collaborative robot through 3D printing optimization
9. Innovative hybrid (subtractive /additive) manufacturing approach for repairing added value damaged objects
10. Provide a toolset for maintenance for 3DP and a training course for employees to do the maintenance