





Focus Group on additive manufacturing technologies for space applications

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Space economy is set to become one of the next big players in the world market. Will it develop its own manufacturing sector?





Co-funded by the European Union

Can in-situ additive manufacturing help reducing the load rockets have to lift to supply space stations and off-planet settlements?

Space factories



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The objective is to explore the role, comprehensive of challenges and opportunities, of additive manufacturing in off-planet applications

1. In-Space Closed Loop Additive Manufacturing and Additive Manufacturing Using **Recycled Materials.**





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Goal of the focus groups

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2. Additive manufacturing for the replacement of parts during orbit.





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1. In-Space Closed Loop Additive Manufacturing and Additive Manufacturing Using Recycled Materials

Possibility of using in-situ harvested resources for additive manufacturing applications.

Additive manufacturing as a catalyser for recycling in the space environment





Co-funded by the European Union Feasibility and technical challenges

Target parts to be additively manufactured

Target processes and materials





2. Additive manufacturing for the replacement of parts during orbit.

Economic benefit of bringing less spare parts to orbit as a result of insitu fabrication

Use of AM to manufacture spare parts needed for manteinance





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Target processes and materials

Feasibility and technical challenges

Target parts to be Addittively manufactured

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Benefits and opportunities for the participants

Participants are given the opportunity to recieve consulence and formation from more experienced professionals, which would greatly boost their curriculum and competences

It is a great opportunity to pull the network closer togheter. This is achieved by forming heterogeneous work teams, thus yelding increased interaction between members of different city-hubs.





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YML members working on this project get the chance to deepen their knowledge over the topics of the white paper.



The members get the chance to challenge themselves in an interesting project, further developing their skills of technical writing, paper analysis and teamwork.



