PARADDISE
Project ID: 723440
Financiado con arreglo a:
H2020-EU.2.1.1. - INDUSTRIAL LEADERSHIP - Leadership in enabling and industrial technologies - Information and Communication Technologies (ICT)

A Productive, Affordable and Reliable solution for large scale manufacturing of metallic components by combining laser-based ADDItive and Subtractive processes with high Efficiency

Desde 2016-10-01 hasta 2020-05-31, proyecto en curso | PARADDISE Sitio web

Detalles del proyecto

<table>
<thead>
<tr>
<th>Coste total:</th>
<th>Tema(s):</th>
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<td>EUR 3 761 402,50</td>
<td>FOF-13-2016 - Photonics Laser-based production</td>
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<th>Aportación de la UE:</th>
<th>Convocatoria de propuestas:</th>
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<td>EUR 3 761 402,25</td>
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<tr>
<td>Spain</td>
<td>RIA - Research and Innovation action</td>
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Objetivo

The overall objective of PARADDISE project is to rationalize, to structure and to make available to the stakeholders of manufacturing value chain the knowledge and the tools for combining two antithetical processes: Laser Metal Deposition (LMD) and Machining (milling and turning). The project will develop expert CAx technologies, smart components and monitoring and control systems tailored for the hybrid process in a cost-effective way and with structured knowledge about LMD process. The PARADDISE solution will offer a synergetic combination among: i) the high flexibility for the designs and for the materials to be used, the high material efficiency and the high savings in material resources and its associated costs of the LMD operations; and ii) the high accuracy, the high robustness and the high productivity of subtractive operations. The solution will be integrated in the ‘ZVH45/1600 Add+Process’ hybrid machine from IBARMIA manufacturer (PARADDISE partner), which is already available in the market as well as at TECNALIA’s facilities (PARADDISE coordinator). Thus, the PARADDISE project will conceive a process-machine-tools solution.

By means of this combined manufacturing process, large scale manufacturers of value-added metallic components will be able to achieve high quality and high productivity with a minimum use of material and energy resources when manufacturing those parts, which will lead to a reduction in manufacturing costs. In that way, the PARADDISE project intends to boost and to spread the use of Laser Metal Deposition (LMD) technology along the life cycle of value-adding metal components.

Información relacionada

<table>
<thead>
<tr>
<th>Informes resumidos</th>
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<tr>
<td>Periodic Reporting for period 1 - PARADDISE (A Productive, Affordable and Reliable solution for large scale manufacturing of metallic components by combining laser-based ADDItive and Subtractive processes with high Efficiency)</td>
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</tbody>
</table>
Coordinador

FUNDACION TECNALIA RESEARCH & INNOVATION  
PARQUE CIENTIFICO Y TECNOLOGICO DE BIZKAIA, ASTONDO BIDEA, EDIFICIO 700  
48160 DERIO BIZKAIA  
Spain  
See on map

Activity type: Research Organisations

Contact the organisation

Aportación de la UE: EUR 859 773,75

Participantes

IBARMIA INNOVATEK, S.L  
Pol. Ind. Etxesaga s/n  
20720 Azkoitia  
Spain  
See on map

Activity type: Private for-profit entities (excluding Higher or Secondary Education Establishments)

Contact the organisation

Aportación de la UE: EUR 392 766,25

SIEMENS AKTIENGESELLSCHAFT  
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Activity type: Private for-profit entities (excluding Higher or Secondary Education Establishments)

Contact the organisation

Aportación de la UE: EUR 678 905

PRECITEC GMBH & CO KG  
Draisstrasse 1  
76571 GAGGENAU  
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See on map

Activity type: Private for-profit entities (excluding Higher or Secondary Education Establishments)

Contact the organisation

Aportación de la UE: EUR 355 000

GKN AEROSPACE NORWAY AS  
KIRKEGARDSVEIEN 45  
3616 KONGSBERG  
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See on map

Activity type: Private for-profit entities (excluding Higher or Secondary Education Establishments)

Contact the organisation

Aportación de la UE: EUR 407 812,50
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**Activity type:** Private for-profit entities (excluding Higher or Secondary Education Establishments)

Contact the organisation

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**Última actualización el** 2019-06-10

**Obtenido el** 2019-07-19

**Enlace permanente:** [https://cordis.europa.eu/project/rcn/205478_en.html](https://cordis.europa.eu/project/rcn/205478_en.html)

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