

Joining in Research Programming

Joining Sub-Platform 5th G. A.
EC Madou Building, Brussels – November 20th, 2015
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Process for defining calls

Indicative Timing:

- Preparation of foresight evidence (Sept. year Y-3)
- ***Scoping papers*** drafted year Y-2 (Jan-Jun: consultation phase / Sep.-Dec.: Finalisation + PC view)
- Jan.-May year Y-1: preparation of ***draft WP*** parts
- Jun.-Jul. Year Y-1: Inter-service activities
- End July Year Y-1: PC
- Early Autumn (Sept.): adoption of ***WP***

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Dialogue

- Direct advisory document (priorities)
- Joining is in Manufuture
- Representativeness

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Work programme 2016-2017

FOF-01-2016: Novel hybrid approaches for additive and subtractive manufacturing machines

FOF-02-2016: Machinery and robot systems in dynamic shop floor environments using novel embedded cognitive functions

FOF-03-2016: Zero-defect strategies at system level for multi-stage manufacturing in production lines

FOF-04-2016: Continuous adaptation of work environments with changing levels of automation in evolving production systems

FOF-05-2016: Support for the further development of Additive Manufacturing technologies in Europe

FOF-06-2017: New product functionalities through advanced surface manufacturing processes for mass production

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Work programme 2016-2017

FOF-07-2017: Integration of unconventional technologies for multi-material processing into manufacturing systems

FOF-08-2017: In-line measurement and control for micro-/nano-enabled high-volume manufacturing for enhanced reliability

FOF-09-2017: Novel design and predictive maintenance technologies for increased operating life of production systems

FOF-10-2017: New technologies and life cycle management for reconfigurable and reusable customised products

FOF-07-2017: Integration of unconventional technologies for multi-material processing into manufacturing systems

- *[…](water jet, ultrasonic and micro-wave electron beam welding and/or electro discharge machining, laser and photopolymerisation) […]*

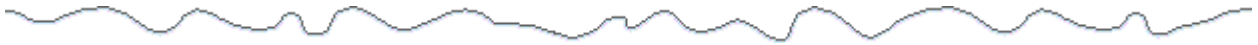
  The integration of the above-mentioned unconventional manufacturing technologies into the process chain may be complemented with processes such as thermal treatment, in-process inspection and control, stress- relieving, micro-structural improvements, machining and joining.[…]

NMBP-08-2016: Affordable weight reduction of high-volume vehicles and components taking into account the entire life-cycle

- *[…] Furthermore, materials engineering should address corrosion, thermal expansion, joining (e.g. bonding, riveting, friction-stir based technologies, etc.) and recycling issues of multi-material designs […]*
- *Manufacturing engineering […] moving towards new approaches specific for new materials, including cost-effective multi-material joining technologies […]*

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Thank You !



Research and Innovation