

## ***I finanziamenti dell'UE per Industria 4.0***

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**L'Unione europea supporta la transizione verso l'Industria 4.0** attraverso una serie di politiche mirate e di finanziamenti specifici che aiutino le imprese in questo passaggio e che soprattutto le rendano consapevoli di quanto questa “rivoluzione digitale” sia necessaria e possa apportare benefici concreti lungo l'intera catena produttiva.

Lo strumento principale che l'Unione europea mette in campo è il **programma quadro per la ricerca innovazione Horizon 2020** che mette a disposizione circa 80 miliardi di euro nel periodo 2014 – 2020. Secondo le stime della Commissione circa 7 miliardi verranno impegnati nei prossimi anni su tematiche afferenti all'Industria 4.0, queste risorse saranno parte del più ampio Piano di Azione per la digitalizzazione dell'industria recentemente lanciato dalla CE.

La gran parte delle risorse allocate da Horizon 2020 per Industria 4.0 si trovano all'interno del pilastro “Leadership Industriale” e sono gestite dalla Direzione Generale Connect.

Alcune importanti iniziative per il supporto alla digitalizzazione dell'industria sono già in corso da alcuni anni e vedono una importante partecipazione di attori italiani.

In particolare è attivo dal 2014 il **partenariato pubblico-privato Factories of the Future (FoF)** che, attraverso una collaborazione strategica fra Commissione europea, industria e ricerca, mira a supportare l'industria manifatturiera europea, in particolare le PMI, al fine di sviluppare le tecnologie abilitanti necessarie a mantenere alta la competitività. Questa PPP è dotata di un **budget di 1,5 miliardi di euro** per il periodo 2014-2020. La Germania, la Spagna e l'Italia sono stati tra i maggiori beneficiari di questi fondi per il primo biennio 2014-2015.

Un'altra iniziativa lanciata nell'ambito del Settimo Programma Quadro e continuata anche in Horizon 2020 è **ICT Innovation for Manufacturing SMEs (I4MS)** che **supporta le PMI e le mid-cap nella trasformazione digitale**, soprattutto nei settori del *cloud computing*, della robotica e delle simulazioni.

Nel corso del 2017 verranno pubblicati diversi bandi su tematiche relative a Horizon 2020, la Commissione europea sta inoltre già lavorando sui programmi di lavoro di Horizon 2020 per il periodo 2018-2020.

TOPIC		Types of action	
Big Data PPP	<a href="#">ICT-14-2016-2017 Big Data PPP: cross-sectorial and cross-lingual data integration and experimentation</a>	IA Innovation action	<b>Planned opening date:</b> 08 December 2016 <b>Deadline:</b> 25 April 2017 17:00:00
	<a href="#">ICT-15-2016-2017 Big Data PPP: Large Scale Pilot actions in sectors best benefitting from data-driven innovation</a>	IA Innovation action	<b>Planned opening date:</b> 08 December 2016 <b>Deadline:</b> 25 April 2017 17:00:00
	<a href="#">ICT-16-2017 Big Data PPP: research addressing main technology challenges of the data economy</a>	RIA Research and Innovation action	<b>Planned opening date:</b> 08 December 2016 <b>Deadline:</b> 25 April 2017 17:00:00
	<a href="#">ICT-17-2016-2017 Big Data PPP: Support, industrial skills, benchmarking and evaluation</a>	RIA Research and Innovation action	<b>Planned opening date:</b> 08 December 2016 <b>Deadline:</b> 25 April 2017 17:00:00
Technologies for Creative Industries	<a href="#">ICT-20-2017 Tools for smart digital content in the creative industries</a>	RIA Research and Innovation action	<b>Planned opening date:</b> 08 December 2016 <b>Deadline:</b> 25 April 2017 17:00:00
Robotics and Autonomous Systems, Robotics PPP	<a href="#">ICT-25-2016-2017 Advanced robot capabilities research and take-up</a>	IA Innovation Action, RIA Research and Innovation action	<b>Planned opening date:</b> 08 December 2016 <b>Deadline:</b> 25 April 2017 17:00:00
	<a href="#">ICT-27-2017 System abilities, SME &amp; benchmarking actions, safety certifications</a>	IA Innovation Action, PCP Pre-Commercial Procurement, RIA Research and Innovation action	<b>Planned opening date:</b> 08 December 2016 <b>Deadline:</b> 25 April 2017 17:00:00
	<a href="#">ICT-28-2017 Robotics Competition, coordination and support</a>	CSA Coordination and support action	<b>Planned opening date:</b> 08 December 2016 <b>Deadline:</b> 25 April 2017 17:00:00
Photonics PPP	<a href="#">ICT-30-2017 Photonics KET 2017</a>	CSA Coordination and support action, IA Innovation Action, RIA Research and Innovation action	<b>Planned opening date:</b> 08 December 2016 <b>Deadline:</b> 25 April 2017 17:00:00
Micro-Nano Electronics	<a href="#">ICT-31-2017 Micro- and nanoelectronics technologies</a>	CSA Coordination and support action, IA Innovation Action, RIA Research and Innovation action	<b>Planned opening date:</b> 08 December 2016 <b>Deadline:</b> 25 April 2017 17:00:00
Factories of the Future - Innovation for Manufacturing SMEs	<a href="#">FOF-12-2017 ICT Innovation for Manufacturing SMEs (I4MS)</a>	CSA Coordination and support action, IA Innovation Action	<b>Planned opening date:</b> 20 September 2016 <b>Deadline:</b> 19 January 2017 17:00:00

	<b>FOF-06-2017</b> <a href="#">New product functionalities through advanced surface manufacturing processes for mass production</a>	RIA Research and Innovation action	<b>Planned opening date:</b> 20 September 2016 <b>Deadline:</b> 19 January 2017 17:00:00
	<b>FOF-07-2017</b> <a href="#">Integration of unconventional technologies for multi-material processing into manufacturing systems</a>	RIA Research and Innovation action	<b>Planned opening date:</b> 20 September 2016 <b>Deadline:</b> 19 January 2017 17:00:00
	<b>FOF-08-2017</b> <a href="#">In-line measurement and control for micro-/nano-enabled high-volume manufacturing for enhanced reliability</a>	IA Innovation action	<b>Planned opening date:</b> 20 September 2016 <b>Deadline:</b> 19 January 2017 17:00:00
	<b>FOF-09-2017</b> <a href="#">Novel design and predictive maintenance technologies for increased operating life of production systems</a>	IA Innovation action	<b>Planned opening date:</b> 20 September 2016 <b>Deadline:</b> 19 January 2017 17:00:00
	<b>FOF-10-2017</b> <a href="#">New Technologies and life cycle management for reconfigurable and reusable customised products</a>	IA Innovation action	<b>Planned opening date:</b> 20 September 2016 <b>Deadline:</b> 19 January 2017 17:00:00
<b>Internet of Things</b>	<b>IoT-03-2017</b> <a href="#">R&amp;I on IoT Integration and platforms</a>	RIA Research and Innovation action	<b>Planned opening date:</b> 08 December 2016 <b>Deadline:</b> 25 April 2017 17:00:00
<b>Customised and Low-power Computing</b>	<b>ICT-05-2017</b> <a href="#">Customised and low energy computing (including Low power processor technologies)</a>	CSA Coordination and support action, RIA Research and Innovation action	<b>Planned opening date:</b> 08 December 2016 <b>Deadline:</b> 25 April 2017 17:00:00
	<b>ICT-11-2017</b> <a href="#">Collective Awareness Platforms for Sustainability and Social Innovation</a>	CSA Coordination and support action, IA Innovation action	<b>Planned opening date:</b> 08 December 2016 <b>Deadline:</b> 25 April 2017 17:00:00
<b>Digital Security</b>	<b>DS-06-2017</b> Cybersecurity PPP: Cryptography	RIA Research and Innovation action	<b>Planned opening date:</b> 08 December 2016 <b>Deadline:</b> 25 April 2017 17:00:00
	<b>DS-07-2017</b> Cybersecurity PPP: Addressing Advanced Cyber Security Threats and Threat Actors	IA Innovation action, RIA Research and Innovation action	<b>Planned opening date:</b> 01 March 2016 <b>Deadline:</b> 24 August 2017 17:00:00
	<b>DS-08-2017</b> Cybersecurity PPP: Privacy, Data Protection, Digital Identities	IA Innovation action	<b>Planned opening date:</b> 01 March 2016 <b>Deadline:</b> 24 August 2017 17:00:00