

**Programme:** EU-HORIZON 2020 Industrial leadership - 2014-2020

**Call:**

DT-SPIRE-11-2020

Call name:INDUSTRIAL SUSTAINABILITY | Call ID:H2020-NMBP-ST-IND-2018-2020

**Topic/s:**

Process Industries are becoming increasingly digitised. The development of devices, sensors and actuators, connected through the internet of things, allows machines to acquire capabilities such as identifying and optimising solutions, or making complex decisions. Enormous amounts of data are being generated but are typically exploited locally, for a unique purpose. Artificial intelligence (AI) is acknowledged as a key enabling technology but its actual potential is much more vast than the current state of the art in industrial applications suggest.

**Scope:**

The Coordination and Support Action should identify, based on a mapping of digital technologies in process industries and their level of penetration, which specific AI- and big data technologies are most relevant, and what are, or could be, the most relevant application cases and/or pilots in process industry. A roadmap should be developed for all the different sectors in the process industries to take full advantage of AI and big data and give clear and pragmatic recommendations for researchers, managers, and operators planning to harness their potential.

The roadmap should explore, inter alia, actions on:

Research and innovation management, planning, and design (e.g. new chemical synthesis strategies, health and safety assessments);

Process control: yield and accuracy enhancement;

Supply chain management and scheduling of connected processes, plants and/or sites (e.g. for industrial symbiosis), process flexibility;

Predictive maintenance;

Product customisation and product traceability.

**AG1 priority fields:** Advanced Manufacturing; ICT

**Call Budget:** 600000,00€

Co-funding type:

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**Opening date:** 03 Jul 2019

**Deadline date:** 05 Feb 2020

**Call presentation and documents:** <https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/opportunit...>