

DIGITIZED OPERATIONS for SUSTAINABLE PROCESS INDUSTRIES

PATHWAY TOWARDS INDUSTRY

4.0



The objective of the workshop is to present the EU perspective on digitized operations in process industries and to focus on plant-wide monitoring and control of data-intensive processes i.e., the scope of [SPIRE-02-2016](#) projects i.e., [MONSOON](#), [COCOP](#), [CoPro](#) e [Fudipo](#).

First, the vision on digitization in sustainable process industries will be presented by Dr. Martin Winter (Cefic Innovation - SPIRE PPP Advisory Group & Digital Technologies, **A.SPIRE**), introducing the SPIRE 2050 vision. Then, Maurizio Gattiglio (Prima Electro – Past Chairman and Member of Board of Directors, **EFFRA**) will introduce the Factory of the Future's vision on digitization and the perspective towards Horizon Europe.

The four SPIRE-02-2016 projects will later present major objectives, challenges and outcomes. A specific focus will be put on **MONSOON** project that will introduce and showcase the developed framework supporting online monitoring, predictive approaches and on-line life-cycle management. While the presented solutions are being and have been validated in process industry sectors, they could be relevant also for other sectors, including the manufacturing industry. The workshop will include also a **poster session** where projects working on digitized operations in industry environment will present visions and results. The event will end with a **panel** session aiming to discuss about chances and challenges of fully digitized operations in process industries and similarities with manufacturing scenarios.

Workshop Organization Committee:

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Venue:

Energy Center - Politecnico di
Torino

Via Paolo Borsellino 38/16
10138 Torino

Date:

20th September 2019
9:00 – 17:30





Programme of the Workshop

Venue: Energy Center – Politecnico di Torino, Turin, ITALY

Date: 20th September 2019, 9:00 – 17:30

Time	Topic	Speaker
9:00	Registration	
9:30	<i>Welcome</i>	Marco Mezzalama (President of LINKS Foundation)
9:40	<i>Overview of the workshop</i>	Claudio Pastrone (LINKS Foundation)
9:45	<i>SPIRE Vision and Roadmap 2050 – Towards a Digital Process Industry</i>	Martin Winter (Cefic Innovation – SPIRE PPP Advisory Group & Digital Technologies, A.SPIRE)
10:10	<i>Overview of EFFRA vision on digitization and perspective towards Horizon Europe</i>	Maurizio Gattiglio (Prima Electro S.p.A. – Past Chairman and Member of Board of Directors, EFFRA)
10:35	<i>Introduction of SPIRE-02-2016 projects – Objectives and main outcomes</i>	
10:40	MONSOON – MOdel-based coNTrol framework for Site-wide OptimizatiON of data-intensive processes	Claudio Pastrone (LINKS Foundation)
11:10	<i>COFFEE BREAK</i>	
11:30	CoPro – Coordinated Production for Better Resource Efficiency	Sebastian Engell (TU Dortmund)
12:00	COCOP – Coordinating Optimisation of Complex Processes	Matti Vilkkö (Tampere University)
12:30	FUDIPO – FUture DIREctions of production Planning and Optimized energy- and process industries	Carlos Leyva Guerrero (IDENER)
13:00	<i>LUNCH BREAK</i>	
14:00	<i>Poster Session</i> An elevator pitch for each poster will be presented	Matti Vilkkö (Tampere University)
15:00	<i>MONSOON outcomes, lessons learned and Demo Sessions</i>	MONSOON Consortium
16:30	<i>Panel Session</i> <i>Next steps towards fully digitized operations in process industry and similarities with manufacturing scenarios</i> <i>Panel Members:</i> André Augé (Rio Tinto/ European aluminium), Maurizio Gattiglio (Prima Electro S.p.A. – Past Chairman and Member of Board of Directors, EFFRA), Matti Vilkkö (Tampere University), Martin Winter (Cefic Innovation – SPIRE PPP Advisory Group & Digital Technologies, A.SPIRE)	Sebastian Engell (TU Dortmund)
17:20	Wrap up and Conclusion	