INDTECH2018
Innovative industries for smart growth

29-31 October, 2018

Vienna, Austria

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PILLAR 1

Session 1.1

ENABLING CROSS-SECTORIAL INDUSTRIAL SYMBIOSIS

Bringing together the steel, cement, chemicals, minerals and engineering sectors enabling cross-sectorial Industrial Symbiosis to become more efficient and sustainable.

Prof.dr.ir. Greet Van Eetvelde

INEOS Group AG

Ghent University

30 October 2018

SPIRE
Sustainable Process Industry through
Resource and Energy Efficiency

ENABLE CROSS-SECTORIAL INDUSTRIAL SYMBIOSIS

Sustainable Process Industry through Resource and Energy Efficiency

TOPIC : Energy and resource management systems for improved efficiency in the process industries

Topic identifier:	SPIRE-06-2015
Publication date:	11 December 2013
Types of action:	RIA Research and Innovation action
DeadlineModel:	single-stage
Opening date:	22 October 2014

Deadline: 04 February 2015 17:00:00

make process industry

- more efficient
- more cost-effective
- more competitive and
- more sustainable

across process sectors

via symbiosis

- on process industry sites
- in cross-sectorial clusters

FFG Promoting Innovation.

Federal Ministry Republic of Austria Transport, Innovation and Technology

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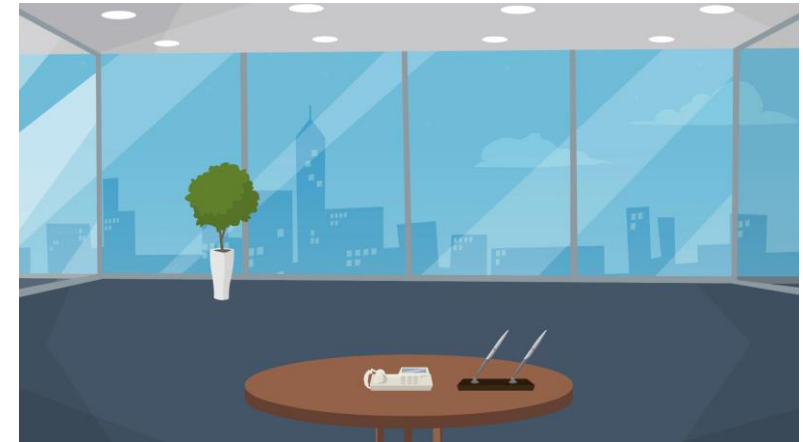# PROCESS INDUSTRY DRIVE

across companies & sectors

- (more than) SPIRE sectors

- (plus) SMEs & unis

- industrial & distict clusters

industry approach to

- validate IS in process industry

- develop IS tools & standards

- generate impact in Europe

EPOS **animation**
SYMBIOSIS IN INDUSTRY
www.spire2030.eu/epos

FFG
Promoting Innovation.

Federal Ministry
Republic of Austria
Transport, Innovation
and Technology

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HOW TO MAKE IS HAPPEN?

• facility **clustering** • conference rooms • infrastructure • pipelines • tanks • equipement • machines • **utilities** • logistics • purchasing • catering • open days • personnel • job fairs • reception ... panels & se... ... ... game contr... ... curity guards • video surveillance • site ... ... • window cleaners ... building, road & green **maintenance** • water treatment • **waste** collection • storage facilities • waste streams • waste heat • byproducts • **CCUS** • resou **wish** ... raw ma **need** ... • **duty** ... ...wables • **energy** • electricity • grid mgt • VPP • transport service society parking dustcar pooling policy• fitness rooms • running tracks • **CSR** • site shops • post office • nursery • **catering** • restaurants •