

# TEMPLATE

## Output factsheet: Tools

Version 1

<b>Project index number and acronym</b>	CE1492 4STEPS
<b>Lead partner</b>	CNA Emilia Romagna
<b>Output number and title</b>	OT.1.1 Transnational catalogue of I4.0 towards SMEs support
<b>Responsible partner (PP name and number)</b>	PP6 Pannon Business Network
<b>Project website</b>	<a href="https://www.interreg-central.eu/Content.Node/4STEPS.html">https://www.interreg-central.eu/Content.Node/4STEPS.html</a>
<b>Delivery date</b>	August 2020

### Summary description of the key features of the tool (developed and/or implemented)

In the framework of the WPT1 of the project, project partner- has jointly and successfully developed nine deliverables, three deliverables in each three activities. In Act 1.1, 355 SMEs were involved in partnership level and with the help of a commonly agreed transnational tool (online questionnaire) their current level of adaptation to I4.0 themes, their needs in relation with the nine technologies of I4.0, as well as additional digitization enabling factors were also measured. Following the finalisation of SME involvement, every partner was preparing separate mapping reports (D.T1.2.1) based on the results of their own SME involvement in their regions, following the common report structure approved by the partnership. PBN as WPT1 Leader has prepared the Transnational Report presenting a comprehensive picture about all SME results in the partnership. The involved companies were clustered at transnational level, (5 clusters were established) in order to define common needs and functional requirements in relation to the 9 pillars.

PBN with the contribution of all PPs has compiled a transnational catalogue which intended to collect the possible services provided by PPs in relation with Industry 4.0. The Catalogue- involved the supporting services by PPs- is available to companies so that they can find a correlation between their need of innovation and the 9 technologies of Industry 4.0.

In the last activity of WPT1, the partnership jointly set up and defined the TML (Transnational Maturity Level) index composed by a set of indicators (6 dimensions) in order to evaluate the level of innovation of those companies which had taken part in the SMEs check-up implementation. Following the integration of the joint TML index to the CRM system, partners have chosen 10 companies, so 70 companies all together, to which the TML would be applied.

The results of the chosen companies were compared to the 4STEPS sample at each TML dimension and this comparison was detailed in a report at transnational level.

### NUTS region(s) where the tool has been developed and/or implemented (relevant NUTS level)

The transnational supporting tool catalogue (D.T1.3.1) was compiled by project partners from the following NUTS regions:

NUTS0	NUTS1	NUTS2	NUTS3
ITALY	ITH-Nord-Est	ITH5-Emilia Romagna	ITH55-Bologna
POLAND	PL2- MAKROREGION POŁUDNIOWY	PL22-Śląskie	PL225 -Bielski
AUSTRIA	AT3-WESTÖSTERREICH	AT34-Vorarlberg	AT342-Rheintal- Bodenseegebiet
CZECH REPUBLIC	CZ0- ČESKÁ REPUBLIKA	CZ05-Severovýchod	CZ051-Liberecký kraj
HUNGARY	HU2-Dunántúl	HU22-Nyugat-Dunántúl	HU221- Győr-Moson- Sopron
SLOVENIA	SI0- SLOVENIJA	SI02-Zahodna Slovenija	SI023-Goriška
GERMANY	DE1- BADEN- WÜRTTEMBERG	DE11-Stuttgart	DE116- Rems-Murr-Kreis

Of course, the described information in the tool might be useful for companies from other EU NUTS regions as well.

## Expected impact and benefits of the tool for the concerned territories and target groups

Taking every PPs' contribution into account, it can be stated that project partners of 4STEPS are rather experienced in the field of utilisation of technological pillars, as well as they have a wide connection network with Industry 4.0 related institutions. As a result, the inputs of partners in each chapter, might contribute to support SMEs, who can find a correlation between their needs of innovation and the contents of I 4.0, as well as they can match their Industry 4.0 demand with the services offered by PPs with the help of the supporting Catalogue.

This Supporting Catalogue tool is useful to improve the level of innovation, business and economic development in all the central Europe countries and beyond, identifying the most suitable solutions options for the companies interested in I4.0 pillars application.

## Sustainability of the tool and its transferability to other territories and stakeholders

The catalogue intends to collect the possible services provided by PPs in relation with the nine technologies of I4.0 (Big Data, Augmented Reality, Simulation, Internet of Things, Cloud Computing, Cyber Security, System Integration, Additive Manufacturing, Autonomous Systems).

Due to the comprehensive transnational supporting tool companies (not only in PPs' regions) will have the opportunity to improve the level of innovation, business and economic development in all the central Europe countries and beyond, identifying the most suitable solutions options for the companies interested in I4.0 applications.

Similar extensive description of other partners and institutions (especially ones who are advanced in digitization and I4.0) might be useful, since the beneficiaries (mainly SMEs) would have the possibility to get to know experienced institutions and their level of digitization might be improved thanks to the cooperation.

## Lessons learned from the development/implementation process of the tool and added value of transnational cooperation

In the beginning of the preparation of the supporting tool the partnership jointly agreed on the structure of the catalogue, which was useful because every PP knew which information and in what extent were required.

During the preparation of the transnational catalogue, some technical details turned out which had to be discussed with the respective partners, and other options had to be found in order they could provide information which might be useful for companies.

e.g:

- Partners' competences are diverse
- Certainly one partner does not have competence in each 9 I4.0 pillar
- Some partners are more competent than the others in some fields

Taking into consideration partners' contribution in all chapters, it can be unequivocally stated that 4STEPS PPs are experienced not only in the utilisation of I4.0 technological pillars, but also the respective chapters also highlighted that they have established a wide range of network with relevant stakeholders, including S3 policy stakeholders, DIHs.

The Catalogue has shed light on, that project partners are really experienced and have advanced knowledge in most of the Industry 4.0 technological pillars but mainly additive manufacturing and simulation might be addressed, since most of the partners are dealing with, and have advanced knowledge in these areas. The Catalogue has revealed that the short-term aims of project partners are to widen their expertise in the technological pillars, they are currently operating, as well as they are planning to start activities in other fields as well.

### References to relevant deliverables and web-links If applicable, pictures or images to be provided as annex

The catalogue is available at the project web site

[https://www.interreg-central.eu/Content.Node/4STEPS.html#I4.0\\_supporting\\_tool\\_catalogue](https://www.interreg-central.eu/Content.Node/4STEPS.html#I4.0_supporting_tool_catalogue)

The deliverables linked are:

D.T1.1.1 Identification of the companies of the RIS3

D.T1.1.2 Definition of the transnational tool for the analysis

D.T1.1.3 SMEs check-up Implementation




D.T1.2.1 Mapping Report the 9 elements of Industry 4.0 compared to SMEs need in each RIS3 region

D.T1.2.2 Transnational SMEs of the RIS3 clustering in relation to the 9 I.4. pillars









All topics

- 1. 4steps I4.0 suppo...
- 2. General Introducti...
- 3. Partners compet...
- 4. Partners planned...
- 5. Partners services...
- 6. Connections with...

## 1. 4steps I4.0 supporting tool catalogue ⋮

-  Introduction of the project Edited 15 May
-  Short summary of SME involvement on tran... Edited 15 May
-  Objective of this current Supporting Catalo... Posted 15 May

## 2. General Introduction of the project partners ⋮

-  CNA Emilia Romagna Edited 15 May
-  RE:Lab s.r.l. Edited 15 May
-  Regional Development Agency Bielsko-Biala Edited 15 May
-  Vorarlberg University of Applied Sciences Edited 15 May
-  DEX Innovation Centre Edited 15 May
-  Pannon Business Network Association Edited 15 May
-  Chamber of Commerce of Slovenia Edited 15 May
-  Virtual Dimension Center Edited 15 May

## 3. Partners competences and services in I4.0 ⋮

-  Autonomous robots Edited 15 May

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Screenshot 1 of the Google Classroom of the Transnational Supporting tool Catalogue