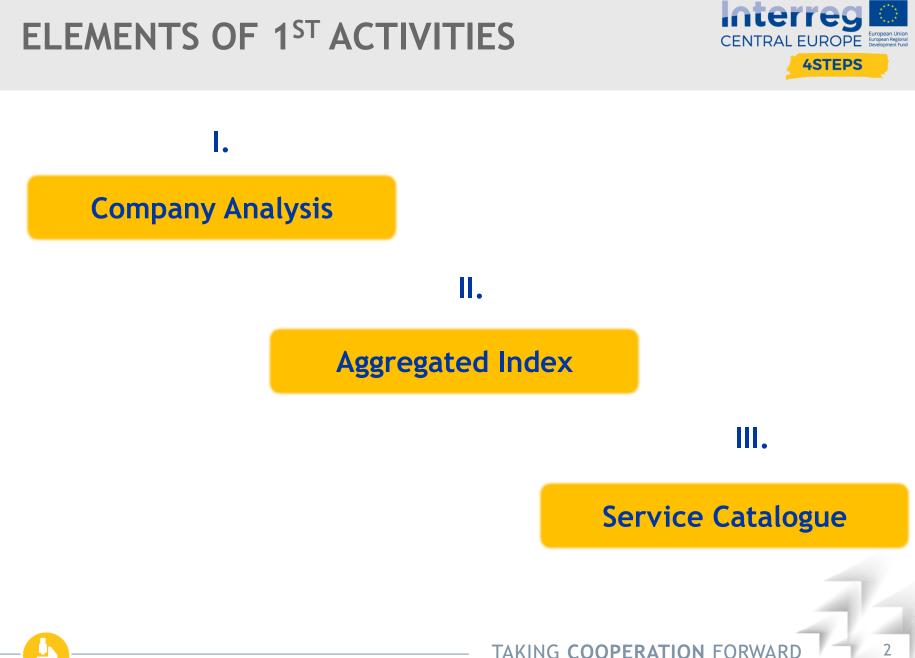


TAKING COOPERATION FORWARD

Szombathely, 4STEPS Conference

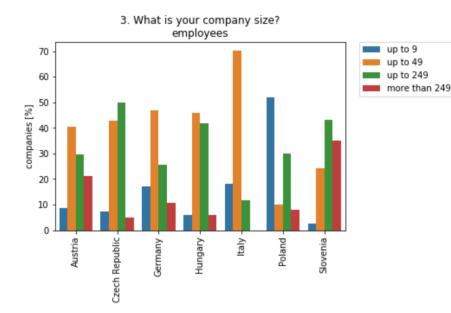
Transnational analysis with catalogue

Pannon Business Network - PBN



II. Company Analysis - General Statistics





• 355 SMEs from 7 countries

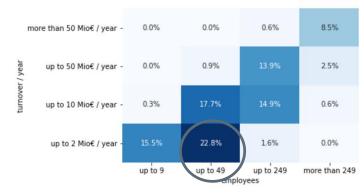
- 36% from metal & machinery
- Underperforming 10-49 employees
 overrepresented

Sector of your company

Significant variance by country

	Sector of your company								
Metal products, except machinery -	7	14	9	34	50	8	8	130	
Machinery and equipment -	9	12	14	7	2	8	9	\mathbf{V}	
Computer programming, consultancy and related activities -	12	3	25	0	0	3	2	45	
Automotive -	2	8	3	0	3	10	13	39	
Electrical equipment -	4	2	5	1	5	0	17	34	
Total -	34	39	56	42	60	29	49	309	1
	Austria -	Czech Republic -	Germany -	Hungary -	Italy -	Poland -	Slovenia -	Total -	

turnover / year - employees



I. Company Analysis - Correlations



Total Staff in R&D office

up to 9

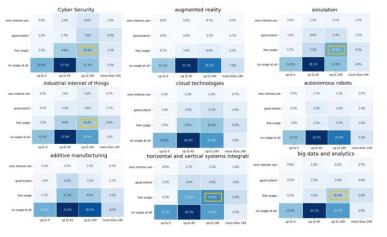
up to 49

up to 249

- **3 sources of innovation** customer/supplier; R&D office; technical office
- **Customer** is the driver for new services for smaller companies versus internal driver for larger businesses
- **Limited current adaptation** in 9 digitalization areas
- Intended development in IIoT, simulation and big data analytics
- New customers, new markets and agile production are motives

Cyber Security, AR, simulation, IIoT, cloud, autonomous robots, additive manufacturing, system integration, big data analytics

	Source of new services developed						
No development implemented -		4.2%		0.85%		23%	
Other (please state) -	4.3%	1%	3%		0.74%	1.3%	1.9%
Starting from a technology previously developed by a competitor -	7.8%	7.3%	4%	14%	2.2%	1.3%	1.9%
Thanks to R&D investments -	9.5%	14%	13%	3.4%	5.9%	6.3%	19%
Thanks to an improvement of technologies existing on the market, implemented internally -	5.2%	16%	5%	22%	15%	16%	16%
Totally externally, with the support of partners of Universities/Research centers -	6.9%	4.2%	5%		1.5%		1.9%
With support of suppliers/customers -	27%	23%	35%	17%	32%	20%	19%
With support of the R&D office -	16%	14%	13%	5.9%	6.7%	3.8%	15%
With support of the technical office -	16%	12%	19%	31%	25%	16%	19%
With the support of design studios and engineering companies -	3.4%	2.1%	3%	3.4%	8.1%	6.3%	3.7%
With the support of foreign partners -	4.3%	3.1%		3.4%	3%	5.1%	3.7%
	Austria -	Czech Republic -	Germany -	Hungary -	Italy -	Poland -	Slovenia -



II. Aggregated Index - TML - RE:Lab + CNA



$$M_i = \frac{\sum_{i=1}^n M_{Di} * g_D}{\sum_{i=1}^n g_D}$$

- Focus on firm characteristics and behaviour
- 1. Concentrate on the difference between the average of the sectors in which its suppliers and buyers are operating and the sectors in which the firm is operating
- 2. Average of the **share of graduates** operating in R&D departments or other relevant occupations
- 3. Capability to raise funds to be devoted to innovative activities
- 4. Internal and external R&D, technolgy purchases, reverse engineering and embodied technical change
- 5. Number of Industry 4.0 technologies in which the firm is operating and/or is investing/purchasing

II. Aggregated Index - TML - RE:Lab + CNA



TML applied to the CRM

TML computation

Each partners provided with the computation of the TML on all the national dataset

CRM System developed and applied by each partner.

Selection of Pilot companies

Each partner selects 10 companies to which to apply the TML

4STEPS CRM	I									М
Welcome, Martin Dan	Main statistics	Cleaphs								
# Uashboard	TML Indexes					U Watch by countr	es Al o	ourbies	• Company nam	n
Countries	# II Company na	ne II	Country 11	Related Variety index 11	Human Capital index. II	Project Management index II	R&D index 11	Breadth of 14.0 index 11	Depth of 1.4.0 index 11	Overall TML index
👹 Dudha 🗸 🗸	1 min		Austria	100.00%	100.00%	100.00%	22.22%	100.00%	59.26%	80.25%
	2 LENAM s.r.o.		Czech Republic	50.00%	100.00%	100.00%	65.58%	55.50%	86.67%	74.63%
🖋 Questionnaires 🗸 🗸	3 Borsed Milhe	ly Férnmegmankáló Kít.	Hungary	100.00%	99.63%	33.33%	55.56%	100.00%	55.56%	74.01%
C Questionnaire treatment	4 G		Slovenia	100.00%	100.00%	65.57%	33,33%	88.89%	54.17%	73.84%
Guestormate templates	5 c21		Gormany	100.00%	39.00%	100.00%	44,44%	100.00%	61.85%	72.65%
MIL Questomane statistics	6 hhłm		Austria	100.00%	39.00%	100.00%	44.44%	100.00%	51.85%	72.55%
Titel conformance	7 c14		Cernary	100.00%	\$0.00%	100.00%	44,6495	86.67%	61.11%	72.04%
	8 VUTS		Czech Republic	79.00%	100.00%	100.00%	44,44%	55.50%	46.67%	70.95%
· III Publicitis	9 34		Slovenia	100.00%	32.22%	100.00%	33.33%	77.78%	88.00%	70.59%
Guestionnaire translation	10 fm		Austria	100.00%	100.00%	33.33%	44,64%	77.78%	42.86%	66.40%
Documents	11 Evatronix S.A.		Poland	100.00%	76.47%	100.00%	33.33%	44.44%	41.67%	65.90%
9 1A0	12 IMTO GROU	Pas.	Czech Republic	100.00%	83.33N	33.33%	33.33%	56.67N	77.78%	65.73%
U 104	13 Ž		Slovenia	100.00%	56.22%	33.33%	33.33%	100.00%	66.57%	64.93%
i Log data	14 M1		Slovenia	100.00%	38.10%	66.67%	65.66%	77.78%	47.52%	64.29%
	15 Poinctors Sp	Z 0.0.	Poland	0.00%	100.00%	66.67N	44.44%	100.00%	66.67%	62.99%
	16 ddin		Austria	100.00%	38.04%	66.67%	33.33%	77.78%	60.00%	62.64%
	17 HIDROT KR		Hungary	100.00%	92.86%	33.33%	33.33%	77.70%	33.32%	61.77%
	18 am-LAB		Hungary	0.00%	100.00%	65.57N	33.33%	100.00%	70.37%	61.73%
db -	19 (28		Cerning	100.00%	75.00%	33.33%	22.22%	77.78%	57.14%	60.91%



1. 4steps I4.0 supporting tool catalogue

Ľ	Introduction of the project	2. General Introduct	ion of the project partners 🕴							
	Short summary of SME involvement on tr	CNA Emilia Romagna	Szerkesztve: mái. 15.							
	Objective of this current Supporting Cata	3. Partners competences and services in I4								
			4. Partners planned services in 14.0 pillars							
	Regional Development Agency B Simulation									
5 6	Partners services on inr	ovation enabling fa	tal and vertical system integration	Szerkesztve: máj. 12.	• •					
5. Partners services on innovation enabling fa										
	Human Capital and Competences	6. Connections	with relevant stakeholders	ve: máj. 12.	• •					
	Fundraising	E PRI	CRITY: INNOVATION AND KNOWLEDGE DEVELOPMENT	• ve: máj. 15.	:					
	Research and Developm		CENTRAL EUROPE Extended 4STEPS	ve: máj. 12.	:					
	Internationalisation		ztve: máj. 13.	ve: máj. 13.	:					
	Strategies to approach r	4STEPS	sztve: máj. 13.	ve: máj. 13.						
	Further enabling factors	I4.0 SUPPORTING TOOL CATALOGUE ARCHIVE DOCUMENTS	NEWS FIGURES PROJECT PARTNERS							

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PLEASE, COME AND VISIT US!!!

www.pbn.hu 🖂 barta@pbn.hu





Prepared by:

Marcella Contini Martin Dan Balázs Barta

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