

20.10. 2017, Mosonmagyarovár 15th Annual HRSA meeting Prepared by: Pavel Ptáček

The Journey of the South Moravian Region to an Innovative Region

Faculty of Regional Development and International Studies

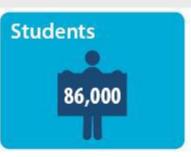
Mendel University in Brno, Czech republic



South Moravian Region –Basic Introduction

- Brno –second largest city in the Czech Republic
- Self governing region without explicit powers over research

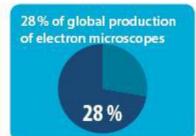


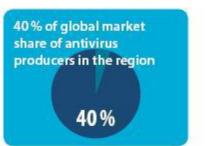














Origins of innovation policy in South Moravia – Key factors behind RIS formulation (2000-2002)

- 1. High unemployment rate in the region (12%)
- 2. Establishment of Regional Authorities
- 3. FDI policy percieved as "failure" end of Flextronics plant leaving 2,500 unemployed people behind
- 4. Debate about the new Lisbon strategy role of R&D&I in regional economic development
- 5. InterpRISe project realisation (EcosOuverture)

Main Points for Innovation Policy of JMK - 2000-2002



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Origins of innovation policy in South Moravia – Leadership engagement : 2002

- 1. Organizational Measure Establishment of South Moravian Innovation Centre (JIC) and the System of Management and Monitoring of RISSM
- 2. Definition of Priority Branches for Innovation Support in South Moravia and Setting-up of Clusters + Creation of Continuous Monitoring of Economy in South Moravia
- 3. Elimination of Administrative Impediments Related to Innovation Support
- 4. Creating Networks Between Local Companies and Local R&D Capacities with Foreign Investors
- 5. Information About Research & Development Financing, Interconnection of Research & Development Capacities with the Commercial Sector
- 6. Financing of Start-Ups of Technology Companies
- 7. Establishment of Technological Incubators
- 8. Establishment of Industrial Clusters

2003: Establishment of South Moravian Innovation Centre (JIC)

- Today—Leading agency in Central and Eastern Europe
- Key success factors:
- –non-political CEO (at his position till today –14 years)
- generous public funding from the very beginning
- business organization culture –perceived by firm clients as a main advantage
- First institucionalization step







2004: RIS (2) actualisation and formal approval

Actualization of RIS

- Entering to the EU and Structural funds availability
- Decision on setting up of two Technological Incubators(3,000 + 3,000 m2)

2005: CEITEC project preparation – First steps

- R&D infrastrucutre project
- Life sciences & Advaced materials
- 220 mil. €
- Ability to reapeat consensus



central european institute of technology
BRNO | CZECH REPUBLIC

Key steps in 2006

- Start-up microloan fund established (JIC)
- Programmes for talented students established (JCMM)
- CEITEC project under intensive preparation
- Biotech cluster initiative established– laterfailed
- OP RDI –drafting started–very high presure from the South Moravian actors(€2.2 billion for R&D infra)

2007: New generation of RIS drafted

- Robust governace structures established academic representatives offically involved into the proces
- RIS management team part of Constructed Regional Advantage project
- •Field research among companies(185 companies—physically visited by RIS management)
- -first time when "civil servants" went out to the field on such a largescale…
- New Mayor was able to understandand increased investments into RIS measures

Key steps in 2008

- RIS no. 3 2009–2013 was approved both by the South Moravian region and City of Brno
- OP RDI was approved(€2.2 billion for R&D infra)
- Two incubators opened (financed from Structural funds 2004–2006)
- Innovation voucher scheme established—first intervention for mature companies

Key steps in 2009

- OP RDI "pushing" research organizations to open up (performance indicators for contract research and international grants)
- Very rigorous selection process for newly established R&D centers (international evaluators etc.—completely new approach in CZ)
- New political power sponsor –Václav Božek– regional counsellor (social democrat, former academic, understanding of research etc.)

Key steps in 2010 and 2011

- R&D internationalisation:
- SoMoPro programme opened (attractin gforeign researchers to the region)
- Reg Pot (FP7) projects realised (three in the region)
- –Structural Funds to fund opening of R&D centers
- StarCube first start up accelerator in Czech Rep.
- Monitoring and evaluation system of RIS established
- Attempt to set up Regional Technology transfer office establishment – failed

2012: Fourth actualisation of RIS started

- Involvenemt of businesses
- International visibility of advanced RIS system

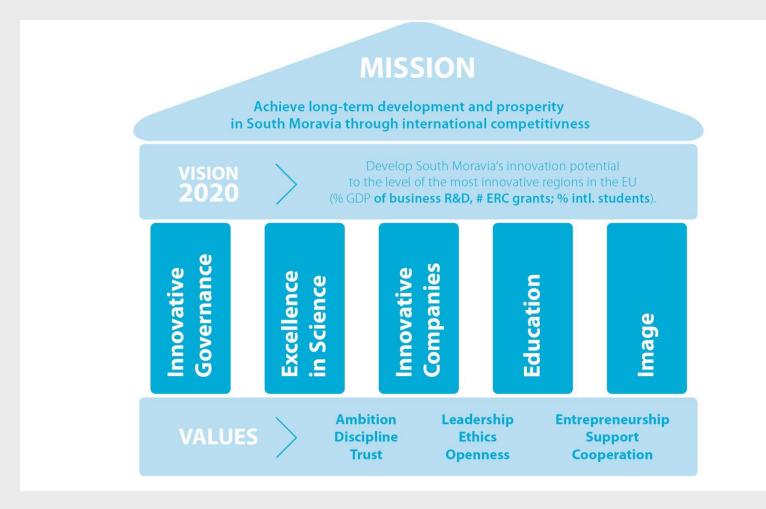








2013: Strategic framework of RIS SM 2014–2020 (= S3)



Key milestones of the innovation policy



































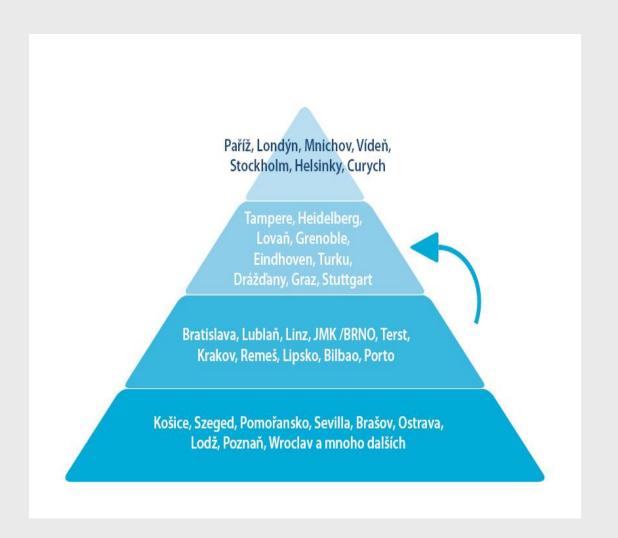
2001-2004

2005-2008

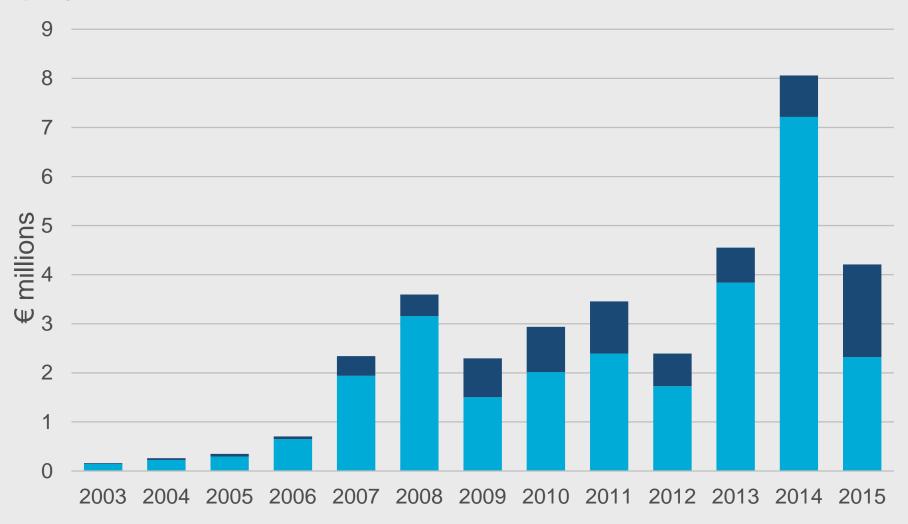
2009-2013

2014-2020

Aim of JIC as of 2015:



Investment of South Moravian region and City of Brno into RIS projects from 2003-2015









In the last five years were established over 30 start up companies with total investment over 9 mil. €







Over 1500 highly qualified jobs in more than 220 technological companies

(Kiwi.com, Y Soft Corporation,

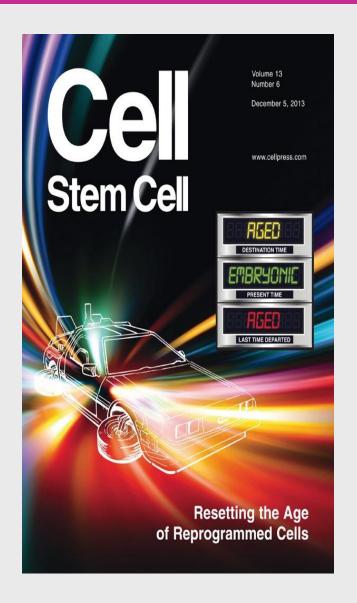
Flowmon Networks, Safetica

Technologies, GINA Software,

Phonexia, Sewio Networks)

Arrival of 62 top scientists to Brno

supported by 10 mil. €, third of them came from top 20 world universities



Support of 319 collaborations

between universities and companies















Suppport od 87 talented students

/doctorands towards scientific carrier, some of them already develop their own sucessfull technological companies





Establishing of conditions for influx of investment of investment from EU structural funds more than 650 mil. €



Creation of ecosystem for collaboration of big companies woth small and techologial companeis and with academia

Number of researchers in companies, share of regions of total of Czech. Rep. (CZSO, 2015)

(CZ3O, 2013)									
	2008		2013		change 2008-13				
	НС	FTE	НС	FTE	researche rs HC	%			
Company sector Czech Rep.	15 471	13 253	19 882	16 766	4412	100,0			
Praha	5 187	4 321	5 619	4 357	432	9,8			
Středočeský	2 605	2 385	2 554	2 443	-51	-1,2			
Jihočeský	230	194	283	247	53	1,2			
Plzeňský	482	435	874	806	393	8,9			
Karlovarský	106	104	76	71	-30	-0,7			
Ústecký	274	235	321	240	47	1,1			
Liberecký	446	422	808	685	362	8,2			
Královéhradecký	515	445	659	570	144	3,3			
Pardubický	997	926	1 102	953	105	2,4			
Vysočina	428	374	499	443	71	1,6			
Jihomoravský (South Moravia)	2 020	1 615	4 008	3 403	1988	45,1			
Olomoucký	645	500	872	737	226	5,1			
Zlínský	780	673	1 009	804	229	5,2			
Moravskoslezský	755	626	1 197	1 006	442	10,0			
Share of JMK in Czech Rep.	13.1	12.2	20.2	20.3	X	X			

Number of small companies (0-49 employees) with 5 and more researchers (CZSO, 2015)

	20	05	2014		
	Nr. companies	Share on CR	Nr. companies	Share on CR	
Praha	45	38,5	60	24,2	
Středočeský	11	9,4	21	8,5	
Jihočeský	4	3,4	4	1,6	
Plzeňský	6	5,1	8	3,2	
Karlovarský	0	0,0	2	0,8	
Ústecký	0	0,0	5	2,0	
Liberecký	1	0,9	12	4,8	
Královéhradecký	2	1,7	13	5,2	
Pardubický	4	3,4	9	3,6	
Vysočina	1	0,9	5	2,0	
Jihomoravský					
(South Moravia)	23	19,7	64	25,8	
Olomoucký	11	9,4	14	5,6	
Zlínský	1	0,9	10	4,0	
Moravskoslezský	8	6,8	21	8,5	
Czech Rep. – total	117	100,0	248	100,0	

Selected indirect impacts of RIS JMK on regional economy – Brno as a centre of global technological development centres

Vývojová centra globálních koncernů

26
development centres of global MNCs

















































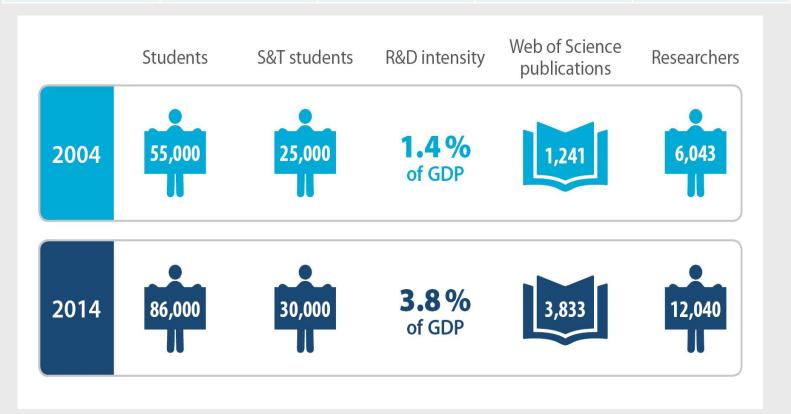






South Moravian Region: GDP as a % of avergare GDP EU

Year	2000	2003	2011	2015
%	61,6	68,3	78,4	85,8



Expected results/possible risks:

- Enhanced competition for (not only) R & D employees, even internationally - the inability of companies to get the needed people and thus not to use attractive development opportunities
- Digital Technology in Traditional Production / Industry 4.0 - Losing the Benefits of Cheap Labor Force
- Linking creative industries to traditional ones not only can they produce high-quality and inexpensive

How to react to these challenges?

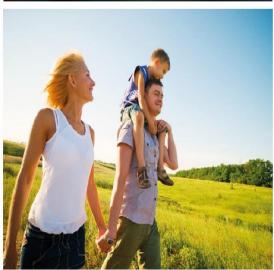
- Promoting image of the region, marketing region "Velvet Innovation", attracting talent to the region,
 supporting internationalization / arrival and
 integration of foreigners, Brno ExPat Center
- Utilization of a knowledge / research base in favor of traditional industries (engineering, electronics ...)
 - DIGIMAT, Internac
- Support for creative industries (digital media, digital marketing, design ...) - creative vouchers, Creative Center Brno



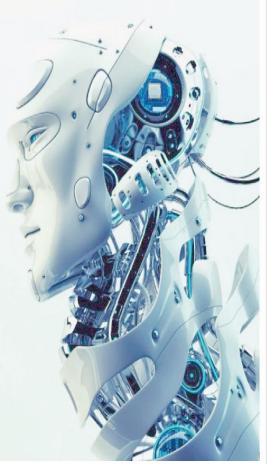












Thank you for your attention!

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