



Specificity and comparability in S3 strategies monitoring

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Outline

- 1. S3 Platform work on monitoring
- 2. Why a monitoring system for S3?
- 3. Monitoring results and monitoring output
- 4. Regional examples
- 5. Conclusions





S3 Platform work on monitoring

Support to regions & Member States

•Monitoring system = crystallisation of the intervention logic

- Monitoring results and policy output for each S3 priority! (≠ OP monitoring)
- •Legal requirement based on ESIF Regulation 1303/2013, ANNEX XI

Methodological note & policy brief

"Monitoring Mechanisms for Smart Specialisation" \rightarrow Collects input from S3 Platform, DG REGIO & expert workshop "Monitoring S3"

Dedicated website & survey

http://s3platform.jrc.ec.europa.eu/monitoring

Methods, case studies, good practices & data sources

•Survey to gather information on processes and better target our activities

 \rightarrow May/June 2015 \rightarrow results to be published





Why a monitoring system for S3?





S3 logic of intervention





Monitoring and evaluation systems of regional OPs ≠ monitoring and evaluation systems of S3s.

Why?

•S3 is a top regional innovation system dealing with broader scope of issues.

•Several OPs and sources of funds (regional, national, inter-regional, and EU – public and private).

And

•OPs should consider actions to reach the S3 strategic objectives seriously.

•The **OP monitoring** system should be also considered as a **source of monitoring and evaluation information for S3**.



Monitoring results

Identify explicitly expected changes for each S3 priority

Define a result variable & a corresponding result indicator for each expected change

Promote use of survey-based indicators or alternative sources (ethnography, focus groups, etc.) if no official data are available
A result indicator is defined by three elements: (i) result variable, (ii) baseline value, (iii) target value

Expected changes, result variables & indicators should be co-defined with the stakeholders participating to the EDP



Monitoring results

Clear objectives and selection of **result indicator :**

- **Responsive to policy**: closely linked to the policy interventions supported.
- Normative: clear and accepted
- Robust: reliable, statistically validated;
- Timely collection of data: available when needed
- Each result indicator requires a baseline value



Monitoring output

Identify explicitly output indicators for each combination of policy instruments

Link output indicators to specific results

Difficulty: identify output targeted to a specific expected change

 → Instruments in a policy mix can act towards several priorities!

 In order to properly reconstruct the policy causal chain, it is recommended to follow the indicators for each priority
 For each indicator, target values should be defined

Appropriate targets for output indicators should be codefined with the stakeholders participating to the EDP



Dashboard for integrated visualisation

Priorities	Expected	Result	Policy mix	Output
/ Phonties	changes	indicators		indicators
Priority 1 Process innovation	Increase adoption among SMEs of advanced technologies for	# SMEs intro innovative processes for fresh	Viix 1 Vouchers for R&I	# SME financed for technological transfer (# and
in agrofood	the conservation of fresh products (expected adoption rate of 30% in 5 years)	FPolicy instruments may serve several priorities. Recommendedchers actu nt; # and		
		- Targets - Timeframe		- Timeframes 10



Output indicators shall cover all investment priorities of a programme: derived from the intervention logic of the programme,

<u>Output indicators from the list of common indicators may be insufficient to</u> reflect the actions of a certain programme; in this case it is necessary to identify programme specific output indicators.

Common indicators are designed to aggregate information in MS and across MS. They reflect frequently used investments of the ERDF and the Cohesion Fund.

<u>Common indicators reflect the actions, not the objectives of a programme</u> <u>or of regional policy</u>. Actions reflected in common indicators are not more important than others.



Regional examples

- **LOWER AUSTRIA:** integration of monitoring and evaluation mechanism through the scorecard methodology.
- **GALICIA:** result indicators and output indicators
- **EMILIA-ROMAGNA:** Change in indicators for specialization and for transition



Shortcomings:

 Most of the Regions apparently did not run a baseline survey

•Monitoring and evaluation are often seen as a single and mixed exercise. Monitoring is different from evaluation and they have to be considered separately and implemented at their respective level of operation (continuous monitoring versus scheduled evaluations).

•The **selection of experts** is not always clear. Who are the experts and how they are selected.

•How experts rank and evaluate the applications of projects How these experts are substituted in the process?



LOWER AUSTRIA

Monitoring and evaluation – some results:

Strengthening of competitiveness

- ca. 80 % innovative products / ca. 20 % innovative processes created during funding project
- ca. 80 % significant technological improvements

Introduction of modern management methods

- More than 90 % improved their project management
- Ca. 80 % organisational change activities

Stimulation of cooperation culture and know how transfer

 More than 50% established new long term cooperations, 50% improved collaboration with RTD and/or universities

Growth of the companies funded

- More than 85 % created new jobs
- More than 70 % with rising sales
- More than 50 % with rising earnings

Amt der Niederösterreichischen Landesregierung Abteilung Wirtschaft, Tourismus und Technologie

Companies' investments stimulated by the funding programme



Employment effect





GALICIA

CADRO DE MANDO				
INDICADORES	Indicadores de EXECUCIÓN	Indicadores de RESULTADO	Indicadores de IMPACTO	
	Seguimento dos indicadores asociados a cada INSTRUMENTO	Seguimento dos indicadores asociados a cada PRIORIDADE	Seguimento dos indicadores asociados o RETOS e a VISIÓN GALICIA 2020	
INDICADORES TIPO	 N° de axudas outorgadas por cada sector prioritario N° entidades beneficiarias (empresas, centros de investigación, etc) nos sectores priorizados N° de novas patentes por cada sector prioritario % Do orzamento executado polo sector público % Do orzamento privado capturado por sector 	 Indicadores especialización CIENTÍFICA (produción científica) Indicadores especialización TECNOLÓGICA (capacidad que tiene un territorio para rentabili- zar la inversión en investigación y desarrollo) Indicadores especialización ECONÓMICA (impacto económico de las actividades de investiga- ción) 	Indicadores INPUTS • Educacion • Inversión en I+D+i Indicadores OUPUTS • Especialización Científica • Especialización Tecnológica • Especialización Económica Indicadores IMPACTO ECONÓMICO • Empleo • Valor añadido • InnovacionEmpresarial	
VALORES Obxectivo	Valor Obxectivo (2018: 2020)	Valor Orixe (2013) Valor Obxectivo (2018; 2020)	Valor Orixe Valor Obxectivo (2013) (2018: 2020)	
FERRAMENTAS DE SEGUIMENTO	Plataforma de innovación	Plataforma de innovación	Plataforma de înnovación	
		Estatistica	ESTATISTICA	
	180	+ Outras entidades Rexionais e/ou Nacionais	+ Outras entidades	
			15	

Emilia-Romagna



European

		Commission				
ID	Expected change	Specialization indicator	Unit	Reference year	Baseline	Source
Co15	Growth of regional	Patents per AS	Ν.	2013	tbd	EPO
C025	innovative potential	Patents in the selected OT per AS	%	2013	tbd	EPO
C03s		Research grants in regional universities per AS	Ν.	2013	tbd	MIUR-CINECA
C04s	Growth of R&I in public research system	Research grants in regional universities in the selected OT, per AS	%	2013	tbd	MIUR-CINECA
C05s	Co5s Reinforcement of research-business relations	Number/value of research- business contracts per AS/OT	N./k€	2016	tbd	Research dashboard - ASTER
Co6s		Percentage on total of Number/value of research- business contracts per AS/OT	%	2016	tbd	Research dashboard - ASTER
C07s	285 Innovative regional	Innovative startup per AS	Ν.	2013	143	Registro imprese
Co8s		Percentage on total of innovative startup in the selected OT per AS	%	2013	tbd	Registro imprese
Co9s		Number of innovative SMEs per AS	Ν.	2015	Na <mark>(*)</mark>	Registro imprese
C105		Percentage on total of innovative startup in the selected OT, per AS	%	2015	Na <mark>(*)</mark>	Registro imprese

CHANGE INDICATORS - SPECIALIZATION

(*) National law 33/2015

	Agrifood	Building and construction	Mechatronicsଅନୁମୁଦ୍ଧ transportଅ
	Energyଫ୍রromଅbiomassଅ ଅ	Certification @LEED ® @ 20 Leadership @n @Energy @ and 2 Environmental @ Design 2	Intensityଅ୦fଅlimealterantଅ emissionଆnଆnanufacturingଅ
Sustainable developmen t	Certifications I MAS/IISO 14001	Number@f@nergetic certification@(ACE)@	Producers®bf@machines@ with®sustainable@quality@ label@ Ø
	Energetic@ntensity@n@agrifood@ companies@	2	12
	Percentage f b f b r g r o f b f b r g n f b f b r g n f b f b r g n f b f b r g n f b f b r g n f b f b r g n f b f b r g n f b f b r g n f b f b f b r g n f b f b f b f b f f b f f	[<u>77</u>]	172
	Organic producers 2		172
Healty@and@ active@ife@	Companies Active In Idietary 7 food 7	2	(智)
	Number12bf12dietary12foods121	122	(Ť)
Infomation society	12	BuildingsItonnectedIviaIultra- widebandIII	Robots@produced@and@ installed@yearly@

CHANGE INDICATORS - TRANSITION



Conclusions

- Monitoring is a sine qua non element of a genuine S3 process, however neglected from its inception
- weakness in ex-ante conditionality assessment (>80% of the EU regional strategies
- Monitoring has been gaining relevance in peer review
 discussions
- Acknowledged in many action plans



Conclusions

- Indicators are very **different among regions** depending on priorities.
- Monitoring does not consist on a table of indicators, but a tool to streamline the logic of intervention of S3 and a way to enhance mutual learning and collaboration
- An opportunity to go into the granularity of S3 priorities



Thank you!



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