Interreg Italia-Slovenija

Cofinanziato dall'Unione europea
Sofinancira Evropska unija

2021 2027

FIRST RESULTS

Risk-based management verifications methodology in INTERREG VI-A ITALY-SLOVENIA 2021-2027 Programme

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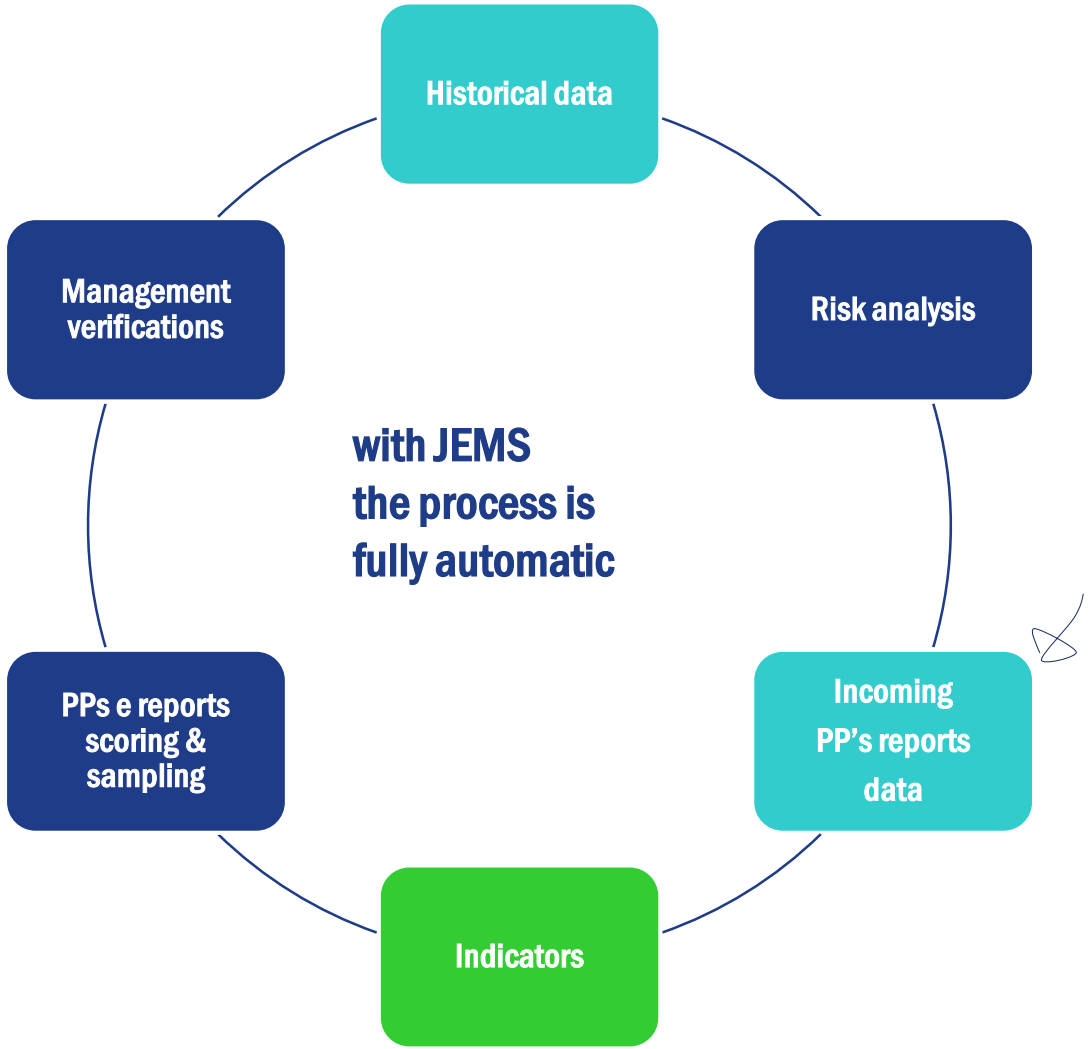
National controller

INTRODUCTION

Historical data:
- impact of error per reporting methodology, per BL and per single errors

Incoming reports data:
- presence/absence of previous control
- reported expenditure amount
- budget variance from scheduled - -
presence of public procurement



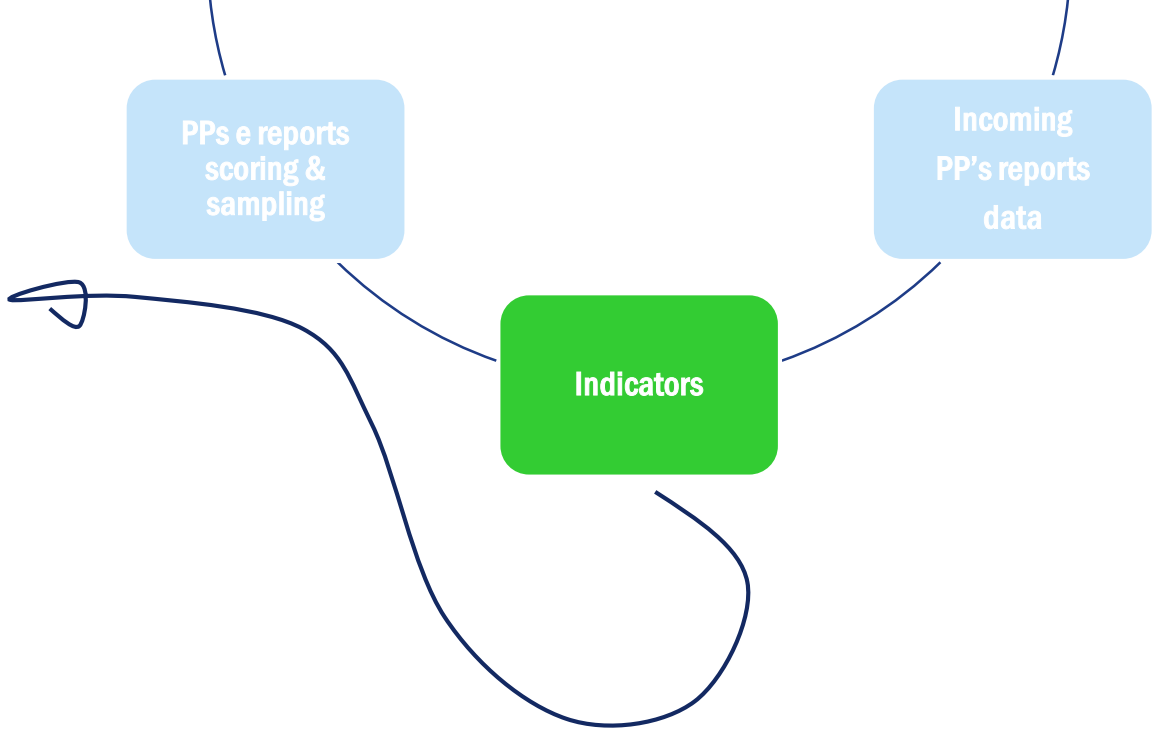
1. SELECTING INDICATORS

Compound indicators

- R.1 – Reporting methodology
- R.2 – Errors within the last validated PP report
- R.3 – Errors in all validated PP reports

Single indicators

- R.4 – Presence/absence of previous control
- R.5 – Reported expenditure amount
- R.6 – Budget variance from scheduled
- R.7 – Presence/absence of public procurement



In other terms, how we put a weight on data

1. SELECTING INDICATORS

Compound indicators

- R.1 – Reporting methodology
- R.2 – Errors within the last validated PP report
- R.3 – Errors in all validated PP reports

guess what?

we assumed that flat rates are not risky

guess what?

historical data tell us that real costs is the riskier reporting method

what we look at

the impact of errors in % terms for real costs and standard unit costs

1. SELECTING INDICATORS

Compound indicators

R.1 – Reporting methodology

quick overview impact Real costs and SUC

% of error on tot **BL1** expenses: **7,63%**

% of error on tot **BL1 SUC** expenses: **2,52 %**

% of error on tot **BL4** expenses: **5,58%**

% of error on tot **BL5** expenses: **1,10%**

% of error on tot **BL6** expenses: **0,00%**

we have valued this data within an **intermediate** threshold table

0% to 2%	0 point
up to 5%	2 points
over 5%	4 points

over 5% over 5%

e.g. of **REAL COSTS** in **BL1** + **BL4**

Report score: **4 + 4 = 8**

e.g. of **SUC** in **BL1** + **REAL COSTS** in **BL5** + **BL6**

Report score: **2 + 0 + 0 = 2**

1. SELECTING INDICATORS

Compound indicators

R.1 – Reporting methodology

we have valued this data within a **definitive** threshold table

score 0	0
up to 4	2
up to 6	4
up to 8	6
over 8	8

e.g. of report score as previous slide

in case of **REAL COSTS** in **BL1 + BL4**

Report score: **4 + 4 = 8**

R.1 = 6

1. SELECTING INDICATORS

Compound indicators

- R.1 – Reporting methodology
- R.2 – Errors within the last validated PP report
- R.3 – Errors in all validated PP reports

guess what?

we analyse errors data in terms of quantity (€) and frequency (n° of errors)

what we look at

the results of previous management verifications has a weight

ace in the hole

we listed all the errors and code them to be able to easily analyse JEMS data over the reporting periods

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Error 1-h = Expenditure incurred outside the period of eligibility

1. SELECTING INDICATORS

Compound indicators

R.2 – Errors within the last validated PP report

we have valued this data within an **intermediate threshold table**

0% to 2%	0
up to 10%	2
over 10%	4

quick overview of **ERROR PERCENTAGE (e.g.)**

QUANTITY

% of error **1-h** quantity on total quantity in € 27.456,39 / 190.921,58 = 14%

FREQUENCY

% of error **1-h** frequency on total n° of error

14 / 92 = 15%

Error 1-h QUANTITY + FREQUENCY

4 + 4 = 8

in case of more errors within the report the system add up the points

Error 1-h = Expenditure incurred outside the period of eligibility

1. SELECTING INDICATORS

Compound indicators

R.2 – Errors within the last validated PP report

we have valued this data within a **definitive threshold table**

score 0 to 3	0
up to 6	3
over 6	6

e.g. of report score as previous slide

in the case of the **1-h error**, the

percentage weight is valued

with the maximum score: 8

R.2 = 6

1. SELECTING INDICATORS

Compound indicators

R.1 – Reporting methodology

R.2 – Errors within the last validated PP report

R.3 – Errors in all validated PP reports

guess what?

the process to get the score works like the previous one

What we look at

now we take a look to all the previous PP's report

ace in the hole

this time, the score is divided by the number of PP's validated reports

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Error 1-h = Expenditure incurred outside the period of eligibility
Error 1-i = Expenditure outside the eligibility area

1. SELECTING INDICATORS

Compound indicators

R.3 – Errors in all validated PP reports

we have valued this data within an **intermediate threshold table**

0% to 2%	0
up to 10%	2
over 10%	4

quick overview of **ERROR PERCENTAGE (e.g.)**

QUANTITY

% of error 1-h = 14%

% of error 1-i = 16%

FREQUENCY

% of error 1-h = 15%

% of error 1-i = 3%

Error 1-h (quantity + frequency)

4 + 4 = 8

Error 1-i (quantity + frequency)

4 + 2 = 6

14

Error 1-h = Expenditure incurred outside the period of eligibility
Error 1-i = Expenditure outside the eligibility area

1. SELECTING INDICATORS

Compound indicators

R.3 – Errors in all validated PP reports

we have valued this data within a **definitive threshold table**

score 0 to 3	0
up to 6	1
over 6	2

e.g. of report score as previous slide

score is **divided** by the number of PP's validated reports, let's say **3**, sooo:

Total score / n° of validated report

in our case **14 / 3 = 4,66**

R.3 = 1

1. SELECTING INDICATORS

Compound indicators

In summary, the results given by the "compound indicators":

R.1

R.2

R.3

at a glance

ongoing risk analysis over reporting periods binding different type of data

guess what?

the system is updated automatically by the national controller findings

what we look at

we can easily take a look on PP's profile over time

1. SELECTING INDICATORS

Single indicators

- R.4 – Presence/absence of previous control
- R.5 – Reported expenditure amount
- R.6 – Budget variance from scheduled
- R.7 – Presence/absence of public procurement

guess what?

unlike in the past, we need to think in terms of low, medium, high risk

what we look at

we need a balance between the approach based on the historical data and the "current" report's data

ace in the hole

a project partner's report enters the system with a profile based on its features

1. SELECTING INDICATORS

Single indicators

- **R.4 – Presence/absence of previous control**
- R.5 – Reported expenditure amount
- R.6 – Budget variance from scheduled
- R.7 – Presence/absence of public procurement

we have valued this data within the **table**

Yes!	0
No!	8

in case we missed to meet a PP's at least once

1. SELECTING INDICATORS

Single indicators

- R.4 – Presence/absence of previous control
- **R.5 – Reported expenditure amount**
- R.6 – Budget variance from scheduled
- R.7 – Presence/absence of public procurement

we have valued this data within the **table**

up to 5.000,00 €	0
up to 10.000,00 €	1
up to 20.000,00 €	2
up to 30.000,00 €	3
up to 40.000,00 €	4
and so on	5, 6, 7, 8, 9

in case that there is
a lot of work done to be checked

1. SELECTING INDICATORS

Single indicators

- R.4 – Presence/absence of previous control
- R.5 – Reported expenditure amount
- **R.6 – Budget variance from scheduled**
- R.7 – Presence/absence of public procurement

we have valued this data within the **table**

up to 10%	0
up to 20%	1
over 20%	2

in case that there is not so work done

1. SELECTING INDICATORS

Single indicators

- R.4 – Presence/absence of previous control
- R.5 – Reported expenditure amount
- R.6 – Budget variance from scheduled
- **R.7 – Presence/absence of public procurement**

we have valued this data within the **table**

up to 1	1
up to 2	2
over 2	3

Of course, anyone knows that there's a thing between national controller and public procurement

1. SELECTING INDICATORS

Single indicators

In summary, the results given by the "single indicators":

R.4

R.5

R.6

R.7

at a glance

we have information about a PP's report before seeing him

guess what?

the indicators are simple but we need to understand how to balance them to get what we want
step by step

what we look at

We look at focusing on substantial risks

2. TECHNICAL ASPECTS

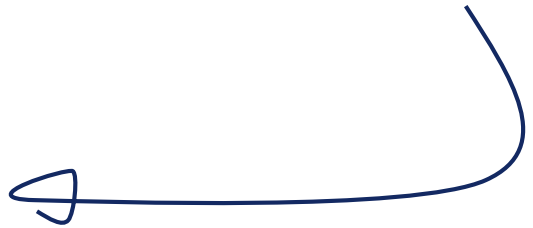
guess what?

all those data are automatically extracted by JEMS and applied to the reports received in the reporting sessions.

Yeah, but how?

JEMS is amazing, look at this link:

jems.it/swagger-ui.html#/



2. TECHNICAL ASPECTS

what you can do at this link:

→ A LOT OF PRESETTED QUERIES TO THE SYSTEM

→ DOWNLOADS OF JSON FILE, THAT IF STORED PROPERLY THEY CAN BE USED WITH EXCEL

→ TO DEVELOP AN EXCEL BASED SYSTEM ABLE TO AGGREGATE ALL DATA AND...

→ ...TO DO QUERIES ON YOUR OWN

2. TECHNICAL ASPECTS

useful tips:

- FOR THE SYSTEM TO WORK, IT IS NECESSARY TO FOCUS CAREFULLY ON EACH BOX TO BE FILLED
- IT IS IMPORTANT TO COMPILE JEMS'S BOXES PROPERLY SO THAT RETURNS RELIABLE DATA
- ANYWHERE THERE'S A FILLABLE BOX YOU CAN COLLECT VALUABLE DATA, EVEN FROM CHECKLISTS

2. TECHNICAL ASPECTS

Process at a glance:

1. Accessing the Jems API

URL: jems.co.uk/swagger-ui.html#/

Functionality: Querying the system and returning JSON files.

2. Saving JSON files

Saving Logic: Structure organised in folders.

Usage: JSON files ready for analysis in Excel.

3. Integration with Excel

Development of VBA code:

Querying the system via Interact API.

Saving of answers in .json files.

Opening files in Excel:

Using query functionality for data analysis.

2. TECHNICAL ASPECTS

Thanks to our colleague Danijel Ferlez for making this work, you deserve your pizza

but the job is still not finished...

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3. RANKING & SAMPLE

Now our sampling universe is completed and we are able to put down the ranking:

Partner	Report number	Project acronym	R1	R2	R3	R4	R5	R6	R7	Totale score	Ranking	NUTS
ANK	3	POSEIDONE	6	0	6	2	8	1	3	26	1	Slovenija (SI)
VEGAL	4	POSEIDONE	4	8	0	0	8	2	3	25	2	Italia (IT)
GAL Carso	3	KRAS-CARSO II	6	0	6	2	8	2	0	24	3	Italia (IT)
SB IZOLA	2	AidMIRE	6	0	6	2	8	0	1	23	4	Slovenija (SI)
SB Izola	3	X-BRAIN	6	0	6	2	8	0	0	22	5	Slovenija (SI)
OHK	2	ENGREEN 2	6	0	6	2	7	0	1	22	5	Slovenija (SI)
[illegible]rina	1	DATIS	6	8	0	0	6	2	0	22	5	Slovenija (SI)
[illegible]	2	GRENNAT	6	8	0	0	6	1	0	21	8	Slovenija (SI)
[illegible]oper	3	ADRIONCYCLETOU	6	8	0	0	7	0	0	21	8	Slovenija (SI)
DEOS d.o.o.	2	CrossCare 2	6	0	6	2	7	0	0	21	8	Slovenija (SI)
Regione FVG	3	ADRIONCYCLETOU	4	8	0	0	6	0	3	21	11	Italia (IT)
STAR	2	POSEIDONE	2	8	0	0	7	2	0	21	12	Italia (IT)
STRUN	3	POSEIDONE	6	0	6	2	5	1	0	20	13	Slovenija (SI)
KIS	2	IRRIGAVIT	6	0	6	2	6	0	0	20	13	Slovenija (SI)
Fundacija	1	BeWoP	6	8	0	0	4	2	0	20	13	Slovenija (SI)
AGRARIA	2	BeBlue	6	0	6	2	4	0	2	20	13	Slovenija (SI)
CORILA	3	POSEIDONE	6	0	3	1	8	1	1	20	17	Italia (IT)
INFOR	1	Karst Firewall 5.0	6	8	0	0	5	0	0	19	18	Italia (IT)
PRC	3	ADRIONCYCLETOU	6	8	0	0	4	0	1	19	18	Slovenija (SI)
[illegible]	4	POSEIDONE	6	0	6	2	5	0	0	19	18	Slovenija (SI)

ranking

3. RANKING & SAMPLE

Here we go, the sample includes 30% of the period's expenditure

Reporting period	3
Submitted reports	270
Expenditure submitted	7.838.329,21 €
Report sampled	104
Expenditure sampled	4.529.288,17 €
Amount not sampled	3.309.041,04 €

we extend the control from 30% to 58%
obtaining a “control group” of the period's expenditure

3. RANKING & SAMPLE

since we want to understand what
we will eventually miss within the system

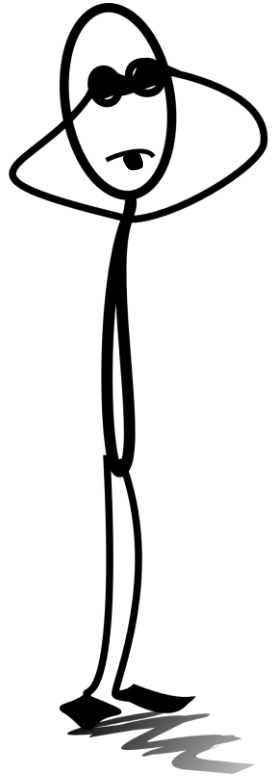
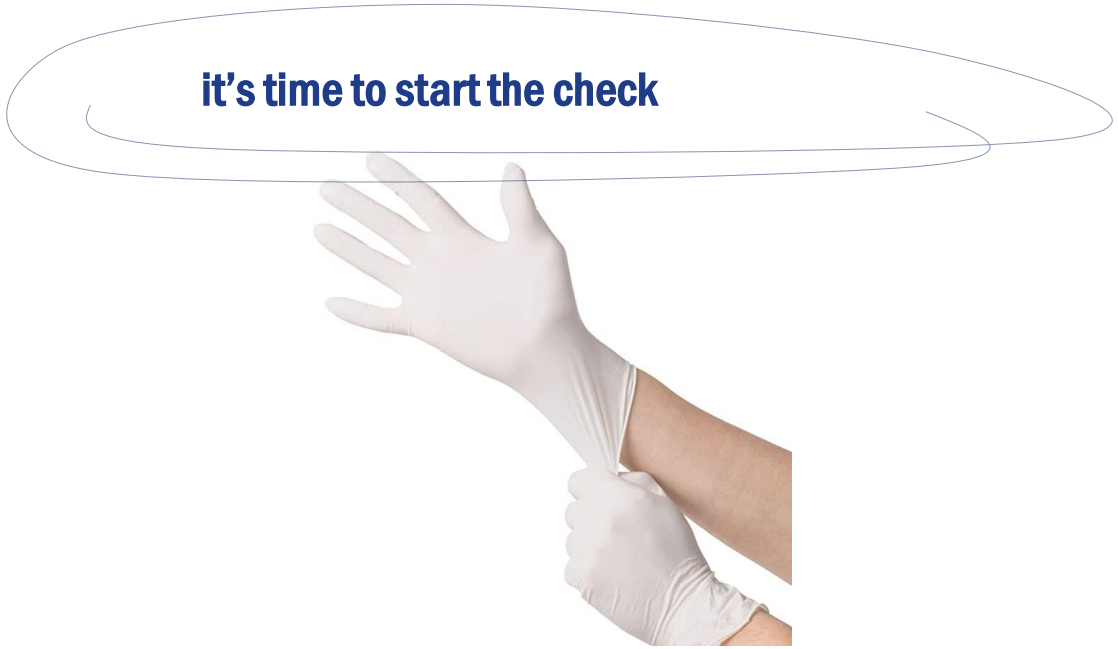


Foto di OpenClipart-Vectors da Pixabay

4. CONTROL



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thank you for your attention

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