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- Joint R&D programmes as a 'multilevel entity'
- Programmes, funding agencies and countries
- Description of the 'bridge structure' of JOREP

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- Information on substantive contents of the dataset
- Data-type of the variables and main characteristics





What JOREP contains / 1

- JOREP dataset includes 97 programmes
 - o 44 are European initiatives;

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- o 53 are bilateral programmes.
- JOREP project, started in 2010, defined a set of descriptors characterising the joint R&D programmes and the organisations leading different processes into the programmes.





What JOREP contains / 2

- Features of programmes are referred to **2009**, while funding data are available from **2000**.
- Most of the descriptors are either **numeric** or in the form of a **closed list** with predefined categories.
- Free text *remarks* have been used to highlight exceptions and cases, which do not easily fit into the categories.





JOREP: a multilevel view to the joint R&D programmes

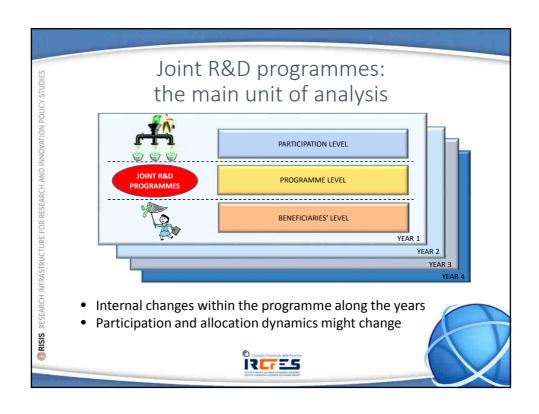
- The design of JOREP dataset is based on the nature of the main unit of analysis: **joint R&D programmes.**
- A joint R&D programme is a multilevel entity.

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• Programmes can **change over time**: they can undergo specific transformations, potentially each year.







Joint R&D programmes, countries and funding agencies

• Panel data are stored – for each year – linking all the programmes to the **countries** participating/beneficiating and to **funding agencies involved**.

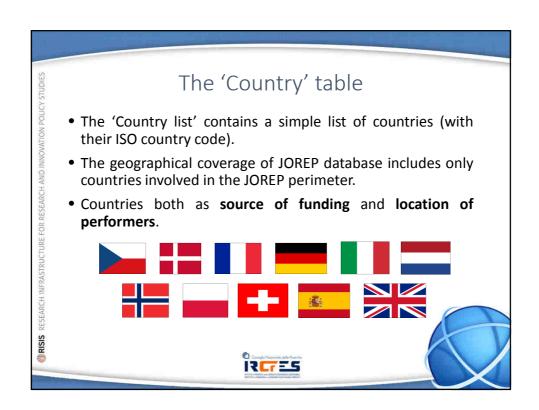
TYPES OF PARTICIPATION

A country participates with a National funding agency, financing / not financing the programme

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A country participates with a supranational funding agency, financing/not financing the programme A country participates without a National funding agency, financing / not financing the programme





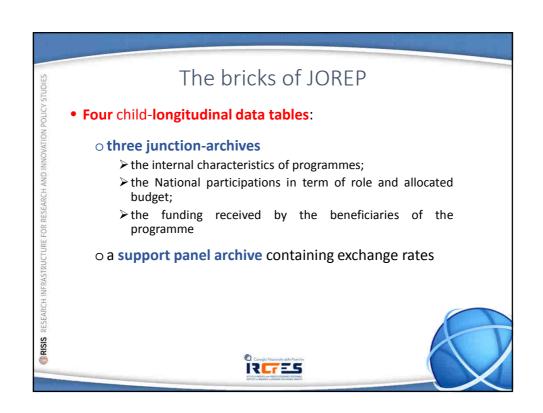
The 'Funding agencies list' • In JOREP a 'funding agencies list' contains a list of 186 formal organizations that manage functions for joint R&D programmes. • Background information for the analysis Funding agency ID Country Acronym Name in official language Name of the agency in English Status of the agency Funding agencies Agency website Total budget 2009 Geographical level Agency classification Agency domain Funding agencies ID will be re-designed in a new format according to the harmonization of research infrastructures developed within RISIS project. IRCTES

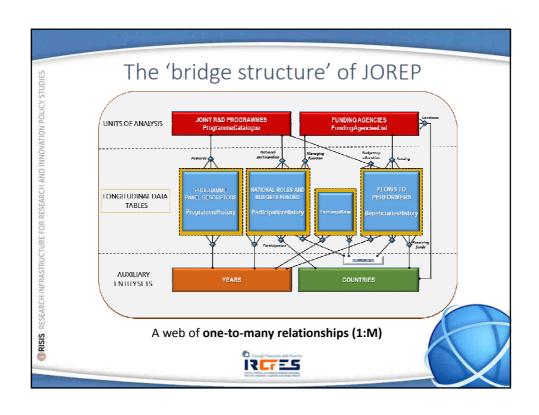
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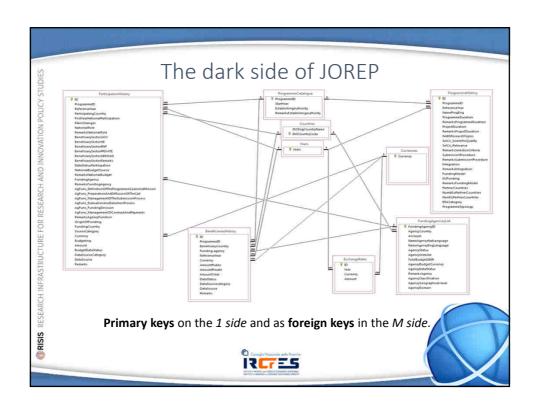
A relational model for a complex structure • System for data management which integrates and allows several level of analysis. • Due to the multilevel structure of the joint R&D programmes and considering the need to handle panel descriptors, data have been stored into distinct manageable tables within a relational structure

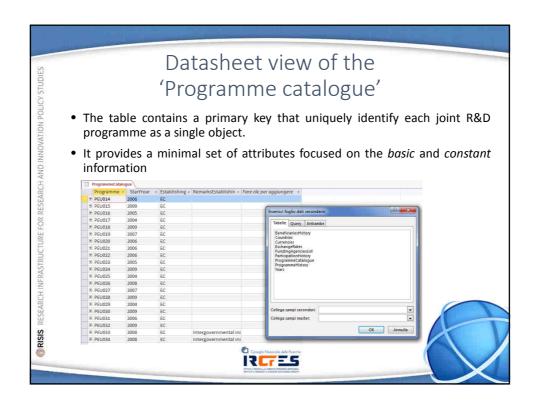
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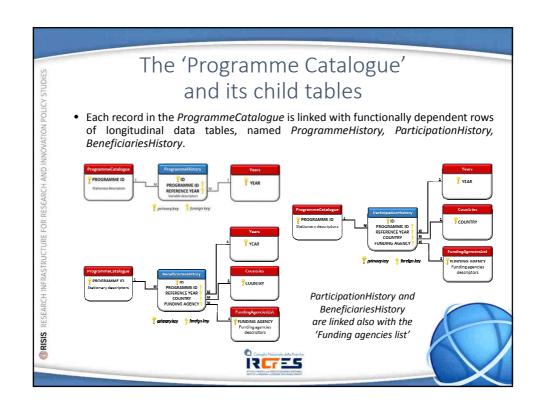
The pillars of JOREP • Five parent tables, divided in: o two tables containing the units of analysis including > data about joint R&D programmes; > descriptors of the funding agencies; o three auxiliary sets containing > a list of countries source of funding for/beneficiary of the programmes; > a list of reference years, as a support for panel data collection; > an auxiliary list of currencies











Programme history

- The table about programme history contains only descriptors at the level of the programme, referred to 2009.
- Although now it contains only 2009 data, the table will keep track of the characteristics of joint R&D programmes in its byyear evolution.

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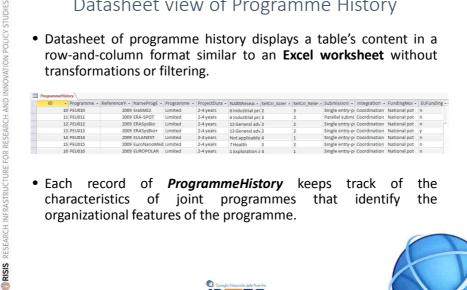
Descriptor	Level	Туре	
Programme start year	Programme-level	Stationary	PARENT TABLE
Establishing authority	Programme-level	Stationary	PARENI IADLE
Name of the programme	Programme-level	Variable	
Programme duration	Programme-level	Variable	
Project duration	Programme-level	Variable	
Research topics	Programme-level	Variable	
Selection criteria	Programme-level	Variable	
Submission procedure	Programme-level	Variable	LONGITUDINAL
Funding model	Programme-level	Variable	TABLE
EU contribution	Programme-level	Variable	
Partner countries	Programme-level	Variable	
Mode of integration	Programme-level	Variable	
ERA category	Programme-level	Variable	
Programme type	Programme-level	Variable	





Datasheet view of Programme History

• Datasheet of programme history displays a table's content in a row-and-column format similar to an Excel worksheet without transformations or filtering.



• Each record of *ProgrammeHistory* keeps track of the characteristics of joint programmes that identify organizational features of the programme.





Descriptors at the level of the programme / 1

- Programme duration. (Limited/Periodic/Regular)
- **Project duration.** (Typical duration of projects funded).
- **Research topics.** The classification refers to the socio-economic objective of the programme, not to the actual research content.
- **Selection criteria** This descriptor provides synthetic information on the importance of the two following criteria in the selection of projects:
 - o Scientific quality.

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- o Relevance to strategic or economic priorities.
- Submission procedure. (Single entry point/Parallel submission)



Descriptors at the level of the programme / 2

- Funding model. (Common pot/Common pot with return rules/National pot/Mixed-mode).
- EU contribution. (yes/no).
- Partner countries

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- **Mode of integration.** (Agency, coordination, delegation, independent selection).
- **ERA category**. This descriptor provides a general categorization of joint programmes in terms of their relationships with the European research area
- **Programme type**. The main organizational settings of joint programmes and is based on a set of other descriptions.









Descriptors at the participation level / 1

- National role. (Full participation /Full participation with restricted funding / Limited participation)
- **Potential beneficiary sectors.** This descriptor identifies the performing sectors that are legally entitled to get funding from the programme.
- Funding agency. The funding agency receiving the funding amount specifically for this programme.
- Agency functions For each agency, indication is requested if it manages at least one of following functions:
 - o Definition of the programme goals and mission.
 - o Preparation and diffusion of the call.
 - o Management of the submission process.
 - o Evaluation and selection process.
 - o Decision on which projects to fund.
 - o Management of contract and payments.





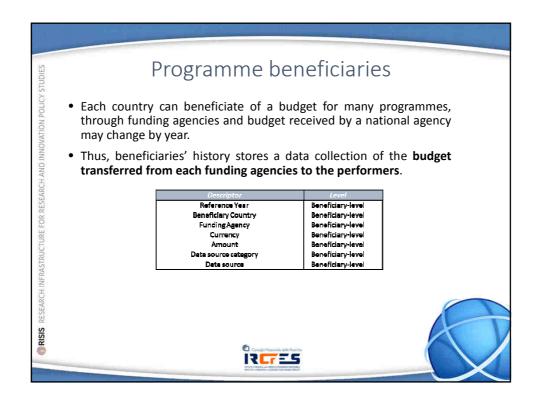
Descriptors at the participation level / 2

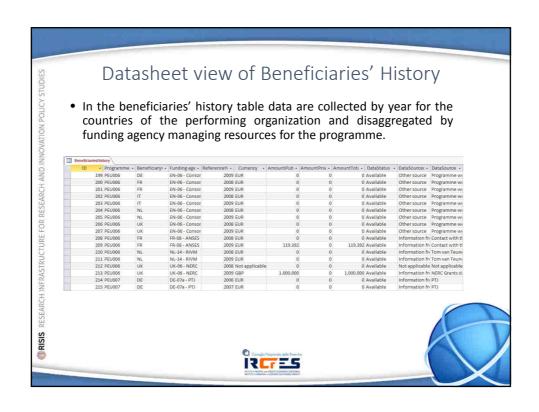
- Origin of funding. The exact origin of the budget, including the European Union budget, the national budgets and regional budgets.
- Funding country. The national state (or EU) from where funding originates
- **Budgeting**. The type of budgeting conforming to the following categories:
 - o Specific budget line
 - o Earmarked budget
 - o Delegated budget
- Amount. The funding for the whole year expressed in currency units.





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Descriptors at the beneficiaries' level

- Beneficiary country. Country the funding amount refers to.
- **Funding agency**. The name of the funding agency the funding originates from.
- **Currency**. The national currency used. Standard ISO currency codes is used.

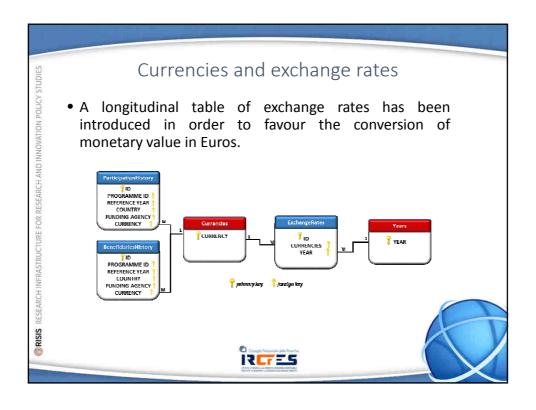
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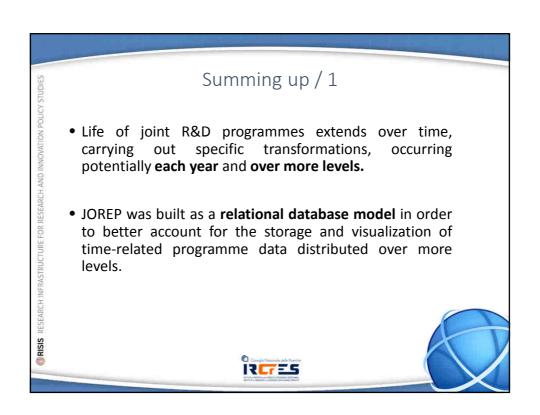
• **Amount**. For each year, the volume of funding transferred to public and private beneficiaries.





Overview on data-type of JOREP descriptors RISIS RESEARCH INFRASTRUCTURE FOR RESEARCH AND INNOVATION POLICY STUDIES VARIABLES LEVEL DATA TYPE Code Short text Closed list Binary Closed list Binary Short list Closed list C · Most of descriptors in JOREP are in the form of a closed list with predefined categories. Numeric data are also Code Closed list Short text Closed list Short text present in order to follow the funding Numeric Short text Short text Closed list Closed list Closed list Short text Numeric Short text Short text flows REFES





Summing up / 2

- Therefore, the sets of data refer to panel descriptors, placed at the same level of the programme as well as concerning attributes placed at participation level and at beneficiaries' level.
- JOREP contains both qualitative and quantitative descriptors. The combination of these descriptors characterise the organizational forms of joint R&D programmes, the models of integration, the networks of collaboration; identify the flows of funding... and so on.

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