

3 DATABASE DESCRIPTION

3.1 Composition of the sample

The first version of JoREP stored 97 joint R&D programmes, selected for having launched a call for proposal in 2008 or 2009⁵. The second version of the database have expanded by more than one third the set of joint R&D programmes (+55 programmes having launched a call in 2013 or 2014, see Tab. 3). JoREP 2.0 stores data on 99 European-level joint R&D programmes and 53 bilateral/multilateral joint R&D programmes.

Table 3. Sample of joint R&D programmes and comparison between the two waves of the study

JoREP 1.0 (first wave)	JoREP 2.0 (first + second wave)
<i>97 programmes</i>	<i>152 programmes</i>
33 ERA-Net/ERA-Net+ actions;	74 ERA-Net/ERA-Net+/Era-Net cofund actions;
2 Joint Technology Initiatives (JTIs);	3 Joint Technology Initiatives (JTIs);
4 Article 185 of the EC Treaty;	4 Article 185 of the EC Treaty;
2 European Social Foundation (ESF);	2 European Social Foundation (ESF);
COST; EUREKA; ESA;	COST; EUREKA (subdivided); ESA;
53 Bilateral/Multilateral Programmes	53 Bilateral/Multilateral Programmes;
	9 Joint Programming Initiatives (JPIs)

Note: Total counting refers to the unique ID codes assigned to the programmes. In JoREP 2.0, EUREKA was unpacked into its 3 funding instruments, and one large JPI into 3 actions.

Within the two waves, once the programmes were selected, data were collected from the reference years of the wave backwards over time. In the second release of the database, large programmes underwent a fine-grained disaggregation in order to collect specific information. As an example, EUREKA was unpacked into its three funding instruments: Individual Projects (short-term, market-oriented international development projects); Clusters (long-term thematic initiatives by to strengthen European competitiveness); Eurostars (an art. 185 of the Treaty on the Functioning of the European Union initiative, addressed primarily to small and medium-sized enterprises).

As for the national actors involved in the programmes, JoREP 2.0 stores descriptors concerning a set of 348 national funding agencies participating at least in one joint R&D programme included in the sample.

3.2 Relational structure and variables

JoREP 2.0 is designed as a relational database, which combines different sets of data dealing with the complex structure of joint R&D programmes.

A joint R&D programme is a multilevel entity, characterized by diversified attributes; programme descriptors refer to three different levels of analysis. One level concerns the internal features of the programme and includes its basic descriptive characteristics; another is the level of participation that refers to the financial participation of the countries and the relative funding agencies; the third one is the level of beneficiaries and concerns the allocations to the research performers. Furthermore, programmes can change over time, undergoing specific transformations, potentially each year. Along the years, internal changes related to the characteristics of the programme can occur and participation and allocation dynamics might change at the same time.

⁵ The launch of at least a call for proposal in the reference year reveals that a R&D programme is existing and “active” (Lepori & Reale, 2013).