

<b>Dimension</b>	<b><i>Research and development</i></b>
<b>Sub-dimension</b>	<b><i>Network of collaborations</i></b>
<b>Indicator name</b>	<b><i>R3: AI R&amp;D collaborating countries</i></b>
<b>Rationale</b>	It measures how much a region is able to develop a network of collaborations with other regions (within the same country or out of it). The creation of a network of interaction is fundamental in terms of information exchanges and knowledge accumulation. In addition, with specific reference to the innovation capacity, this is linked to the capacity of actor to interact among themselves. When multiple perspectives and different notions are brought together and converge towards a common objective, they are very likely to favour the generation of innovations (Lane & Maxfield, 2005).
<b>Definition</b>	Number of countries with which the considered areas have established AI-related R&D collaborations. The R&D activities considered are: (i) patent applications, (ii) frontier research publications (i.e., publication in top AI journals and conferences), and (iii) EU-funded projects (only when analysing the EU focus, to avoid an EU-centric biased view).
<b>Unit of measurement</b>	Number of countries (integer)
<b>Geographical coverage</b>	World
<b>Geographical granularity</b>	EU27 Member States
<b>Breakdown</b>	Type of R&D activity: patent applications, frontier research publications, and EU-funded projects FP7-H2020 (where relevant)
<b>Data source(s)</b>	JRC AI TES Dataset 2020, available at <a href="https://data.jrc.ec.europa.eu/collection/id-0126">https://data.jrc.ec.europa.eu/collection/id-0126</a> See description of the dataset in indicator G1.
<b>Reference date</b>	Period 2009-2020 (one value for the entire period)
<b>Known limitations</b>	
<b>References and Comments</b>	Reference: Samoili S., Righi R., Cardona M., López Cobo M., Vázquez-Prada Baillet M., and De Prato G., TES analysis of AI Worldwide Ecosystem in 2009-2018, EUR 30109 EN, Publications Office of the European Union, Luxembourg, 2020, ISBN 978-92-76-16661-0, doi:10.2760/85212, JRC120106. <a href="https://publications.jrc.ec.europa.eu/repository/handle/JRC120106">https://publications.jrc.ec.europa.eu/repository/handle/JRC120106</a> Lane, D.A., Maxfield, R.R. Ontological uncertainty and innovation. Journal of Evolutionary Economics, 15, 3–50 (2005)