

R - Research and Development

Dimension	<i>Research and development</i>
Sub-dimension	<i>R&D Activity</i>
Indicator name	<i>R1: AI players in AI R&D</i>
Rationale	It captures the presence of economic agents involved in the development of AI. The distinction by organisation type enables the analysis of the institutional profile of the key players in the technological advances and innovative activities in the domain, and the assessment of the overall propensity of firms and research institutions to be active in AI R&D activities.
Definition	Distribution of economic agents involved in AI-related R&D activities. 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).
Unit of measurement	Number of agents (integer)
Geographical coverage	World
Geographical granularity	Macro areas (top countries plus world regions), EU27 Member States
Breakdown	Organisation type: research institute, firm or governmental institution. Type of R&D activity: patent applications, frontier research publications, EU-funded projects FP7-H2020 (where relevant)
Data source(s)	JRC AI TES Dataset 2020, available at https://data.jrc.ec.europa.eu/collection/id-0126 See description of the dataset in indicator G1.
Reference date	Period 2009-2020 (one value for the entire period)
Known limitations	
References and Comments	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. https://publications.jrc.ec.europa.eu/repository/handle/JRC120106