Dimension	Research and development
Sub-dimension	R&D activity
Indicator name	R2: Al R&D activity score
Rationale	It assesses the level of involvement in AI-related R&D, by weighting the presence of AI economic agents in a geographic area with the amount of AI activity they develop.
Definition	Number of R&D activities developed by agents, computed as the sum of the fractional count for all the economic agents included in a geographical area. 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).
	To account for collaboration in the same activity by several economic agents, the fractional count of the activity corresponding to one economic agent is computed as 1 divided by the number of participating agents in that activity, so that the sum of all fractions adds up to 1.
Unit of measurement	Real positive number
Geographical coverage	World
Geographical granularity	Macro areas (top countries plus world regions), EU27 Member States
Breakdown	Type of R&D activity: patent applications, frontier research publications, and 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 Al 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