

Dimension	<i>Global view on the AI landscape</i>
Sub-dimension	<i>AI areas of strength</i>
Indicator name	<i>G4: AI thematic hotspots</i>
Rationale	It measures national or regional performance globally on each AI thematic area or subdomain, in terms of number of R&D and industrial AI activities. This indicator shows the intensity of a country's or a region's participation in a thematic area compared to all countries or regions globally.
Definition	Distribution of activities of a thematic area by geographic area: Number of activities of a geographic area in a thematic area, over number of worldwide (or EU) activities in that same thematic area.
Unit of measurement	Number of activities (percentage)
Geographical coverage	World
Geographical granularity	Macro areas (top countries plus world regions), EU27 Member States
Breakdown	Thematic areas (i.e., AI Services, Audio & Natural Language Processing (NLP), Automation, Autonomous Robotics, Computer Vision Applications, Connected and Automated Vehicles (CAVs), Internet of Everything (IoE), Machine Learning (ML) for Image Processing, Machine Learning (ML) Fundamentals)
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	The collected activities must contain text to be considered in this indicator.
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