

Coverage

The public COR&DIP© database includes:

- **Families of patent applications filed** in at least two offices, one of which among of the top five IP offices (IP5) in the world: CNIPA (Chinese National Intellectual Property Administration), EPO (European Patent Office), JPO (Japan Patent Office), KIPO (Korean Intellectual Property Office), and USPTO (United States Patent and Trademark Office).
- **Trademark applications** filed at EUIPO (EU Intellectual Property Office) and the USPTO. JPO trademarks have been included for the compilation of indicators but are not disseminated in the database.

Policy relevance

The COR&DIP© database has been used to **monitor major technological developments for key challenges**, e.g., on Climate Change Mitigation and Adaptation (2021), Artificial Intelligence (2019), the Digital Economy (2017) and the rise of the IP bundle (2015).

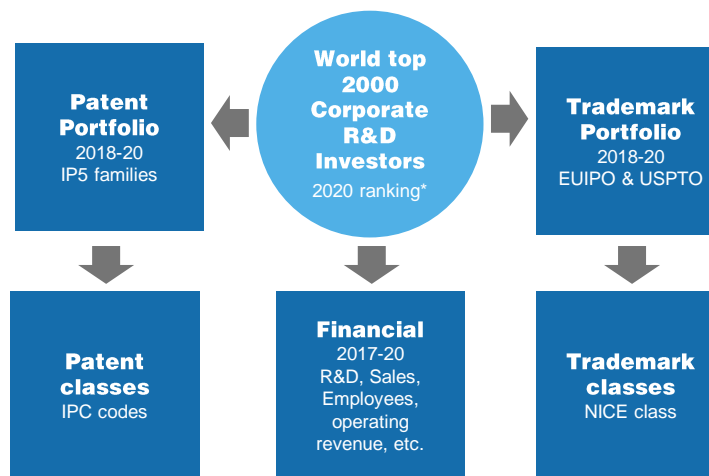


Download for free

To ensure transparency and foster further use by various communities (academia, industry, practitioners, and policy makers), the **COR&DIP© database is publicly available**.

EC-JRC-OECD COR&DIP v.4, 2023

Database structure



* Data refer to the ranking of R&D investments for the year 2020, as reported in the 2021 EU industrial R&D investment scoreboard.

Further information

- <http://oe.cd/ipstats>
- <https://data.jrc.ec.europa.eu/collection/id-00156#datasets>

References

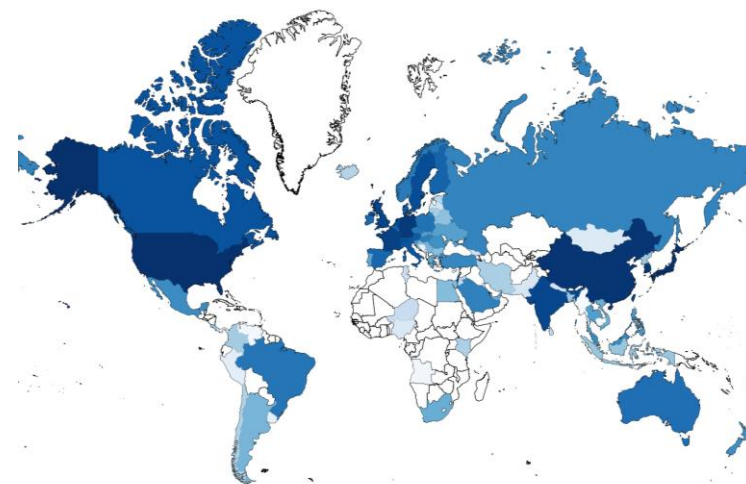
Amoroso S., Aristodemou L., Criscuolo C., Dechezleprêtre A., Dernis H., Grassano N., Moussiégt L., Napolitano L., Nawa D., Squicciarini M., Tübke A. (2021). *World Corporate Top R&D investors: Paving the way for climate neutrality*. A joint JRC and OECD report. EUR 30884 EN, Publications Office of the European Union, Luxembourg, 2021, ISBN 978-92-76-43373-6, doi:10.2760/49552, JRC126788

European Commission, Joint Research Centre, Grassano, N., Hernandez Guevara, H., Tübke, A. et al., *The 2021 EU industrial R&D investment scoreboard*, Publications Office of the European Union, 2022, <https://data.europa.eu/>, doi:10.2760/559391



The EC-JRC-OECD COR&DIP© Database v.4 - 2023

The Intellectual Property Bundle of Top Corporate R&D Investors

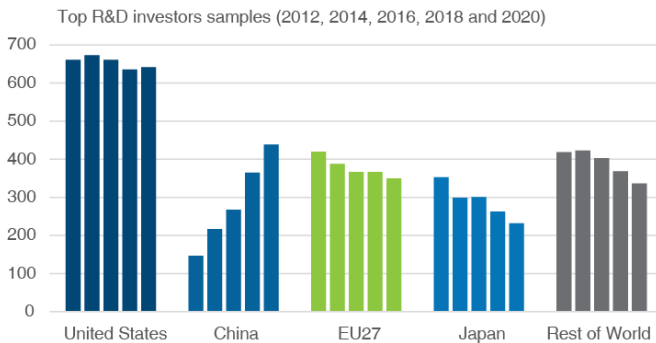


What is COR&DIP©?

The **Intellectual Property (IP) bundle of top corporate R&D investors** (EC-JRC-OECD COR&DIP©) database is the result of a collaboration between the European Commission, Joint Research Centre Directorate B (Fair & Sustainable Economy) and the OECD Directorate for Science, Technology and Innovation (STI).

For the **top 2000 corporate R&D performers** worldwide, the COR&DIP© database links the **Research & Development (R&D) activity with IP assets** (patents and trademarks).

Regional composition change of top R&D investors sample, 2012-20



The number of China-headquartered companies included in the top 2000 sample grew four-fold in the past decade, mostly at the expense of Japanese companies.

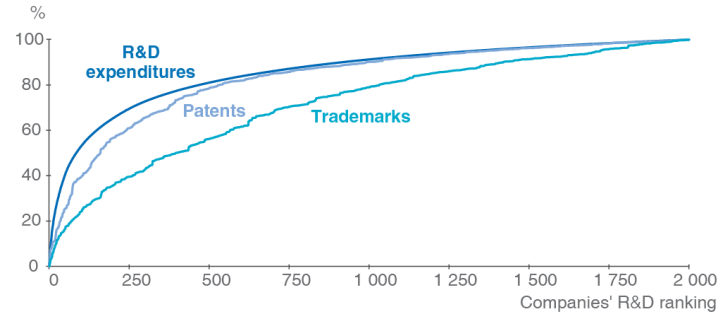
It relies on **EU Industrial R&D Investment Scoreboard data** produced by the EC-JRC, covering the top 2000 corporate R&D investors worldwide, and on the **IP database of the OECD STI Micro-data Lab** infrastructure.

The database is released every other year, since 2015.

Methodology

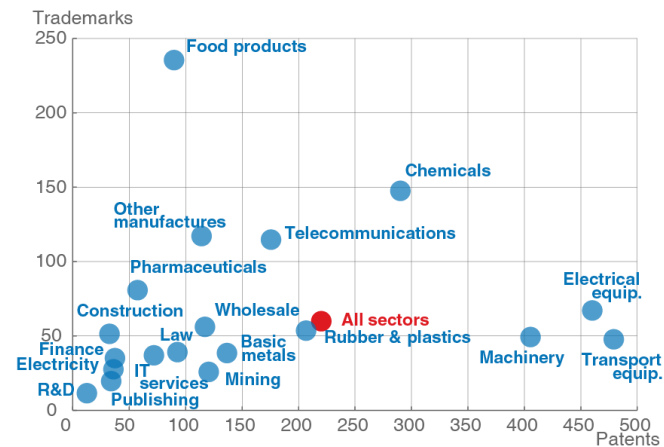
Top corporate R&D investors and their subsidiary structures (as of 2020 for the current version of COR&DIP) were linked to the **applicant names** in patent and trademark documents on a **country-by-country** basis using several string matching algorithms.

Cumulative distribution of R&D investments and the IP bundle of the world's top R&D investors, 2018-20



Global R&D and patenting activities are highly concentrated among the world's top 2 000 R&D investors.

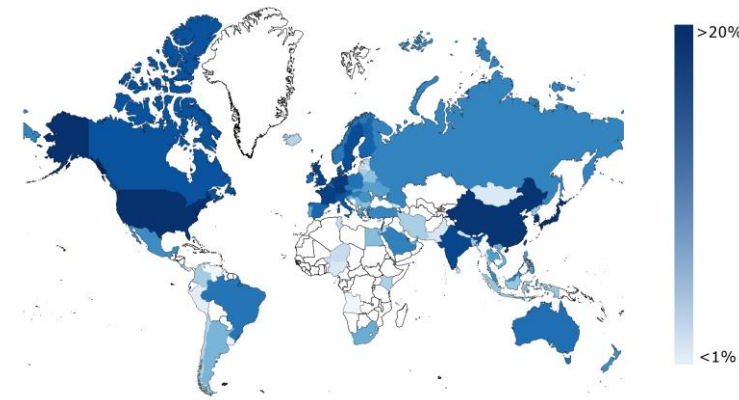
IP bundle owned by the world's top R&D investors, by sector, 2018-20



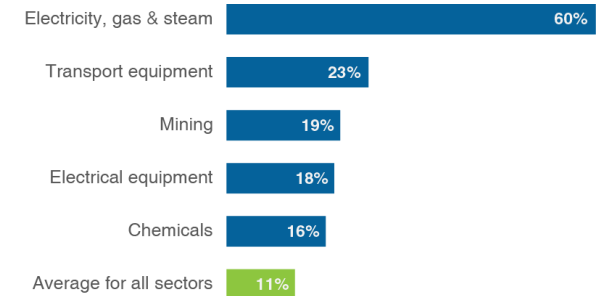
What is COR&DIP© used for?

- To characterise the **technological positioning of private R&D** by geographic region, headquarter country or sector.
- To better understand the **role the top 2000 companies play in addressing challenges** by developing, owning and commercialising technologies.

Inventors' location of patents owned by top R&D investors, 2018-20



Green patents in top R&D investors' portfolio, top five sector, 2018-20



Climate change mitigation technologies play an important role across sectors, especially in energy and transport industries.