

International trade in scientific and technical services

Methodology

Data on receipts (or payments) received within international trade in scientific and technical services express technological level of an economy, i.e. they inform about the scope of international trade with industrial property and knowledge related to advanced technologies.

Data on exports and imports of scientific and technical services come from a **survey of the CZSO on exports and imports of services (ZO 1-04)**. Individual items of those services are defined based on the **Extended Balance of Payments Services Classification (EBOPS 2010)** as follows:

1. **Research and development (SJ1)** and
2. **Architectural, engineering, scientific, and other technical services (SJ31)**

1) **Research and development (code SJ1)** includes:

- **Research and development services (codes SJ111 and SJ12)** including mainly revenues from sales of customised research and development services performed for another entity abroad (exports) or expenditure on the acquisition of R&D services from a foreign entity (imports). R&D services also include payments for R&D work performed within the same enterprise group, provided that it is on a commercial basis (a supplier-customer relationship).
- **Proprietary rights arising from research and development (SJ 112)** including the acquisition and sale of proprietary rights (e.g. patents, industrial designs, contractually protected technical know-how and production processes) arising from outcomes of research and development activity that enable perpetual use of outcomes of that activity. Licence fees for the right to use research and development outcomes protected by industrial or intellectual property rights are excluded from this item.

2) **Architectural, engineering, scientific, and other technical services** – hereinafter only referred to as **technical services (code SJ31)** includes:

- **architectural services (SJ311)**
- **engineering services (SJ312)** for building projects, energy projects, transport, industrial, etc. projects and related technical consultancy including geological, geophysical, and related surveying and consultancy services; and
- **scientific and other technical services (SJ313)** including **mainly technical testing and analysis** services in the area of composition, purity, and physical properties of materials and products, certification of products, vehicles, aircraft, pressure tanks, and other equipment, services of technical inspection of road transport vehicles, testing of medicinal products. This item also includes **geologic(al), geophysical and related services** and **scientific and technical services n.e.c.** including, for example, meteorological services or patent brokerage activities.