

SDG Goal 9 Industry, innovation and infrastructure

SDG Target 9.b Support domestic technology development, research and innovation in developing countries, including by ensuring a conducive policy environment for, inter alia, industrial diversification and value addition to commodities

SDG Indicator 9.b.1 Proportion of medium and high-tech industry value added in total value added

Time series Gross value added of medium- and high-tech industries to total manufacturing value added

1. General information on the time series

- Date of national metadata: 31 August 2023
- National data: <http://sdg-indicators.de/9-b-1/>
- Definition: Gross value added (GVA) of medium-tech (MHT) and high-tech industries (HIT) to total manufacturing value added is defined as GVA (at factor costs) of enterprises with their main economic activity in MHT or HIT in proportion to total GVA of manufacturing.
Following the Commission Regulation (EU) 2020/1197 of 30 July 2020 MHT are:
 - 20 Manufacture of chemicals and chemical products
 - 25.4 Manufacture of weapons and ammunition
 - 27 Manufacture of electrical equipment
 - 28 Manufacture of machinery and equipment n.e.c.
 - 29 Manufacture of motor vehicles, trailers and semi-trailers
 - 30 Manufacture of other transport equipment (excluding 30.1 Building of ships and boats and 30.3)
 - 30.2 Manufacture of railway locomotives and rolling stock
 - 30.4 Manufacture of militaryfighting vehicles
 - 30.9 Manufacture of transport equipment n.e.c.
 - 32.5 Manufacture of medical and dental instruments and supplies
 and HIT are:
 - 21 Manufacture of basic pharmaceutical products and pharmaceutical preparations
 - 26 Manufacture of computer, electronicand optical products
 - 30.3 Manufacture of air and spacecraft and related machinery
 according to the national classification of economic activities, version 2008 (WZ 2008). Manufacturing is classified as section C of WZ 2008. The WZ 2008 is compliant with the European classification (NACE Rev. 2) and similar to the international classification (ISIC Rev. 4).
- Disaggregation: enterprise definition; technology sectors

2. Comparability with the global metadata

- Date of global metadata: March 2022
- Global metadata: <https://unstats.un.org/sdgs/metadata/files/Metadata-09-0b-01.pdf>
- The time series is compliant with the global metadata.
The definition of GVA (basic prices or factor costs) is not clearly determined in the global metadata. Additionally, the global metadata description of the SDG indicator 9.b.1 does not foreseen a separate publication of MHT and HIT.

3. Data description

- The data is based on a special evaluation of the business structure statistics of the Federal Statistical Office. Until the reporting year 2021, the results were published on the basis of the enterprise definition "legal units". As of the 2018 reporting year, the EU enterprise definition has been newly introduced in the business structure statistics in order to comply with the EU Units Regulation. Preparation,

publication and presentation of the business structure statistics have changed as a result. To enable a comparison of the results according to the different definitions, the results for both enterprise definitions are presented in parallel for the reporting years 2018 to 2021. For more information on the change in enterprise definition, see the links provided under 5. Metadata on source data.

4. Access to data source

- Enterprises (EU), persons employed, turnover and other business and economic figures – GENESIS online 48112-0001:

<https://www-genesis.destatis.de/genesis//online?operation=table&code=48112-0001&bypass=true&levelindex=0&levelid=1693554631888>

5. Metadata on source data

- Quality Report – Structure Statistics in Manufacturing, Mining and Quarrying (only available in German):
<https://www.destatis.de/DE/Methoden/Qualitaet/Qualitaetsberichte/Industrie-Verarbeitendes-Gewerbe/struktur-verarbeitendes-gewerbe.pdf>
- Quality Report – Cost Structure Statistics in Manufacturing, Mining and Quarrying (only available in German):
<https://www.destatis.de/DE/Methoden/Qualitaet/Qualitaetsberichte/Industrie-Verarbeitendes-Gewerbe/kostenstruktur-verarbeitendes-gewerbe.pdf>
- Eurostat - Glossary: High-tech classification of manufacturing industries:
https://ec.europa.eu/eurostat/statistics-explained/index.php?title=Glossary:High-tech_classification_of_manufacturing_industries
- Structural business statistics and statistics for small and medium-sized enterprises according to the EU enterprise definition (only available in German):
https://www.destatis.de/DE/Methoden/WISTA-Wirtschaft-und-Statistik/2020/06/unternehmensstrukturstatistiken-062020.pdf?__blob=publicationFile
- Quality Report - Cross-divisional business statistics (only available in German):
https://www.destatis.de/DE/Methoden/Qualitaet/Qualitaetsberichte/Unternehmen/bereichsuebergreifende-unternehmensstatistik.pdf?__blob=publicationFile

6. Timeliness and frequency

- Timeliness: t + 18 months
- Frequency: Annual

7. Calculation method

- Unit of measurement: Percentage
- Calculation:

$$\text{Gross value added}_i = \frac{\text{Gross value added}_i \text{ [EUR]}}{\text{Gross value added of section C [EUR]}} \cdot 100 [\%]$$

$i \in \{\text{MHT}; \text{HIT}\}$