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: 12 January 2022

- National data: http://sdg-indikatoren.de/en/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)
    o 30.2 Manufacture of railway locomotives and rolling stock
    o 30.4 Manufacture of militaryfighting vehicles
    o 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: Not available.

2. Comparison with global metadata

- Date of global metadata: February 2021

- 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 and is gained in two separate statistics of the SDG Federal Statistical Office by a stratified random sample, namely the structure statistics and the cost structure statistics in the manufacturing, mining and quarrying. The first, the structure statistics captures enterprises with less than 20 persons employed and the second, the cost structure statistics surveys enterprises with 20 and more persons employed. Both statistics base on an European Regulation.

4. Accessibility of source data

- Not available.

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

6. Timeliness and frequency

- Timeliness: t + 18 months
- Frequency: Annual

7. Calculation method

- Unit of measurement: Percentage
- Calculation method:

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

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