Metadata Attachment

Reporting type

Choose an item.

SDG series

Choose an item.

Reference area

Choose an item.

Metadata Submission Form

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| 0. Indicator information | |
| Concept name | *Insert text, lists, tables, and images.* |
| 0. Indicator information |  |
| 0.a. Goal | Goal 9: Build resilient infrastructure, promote inclusive and sustainable industrialization and foster innovation |
| 0.b. Target | 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 |
| 0.c. Indicator | Indicator 9.b.1: Proportion of medium and high-tech industry value added in total value added |
| 0.d. Series |  |
| 0.e. Metadata update | Last updated: March 2020 |
| 0.f. Related indicators |  |
| 0.g. International organisations(s) responsible for global monitoring | Institutional information  Organization(s):  United Nations Industrial Development Organization (UNIDO) |

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| 1. Data reporter | |
| Concept name | *Insert text, lists, tables, and images.* |
| 1. Data reporter |  |
| 1.a. Organisation |  |
| 1.b. Contact person(s) |  |
| 1.c. Contact organisation unit |  |
| 1.d. Contact person function |  |
| 1.e. Contact phone |  |
| 1.f. Contact mail |  |
| 1.g. Contact email |  |

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| 2. Definition, concepts, and classifications | |
| Concept name | *Insert text, lists, tables, and images.* |
| 2. Definition, concepts, and classifications |  |
| 2.a. Definition and concepts | Concepts and definitions  Definition:  The proportion of medium-high and high-tech industry (MHT hereafter) value added in total value added of manufacturing (MVA hereafter) is a ratio value between the value added of MHT industry and MVA.  Concepts:  The value added of an industry (industry value added) is a survey concept that refers to the given industry’s net output derived from the difference of gross output and intermediate consumption. Manufacturing sectoris defined according to the International Standard Industrial Classification of all Economic Activities (ISIC) Revision 3 (1990) or Revision 4 (2008). It refers to industries belonging to sector D in Revision 3 or sector C in Revision 4.  Technology classification is based on research and development (R&D) expenditure relative to value added otherwise referred as R&D intensity. Data for R&D intensity are presented in a report (Galindo-Rueda and Verger, 2016) published by the OECD in 2016, which also proposes a taxonomy for industry groups with different ranges of R&D expenditure relative to their gross value added. MHT industries have traditionally been defined exclusively to manufacturing industries. However, there have been recent efforts (Galindo-Rueda and Verger, 2016) to extend the definition to non-manufacturing industries as well. Nevertheless, medium-high and high technology sectors also in new paper are primarily represented by manufacturing industries.   |  |  |  |  | | --- | --- | --- | --- | | ISIC Rev.4 | Description | ISIC Rev.3 | Description | | 20 | Manufacture of chemicals and chemical products | 24 | Manufacture of chemicals and chemical products | | 21 | Manufacture of basic pharmaceutical products and pharmaceutical preparations | 29 | Manufacture of machinery and equipment n.e.c. | | 252 | Manufacture of weapons and ammunition | 30 | Manufacture of office, accounting and computing machinery | | 26 | Manufacture of computer, electronic and optical products | 31 | Manufacture of electrical machinery and apparatus n.e.c. | | 27 | Manufacture of electrical equipment | 32 | Manufacture of radio, television and communication equipment and apparatus | | 28 | Manufacture of machinery and equipment n.e.c. | 33 | Manufacture of medical, precision and optical instruments, watches and clocks | | 29 | Manufacture of motor vehicles, trailers and semi-trailers | 34 | Manufacture of motor vehicles, trailers and semi-trailers | | 30\* | Manufacture of other transport equipment | 35\*\* | Manufacture of other transport equipment | | 325 | Manufacture of medical and dental instruments and supplies |  |  |   **\*** Excluding 301 (Building of ships and boats)  **\*\*** Excluding 351 (Building and repairing of ships and boats)  MVA is the value added of manufacturing industry, which is Section C of ISIC Rev.4, and Section D of ISIC Rev.3. |
| 2.b. Unit of measure |  |
| 2.c. Classifications |  |

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| 3. Data source type and data collection method | |
| Concept name | *Insert text, lists, tables, and images.* |
| 3. Data source type and collection method |  |
| 3.a. Data sources | Data sources  Description:  Data can be found in UNIDO INDSTAT4 Database by ISIC Revision 3 and ISIC Revision 4 respectively. |
| 3.b. Data collection method | Collection process:  Data are collected using General Industrial Statistics Questionnaire which is filled by NSOs and submitted to UNIDO annually. Data for OECD countries are obtained directly from OECD. Country data are also collected from official publications and official web-sites. |
| 3.c. Data collection calendar | Calendar  Data collection:  Data are collected annually from NSOs and OECD. |
| 3.d. Data release calendar | Data release:  UNIDO INDSTAT database is updated between March and April every year. |
| 3.e. Data providers | Data providers  National statistical offices (NSOs) in non-OECD countries, and OECD countries by OECD. |
| 3.f. Data compilers | Data compilers  Name:  United Nations Industrial Development Organization (UNIDO) |
| 3.g. Institutional mandate |  |

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| 4. Other methodological considerations | |
| Concept name | *Insert text, lists, tables, and images.* |
| 4. Other methodological considerations |  |
| 4.a. Rationale | Rationale:  Industrial development generally entails a structural transition from resource-based and low technology activities to MHT activities. A modern, highly complex production structure offers better opportunities for skills development and technological innovation. MHT activities are also the high value addition industries of manufacturing with higher technological intensity and labour productivity. Increasing the share of MHT sectors also reflects the impact of innovation. |
| 4.b. Comment and limitations | Comments and limitations:  Value added by economic activity should be reported at least at 3-digit ISIC for compiling MHT values. |
| 4.c. Method of computation | Methodology  Computation method:  The indicator is calculated as the share of the sum of the value added from MHT economic activities to MVA.  (Sum of value added in MHT economic activities/MVA) \*100 |
| 4.d. Validation |  |
| 4.e. Adjustments |  |
| 4.f. Treatment of missing values (i) at country level and (ii) at regional level | Treatment of missing values:   * ***At country level:***   Missing values are imputed based on the methodology from Competitive Industrial Performance Report (UNIDO, 2016)   * ***At regional and global levels:***   Imputation applied at country level. |
| 4.g. Regional aggregations | Regional aggregates:  Regional and global aggregates are calculated as a weighted average of countries’ MHT shares in a group. Weights are taken based on the MVA share in a group (UNIDO MVA Database). |
| 4.h. Methods and guidance available to countries for the compilation of the data at the national level |  |
| 4.i. Quality management |  |
| 4.j Quality assurance |  |
| 4.k Quality assessment |  |

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| 5. Data availability and disaggregation | |
| Concept name | *Insert text, lists, tables, and images.* |
| 5. Data availability and disaggregation | Data availability  Description:  More than 140 economies  Time series:  Data for this indicator are available as of 2000 in the UN Global SDG Database, but longer time series are available in the CIP database.  Disaggregation:  No disaggregation available. |

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| 6. Comparability/deviation from international standards | |
| Concept name | *Insert text, lists, tables, and images.* |
| 6. Comparability/deviation from international standards | Sources of discrepancies:  Conversion to USD or difference in ISIC combinations may cause discrepancy between national and international figures. |

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| 7. References and documentation | |
| Detailed concept name | *Insert text, lists, tables, and images.* |
| 7. References and Documentation | References  URL:  [www.unido.org/statistics](http://www.unido.org/statistics)  <https://stat.unido.org/>  References:  UNIDO Publication - The Industrial Competitiveness of Nations 2013  Competitive Industrial Performance (CIP) Report 2016  International Standard Industrial Classification of All Economic Activities 2008  Galindo-Rueda, F. and F. Verger (2016). OECD Taxonomy of Economic Activities Based on R&D Intensity, OECD Science, Technology and Industry Working Papers, 2016/04, OECD Publishing, Paris. Available at: <http://dx.doi.org/10.1787/5jlv73sqqp8r-en> |