

October 2023



unesco

Institute for Statistics



**Changes to content and
format of UIS Research and
Development (R&D) data
releases: since March 2023**



This document summarizes changes to the presentation of Science, Technology and Innovation (STI) data and indicators in the UIS.Stat Data Centre (<http://data.uis.unesco.org>) and in the Bulk Data Download Service (BDDS) files (<https://apiportal.uis.unesco.org/bdds>), since March 2023, due to the UIS current focus on the production and dissemination of the UIS core indicators for STI that include SDG 9.5.1 and 9.5.2, and a set of selected gender-disaggregated R&D indicators.

TABLE 1: NEW STRUCTURE OF UIS.STAT THEME TREE (<http://data.uis.unesco.org>)

Main themes	March 2021 data release	Since March 2023 data release
Research and experimental development	Sustainable Development Goal 9.5 theme tree	No changes made to this theme tree: <ul style="list-style-type: none"> – 9.5.1: Research and development expenditure as a proportion of GDP (http://data.uis.unesco.org/index.aspx?queryid=3684). – 9.5.2: Researchers (in full-time equivalent) per million inhabitants (http://data.uis.unesco.org/index.aspx?queryid=3685).
	Human resources in research and development (R&D) theme tree - (including some duplicated SDG 9.5 indicators and some gender-disaggregated R&D indicators)	Theme tree removed. SDG indicators are presented in SDG 9.5 theme tree. A set of selected gender-disaggregated R&D indicators are presented in 'Other policy relevant R&D indicators' theme tree: (http://data.uis.unesco.org/index.aspx?queryid=3884)
	Expenditure on research and development (R&D) - (including some duplicated SDG 9.5 indicators)	Theme tree removed. SDG indicators are presented in SDG 9.5 theme tree.
Innovation	Innovation theme tree	Theme tree removed.
UIS Data API	UIS API (https://apiportal.uis.unesco.org/legacy-tools) replaced by BDDS files: (https://apiportal.uis.unesco.org/bdds): BDDS files for SDG 9.5 indicators: (https://uis.unesco.org/sites/default/files/documents/bdds/SCN-SDG.zip); BDDS files for Other policy relevant R&D indicators (Gender-disaggregated R&D indicators): (https://uis.unesco.org/sites/default/files/documents/bdds/SCN-SDG.zip).	

**TABLE 2: CHANGES TO LIST OF INDICATORS IN UIS.STAT (<http://data.uis.unesco.org>)**

Main themes	March 2021 data release	Since March 2023 data release
Research and experimental development	Sustainable Development Goal 9.5 indicators	No changes made to these indicators: <ul style="list-style-type: none"> – 9.5.1: Research and development expenditure as a proportion of GDP (http://data.uis.unesco.org/index.aspx?queryid=3684). – 9.5.2: Researchers (in full-time equivalent) per million inhabitants (http://data.uis.unesco.org/index.aspx?queryid=3685).
	Human resources in research and development (R&D): non-SDG indicators: <ul style="list-style-type: none"> – Total R&D personnel by sex, per million inhabitants, per thousand labour force, per thousand total employment (in full-time equivalents (FTE) and Headcounts (HC)). – R&D personnel by function (FTE and HC). – Total R&D personnel by sector of employment and sex (FTE and HC). – Researchers by sex, per million inhabitants, per thousand labour force, per thousand total employment (FTE and HC). – Researchers by sector of employment and sex (FTE and HC). – Researchers by formal qualification, sector of employment and sex (FTE and HC). – Researchers by field of R&D, sector of employment and sex (FTE and HC). – Researchers by age, sector of employment and sex (HC). – Researchers by seniority grade/level, sector of employment and sex (HC). – Technicians and equivalent staff by sex, per million inhabitants, per thousand labour force, per thousand total employment (FTE and HC). – Technicians and equivalent staff by sector of employment and sex (FTE and HC). – Other supporting staff by sex (FTE and HC) – Other supporting staff by sector of employment and sex (FTE and HC). 	Removed from dissemination and archived in a BDDS file: https://uis.unesco.org/sites/default/files/documents/bdds/SCIARCHIVE-MAR2021.zip SDG indicators are presented in SDG 9.5 theme tree. A set of selected gender-disaggregated R&D indicators are presented in 'Other policy relevant R&D indicators' theme tree: http://data.uis.unesco.org/index.aspx?queryid=3884 . <ul style="list-style-type: none"> – Female researchers as a percentage of total researchers (in headcounts - HC and full-time equivalents - FTE)



	<p>Expenditure on research and development (R&D): non-SDG indicators:</p> <ul style="list-style-type: none"> – Gross domestic expenditure on R&D (GERD), GERD as a percentage of GDP, GERD per capita and GERD per researcher. – GERD by source of funds and sector of performance. – GERD by field of R&D and sector of performance. – GERD by type of costs and sector of performance. – GERD by type of R&D activity and sector of performance. 	<p>Removed from dissemination and archived in a BDDS file: https://uis.unesco.org/sites/default/files/documents/bdds/SCIARCHIVE-MAR2021.zip</p> <p>SDG indicators are presented in SDG 9.5 theme tree.</p>
<p>Innovation</p>	<p>Innovation indicators</p>	<p>Removed from dissemination and archived in a BDDS file: https://uis.unesco.org/sites/default/files/documents/bdds/INNOARCHIVE-APR2017.zip</p>