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# Changes to content and format of UIS June 2022 Research and Development (R&D) data release

June 2022



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>) 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.

**Table 1: New structure of UIS.Stat theme tree (<http://data.uis.unesco.org>)**

Main themes	March 2021 data release	June 2022 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"> <li>– 9.5.1: Research and development expenditure as a proportion of GDP (<a href="http://data.uis.unesco.org/index.aspx?queryid=3684">http://data.uis.unesco.org/index.aspx?queryid=3684</a>).</li> <li>– 9.5.2: Researchers (in full-time equivalent) per million inhabitants (<a href="http://data.uis.unesco.org/index.aspx?queryid=3685">http://data.uis.unesco.org/index.aspx?queryid=3685</a>).</li> </ul>
	Human resources in research and development (R&D) theme tree - (including some duplicated SDG 9.5 indicators)	Theme tree removed; SDG indicators are presented in SDG 9.5 theme tree.
	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 ( <a href="https://apiportal.uis.unesco.org/legacy-tools">https://apiportal.uis.unesco.org/legacy-tools</a> ) replaced by BDDS files: ( <a href="https://apiportal.uis.unesco.org/bdds">https://apiportal.uis.unesco.org/bdds</a> ); SDG 9.5 indicators: ( <a href="https://apimgmtstzgjpfq2u763lag.blob.core.windows.net/content/MediaLibrary/bdds/SCI.zip">https://apimgmtstzgjpfq2u763lag.blob.core.windows.net/content/MediaLibrary/bdds/SCI.zip</a> ).	


**Table 2: Changes to list of indicators in UIS.Stat (<http://data.uis.unesco.org>)**

Main themes	March 2021 data release	June 2022 data release
Research and experimental development	Sustainable Development Goal 9.5 indicators	No changes made to these indicators: <ul style="list-style-type: none"> <li>– 9.5.1: Research and development expenditure as a proportion of GDP (<a href="http://data.uis.unesco.org/index.aspx?queryid=3684">http://data.uis.unesco.org/index.aspx?queryid=3684</a>).</li> <li>– 9.5.2: Researchers (in full-time equivalent) per million inhabitants (<a href="http://data.uis.unesco.org/index.aspx?queryid=3685">http://data.uis.unesco.org/index.aspx?queryid=3685</a>).</li> </ul>
	Human resources in research and development (R&D): non-SDG indicators: <ul style="list-style-type: none"> <li>– Total R&amp;D personnel by sex, per million inhabitants, per thousand labour force, per thousand total employment (in full-time equivalents (FTE) and Headcounts (HC)).</li> <li>– R&amp;D personnel by function (FTE and HC).</li> <li>– Total R&amp;D personnel by sector of employment and sex (FTE and HC).</li> <li>– Researchers by sex, per million inhabitants, per thousand labour force, per thousand total employment (FTE and HC).</li> <li>– Researchers by sector of employment and sex (FTE and HC).</li> <li>– Researchers by formal qualification, sector of employment and sex (FTE and HC).</li> <li>– Researchers by field of R&amp;D, sector of employment and sex (FTE and HC).</li> <li>– Researchers by age, sector of employment and sex (HC).</li> <li>– Researchers by seniority grade/level, sector of employment and sex (HC).</li> <li>– Technicians and equivalent staff by sex, per million inhabitants, per thousand labour force, per thousand total employment (FTE and HC).</li> <li>– Technicians and equivalent staff by sector of employment and sex (FTE and HC).</li> <li>– Other supporting staff by sex (FTE and HC)</li> <li>– Other supporting staff by sector of employment and sex (FTE and HC).</li> </ul>	Removed from dissemination and archived in a BDDS file: <a href="https://apimgmtstzgjpfq2u763lag.blob.core.windows.net/content/MediaLibrary/bdds/SCIARCHIVE-MAR2021.zip">https://apimgmtstzgjpfq2u763lag.blob.core.windows.net/content/MediaLibrary/bdds/SCIARCHIVE-MAR2021.zip</a> .  SDG indicators are presented in SDG 9.5 theme tree.



	<p>Expenditure on research and development (R&amp;D): non-SDG indicators:</p> <ul style="list-style-type: none"> <li>– Gross domestic expenditure on R&amp;D (GERD), GERD as a percentage of GDP, GERD per capita and GERD per researcher.</li> <li>– GERD by source of funds and sector of performance.</li> <li>– GERD by field of R&amp;D and sector of performance.</li> <li>– GERD by type of costs and sector of performance.</li> <li>– GERD by type of R&amp;D activity and sector of performance.</li> </ul>	<p>Removed from dissemination and archived in a BDDS file:  <a href="https://apimgmtstzgjpfq2u763lag.blob.core.windows.net/content/MediaLibrary/bdds/SCIARCHIVE-MAR2021.zip">https://apimgmtstzgjpfq2u763lag.blob.core.windows.net/content/MediaLibrary/bdds/SCIARCHIVE-MAR2021.zip</a>.</p> <p>SDG indicators are presented in SDG 9.5 theme tree.</p>
Innovation	Innovation indicators	<p>Removed from dissemination and archived in a BDDS file:  <a href="https://apimgmtstzgjpfq2u763lag.blob.core.windows.net/content/MediaLibrary/bdds/INNOARCHIVE-APR2017.zip">https://apimgmtstzgjpfq2u763lag.blob.core.windows.net/content/MediaLibrary/bdds/INNOARCHIVE-APR2017.zip</a>.</p>