



INITIATIVE ON

Gender Equality

GENDER
Platform

Socio-Technical Innovation Bundles (STIB) Dashboard

Muteti T., Lutomia C., Nchanji E., Ketema, D., Mwanzia L., Puskur, R., Gartaula, H.N., Mukhopadhyay, P., Mapedza, E. Chadha D., (2023). Identifying and selecting gender-responsive climate-smart sociotechnical innovation bundles: Framework for a situational analysis. CGIAR Initiative on Gender Equality. Alliance of Bioversity International and CIAT (ABC).

Introduction

Socio-Technical Innovation Bundles (STIBs) are a combination or combinations of technological, technical and social innovations co-designed to address women's empowerment and resilience (inclusive of men and youths). Non-STIBs combine only one or two types of innovations rather than all three. Here, we refer to bundles of only technological and technical, technical and social or technological and social bundles.

Work package 2 (EMPOWER) of the CGIAR Initiative on Gender Equality (HER+) aims to identify, develop, and test context-specific STIBs to address climate change. The empower work package focuses on co-designing and testing partnerships and pathways to enhance uptake of climate smart STIBs by men, women, and youth. The goal of socio-technical innovations bundling is ultimately develop a toolbox that guides data, tools, and processes for creating, implementing, and evaluating climate-smart STIBs to empower women, men, youths and enhance their resilience.

Thus, we have co-developed and co-designed a dashboard with an interactive map that dynamically displays the global distribution of socio-economic datasets, data, and tools that facilitate bundling in different local, regional, and thematic contexts. This visualization effectively conveys the results and alignment of the innovation bundles with the five CGIAR impact areas. Gender and socioeconomic studies from the CGIAR Gender Impact Platform were used to compile the existing STIBs, and more data from learning labs in Kenya, Ethiopia, and India will be added subsequently. Additional socio-economic and gender inventory data has been extracted from FAO’s Agricultural Innovation Systems and the World Bank, but not clustered into different bundles. Out of 5504 datasets currently housed in the dashboard, 450 have been assessed for their alignment with EMPOWER work package definition of STIBs – 218 are STIBs and 232 are non-STIBS – with the prospect of adding more datasets.. The remaining 5054 datasets are inventory data. The inventory data contains 151 from the Living Standards Measurement Study (LSMS), 1314 from FAO’s Agricultural Innovation Systems (AIS), and 3589 from the World Bank’s Agriculture Data.

An accessible API has been created to facilitate seamless integration with other CGIAR platforms to facilitate data access, global distribution of visualization, and support innovation bundling. The STIBs dashboard and associated API infrastructure are valuable resources with immense potential for informing and supporting the effective implementation of socio-technical innovation bundles. The figure below shows the core components of the STIB dashboard:

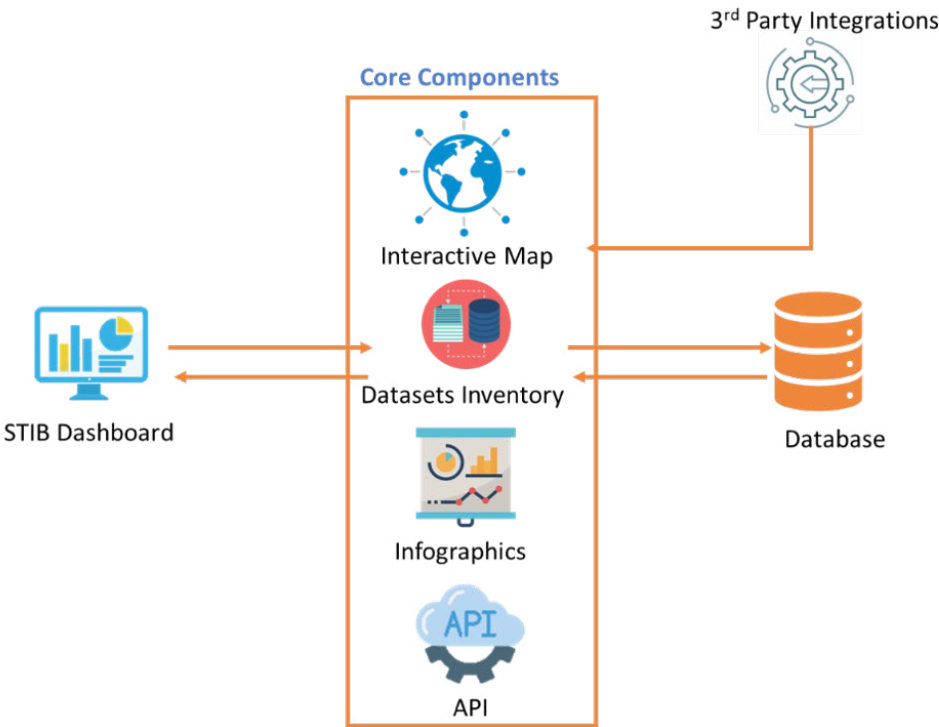


Figure 1: STIBs core components

The objectives of STIBs Dashboard

The objectives of the STIBs dashboard are:

- To facilitate collecting and curating relevant datasets on STIBs that promote empowerment and resilience, especially for women.
- To act as an inventory of available gender and socio-economic datasets.
- To visually represent and aggregate the impact of socio-technical bundles using the available gender and socio-economic datasets.
- To visualize an interactive map showing the distribution of socio-technical innovation bundles across various communities, countries, and regions.
- To provide an Application Programming Interface (API) enabling seamless data transfer between the Socio-Technical Innovation Bundles (STIBs) Dashboard and other CGIAR platforms.

Contribution of STIB Dashboard

The primary contribution of the STIBs dashboard to the initiative lies in its function as a centralized knowledge repository and hub. It systematically collects and curates relevant datasets associated with socio-technical innovation bundles, providing a comprehensive inventory of gender and socio-economic information where we can assess the impact or effectiveness of different combinations of bundles on women, men, and youth towards empowerment and resilience in real-time. This knowledge hub not only enhances the accessibility of crucial data but also contributes to the collaborative potential of valuable resources and links all data to the five CGIAR impact areas and the Sustainable Development Goals. Additionally, the STIBs dashboard advances socio-economic and gender research, and its effectiveness creates funding opportunities for continuous innovation bundling. The findings and recommendations serve as a tool for resource mobilization and can contribute significantly to advancing women's access, resilience, and empowerment by implementing the recommendations.

Please find the link to the dashboard: <https://stibs.alliance.cgiar.org/>

CITATION

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To learn more about this Initiative, please visit this webpage.

To learn more about this and other Initiatives in the CGIAR Research Portfolio, please visit www.cgiar.org/cgiar-portfolio

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