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A methodological approach to map complex research systems to the Sustainable Development Goals: Analysis of CIRAD publications

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Abstract. Mapping of Cirad (Agritrop) publications 2016-2023. Network Properties: Number of nodes: 9812, Number of links: 48580. Mapping complex research systems to the Sustainable Development Goals (SDGs) using publications as an indicator of research activity. The approach is applied to analyse the research focus of CIRAD, a French agricultural research organisation, by mapping its publications to the SDGs. The article highlights the challenges associated with mapping publications to the SDGs, including the complexity of research systems, ambiguity in classifying the SDGs and data availability. The methodology uses advanced search functionalities and data extraction techniques from Agritrop databases, followed by visualization tools such as Gephi to explore publication trends, collaboration networks and thematic priorities. The analysis reveals that CIRAD's research is aligned with several SDGs, with a primary focus on food security and nutrition (SDG 2), sustainable agriculture and rural development (SDGs 1 and 8), biodiversity conservation and environmental sustainability (SDGs 13 and 15) and gender equality and women's empowerment (SDG 5). This research offers valuable insights into the potential of mapping publications to understand the contribution of research institutions to the SDGs and guide evidence-based decision-making aligned with sustainable development.

Interact Version : <https://metroteach.com/SDG/index.html>

