

## Challenge G

- **Challenge title:** Post office, postal service and digital service mapping platform
  - **Problem statement:** Effective postal services rely on a strong foundation of infrastructure. This includes reliable road infrastructure, electricity and Internet connectivity. The state of this infrastructure directly impacts delivery possibilities, time frames, and the viability of sophisticated digital services.
  - **Challenge goal:** Participants are tasked with developing a tool that, by combining data on existing services with infrastructure data, identifies geographical areas, primarily in developing countries, for digital services expansion. Furthermore, the tool should use clustering analysis to categorize areas based on which services are missing (e.g. low population density, remote areas, islands, poor infrastructure).
  - **Special considerations:**
    - **Data:** To test out this tool, it is proposed to use data from countries with developed open-data practices (e.g., Brazil).
    - **Tools:** Consider using open-source tools to create the platform (e.g. Shiny for R/Python, GeoNetwork, Dash).
    - **Collaboration:** The tool should be replicable and open. By sharing the tool and its underlying code, and by providing documentation, the tool could be expanded to different geographical areas. Similarly, new data layers could be added.
    - **Accessibility:** The tool should be accessible for a non-technical audience.
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