WIKIDATA LAB XXXIII

Mapping of Cultural Heritage

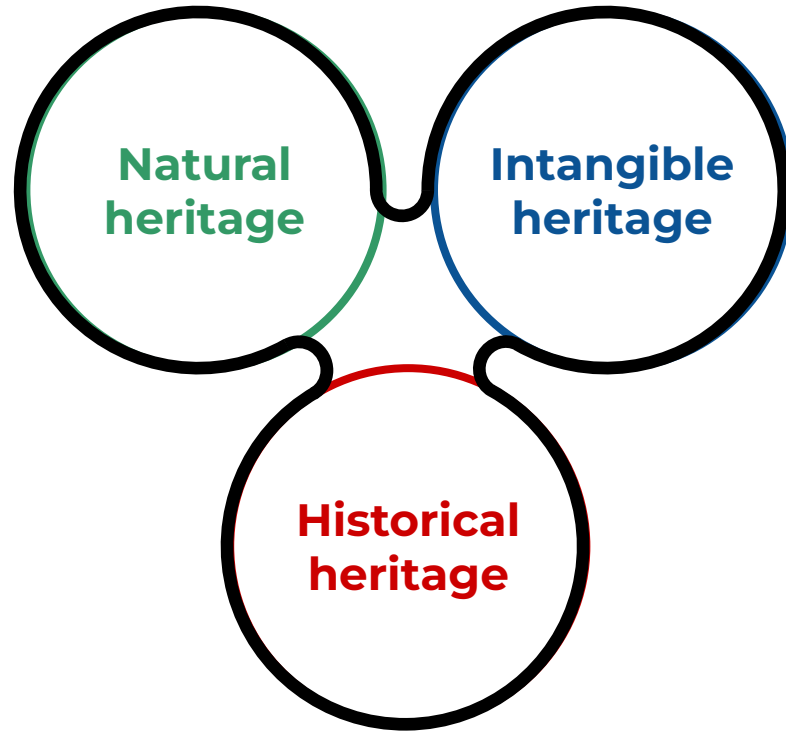**Éder Porto, Wiki Movimento Brasil**

Who am I?

- Applied mathematician;
- Software developer;
- Graphic designer;
- Wikimedian;
- Products & Resources manager at WMB;
- Wiki Loves Monuments Brasil organizer since 2019.
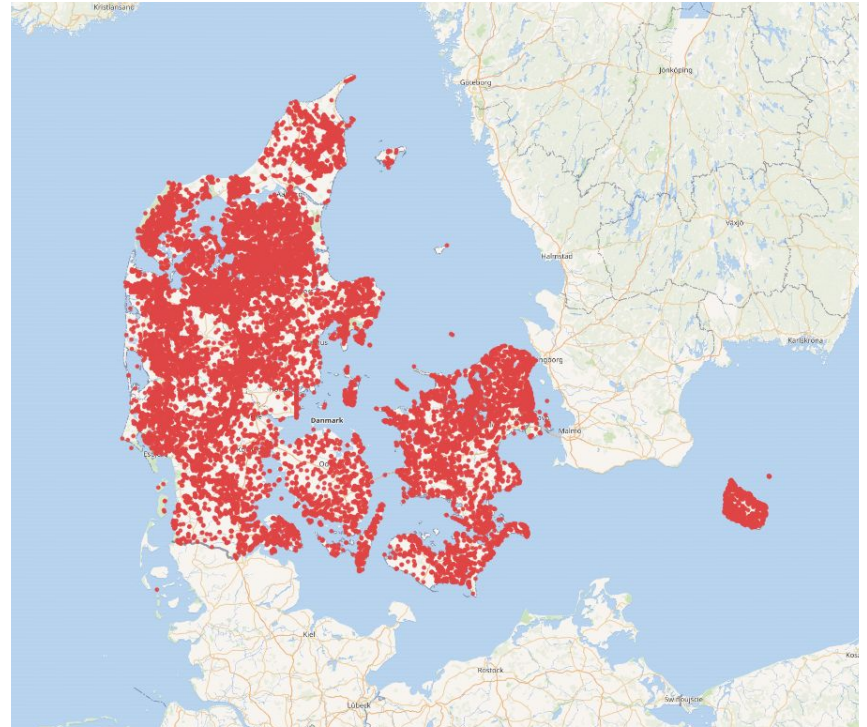

Éder Porto | EPorto (WMB)
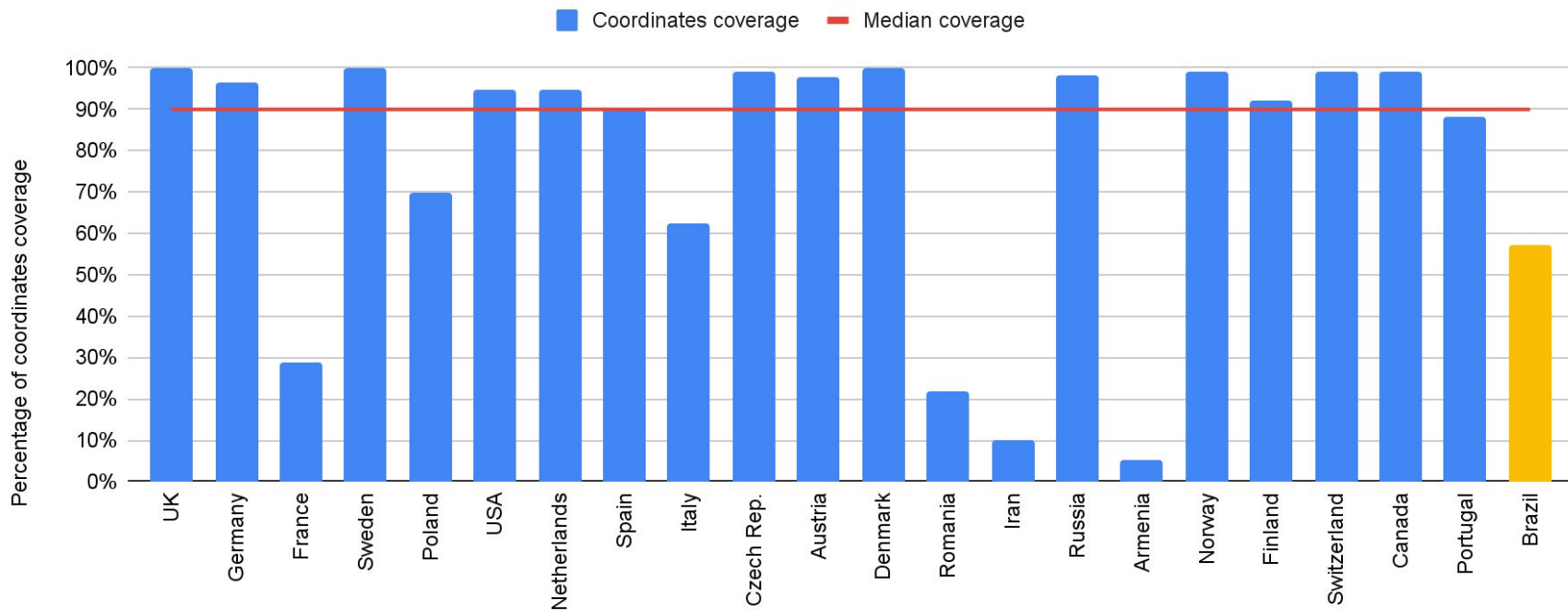
Cultural heritage

Lemos, 2017

Status of the coordinates of cultural heritage items on Wikidata

- On Wikidata, there are around 2 million items with the property [heritage designation (P1435)](#) set.
- The median coverage of monuments with coordinates on Wikidata is around 90%, based on the countries with more than 1 thousand items on Wikidata.
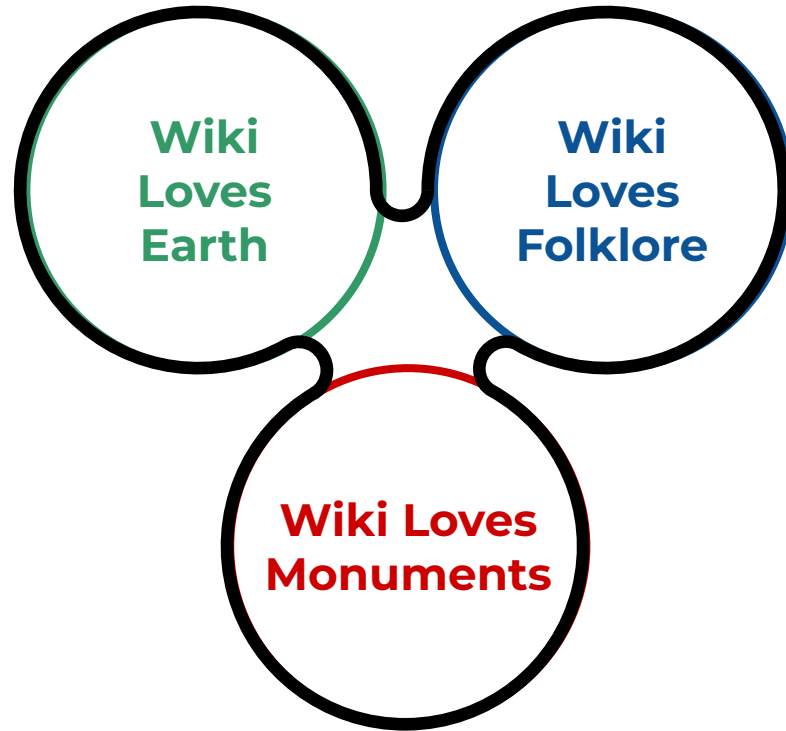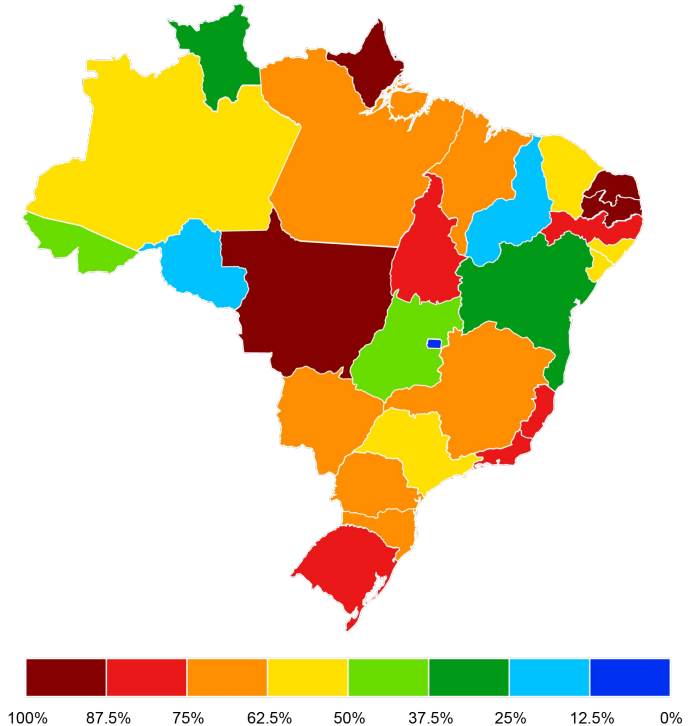
Wikidata coordinates coverage of heritage items

Why are geographic coordinates important for cultural heritage sites items on Wikidata?

Photographic competitions

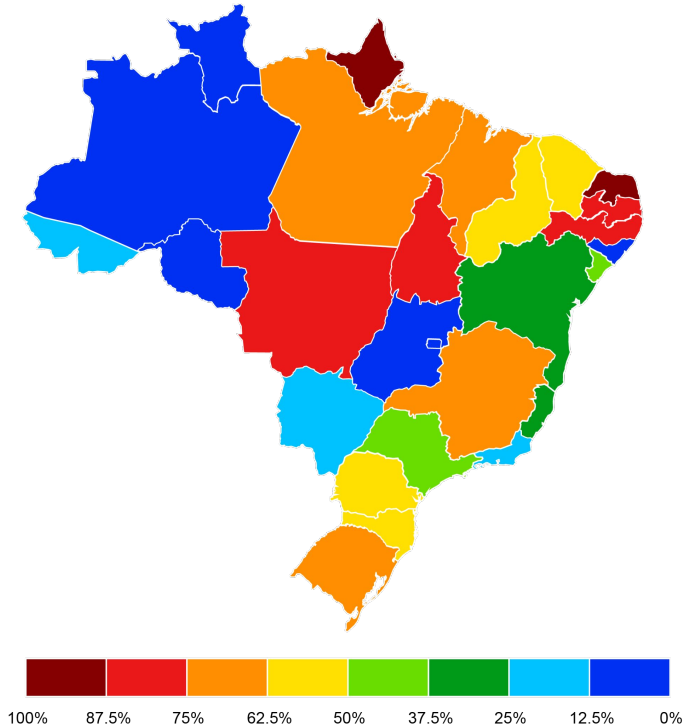# Brazilian states by percentage of monuments without images in Wikidata

- We have identified a high correlation (0.72) between the number of images and coordinates statements in Wikidata;

| 100% | 87.5% | 75% | 62.5% | 50% | 37.5% | 25% | 12.5% | 0% |

Brazilian states by percentage of monuments without coordinates in Wikidata

- *If people can't find the monument in the maps, how will they photograph it?*

100% 87.5% 75% 62.5% 50% 37.5% 25% 12.5% 0%

- A recurrent report we get and face on photographic competitions like these is the localization of the items.
  - Helps photographers to build a itinerary on their walks;
  - Helps organizers to disambiguate possible duplicates;
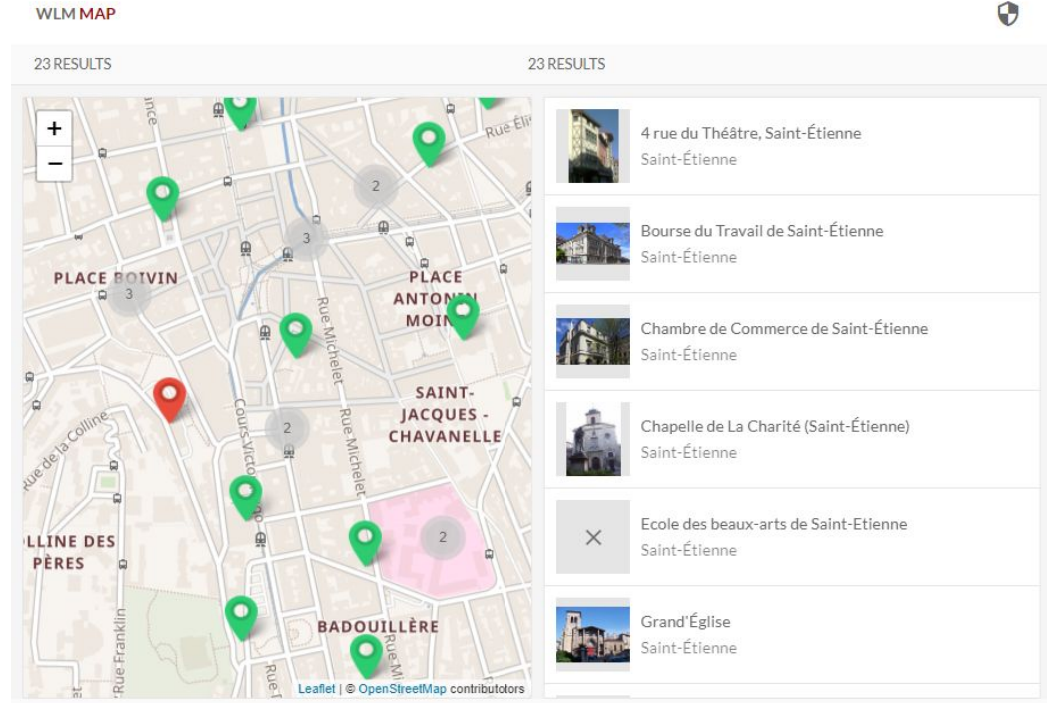 - Encourages people to discover and photograph nearby monuments.

Wikimedia Maps

Segault (2022) evaluates that recurrent photographic contests constitute an effective method of motivate and animate the community.

Oceja and Sierra-Obregón (2018) analyze that this type of competition performs better if it contains gamification elements and improves user experience with the actions in it.

Interactive maps

- [WLM Italia](#);
  - Ferdinando Traversa;
- [WLM UK](#);
  - Magnus Manske;
- [Monumental (France, Ireland, Poland, Sweden, UK, USA)](#)
  - Paweł Marynowski; Stephen LaPorte.

Monumental screenshot/BSD 3-Clause License

Interactive maps

- The most popular library to create those kind of maps is Leaflet, a open-source JavaScript library by Volodymyr Agafonkin with support for desktop and mobile devices;
- Allows us to customize practically everything in the map.

Problems with maps today

- A workable version of a monuments map on Wikipedia, using the Kartographer extension can be **very (VERY!) heavy** (the map of the state of Rio de Janeiro, for example, has 1.7 Million bytes!);
  - That's not **bandwidth friendly**, so it is not adequate to our reality.
  - Is **not** exactly **interactive**.

- To improve, maps on Wiki should be (somehow) improved to **lower the bandwidth** it consumes to open them;
- The interactiveness in maps in general has the potential to improve user experience with the data it shows.

Problems with adding coordinates to Wikidata

- There's a barrier in the addition of geographic coordinates on Wikidata. You either do it in the user interface or via quickstatements, which requires another layer of tech knowledge.
- Add a option for the user drag the pin to adjust the precision is a possible feature.
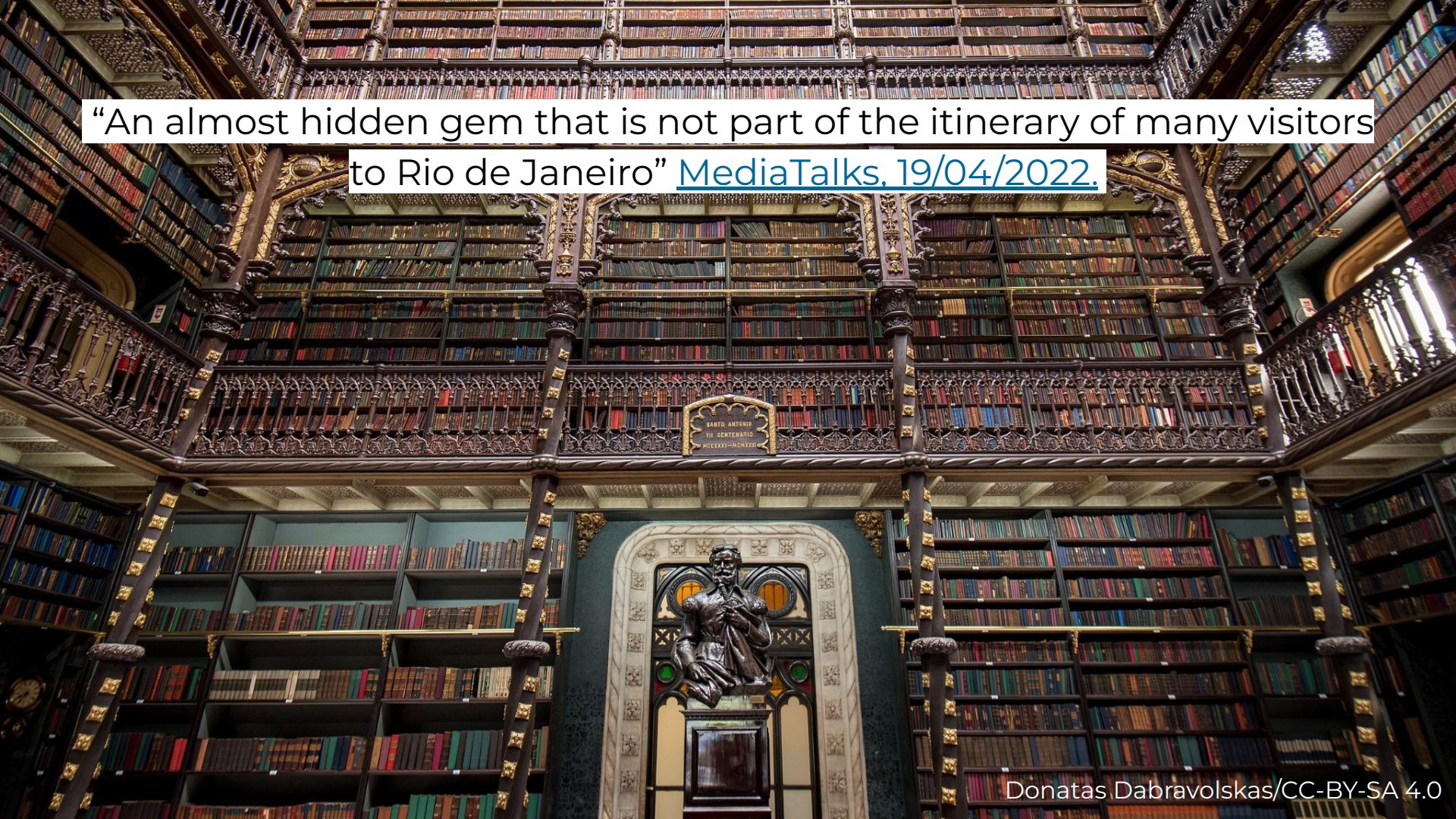

Screenshot of the item Q108178611 on Wikidata.
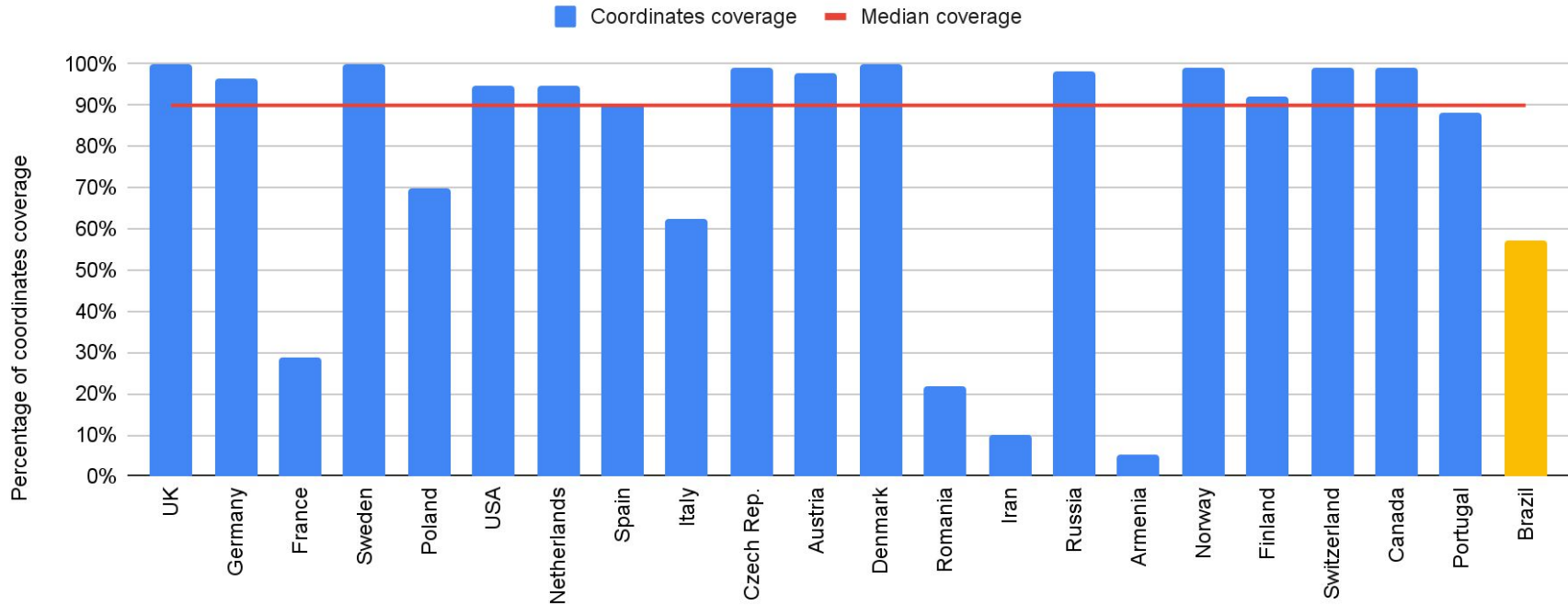
First images of a monument in Roraima

"An almost hidden gem that is not part of the itinerary of many visitors to Rio de Janeiro" MediaTalks, 19/04/2022.

This year, Wiki Loves Monuments Brasil will have an interactive, mobile friendly, map application intended to raise the gamification of the contest.

For this to be meaningful, we need to raise the coordinates coverage

How can we do this?

- By adding geographic coordinates in monuments!
    - Register at the event on the Outreach Dashboard!
    - Access the lists of monuments; (https://w.wiki/56os)
    - Search for the localization of a monument (preferably through OpenStreetMap) and copy its coordinates;
    - Paste it on the corresponding cell of the Tabernacle table and save it;
- Live example;

Thank you!

Éder Porto

Ederporto | EPorto (WMB)
eder.porto@wmnobrasil.org