



Superset

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# Business Intelligence meets Cartography

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FOSS4G Europe 2025, Mostar, Bosnia-Herzegovina

# Jan Suleiman



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- M.Sc. Geoinformatics
- Full-Stack Developer  
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- OSGeo Charter Member
- GeoStyler Core Developer
- Superset Plugin Developer

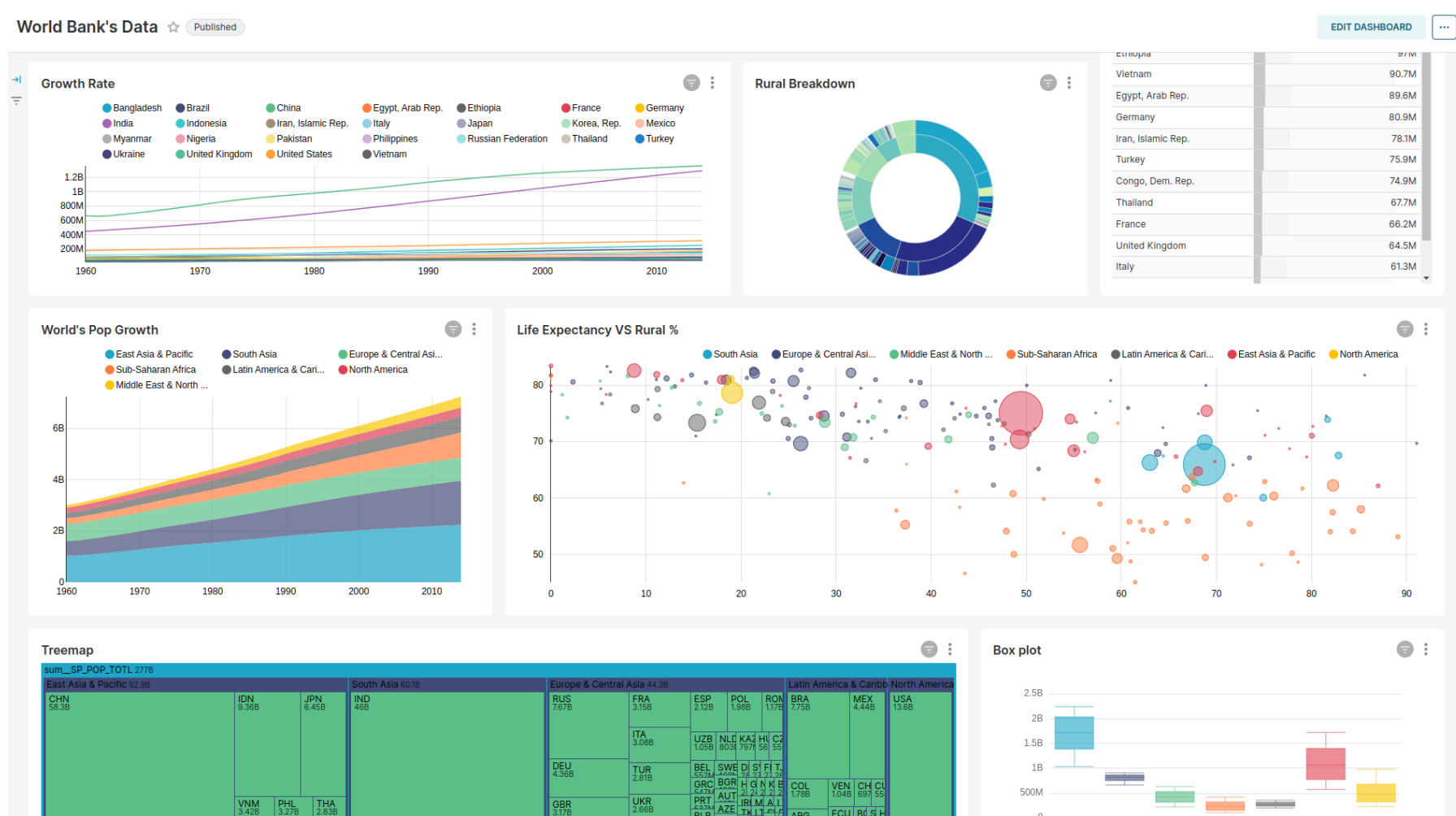
# Content

1. Superset Basics
2. Thematic Maps in Superset
3. State of Development
4. Future Developments

Link to slides:

<https://terrestris.github.io/foss4g-e-2025/talks/2025-07-16-suleiman-superset.html>

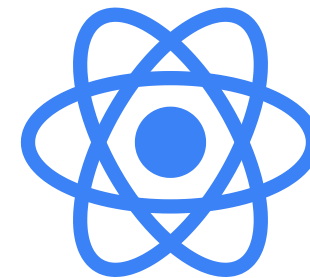
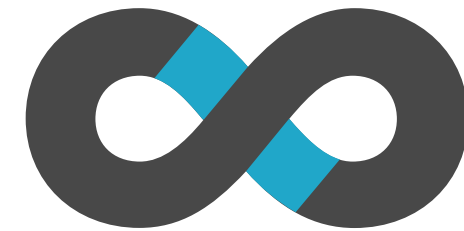
# Superset Basics



- Data exploration and visualization platform
- No-Code / Low-Code
- Arrange charts on interactive dashboards

# Superset Basics

- Apache-2.0 license
- Active community
- Plugin architecture for visualizations

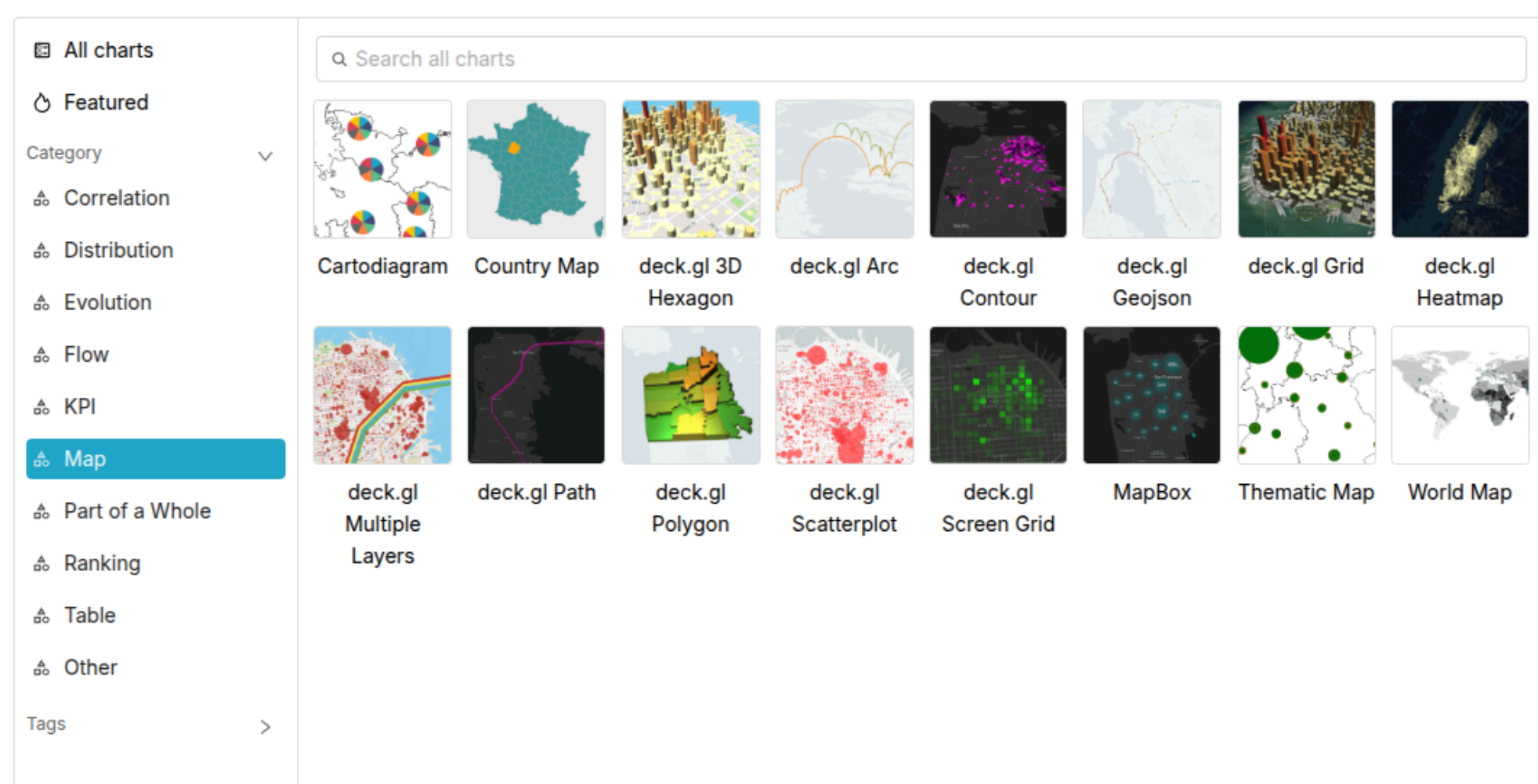


# Superset Basics



# Thematic Maps in Superset

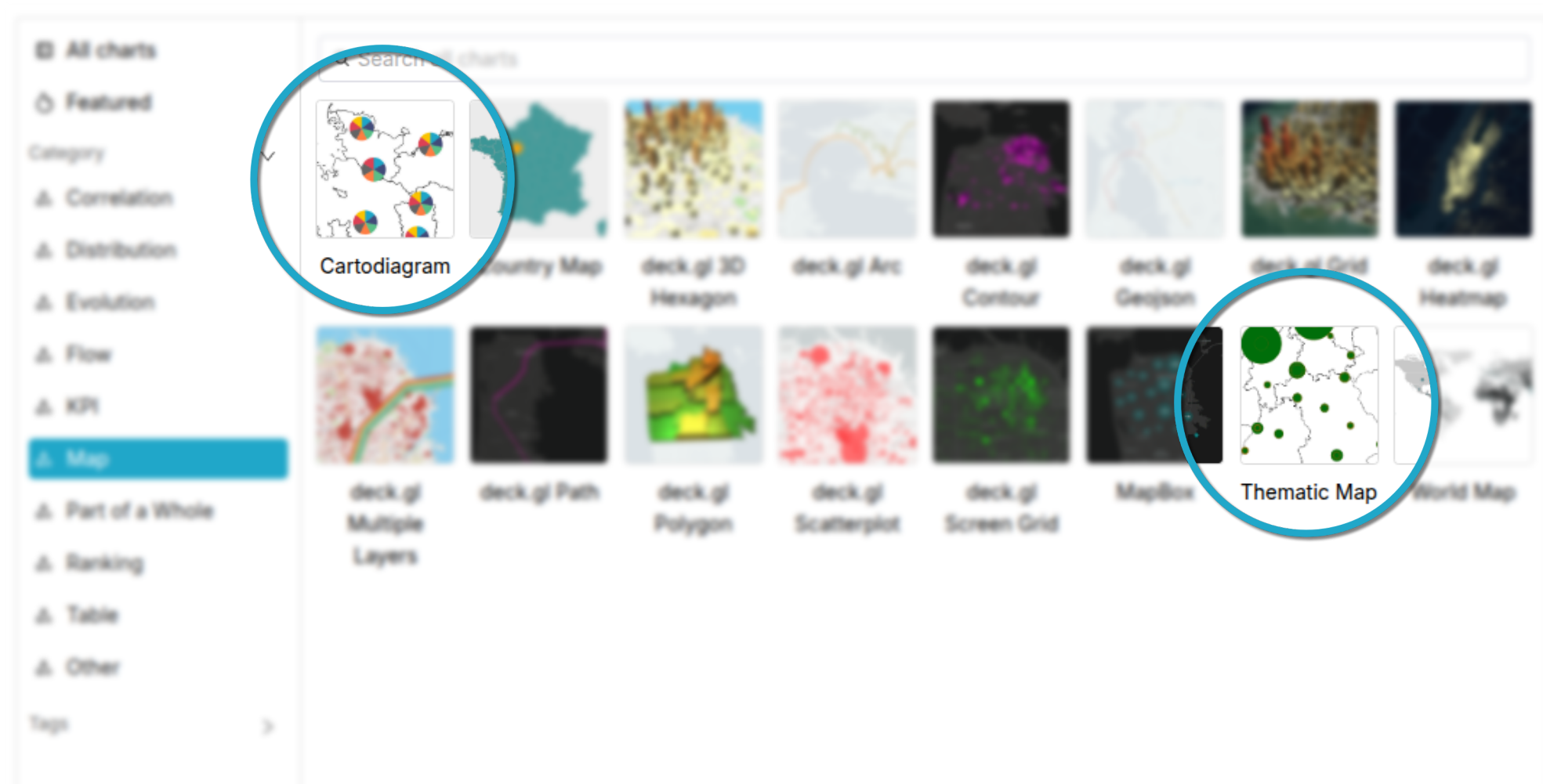
## Current Map Plugins



- Broad Variety
- **But:** many based on mapbox-gl
  - Closed Source

# Thematic Maps in Superset

## Current Map Plugins

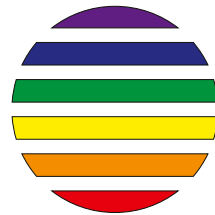
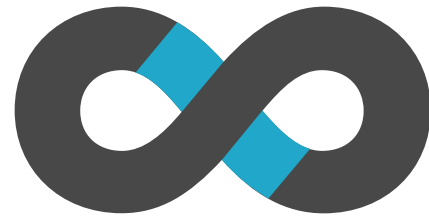


- *Cartodiagram*
  - Arbitrary charts on maps
  - Released in Superset 5
- *Thematic Map*
  - Choropleth, Proportional Symbol, ...
  - Currently as fork



# Thematic Maps in Superset

## Libraries



# Thematic Maps in Superset



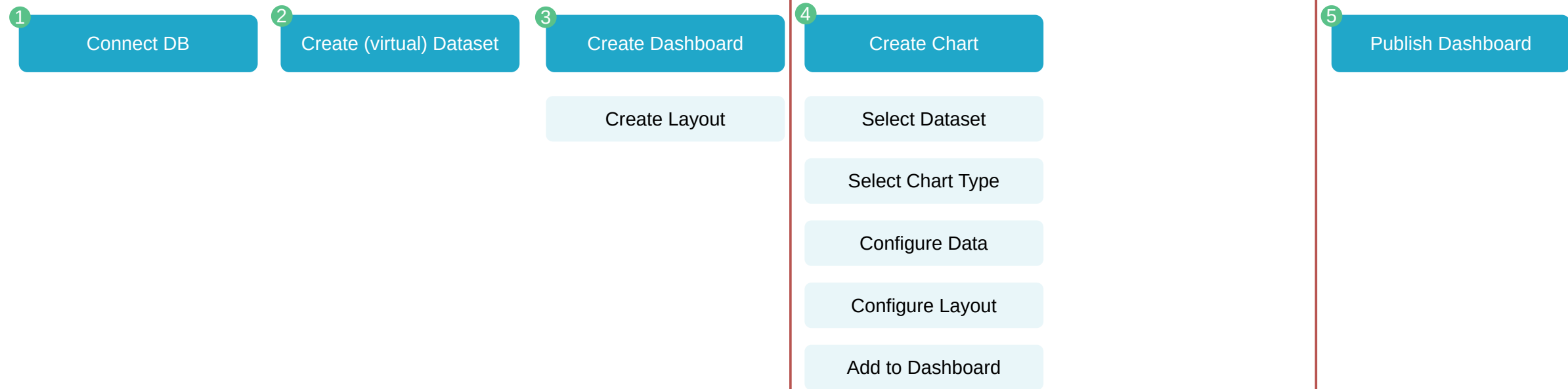
# Thematic Maps in Superset

# Thematic Maps in Superset

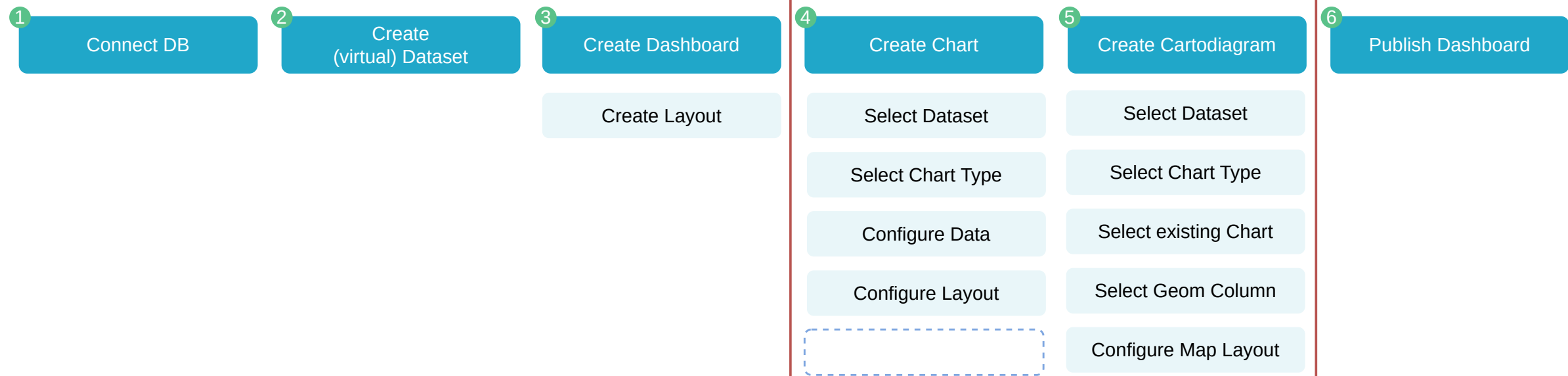


# Thematic Maps in Superset

## Workflow Thematic Map



## Workflow Cartodiagram



# State of Development

## Done

- Official Cartodiagram Plugin (Superset 5)
- Support for GeoJSON
- Arbitrary map projections
- Configurability
  - Map extent
  - Zoom levels
  - Background layers
  - ...

## In Development

- Support for WKB, WKT
- Support for WFS as data source
- Finalizing Thematic Map Plugin
- Cross Filters for Thematic Maps

Up-to-date dev image: [ghcr.io/terrestris/superset:latest](https://ghcr.io/terrestris/superset:latest)

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# Future Developments

- Sensor Things API as data source
- OGC API Features as data source
- OGC API Tiles background layers
- Animated timeslider
- Metrics for Thematic Maps
- UI improvements
- ...

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# Imprint

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# Questions?