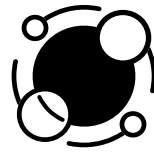PSI ETHzürich WISER

Brightway Documentation Upgrades and Interactive WebApp Demo

Results from work on the WISER Project and Brightcon 2024 Documenation Hackathon

Michael P. Weinold
Hamburg (Germany), 25. September 2024

Introduction
What we will cover today...
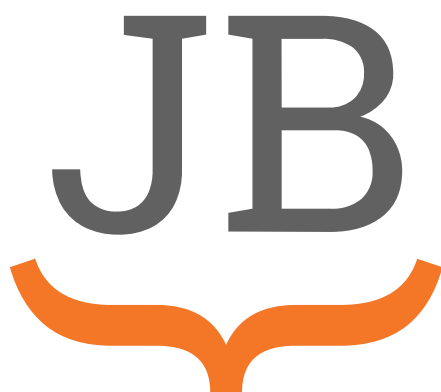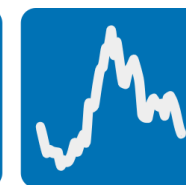
Brightway Documentation
Navigating the Documentation

📚 **Read the Docs!**

Brightway has extensive documentation. This includes the theory of life-cycle assessment the the Brightway software framework.

You are here!

👩‍🏫 **Learn it!**

Brightway has step-by-step tutorials for beginners and experts alike. Learn how to use Brightway to do life-cycle assessment.

Learn more →

💻 **Try it!**

Brightway has a live demo in a JupyterLite development environment where you can try out Brightway without installing anything.
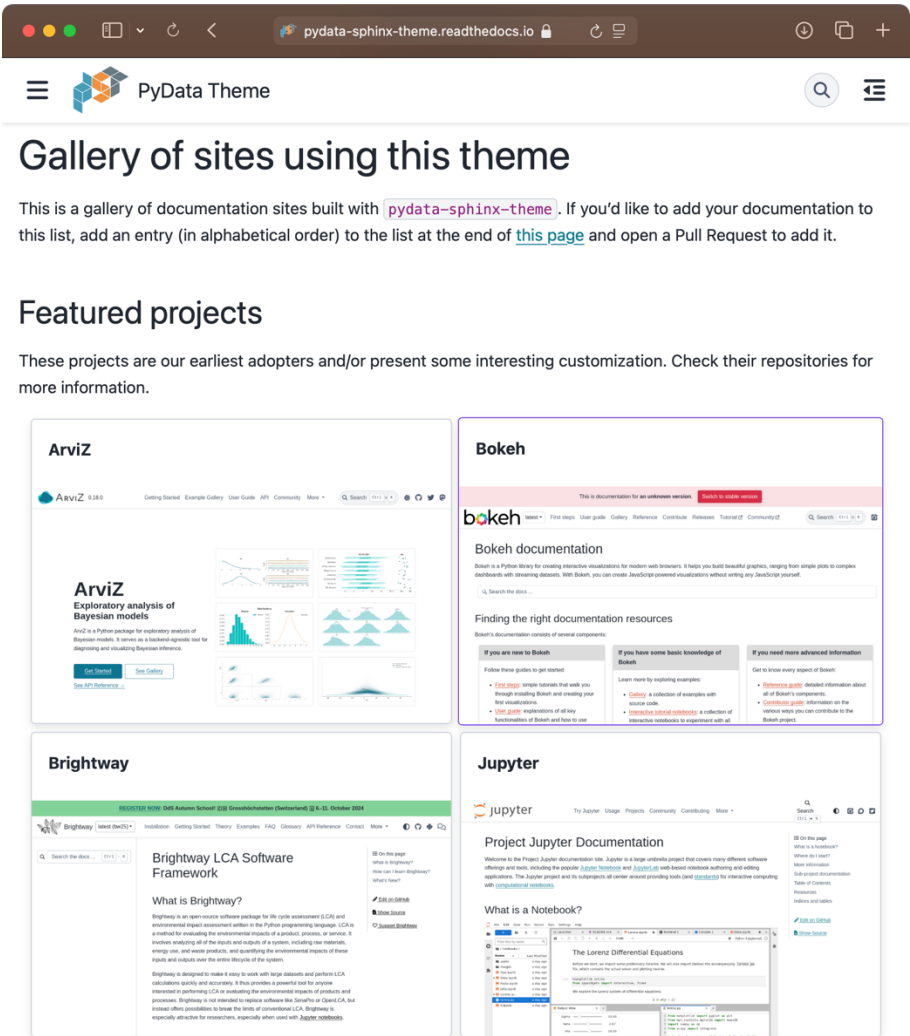
Learn more →
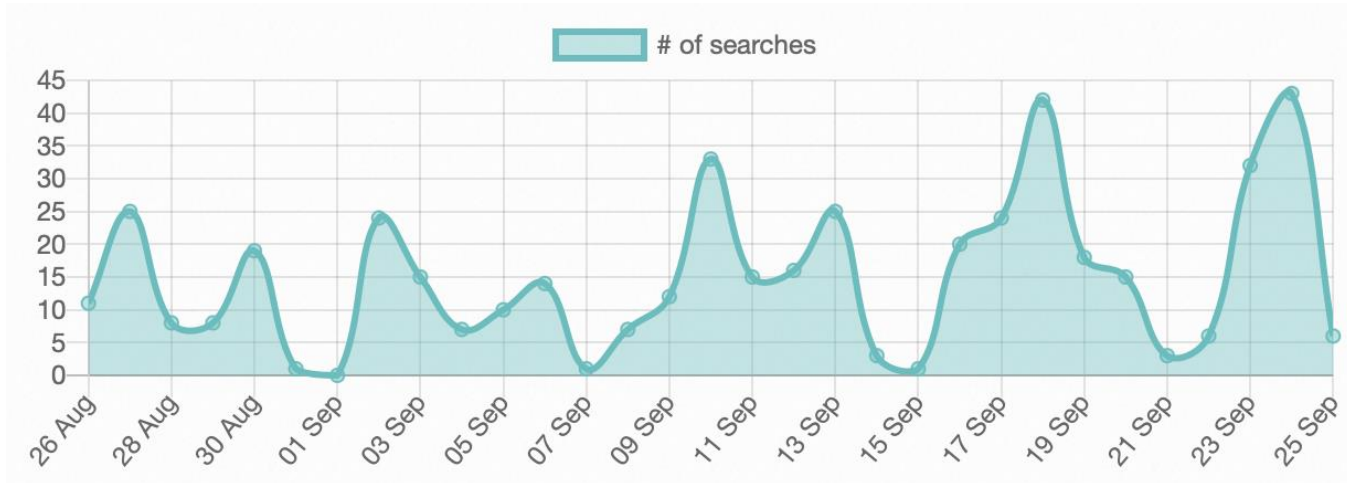
Brightway Documentation
Progress since Brightcon2023

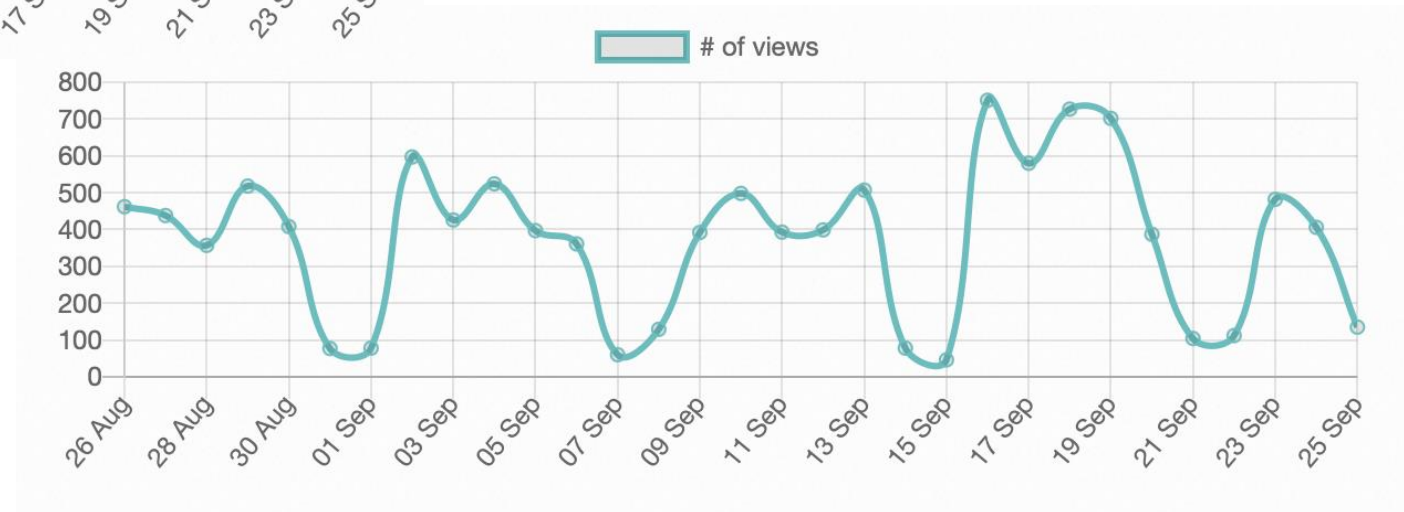The Brightway Documentation was made a PyData "featured site" in January 2024!

Brightway Documentation
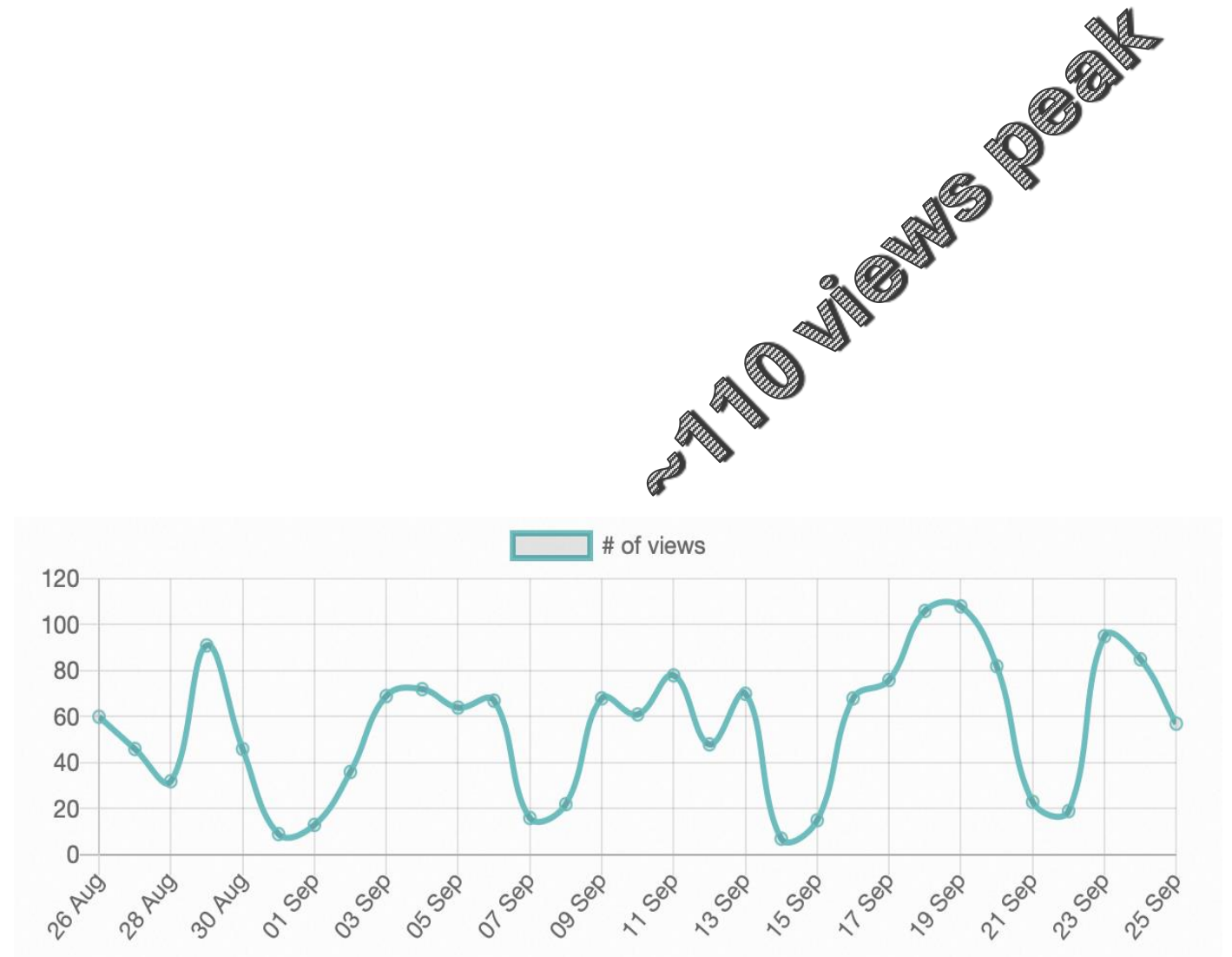## Progress since Brightcon2023

~800 views peak

https://docs.brightway.dev

Brightway Documentation
Progress since Brightcon2023

~110 views peak

https://learn.brightway.dev

https://learn.brightway.dev

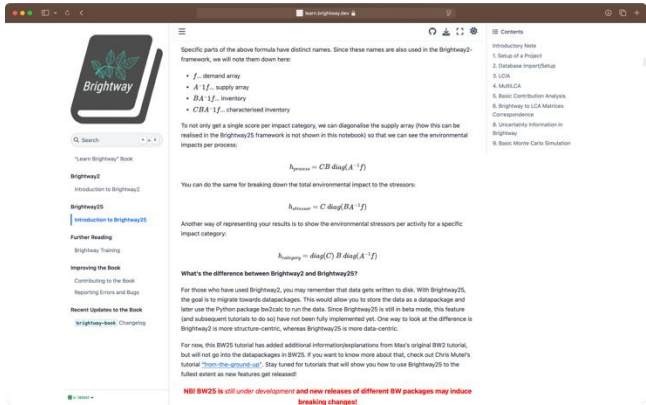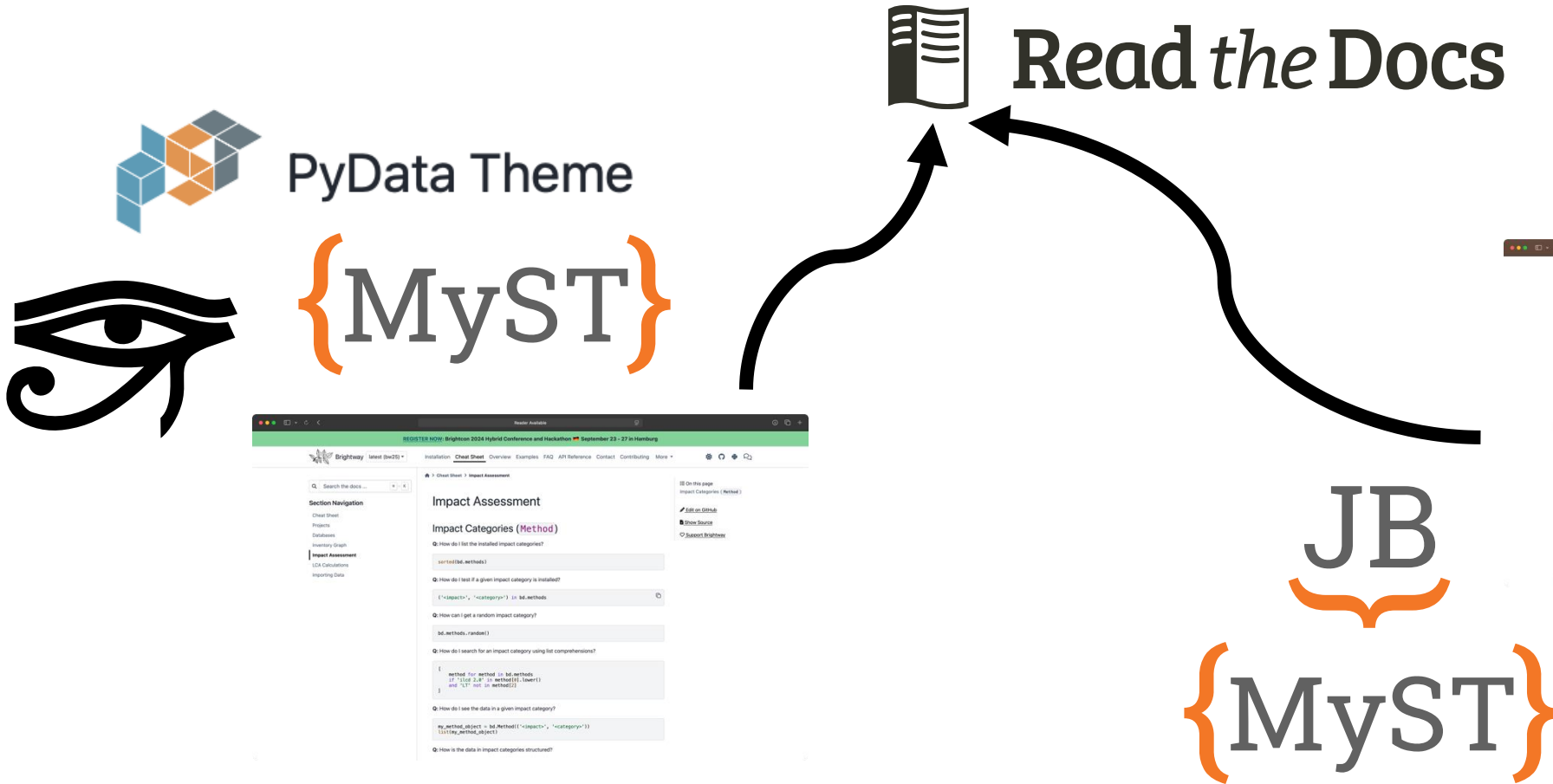# Brightway Documentation
Data Pipeline (and how to contribute)

Brightway Documentation
The Brightway LIVE Playground
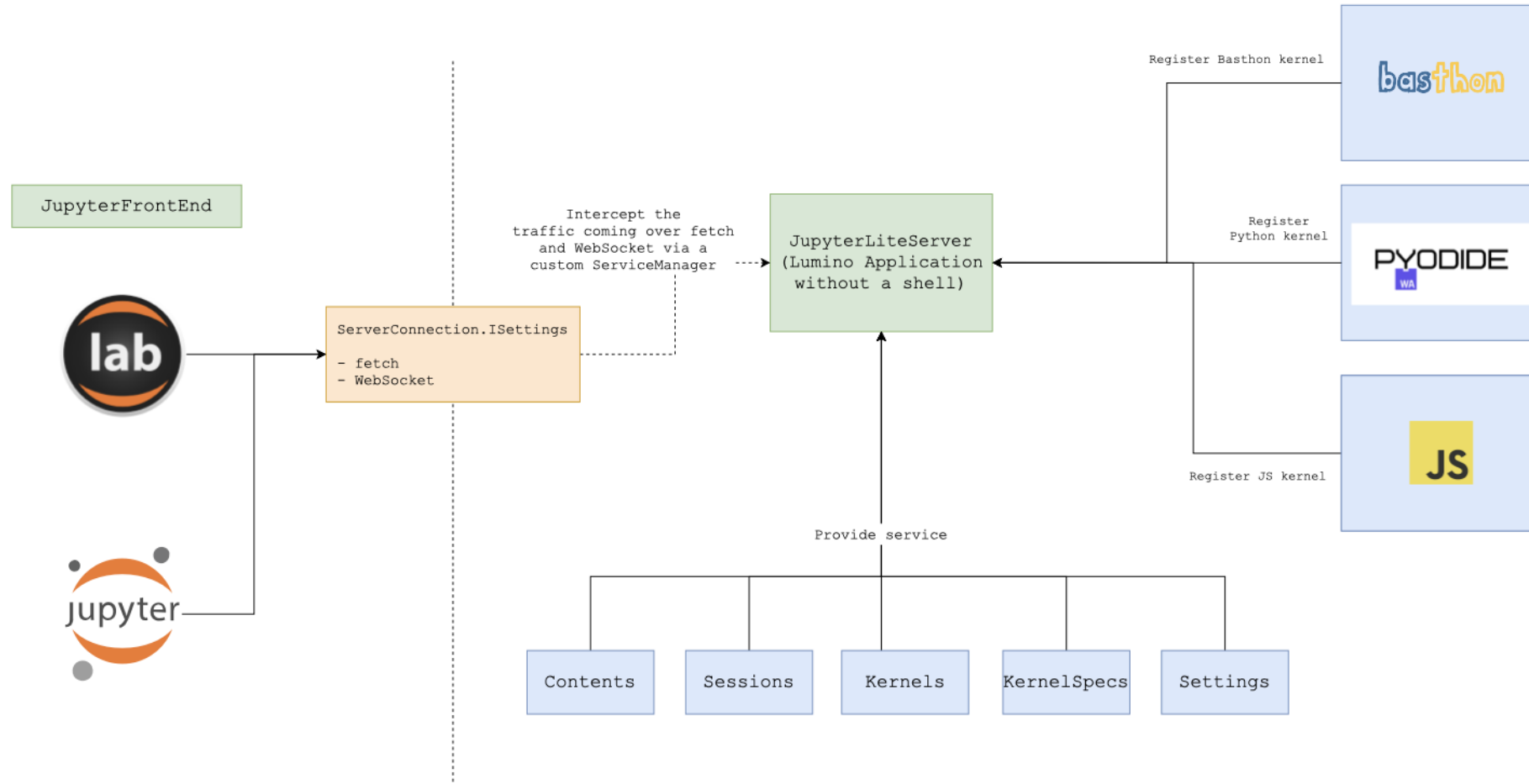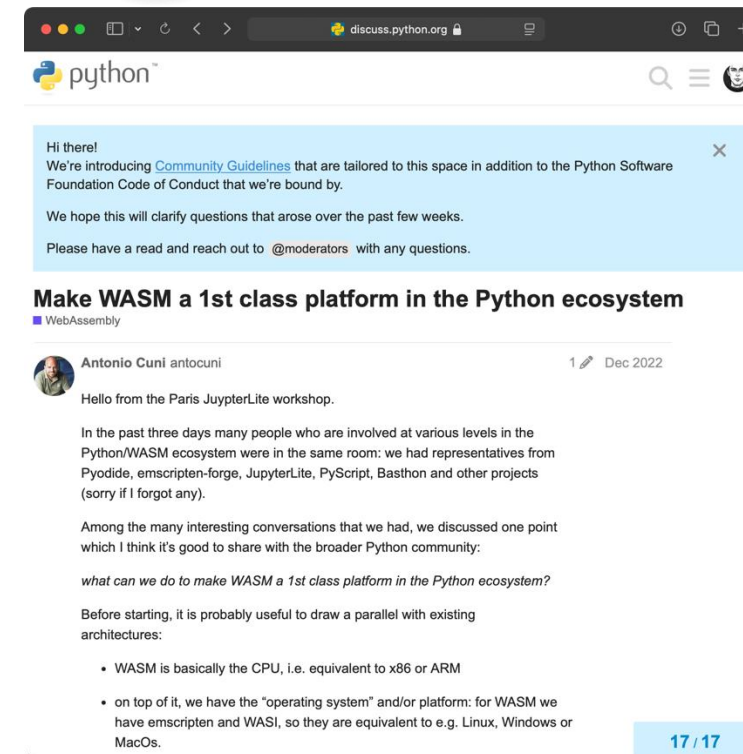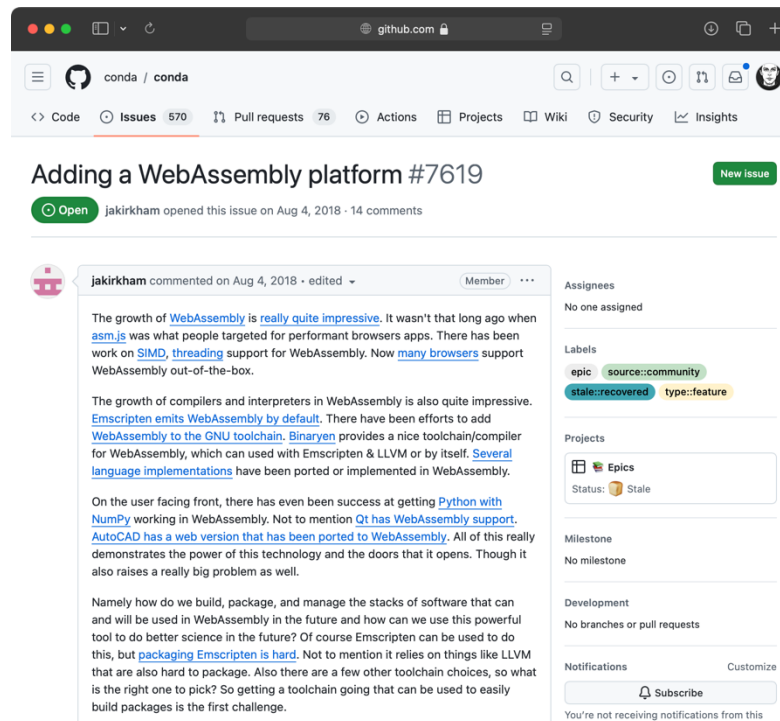
WebApps in WebAssembly
Increading Support for WebAssembly in the Python Ecosystem

WebApps in WebAssembly
Increading Support for WebAssembly in the Python Ecosystem
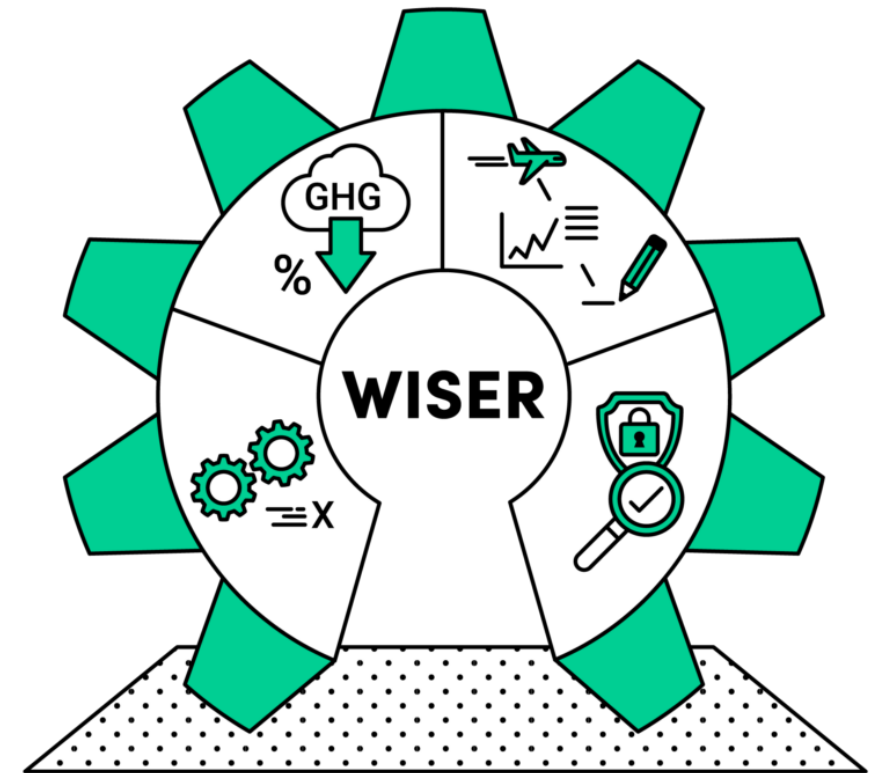
WebApp Development Context
The Innosuisse WISER Project

An Innosuisse Flagship project to simplify the implementation and comparison of greenhouse gas assessments with a digital ecosystem.

Principal investigator:
Dr. Didier Beloin-Saint-Pierre
didier.beloinsaintpierre@empa.ch

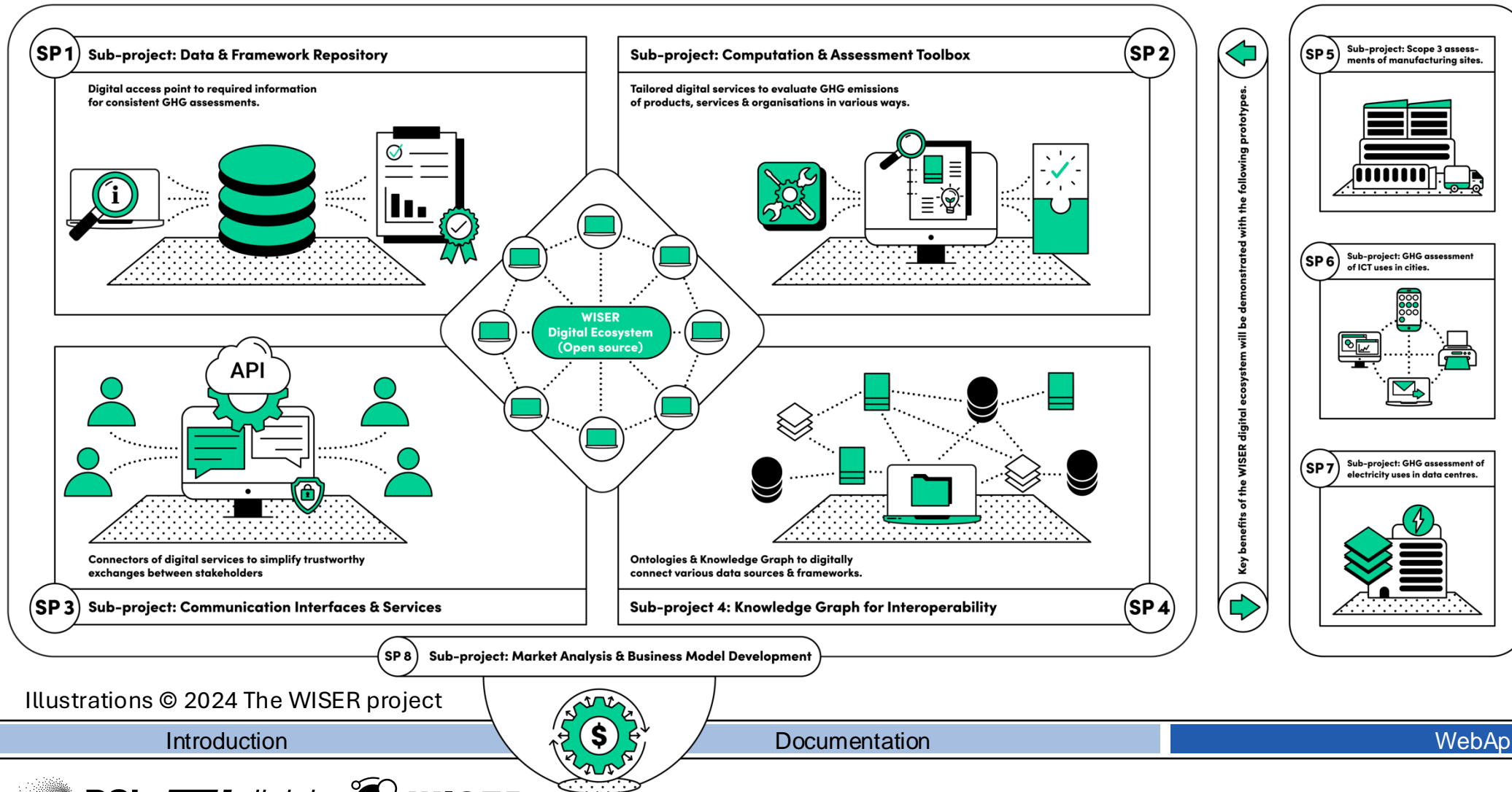Illustrations © 2024 The WISER project

WebApp Development Context
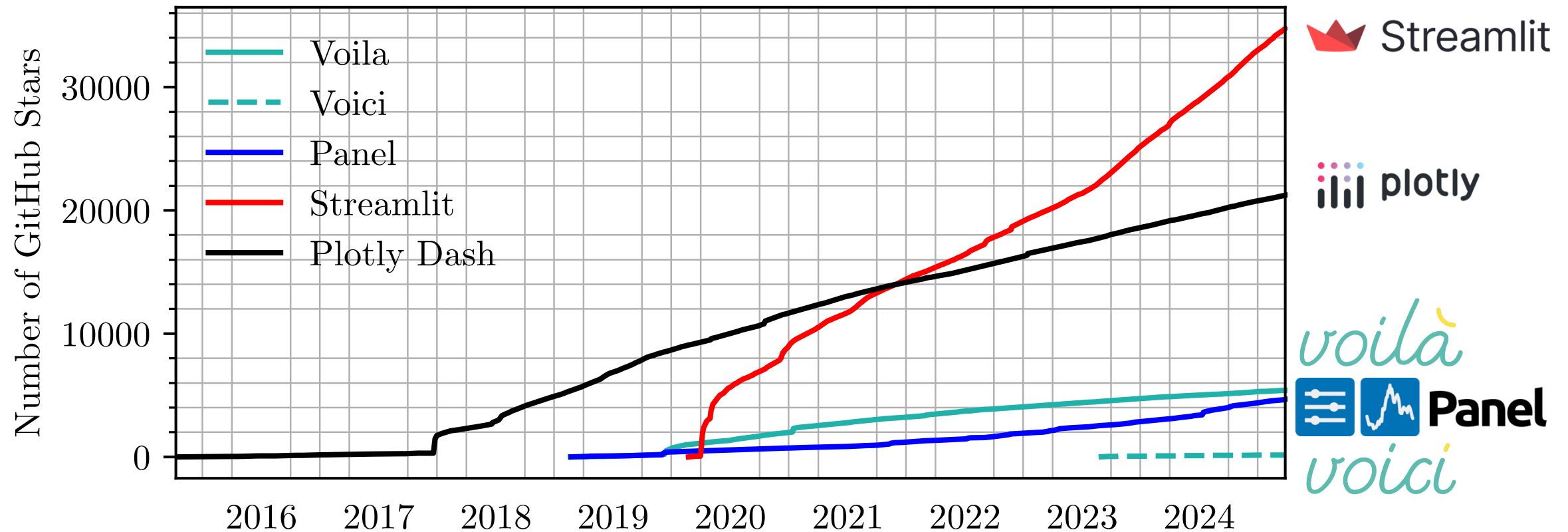## Brightway in the Innosuisse WISER Project

Illustrations © 2024 The WISER project

WebApp Development Context
Historical Development of different Tools

Source: GitHub stars history as of September 2024, extracted using `emanuelef/daily-stars-explorer`

Context
The Brightway LIVE WebApp as a WISER Technology Demonstrator

https://webapp.brightway.dev