

Supporting energy scenario development process using GitHub and modern web technologies

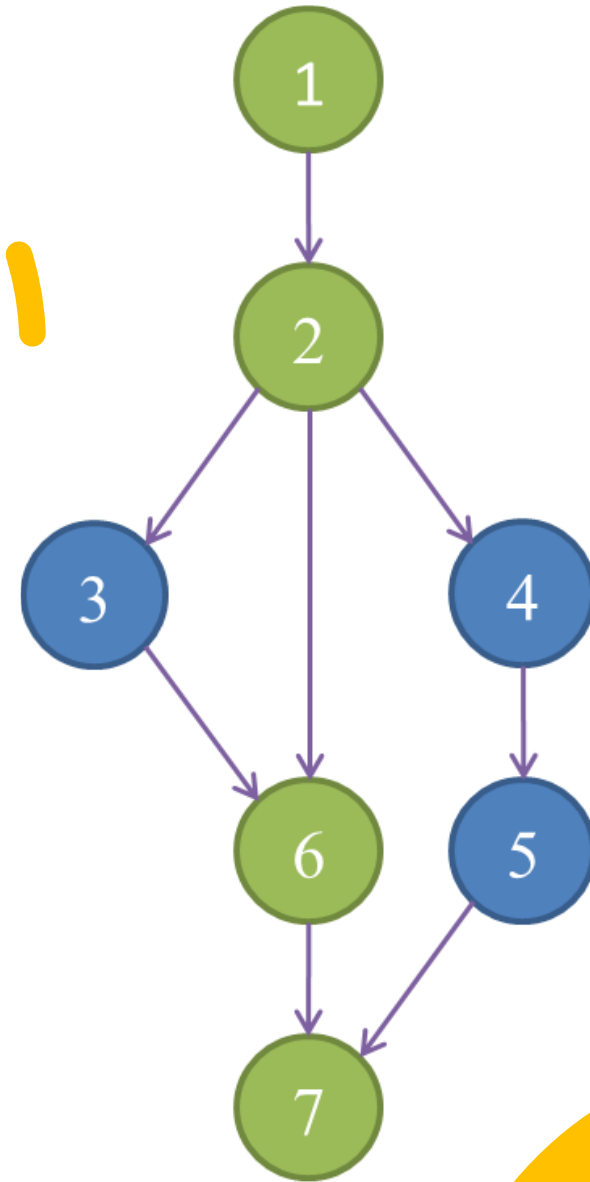
ETSAP Winter Workshop

December 2nd, 2022

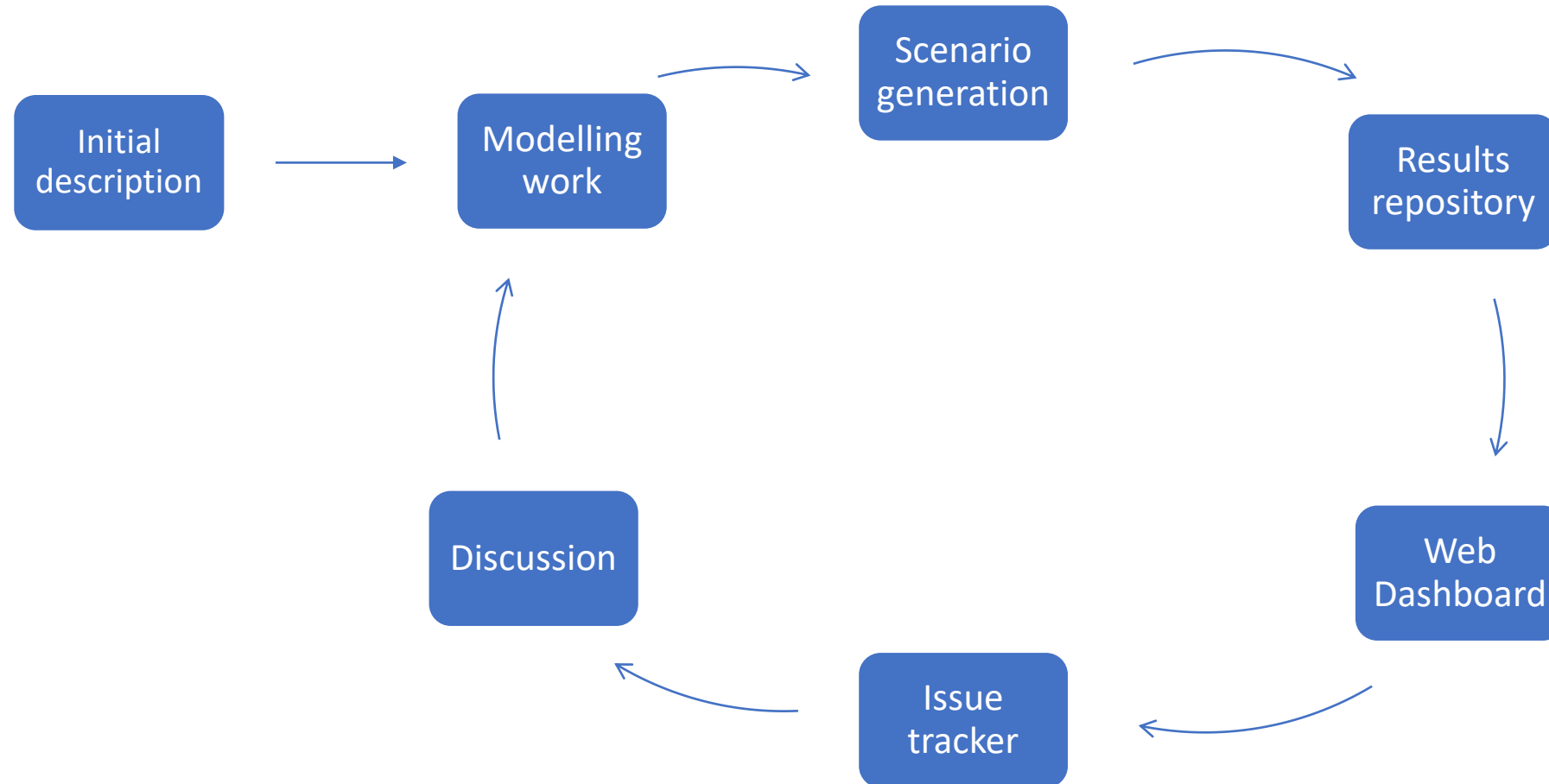
Olexandr Balyk

GitHub

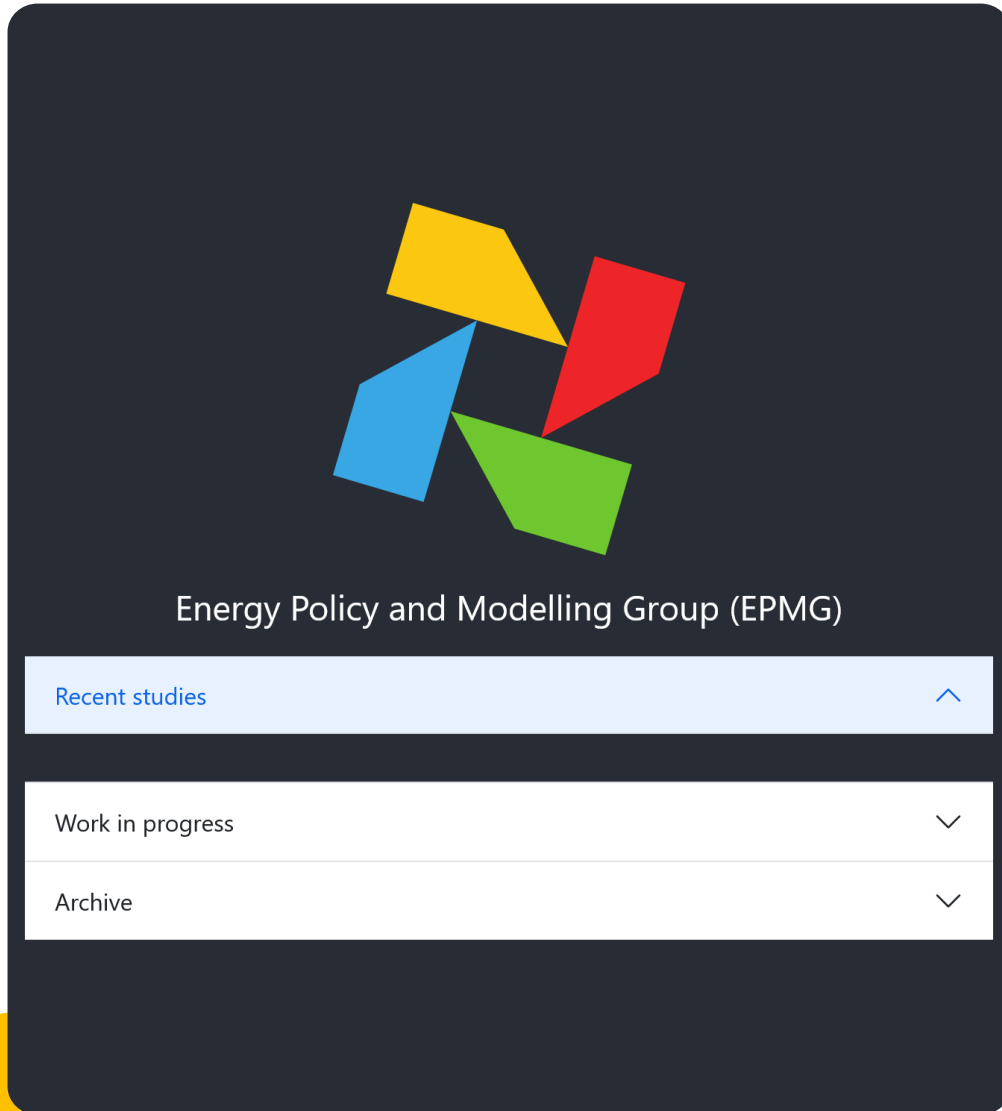
- Popular platform for collaborative software development
- Built around GIT version control system
- Includes issue tracking
- Publishing to a CDN
- Automation



GitHub facilitated scenario development

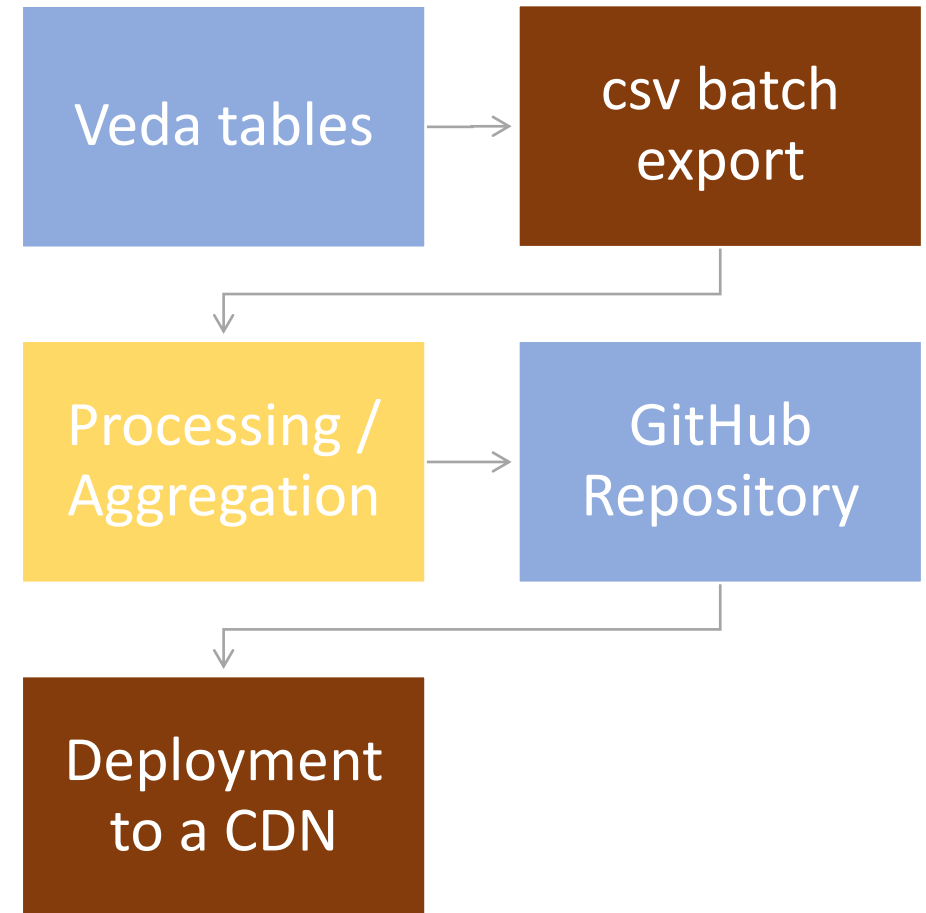
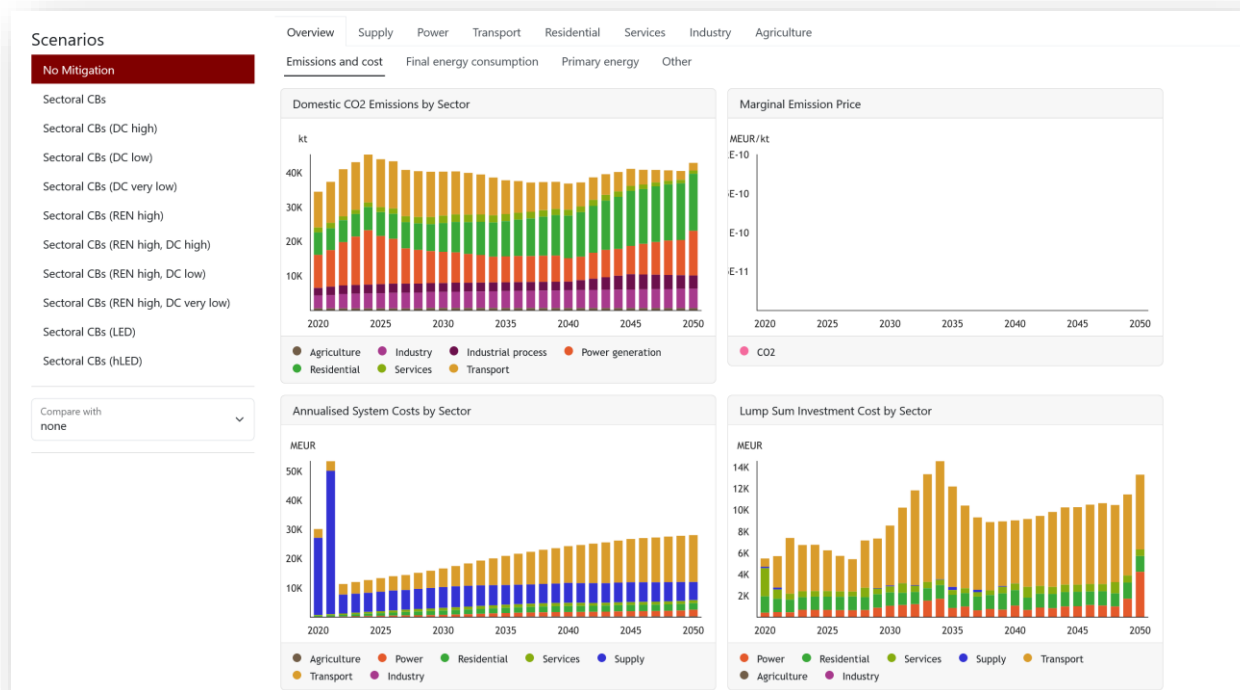


Web dashboards



- Hosted at <https://epmg.netlify.app>
- Rely on:
 - A generic web part
 - Study-specific results
 - Study-specific settings

Visualisation Workflow



Use Cases (Scenario Development)



STUDENTS' PROJECTS



STAKEHOLDER
ENGAGEMENT



STANDALONE ANALYSES

Web Dashboards Considerations

Pros

- Structured way to explore scenario results
- Results available anytime
- Easy to share with anyone
- Responsive
- Modern technology
- Open source
- Low-cost

Cons

- Requires specialised skills to develop

Outlook

- Delegate processing/aggregation to GitHub
- Archive *.vd files
- Include results as frictionless data package (e.g. for publication on Zenodo)
- Make more GitHub functionality accessible
- Better integration with SoMe

Thank you!



Questions?