

Interactive Web Pages with GitLab (..., R and Shiny)

Marius Politze, Jonathan Hartman, Lukas Bossert
RWTH Aachen University

20.09.2022

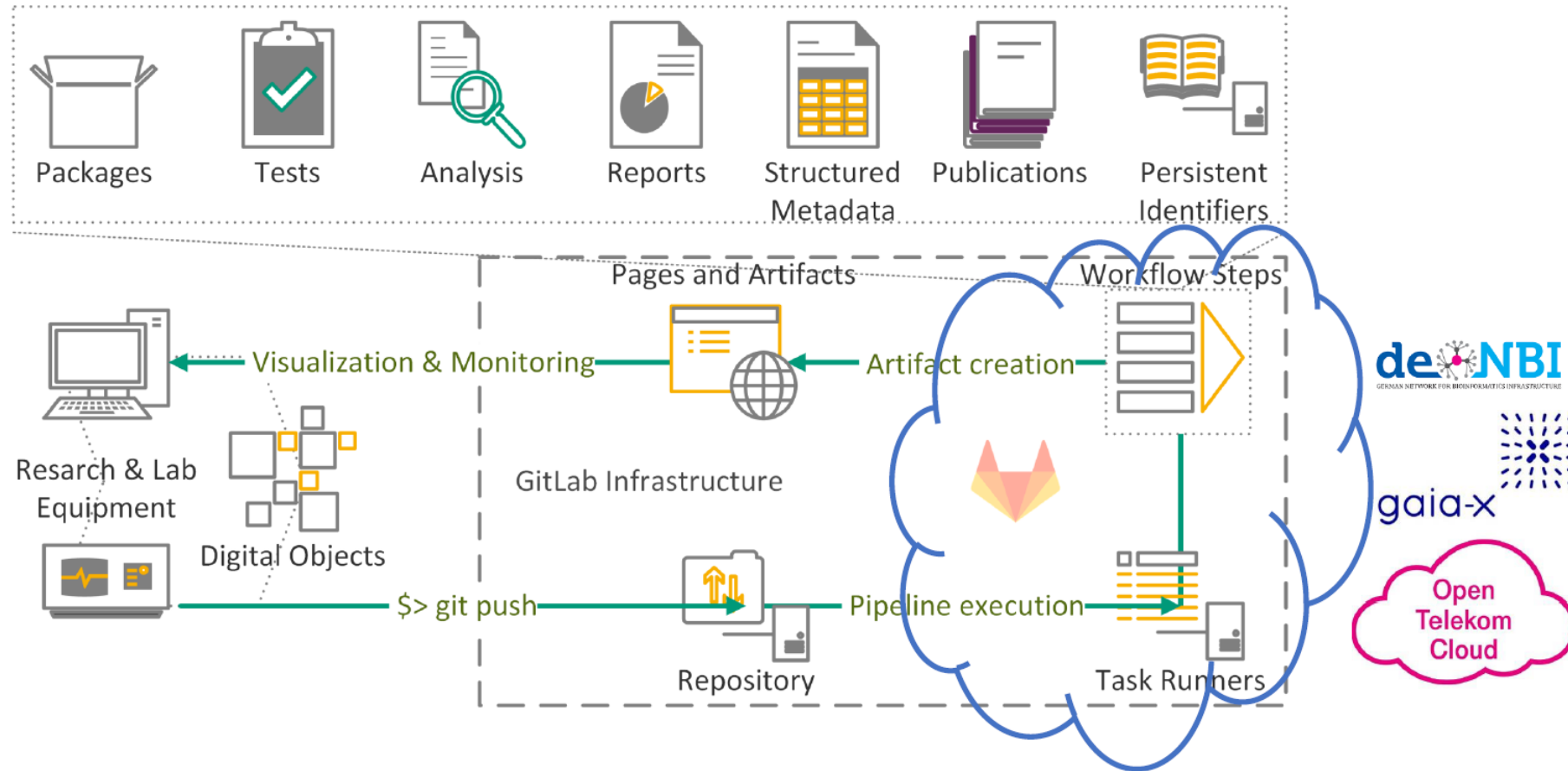
#FAIRDataSpaces

FAIR Data Spaces: Goals

- Form connection between cloud initiatives
 - gaia-x
 - international data spaces
 - NFDI
 - EOSC
- Align gaia-x principles with FAIR principles
 - Technical: interfaces and demonstrators
 - Legal: Data privacy and intellectual property

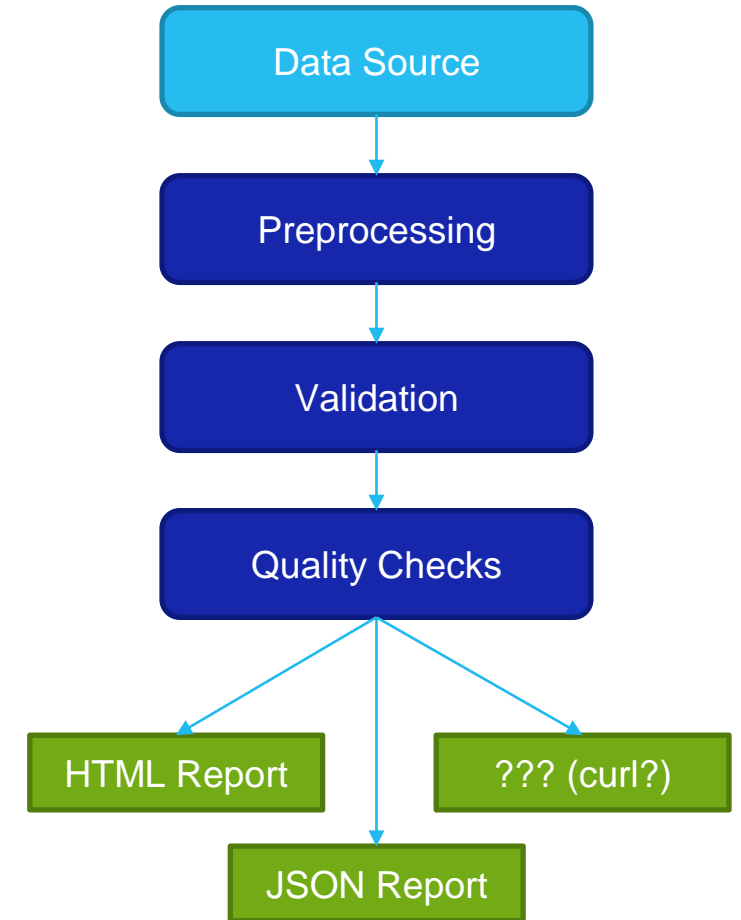


Envisioned System Overview

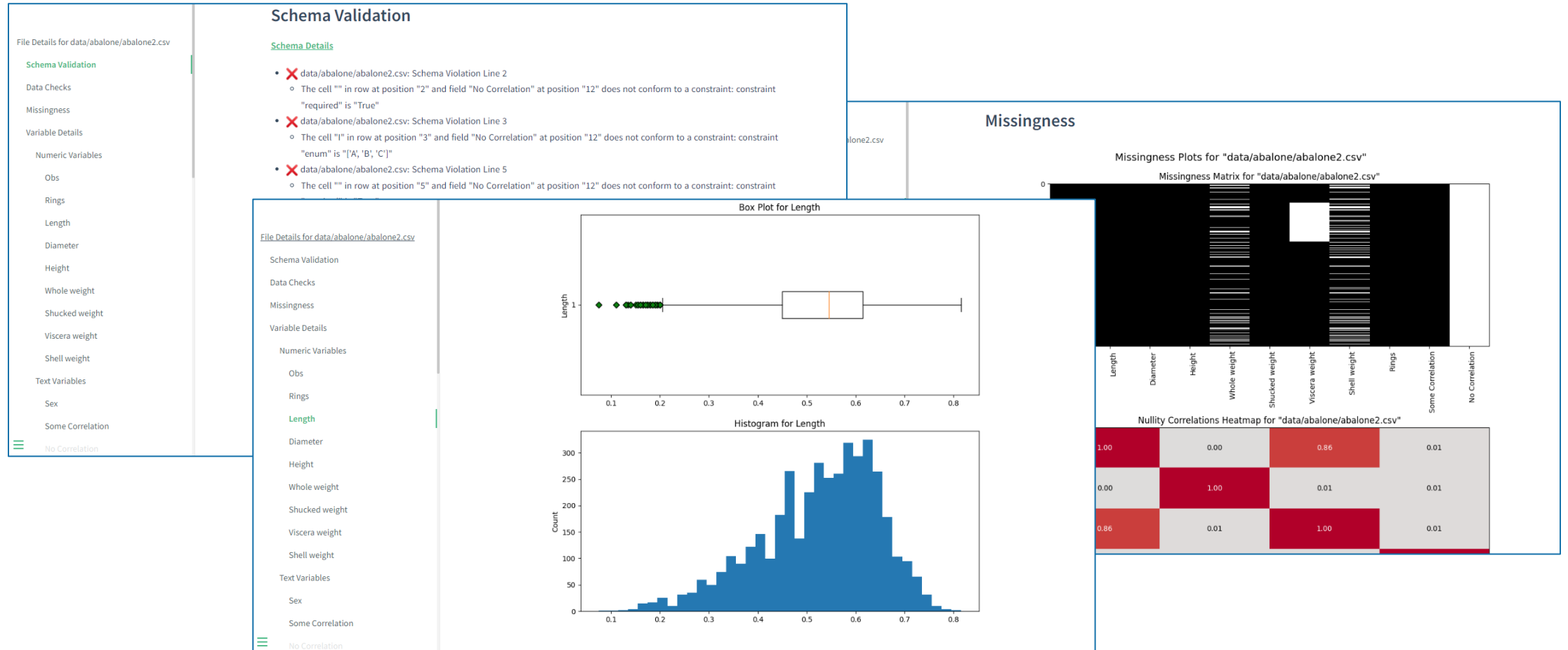


Demonstrator “FAIR Data Scorecard”

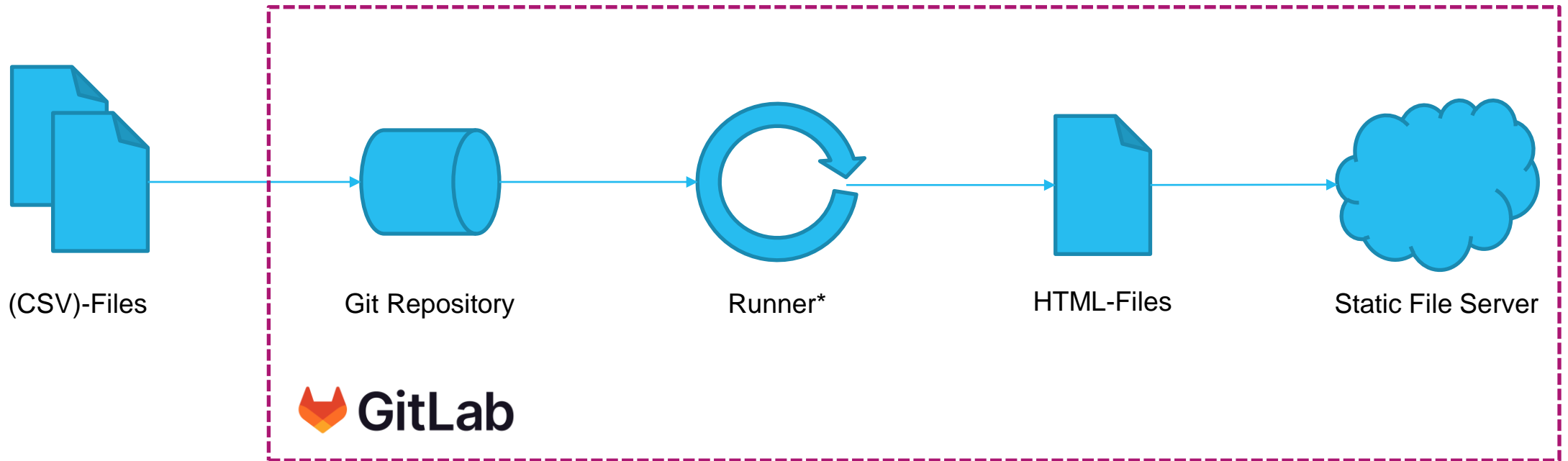
- HTML Report
 - Human Readable
 - Text & Visuals
- JSON Report
 - Key/Value Pairs
 - Key: Data filepath
 - Value: Success/Warn/Error
- Other outputs can be accomplished based on needs of other demonstrators
 - curl to push files to specific locations?
 - ???



FAIR Data Scorecard - Results



All Components are Built-in



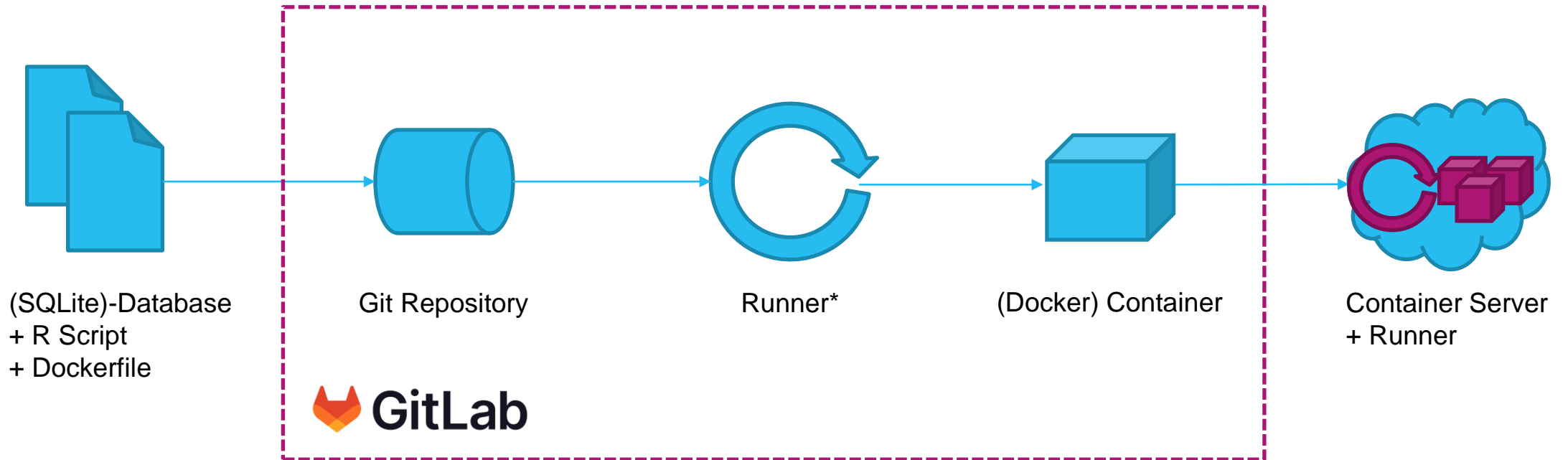
* Only if shared runner is available

But what if I want more
than simple pages?

Beyond Simple Web Pages

- Don't do it
- If you have to use high level infrastructures
 - cloud container service > virtual machine > hardware server
- ... yes, you will need to maintain your own server!

You need your own (web) server



* Only if shared runner is available

... lets have a look...

Recommendation I

- If you can: stick to GitLab Runner + Pages
- It is far more complex than GitLab Pages!
- It is some additional work but you might gain reproducibility

Recommendation I

- For a simple setup this technology stack worked well
 - Any Linux OS
 - Docker (+ Docker Compose)
 - GitLab Runner for automation
 - Traefik as HTTP reverse proxy
- If you have many pages like this consider using GitLab Environments

All partner organisations



Thank you for your interest!

Contact: Marius Politze, politze@itc.rwth-aachen.de

Stay in touch:

www.nfdi.de/fair-data-spaces



@FAIRDataSpaces

#FAIRDataSpaces

Community newsletter: <https://www.nfdi.de/newsletter-abo/>

Mailing list for the legal perspective (in German):

<https://listserv.uni-muenster.de/mailman/listinfo/fair-newsletter>