

openwashdata

a community effort to bring open data practices to the WASH
sector

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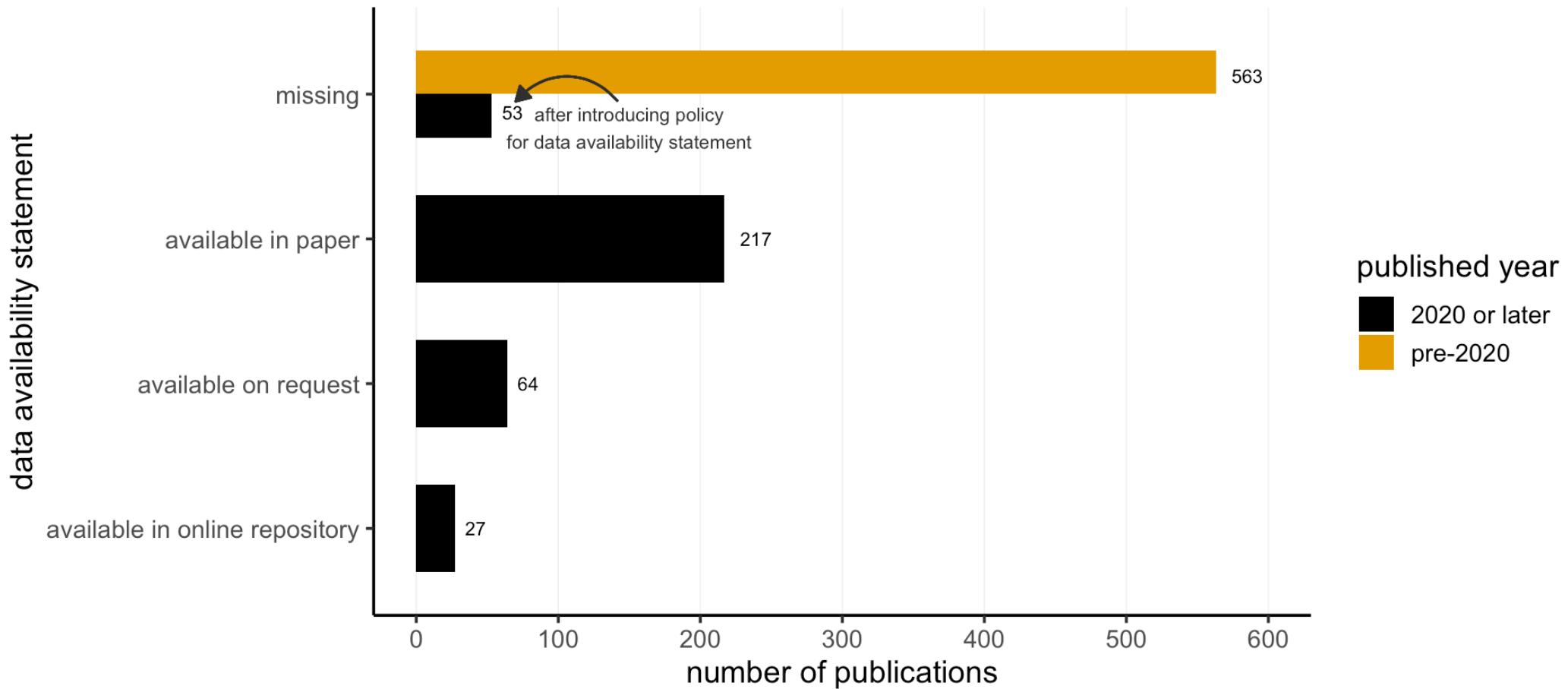
April 4, 2024

The Opportunity

Journal articles

Data Availability Statement

Analysis of 924 articles published in Journal of Water, Sanitation and Hygiene for Development (2011 to 2023)



Journal articles

Take-away: Not a single file is in machine-readable, non-proprietary file type that would qualify for following FAIR principles for data sharing ([Wilkinson et al. 2016](#)).

Good practice: CSV (comma-separated values)

Supplementary Material

Articles published 2020 or later

file type	n ¹	%
missing	202	51.4
docx	149	37.9
xlsx	24	6.1
pdf	13	3.3
pptx	4	1.0
png	1	0.3

¹ One article can have multiple files.

PDF reports



Treatment technologies in practice

On-the-ground experiences of faecal sludge
and wastewater treatment

SNV  **UTS** Institute for Sustainable Futures

PDF reports

Table 2. Influent and effluent qualities of wastewater treated at Duri Kosambi FSTP plant in 2019, as compared to effluent standards

Parameter	Inlet	Outlet
pH	6, 45-7, 88 pH	7, 12-7, 61 pH
Total suspended solids, TSS	340-8933, 33 mg/L	22, 5-84, 29 mg/L
Biochemical oxygen demand, BOD ₅	106, 38-646, 82 mg/L	2, 76-69, 79 mg/L
Chemical oxygen demand, COD	687, 9-2780, 37 mg/L	41, 25-127, 67 mg/L
Total organic matter, KMnO ₄	108, 04-568, 72 mg/L	54, 21-150, 50 mg/L
Ammonia, NH ₃ -N	108, 75-239, 25 mg/L	0, 45-29, 81 mg/L
Methylene blue active surfactant, MBAS	0, 74-2, 69 mg/L	0, 13-0, 78 mg/L

openwashdata community

openwashdata community

Vision

An active global community that applies FAIR principles ([Wilkinson et al. 2016](#)) to data generated in the greater water, sanitation, and hygiene sector.

Mission

Empower WASH professionals to engage with tools and workflows for open data and code.

openwashdata publishing

openwashdata.github.io/fsmglobal/

fsmglobal 0.0.1 Reference Articles ▾

Search for

fsmglobal

This data was first published as part of a journal article by (Greene et al. 2021) and contained in the supplemental material as a table in a DOCX file. The following summary table was produced from the data and the code is shown further below.

Demand for faecal sludge emptying services

summarised for 175 countries

	population	percent
mechanized	1,030,317,694	25%
no facility	661,998,822	16%

Links

[GitHub repository](#)

Citation

[Citing fsmglobal](#)

Developers

So who does the work?

Nicola Greene

Author 

Sarah Hennessy

Author 

Tate W. Rogers

Author 

Jocelyn Tsai

openwashdata academy

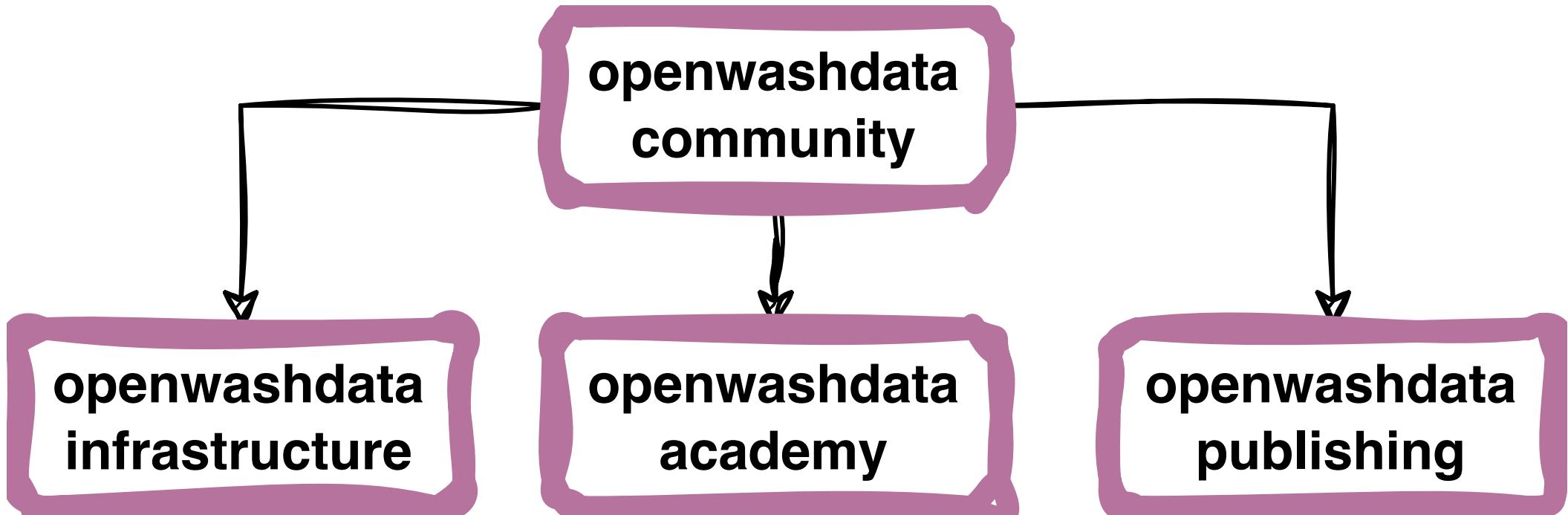
data science for openwashdata 001

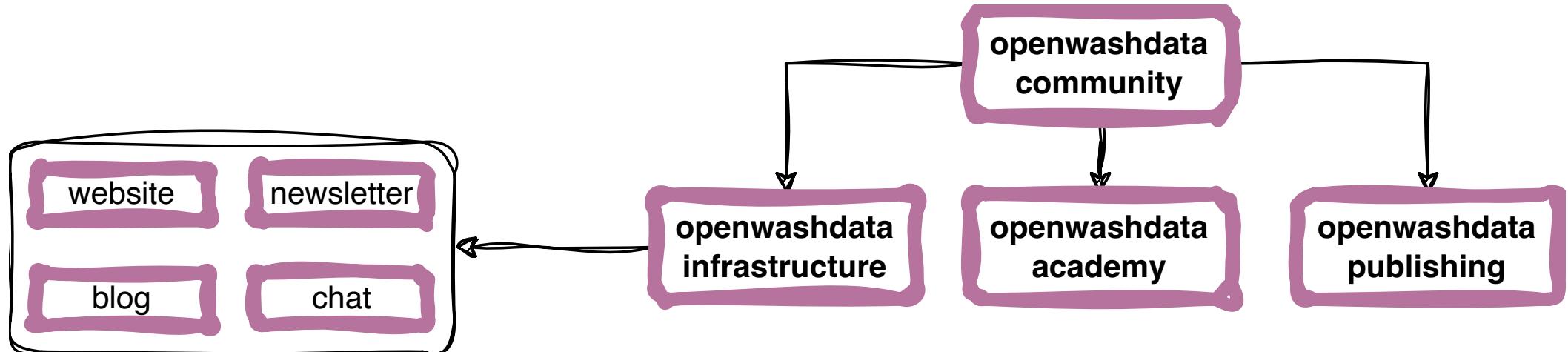
- free, live, online, 10-week programme
- 200 registrations
- 100 show-ups
- 40 graduates
- next iteration: September/October 2024
- sign-up: <https://forms.gle/MP5rNYZagBdfG2ZRA>

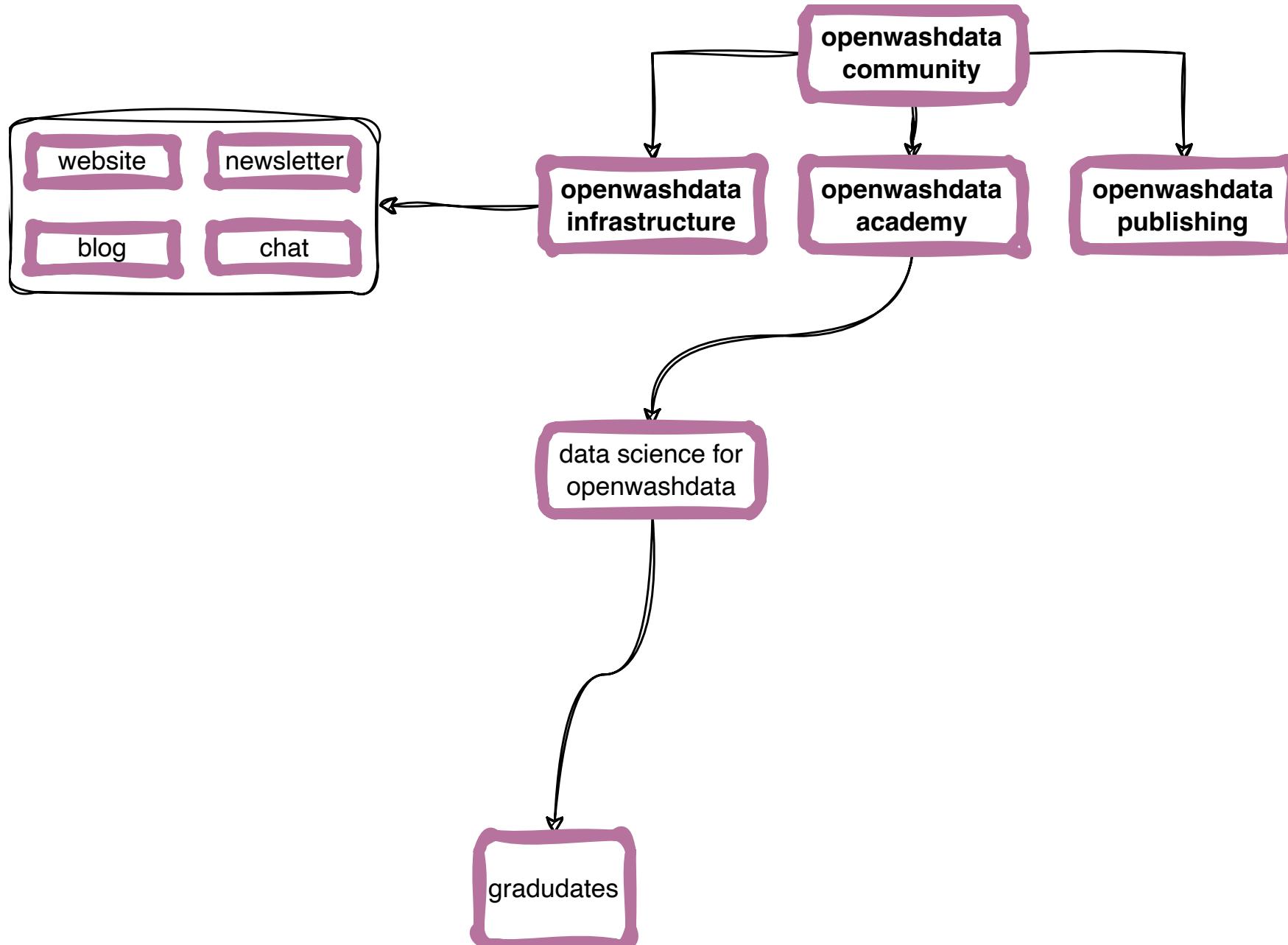
ds4owd-001.github.io/website/

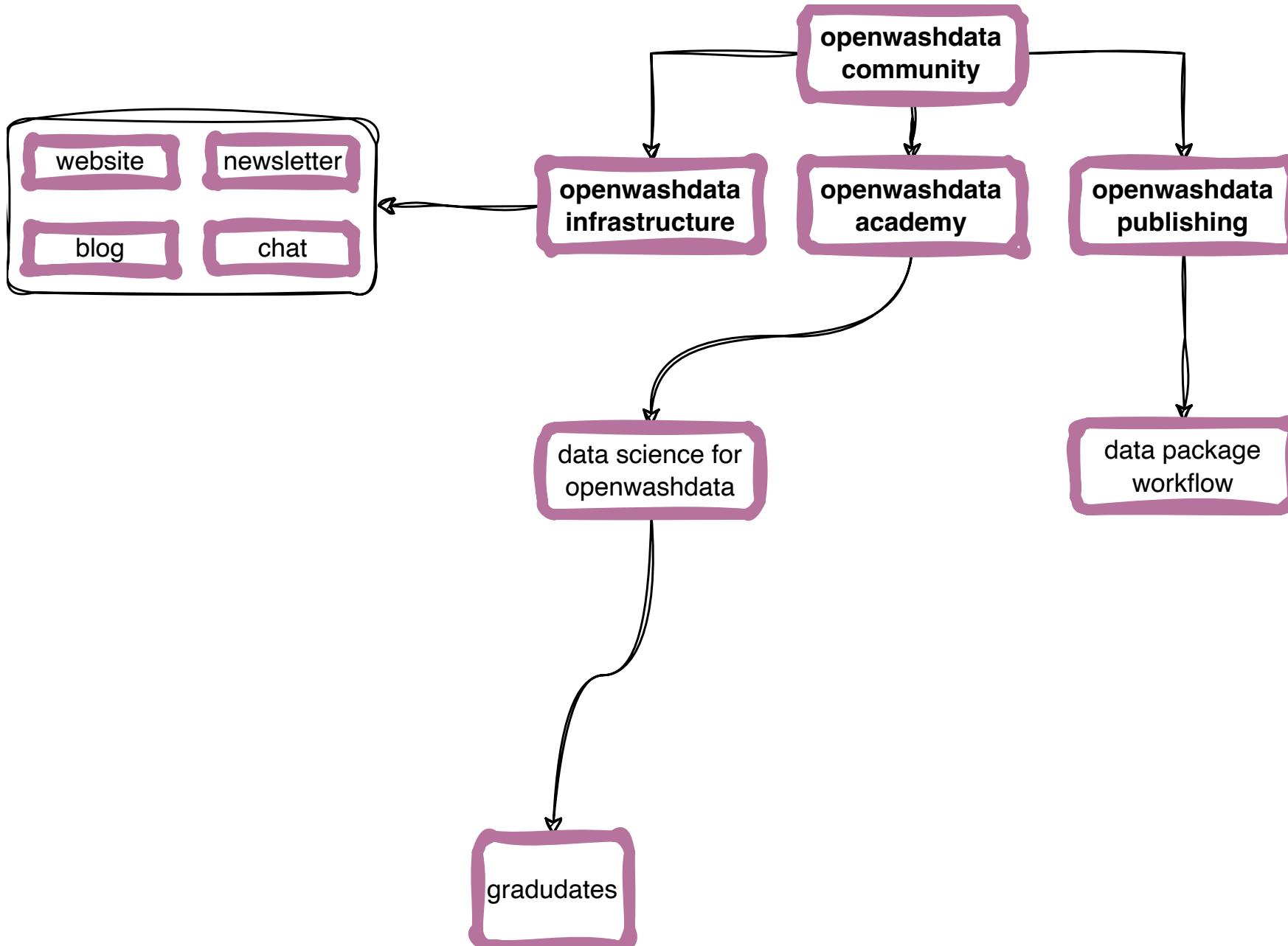
what's next

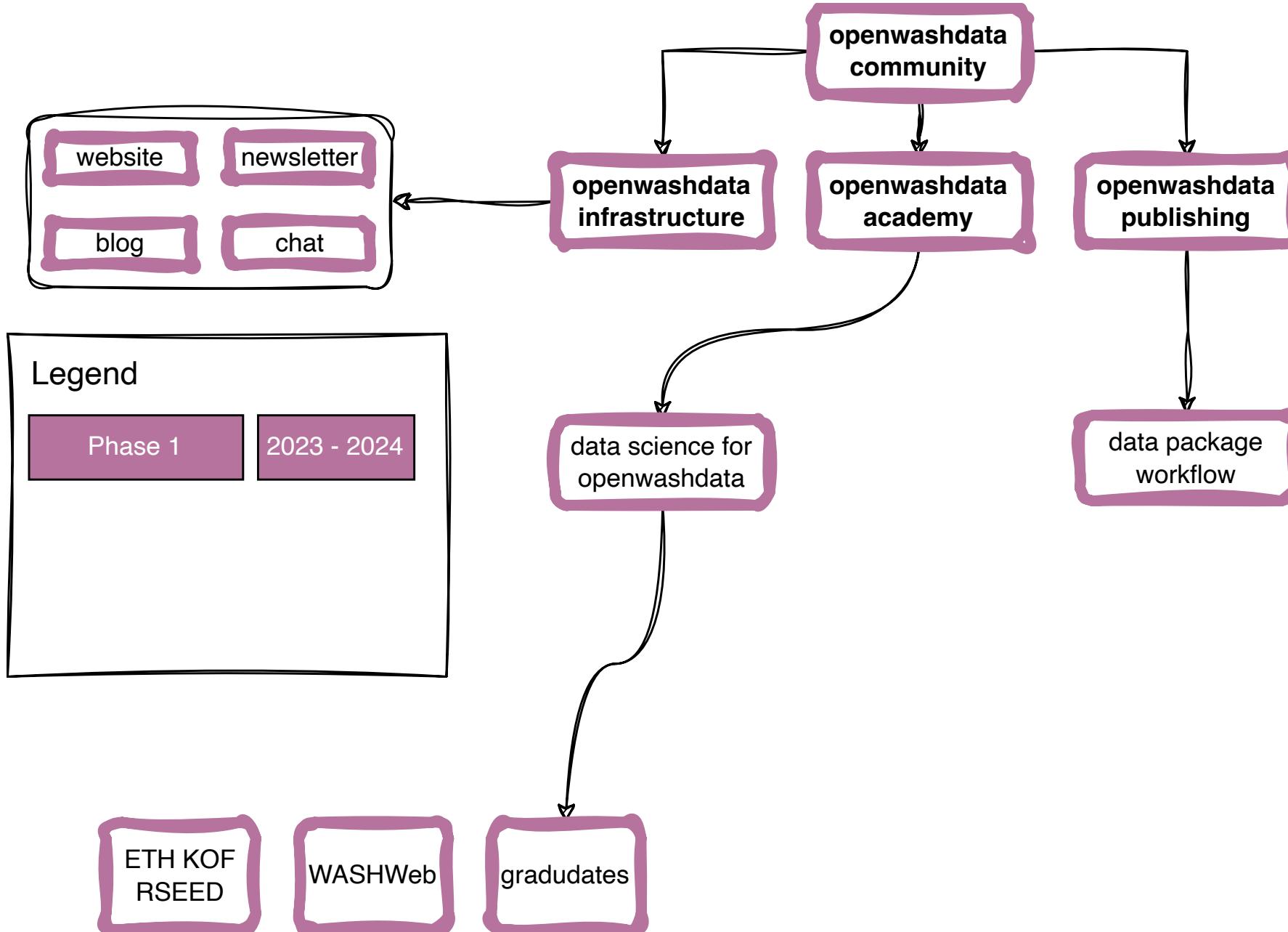
 openwashdata.org/pages/gallery/slides/

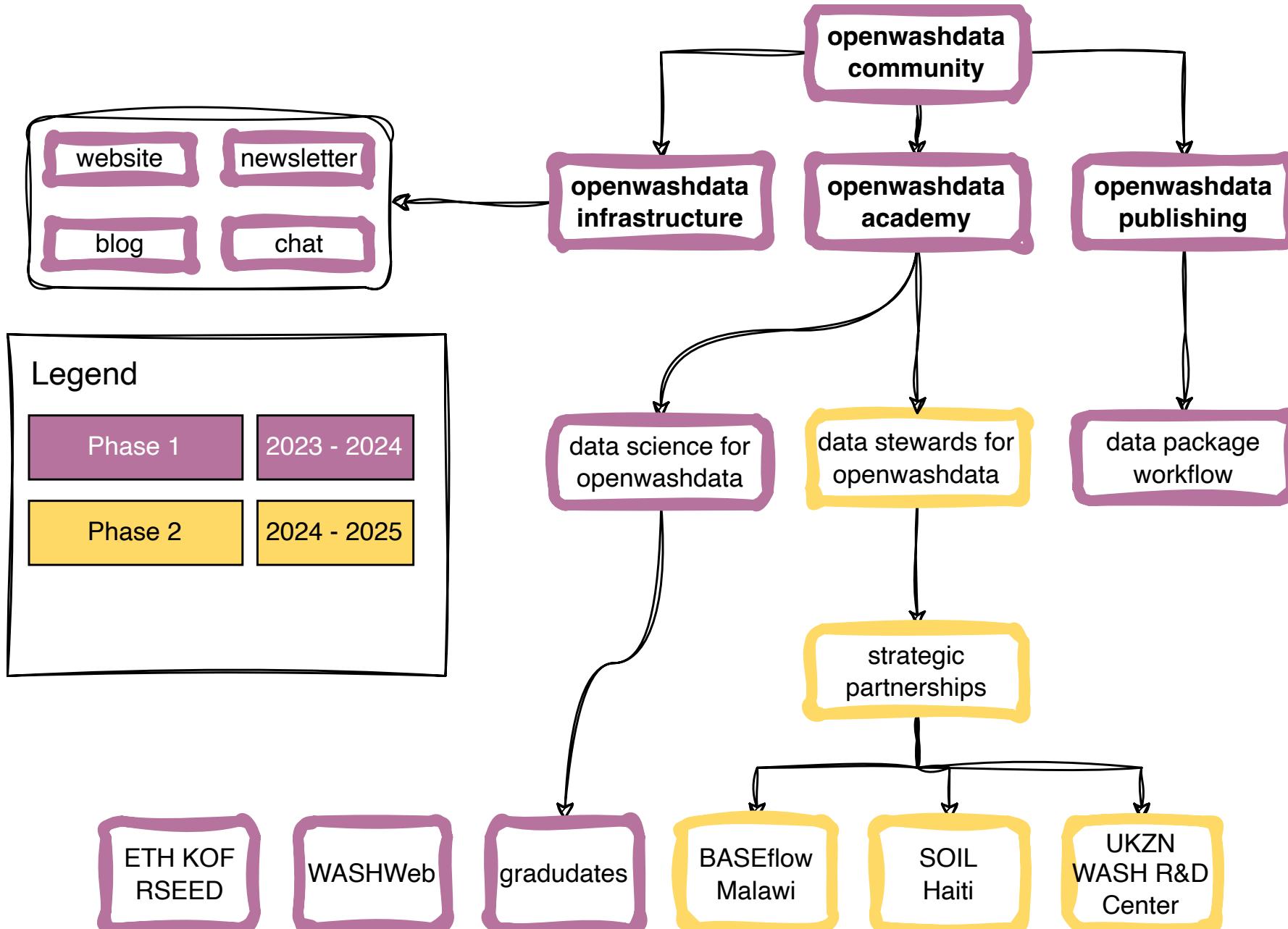


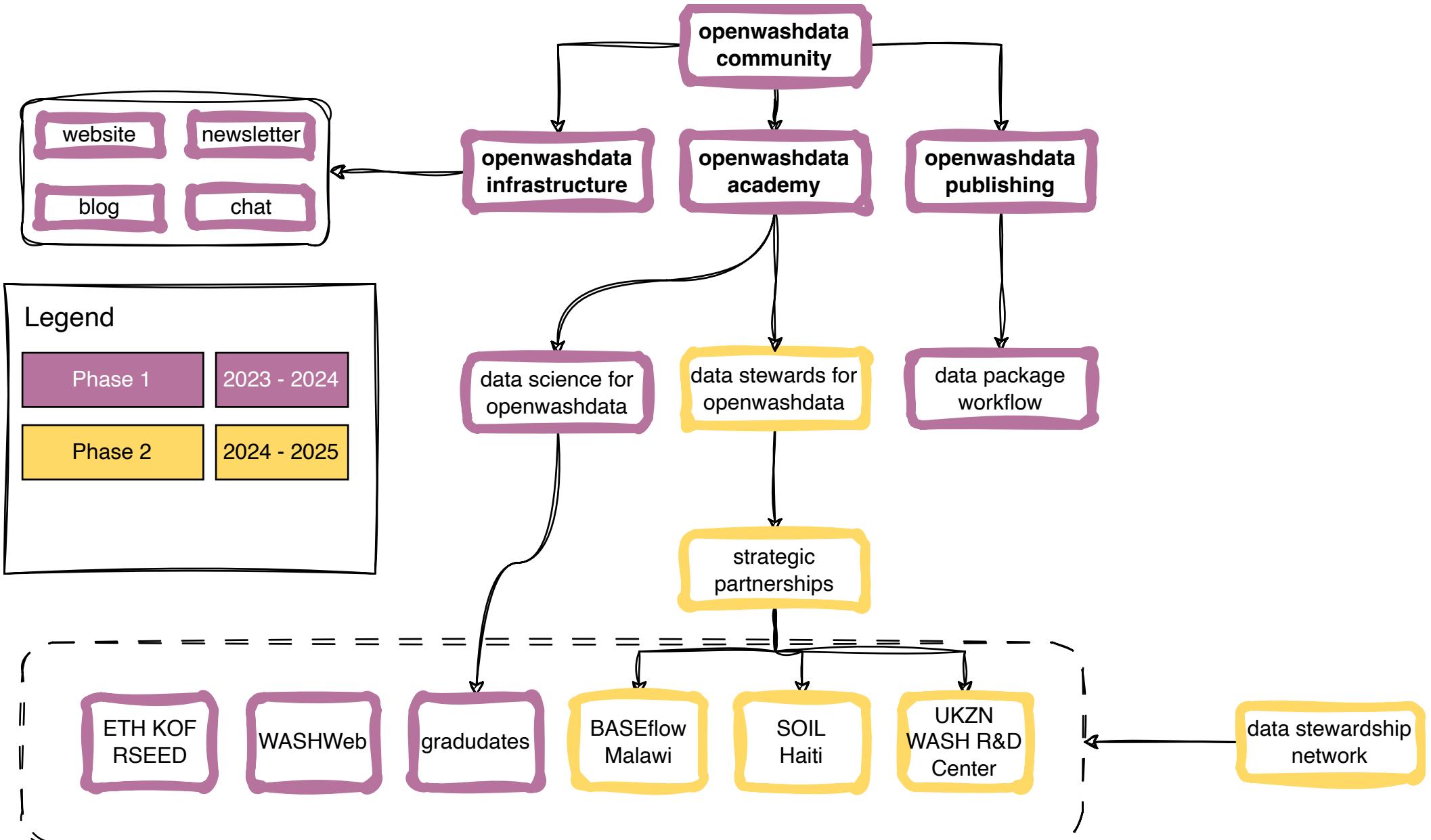


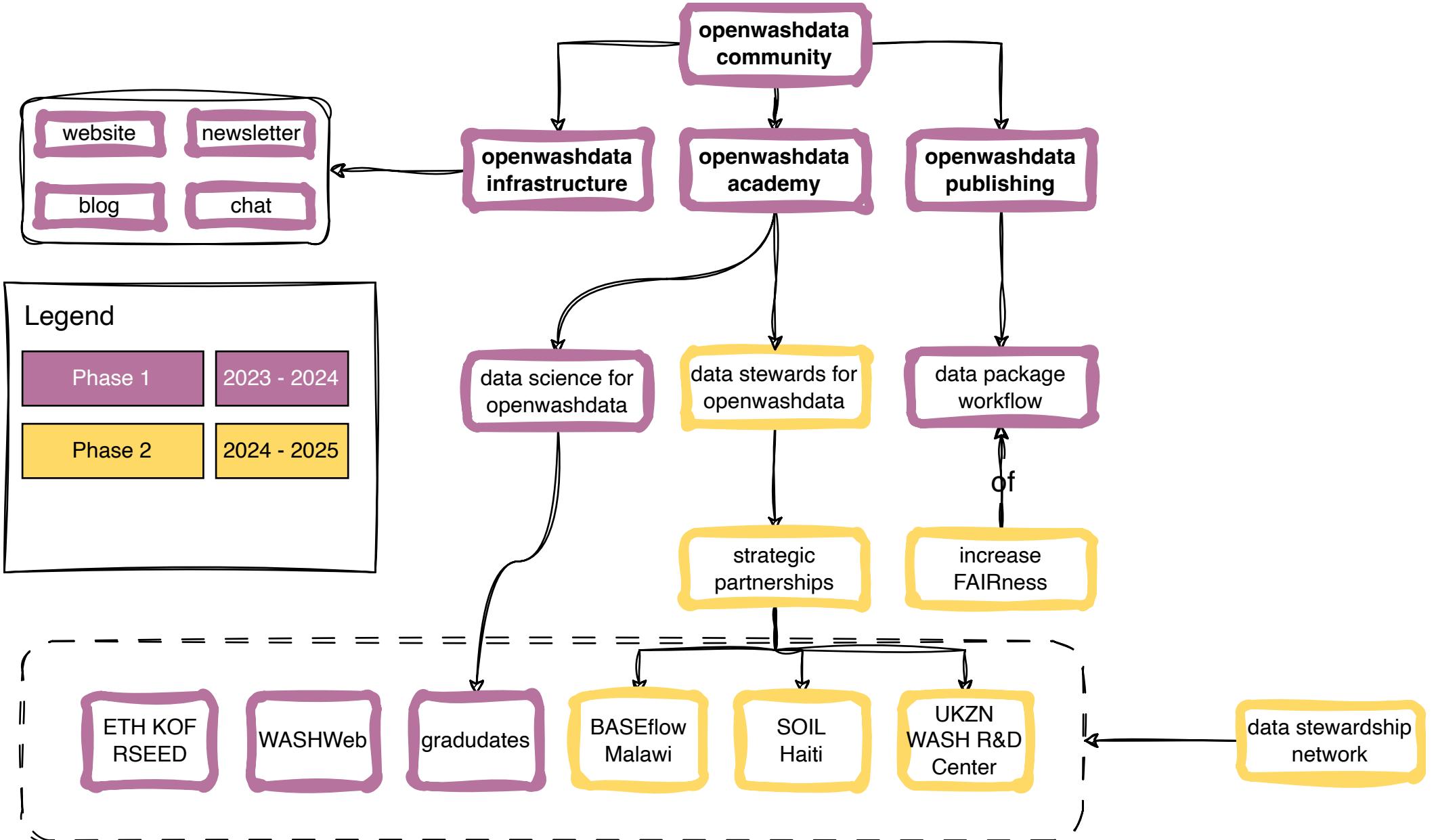


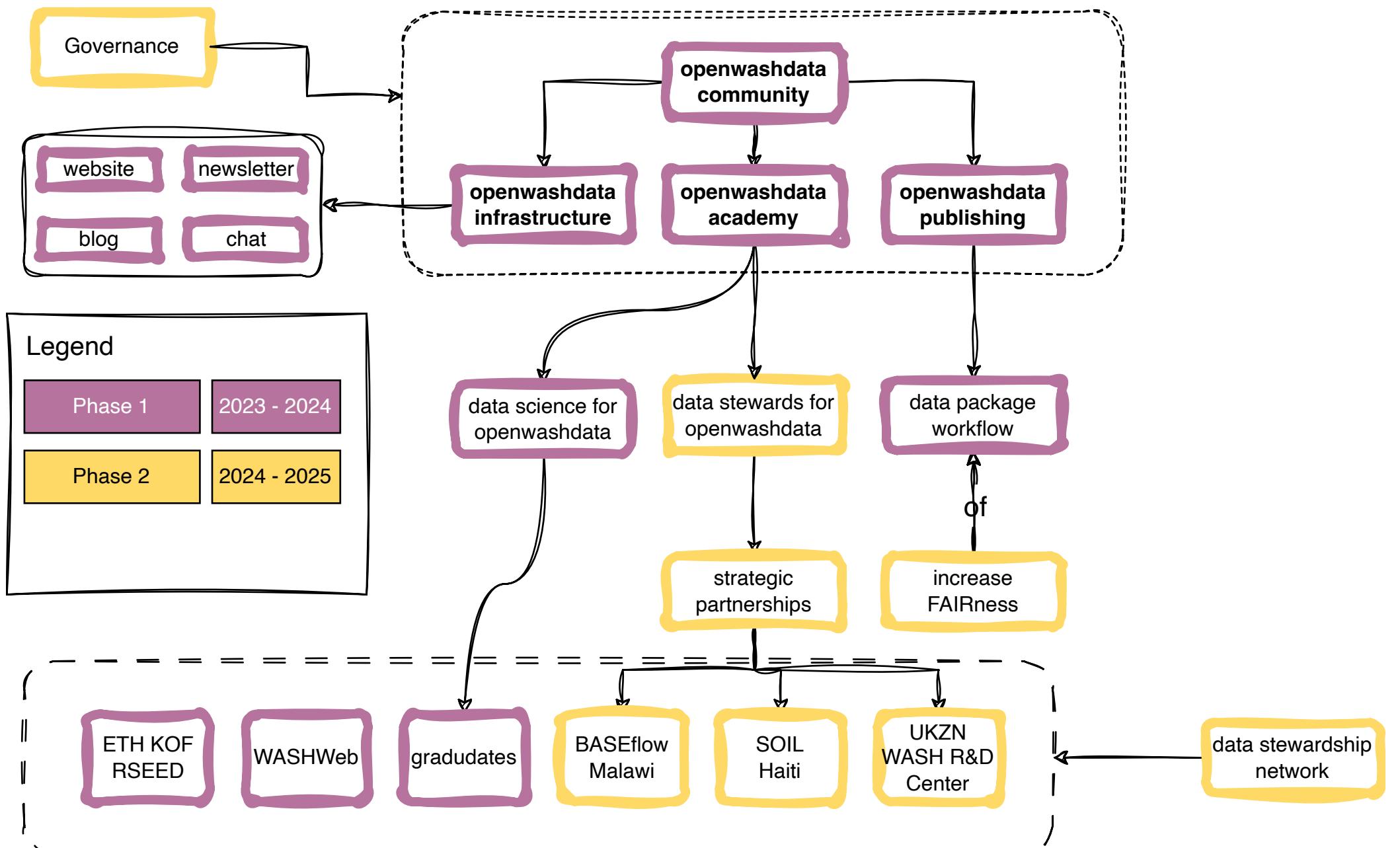


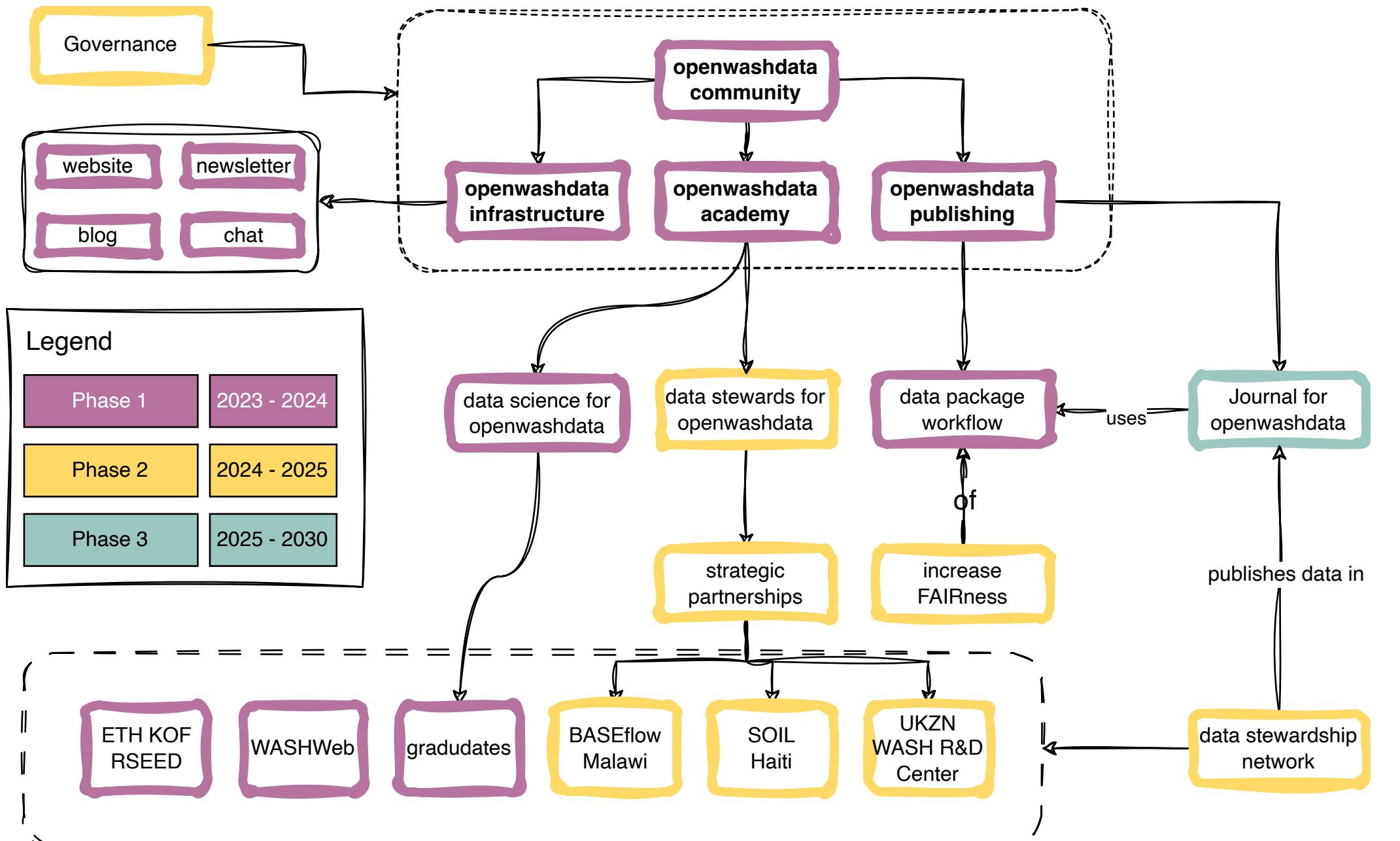












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References

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- Soeters, S, P Mukheibir, and J Willetts. 2021. “Treatment Technologies in Practice: On-the-Ground Experiences of Faecal Sludge and Wastewater Treatment.”
- Wilkinson, Mark D., Michel Dumontier, IJsbrand Jan Aalbersberg, Gabrielle Appleton, Myles Axton, Arie Baak, Niklas Blomberg, et al. 2016. “The FAIR Guiding Principles for Scientific Data Management and Stewardship.” *Scientific Data* 3 (1).
<https://doi.org/10.1038/sdata.2016.18>.