MAST

Managing Sustainability Tradeoffs

Grant Agreement No.: 22035

D3.3 – Open-source repository of measurement and analysis tools developed by the consortium

Document Number	D3.3
Document Title	Open-source repository of measurement and analysis tools developed by the consortium
Version	0.2
Status	Draft
Work Package	WP3
Deliverable Type	Report
Contractual Date of Delivery	September 2026
Actual Date of Delivery	16 October 2026
Responsible Unit	CLW (task leader)
Contributors	AAU
Keyword List	Open-source repository, measurement and analysis tools
Dissemination level	PU

Amendment History

Version	Date	Author (Unit)	Description
0.1	10/2026	CLW	Initial Document.
0.2	10/2026	CLW, AAU	Added the GreenLanguages tool and the repository figures.

Executive Summary

This deliverable concerns the creation of an open-source repository of the measurement and analysis tools developed by the consortium, within Task T3.1 (Measurement and analysis) of WP3.

The consortium agreed to use a single MAST repository for all the tools produced within the project. The repository for the measurement and analysis tools had already been created in the MAST GitHub organisation referenced in D3.5 (Open-source repository of optimization tools developed by the consortium). This document formalises that repository as the output of D3.3. The repository already references a first tool, GreenLanguages, an energy measurement tool based on RAPL.

Partners: CLW, ISEP, AAU

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1 Open-source repository of measurement and analysis tools developed by the consortium

1.1 Description

As agreed by the consortium, a single MAST GitHub organisation is used to host all the open-source tools produced within the project, instead of one separate repository per deliverable. At the present moment, the organisation contains three public repositories (Figure 1.1):

- **PROJ-MAST** (optimization-tools) – repository of the optimization tools, reported in D3.5;
- **measurement-and-analysis-tools** – repository of the measurement and analysis tools developed under T3.1, which is the object of this deliverable;
- **tradeoff-management-tools-** – repository of the tradeoff management tools developed under T3.3, reported in D3.8.

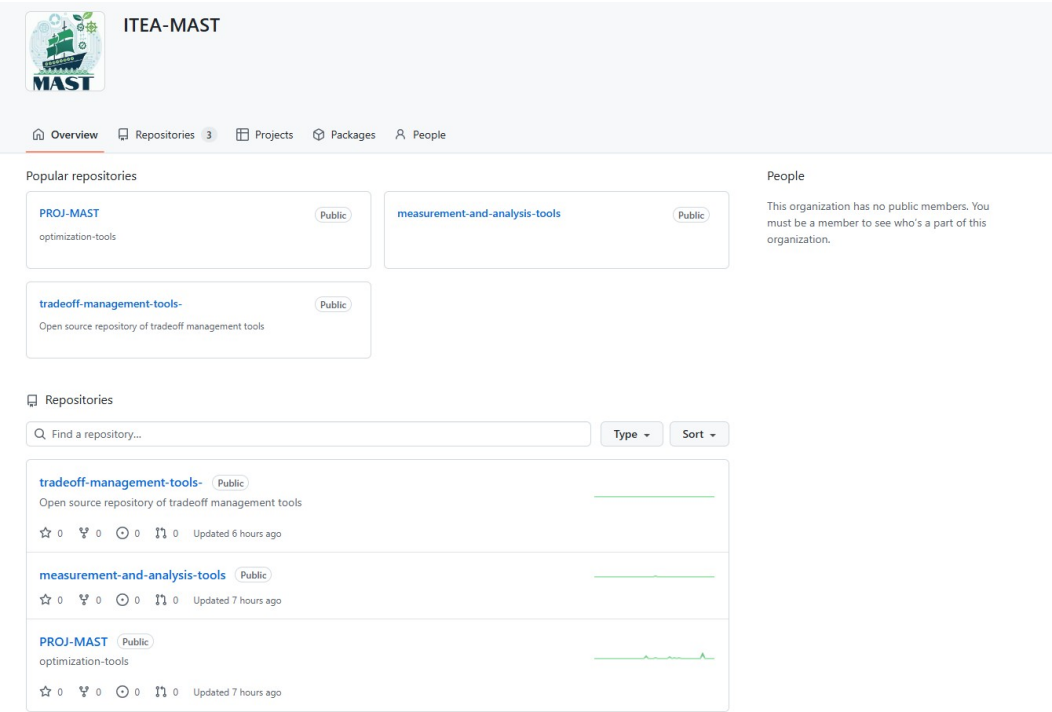

Figure 1.1: MAST GitHub organisation page, with the three public repositories.

The measurement and analysis tools repository was created in April 2026, at the time of D3.5, and is available in the same GitHub organisation referenced in that deliverable. In line with the FPP, the D3.3 milestone refers to the opening of the public repository; this document formalises that repository as the D3.3 deliverable.

Following the same approach as D3.5, the repository holds links to the partners' repositories where the tools are being developed, or documentation about the tools. At the present moment, it references the following tool (Figure 1.2):

- **GreenLanguages** (AAU) – an energy measurement tool based on RAPL (Running Average Power Limit), available as open source at https://github.com/PLEnergyDev/green-languages.

Content will be added up to the end of the project, as the partners release their measurement and analysis tools, and the tools will be described in the measurement and analysis tool catalog (D3.2).

The repository (Figure 1.2) can be accessed through https://github.com/ITEA-MAST (direct link: https://github.com/ITEA-MAST/measurement-and-analysis-tools).

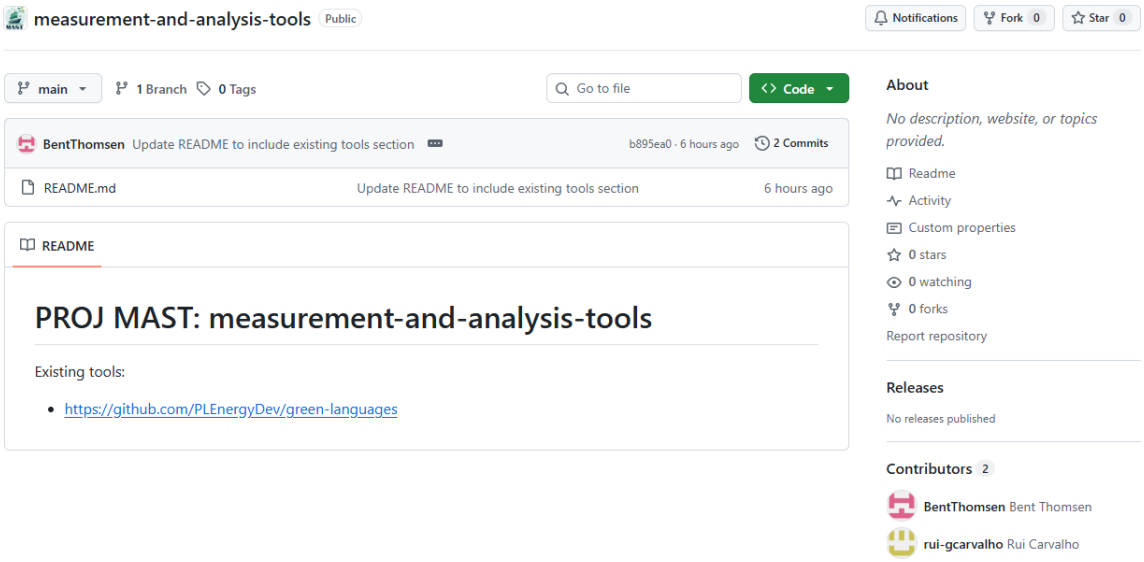

Figure 1.2: MAST GitHub measurement-and-analysis-tools repository page.