

# CrOSSD

## Critical Open-Source Software Database

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### Introduction

Open-source software (OSS) is used in countless companies and public institutions, yet there is limited possibility to view or automatically check the health of OSS. The research project CrOSSD aims to create a database of OSS projects and evaluate their "health" status using both quantitative and qualitative metrics.

The results will provide a comprehensive view of the health of OSS projects, making it easier for developers, maintainers and stakeholders to make informed decisions. The goal of CrOSSD is to assess the status quo regarding the "health" of (especially: critical) OSS projects and make a contribution to the transparent and critical evaluation of open-source software.

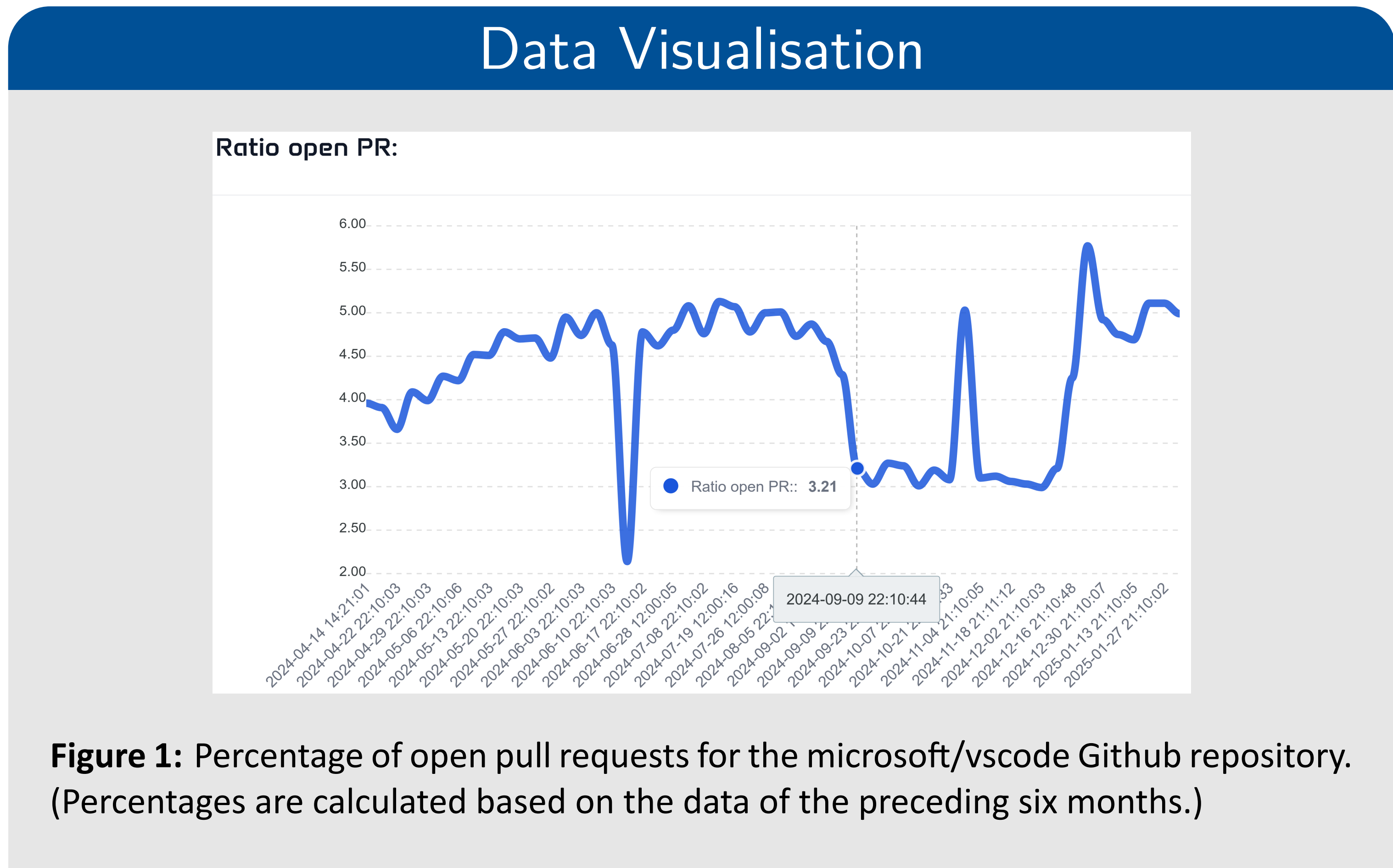
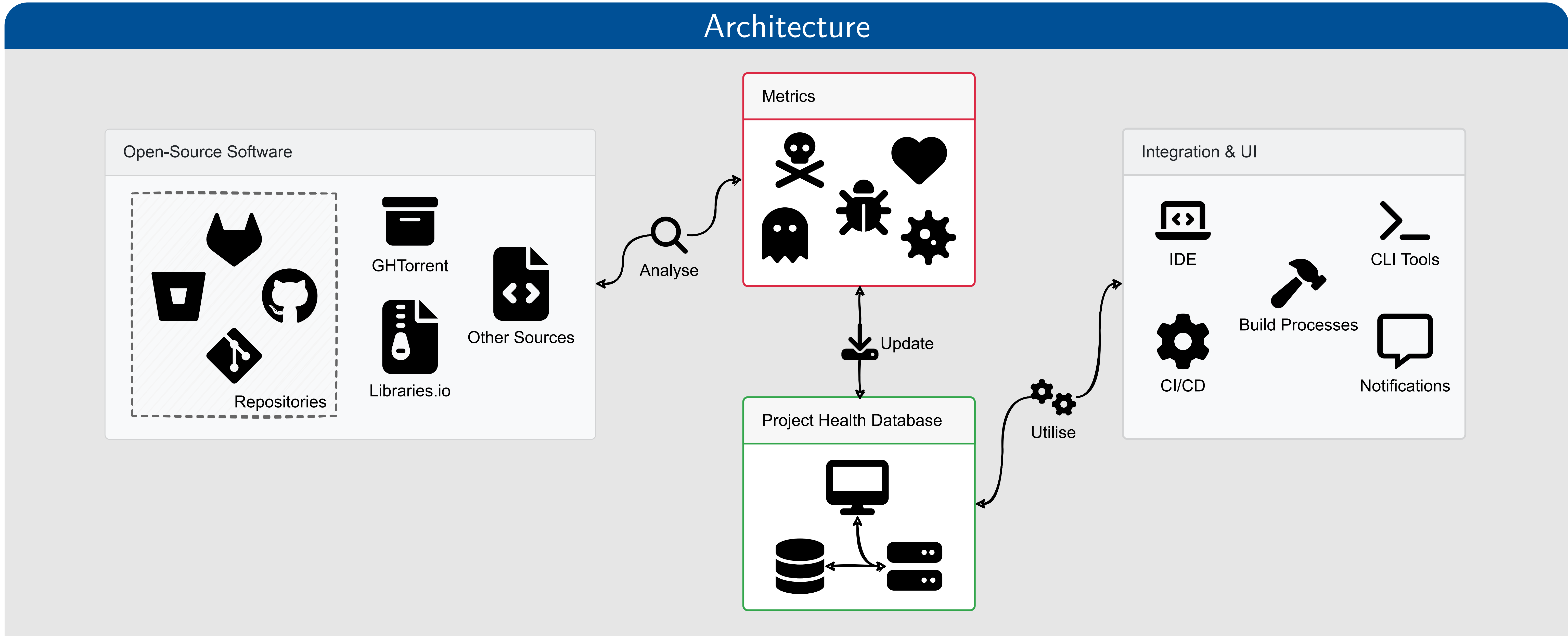
### Components

**Data collection:** Gathers metadata from various sources such as code-hosting platforms, financial reports, and community engagement data.

**Metrics assessment:** Analyses the collected data and generates scores reflecting the health of OSS projects in different domains.

**Project health database:** Continuously monitors and updates the metrics assessment.

**Integration & UI:** Results are displayed on a user-friendly web platform, planned integration with other tools and platforms.



### Future Work

**Current plans:**

- qualitative social research through interviews and focus groups
- broader coverage of projects monitored (e.g. all projects funded by netidee)
- using NLP/LLM approaches to capture more complex aspects (e.g. community engagement, financing or sustainability)
- UI improvements

**Project website:** <https://crossd.tech>