



# KPI Report for the Wormhole Project

## Introduction

The Wormhole project aims to provide a decentralized data storage solution, offering a secure and simple alternative to centralized and cloud-based systems. This report presents the key performance indicators (KPIs) that have been achieved so far, in accordance with the guidelines of Epitech.

## Prototyping and Development

A functional prototype of Wormhole has been published and is usable under controlled conditions. This marks a significant milestone in the project's development, demonstrating its technical feasibility.

## Protection and Security

- **Legal Protection:** The project is open source under the AGPL license, ensuring accessibility and usage under certain conditions.
- **Technical Protection Against Cyber Attacks:**
  - The open-source nature allows the community to contribute to code review and correction.
  - Compatibility with disk encryption of operating systems.
  - Future support for internet security standards (SSL).
- **Technical Protection of Integrity:**
  - Use of the Rust language for security.
  - Rigorous unit and functional testing.
  - Architecture designed for security with redundant mesh.

## Collaboration with Experts

Several collaborations and internships have been conducted to enrich the project:

- **Active Prospecting:** Interviews with BPCE Infogérance et Technologies, and Grant Thornton.
- **Passive Prospecting:** Internships at Safran, IParcus, and Nokia.
- **Open Source Contributions:** Two contributions have been made to improve the functionalities of WinFsp and Fuser.




## Testing and Validation

Tests are conducted internally by the team itself, which also uses the Wormhole product. This allows for rapid feedback and continuous improvements.

## Competitive Analysis

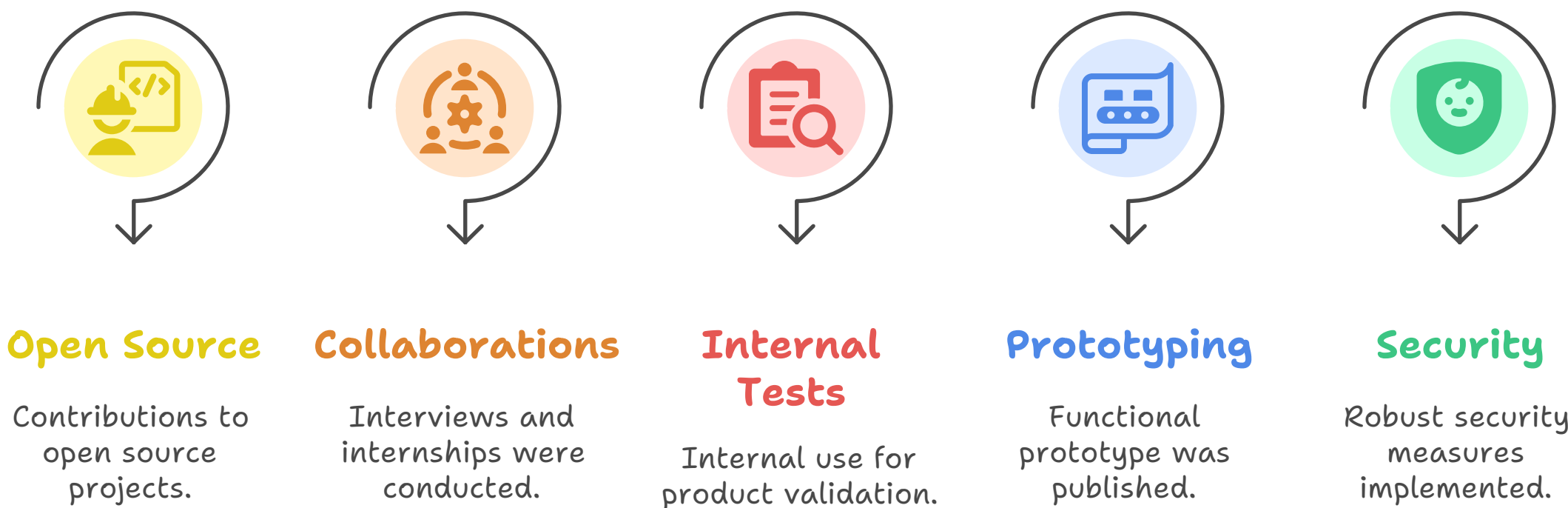
Wormhole distinguishes itself from its competitors in several ways:

## Comparison of Distributed File Systems

Characteristic	Gluster FS	Moose FS	IPFS
 <b>Disk caching</b>	Less integrated	No	Yes
 <b>Complexity</b>	Moderate installation	More complex	light or moderate installation
 <b>Target</b>	Businesses/individuals	Data centers	Collaborative cloud

### Key Performance Indicators

#### Key performance Indicators



### Economic Plan

The project is open source, offering high visibility and adoption by the community. Usage will be free for individuals, but for businesses, it will be a paid service. The cost will scale with the size of the business, with larger enterprises incurring higher costs.

### Functional and Technical Audits

- **Functional Audit:** Flexibility, simplicity, and compatibility are the strengths.
- **Technical Audit:** Rust is suitable, native integrations anticipated, and focus on network algorithms and architectures.

### Conclusion and Next Steps

The Wormhole project has achieved several important milestones, including the publication of a functional prototype and fruitful collaborations with technical experts. The next steps include continuous improvement of security, expansion of collaborations, and exploration of economic models for associated services.