







## What is Open Source?

#### **Definition and Essence**

- Community-driven: Created and maintained collaboratively by a global network
- Open access and freedom: Code is publicly accessible, modifiable, and shareable
- Non-proprietary: Unlike closed software,
   Open Source belongs to the community.

#### **How it works**

- Transparent development: Every update and modification is visible to all
- License-based sharing: Open licenses (e.g., MIT, GPL) protect openness and sharing rights
- **Diverse contributions:** Welcomes input from developers, researchers, companies, and individuals



## Why invest in Open Source?



#### **Collective innovation**

Building robust, scalable solutions together



#### **Transparency**

Develop accountability and compliance with ethical and regulatory standards



#### **Personalization**

Offer tools that are flexible and adaptable to user's needs



Disseminate the knowledge needed to use and develop the tools



## Does Open Source really enhance sovereignty?



#### **Strategic autonomy**

- Reducing reliance on non-European, proprietary software
- Technological independence: empowering European countries to shape and control their own tech infrastructure



#### **Security and compliance with** Al regulation

- **Risk mitigation**: facilitating external audits and minimizing black-box systems.
- **Accountability**: Public access to code enables alignment with the AI Act's call for transparency and traceability.



#### **Building innovation**

- **Developing local talent**: growing European expertise and a skilled workforce
- **Economic impact**: Strengthening the European tech ecosystem and fostering innovation across sectors.



Alignment with European values



#### However ...

According to a paper published by the Linux Foundation, there is a big "consumption versus contribution imbalance" in open source software development.

(Eberhardt et. al., 2022, p. 34)

How do we come up with clever ideas to support Open Source?

### **An example from France**



# Open source Data science software









## :probabl.



A mission-driven company for industrial and digital sovereignty





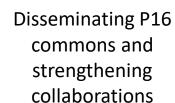
## **Our European ambition**



#### **Expertise and resources**

Rallying European research stakeholders to contribute to the continuous enhancement of Data Science Open Source libraries

# Scientific and technological impact



# Social and economic impact

Ensuring European
technological
sovereignty and
accelerating AI digital
transformation

#### **European-led standards**

Establish Europe as a leader in open-source standards, creating frameworks others can adopt



