

P16

Sovereign digital commons for IA

Inria



**RÉPUBLIQUE
FRANÇAISE**

*Liberté
Égalité
Fraternité*



Our mission



« Support the development and deployment of a **sovereign, open, and interoperable** platform of AI software libraries for French companies and scaling it up to the European level. » - *Measure No.*

16 of the National Strategy for AI

The Inria logo is written in a stylized, cursive red font.



Our mission



Develop

Develop or support the development of software libraries



Sustain

Maintain these commons at the state of the art in science and technical practice.



Integrate

Ensure seamless interoperability between libraries



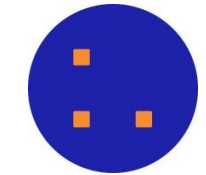
Disseminate

Promote adoption in academia and industry



Our setup

Inria



:proabl.

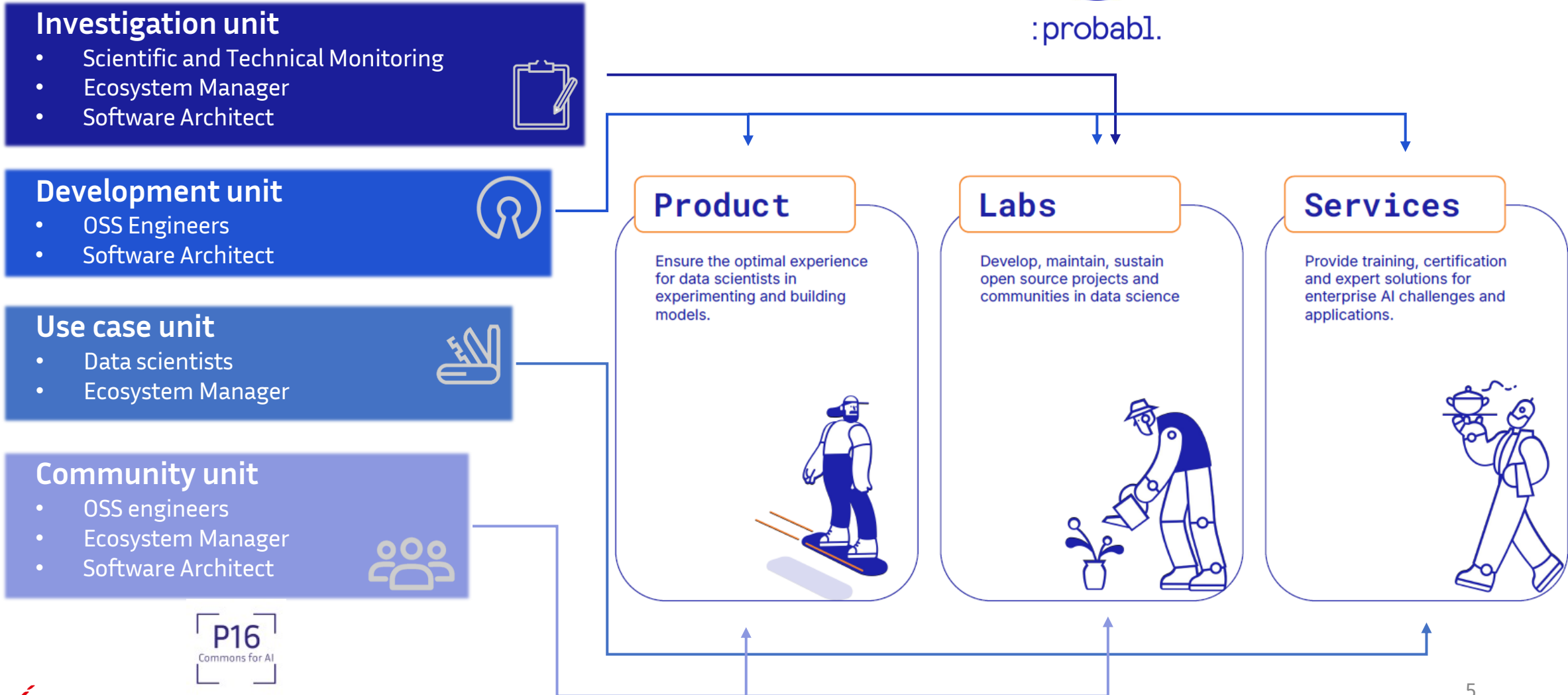
- **Identification** and assessment of libraries
- **Pre-industrialization** of libraries
- Development of **use cases** and business applications with **industry partners**
- **Scientific collaboration** and research outreach



- Mission-driven company for **Industrial and Digital Sovereignty**
- **Industrialization** of libraries
- Business opportunities
 - **Products**
 - **Professional services**
 - **Training and certification**



How we work with :Probabl.



Our OSS commitment



Collective innovation

Build robust and scalable solutions together



Customization

Provide flexible tools that can be adapted to users' needs



Transparency

Develop mechanisms for traceability and compliance with ethical and regulatory standards



Training

Disseminate the knowledge necessary for tools use and development



Our technical actions



Data interoperability

- Standardization and distributed architecture prototyping
- Publication and exchange of data via open web standards
- Infrastructure to ensure the sustainability and independence of stakeholders



Data Wrangling

- Formatting data for AI, identified as a bottleneck by data scientists
- Development of a library for unified, flexible, and efficient data transformation, exploration, and quality measurement



Machine learning toolbox

- Continuous innovation and state-of-the-art relevance
- Support for different data formats (e.g., time series)
- Transparency and explainability of models
- Performance optimization

Our north star



scikit-learn is one of the most popular open-source libraries for machine learning, widely used in both academic research and industry.

Impact

- ✓ Trusted by thousands of developers & researchers
- ✓ Backbone of ML workflows in academia & industry
- ✓ Extensive contributions & continuous improvements

- ★ **Stars:** 61.4k
- 🍴 **Forks:** 25.7k
- 👤 **Contributors:** 2,900+
- ↩ **Commits:** 49,000+
- 🚀 **Releases:** 40+
- 📁 **Dependent Projects:** Over 1 million
- 📦 **Dependent Packages:** Over 20,000

⚙ Features

- ❑ **Classification:** SVM, Random Forest, k-NN...
- ❑ **Regression:** Linear Regression, Ridge, Lasso...
- ❑ **Clustering:** k-Means, DBSCAN...
- ❑ **Dimensionality reduction:** PCA, LDA...
- ❑ **Model selection:** GridSearchCV, cross-validation...
- ❑ **Data pre-processing:** normalization, encoding, missing value imputation...

Our call for interest

Integration into the data cycle

demonstrate how the library
contributes to the overall vision of
P16 and can integrate or extend
one of the technical actions
(interoperability, preparation,
learning)

Interest for digital sovereignty

demonstrate how the library
contributes to strengthening the
national and European position in
the field of AI (competitive
landscape, governance ...)

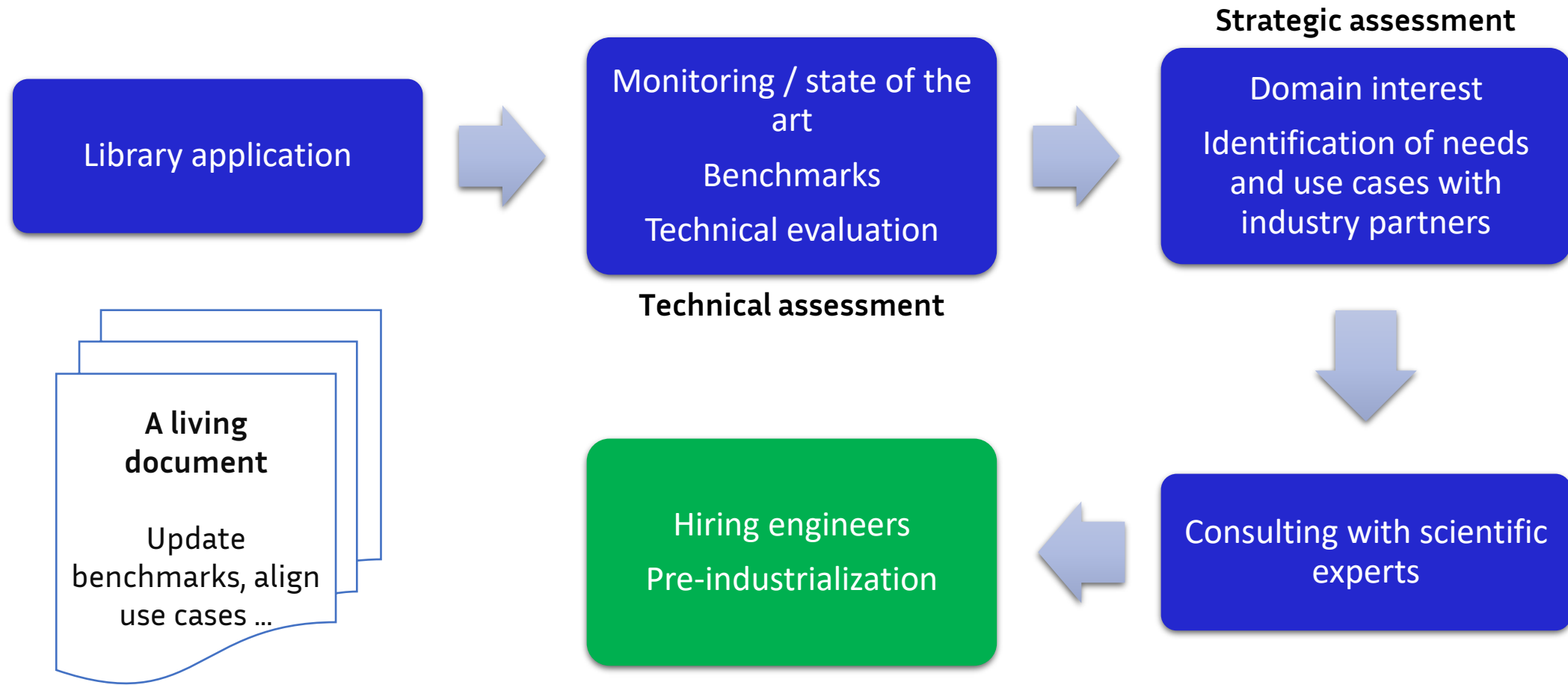
Matching the needs of the ecosystem

demonstrate how the developed
solutions can meet specific use
cases, targeting identified
industrial needs.



Generic use

Libraries selection



Life of supported libraries



Data cleaning and preparation



Data interoperability and knowledge graphs



Time series clustering and classification



Uncertainty quantification



Time series toolbox



OpenHosta

Machine Learning / LLM Hybridization



Machine learning explainability



Technical Development



- ❑ Dedicated support to structure, industrialize and enrich the library.
- ❑ Support for open-source community management.

Dissemination



- ❑ Participation in events to increase visibility.
- ❑ Organization of workshops and hackathons to bring together users and contributors.

Training




- ❑ Setting up training to meet the needs of potential users.
- ❑ Development of pedagogical modules in collaboration with initiatives such as Inria Academy.

Ecosystem collaboration

1

Encourage adoption and contribution

- Participate in workshops, webinars, and hands-on sessions
- Continuous education program development with 

2

Identify AI needs

- Tailor our work to the needs of our partners
- Large ecosystem consultations

3

Co-develop use cases

- Demonstrate, collectively, the relevance of P16 libraries



Thank you for your attention!

Any questions?

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