



Overview and Stats

(Based on Aug 19 landscape snapshot)

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 THE **LINUX** FOUNDATION

Basic information

- › Based on the [original landscape](#) from the [Cloud Native Computing Foundation](#)
- › [Announced](#) in December 2018 with ~85 projects.
- › Grew 3x in size (# of projects) in <2 years
- › Available from: <https://l.lfai.foundation>
- › Run as an open source project static site: <https://github.com/lfai/lfai-landscape>
- › You can install and run it locally on your computer:
<https://github.com/cncf/landscapeapp/blob/master/INSTALL.md>
- › You can download a high resolution image for your presentations:
<https://landscape.lfai.foundation/images/landscape.png>
- › It's interactive - click on the projects and companies and get additional details
- › It's searchable with several built-in filters
- › Used as a reference to showcase the open source AI ecosystem

Programming

TP
Papa

LFAI Incubating

DASK

iHubJBT

julia

NumPy

NYOKA

primogranate

PyMC3

SciPy

Stan

Data

A grid of logos for various companies and organizations, including Intel, CVAT, Diacore, Analytics Zoo, B beam, Labelbox, HITACHI, Labelimg, Microsoft, and EGERA.

Trusted & Responsible AI

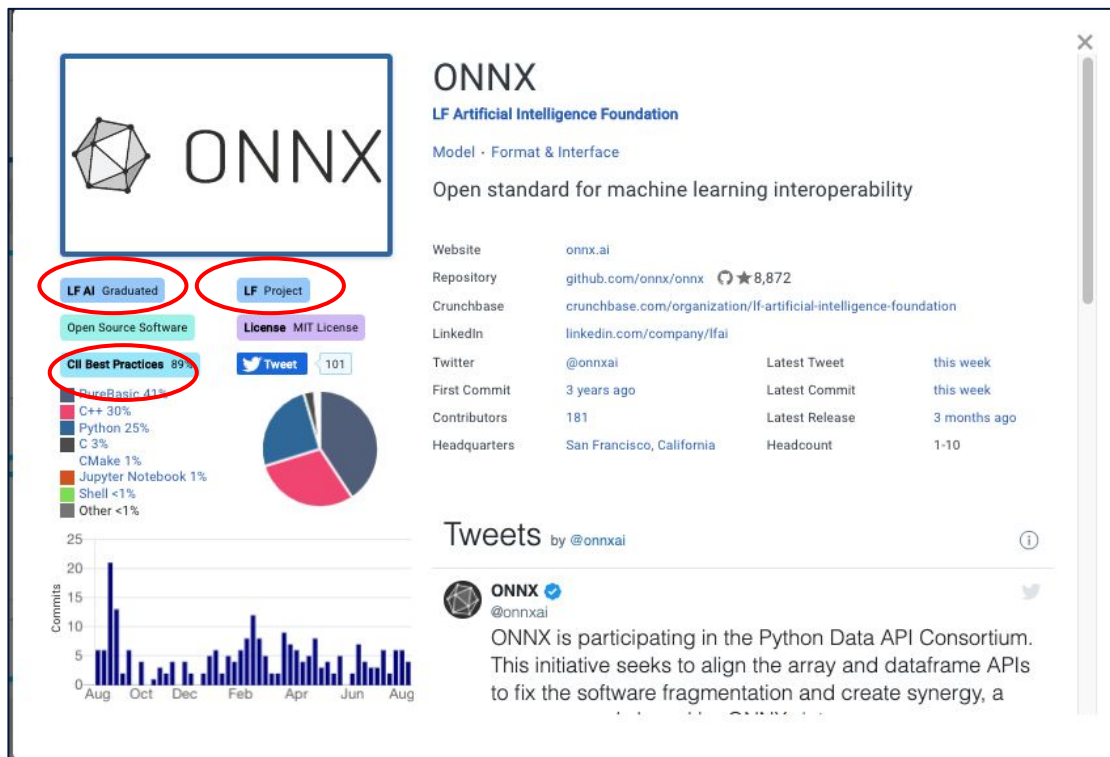
Trusted & Responsible AI

- Evidently AI
- ALIBI
- ELIS
- Microsoft Responsible
- University of Washington Lime
- Google Lucid
- SHAP
- SKATER
- Bolt
- AdvBox
- Explainable Recommendation
- Aequitas
- Microsoft Fairness 360
- Audius
- Audius AI
- Fairlearn

Education

Education

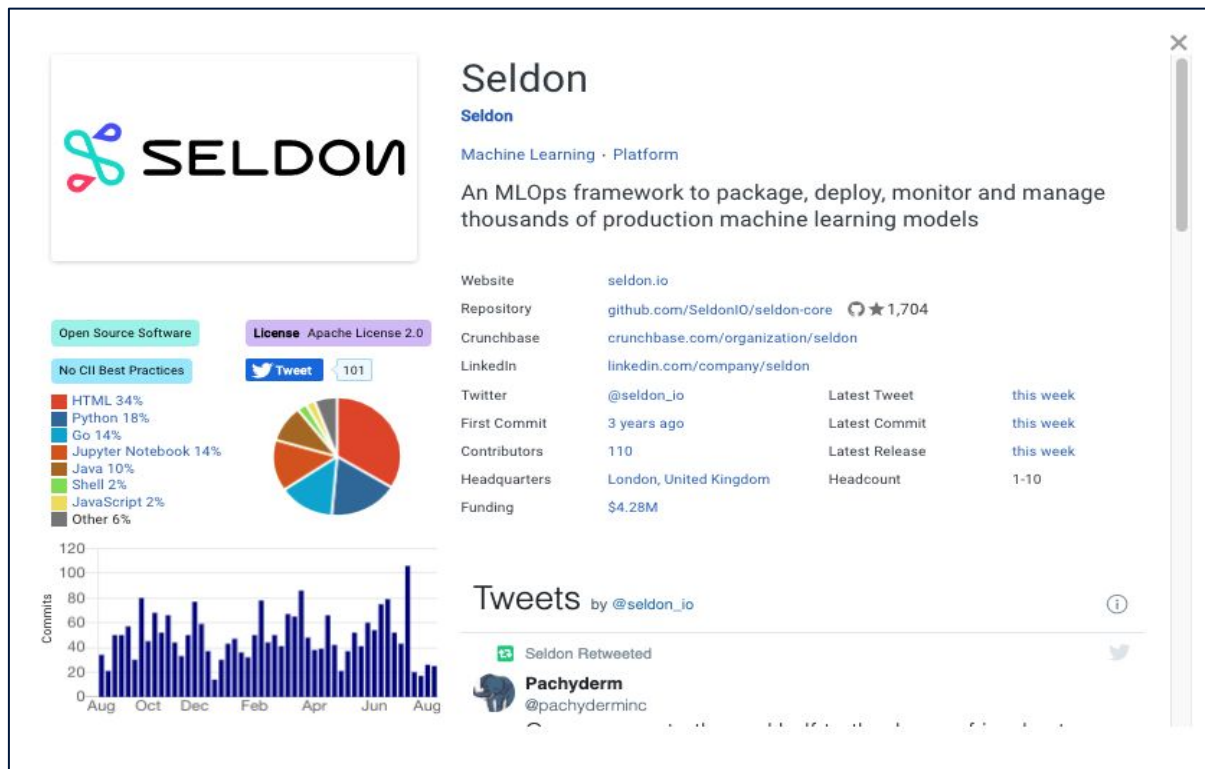
Sample project card - ONNX, LF AI Graduate Project




Data sources:


GitHub
Crunchbase
Twitter

Sample project card



Available Filters

 **LF AI Landscape**

 **Reset Filters**

Grouping

N/A ▼

Sort By

N/A ▼

Category

N/A ▼

LFAI Relation

Any ▼

License

Any ▼

Organization

Any ▼

Headquarters Location

Any ▼

Built-in Filters

Example filters:

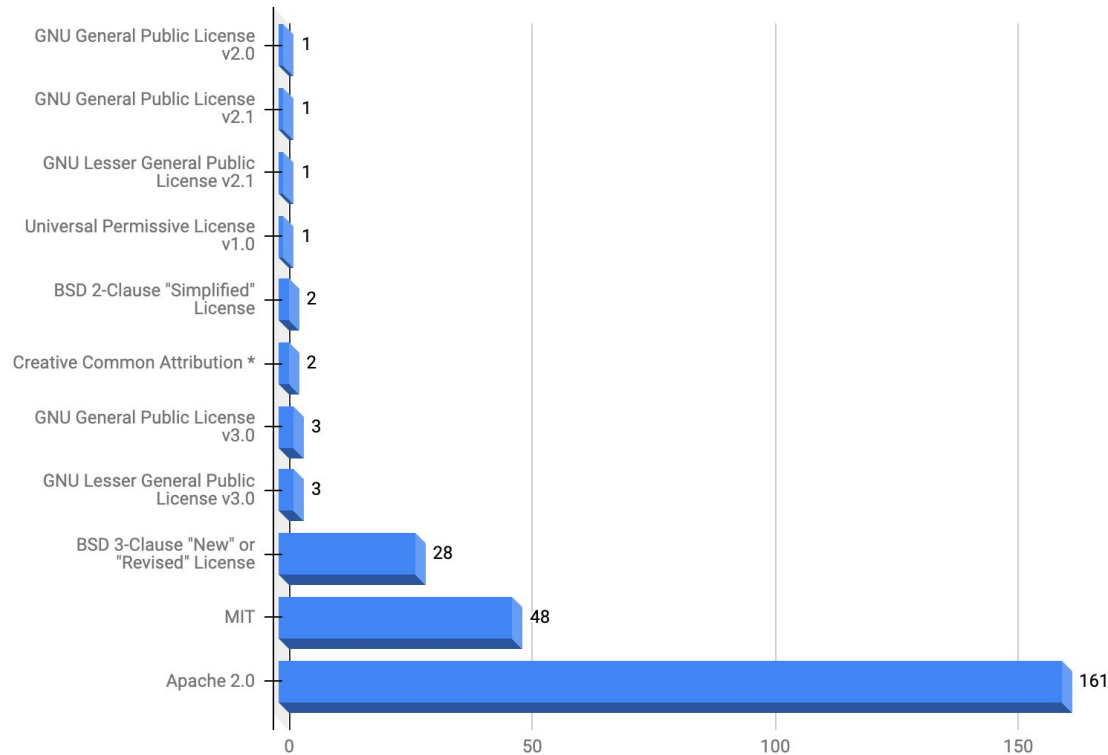
Open source cards by age
Apache-2.0 landscape
Cards in categories
Cards by stars
Group by location
Cards by MCap/Funding

Landscape data is available for download from <https://l.fai.foundation/>

The screenshot shows the LF AI Foundation Interactive Landscape website. The left sidebar contains a 'Reset Filters' button and a list of filter categories: Grouping, Sort By, Category, LFAI Relation, License, Organization, Headquarters Location, and Any. Below these are 'Example filters' and a 'Download as CSV' button, which is highlighted by a red arrow. The main content area is titled 'LF AI Foundation Interactive Landscape' and displays a grid of project cards organized into categories like Machine Learning, Deep Learning, Reinforcement Learning, Programming, Notebook Environment, Versioning, Store & Format, Operations, Stream Processing, SQL Engine, Feature Engineering, Visualization, Pipeline Management, Labeling and Annotation, Governance, Benchmarking, Training, Parameter, Format & Interface, Marketplace, Workflow, Inference, Tool, Explainability, Adversarial, Bias & Fairness, Computing & Management, Interface, Security & Privacy, Natural Language Processing, and Education. The bottom of the page features a QR code and the LF AI Foundation logo.

Interesting stats derived from the landscape's data

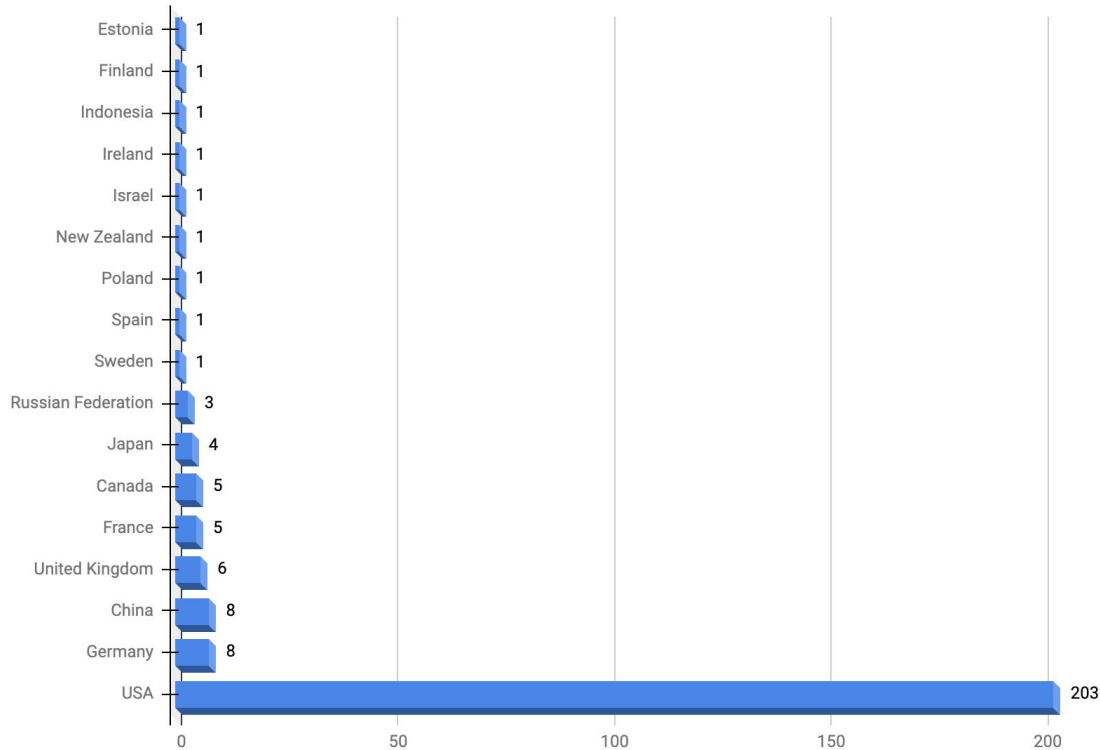
Distribution of licenses



Notes:

The large number of MIT and BSD licensed projects is mostly driven by 2 companies who really like these licenses.

Distribution of countries



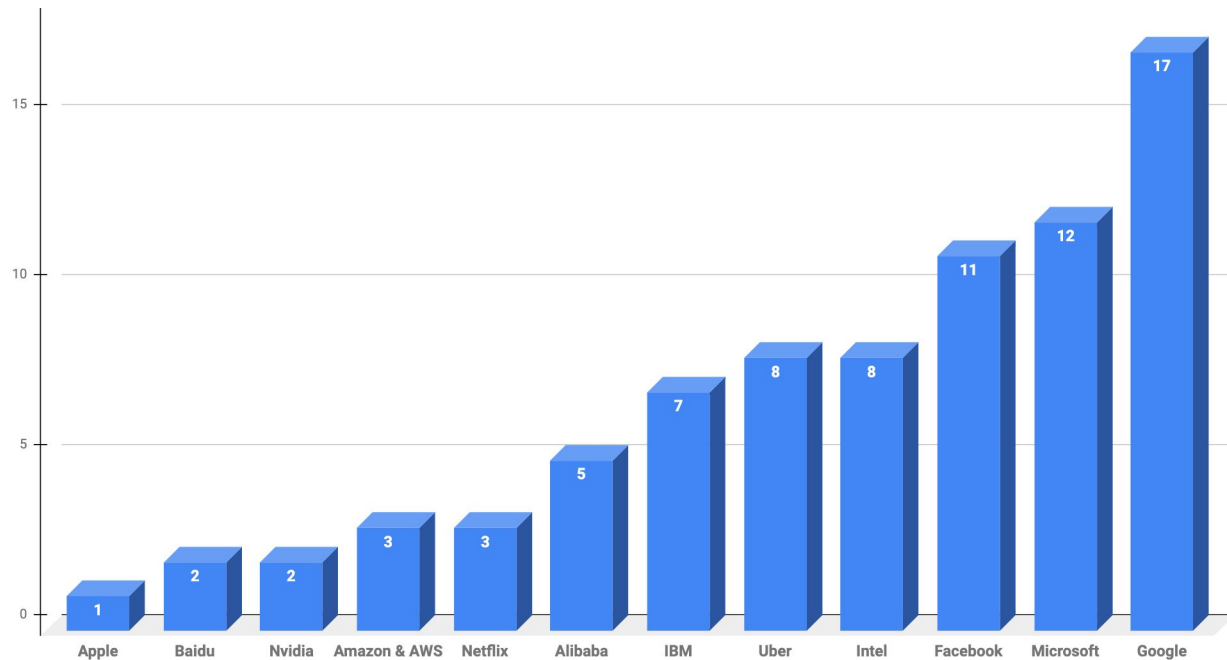
Notes:

The number of projects from China is decreasing as many projects are moving into Foundations and as a result, these will show up under the Foundation geography (LF -> USA).

Number of projects from France, UK and Germany has been consistently increasing.

The US stats are on fire.

Sampling of tech companies on the landscape

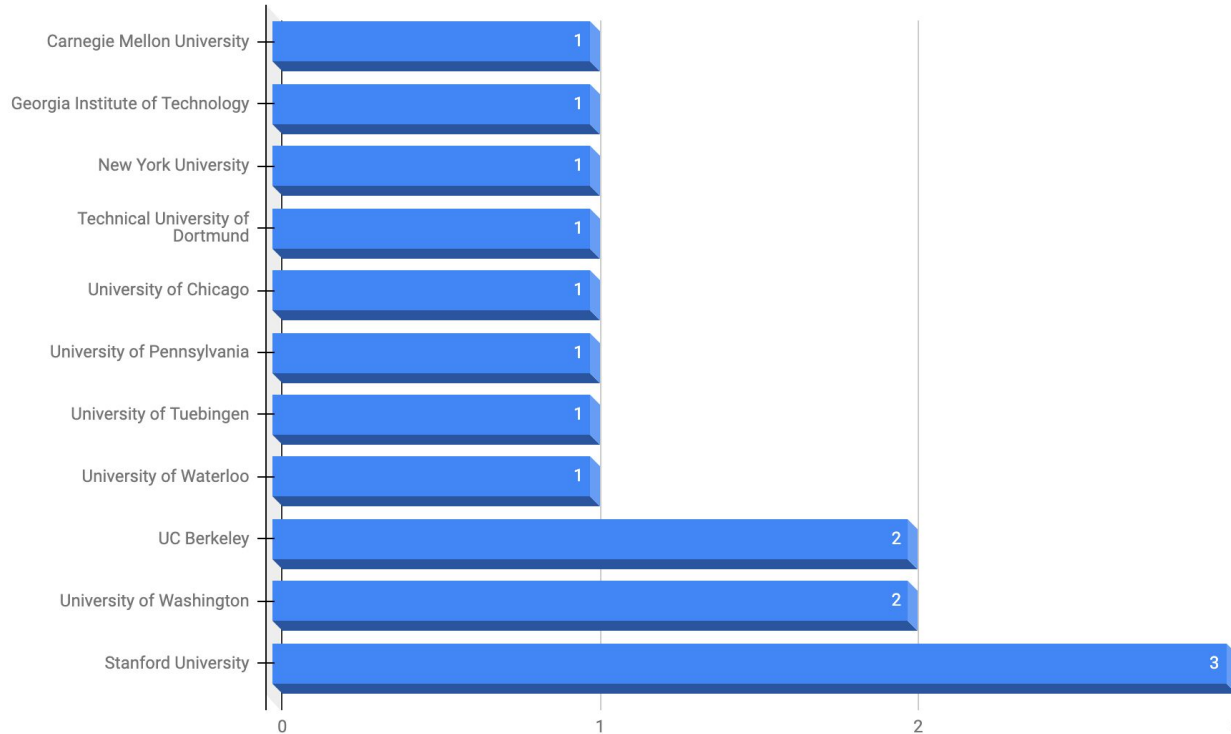


Notes:

Please keep in mind that some of these companies host projects in Foundations. The numbers here reflect projects that are still under their governance and not in a foundation.

Example: Uber contributed 3 projects to LF AI. They have 8 other projects that they founded and show up on the landscape under their name.

Universities with projects on the landscape



Notes:

11 universities are founders for open source AI projects on the landscape. However, the featured projects on the landscape have 1000s of contributors from academia (defined as contributions from a .edu, .ac.uk, or similar domains).

US states with highest # of projects



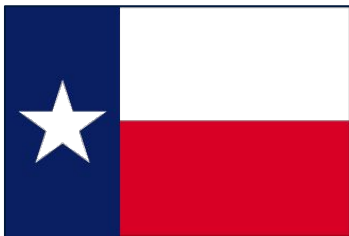
Silicon Valley cities (San Jose, San Francisco, Mountain View, Palo Alto, Sunnyvale, etc.),

California



Seattle and surrounding cities (Bellevue, Redmond),

Washington



Austin

Texas

How much code is there?

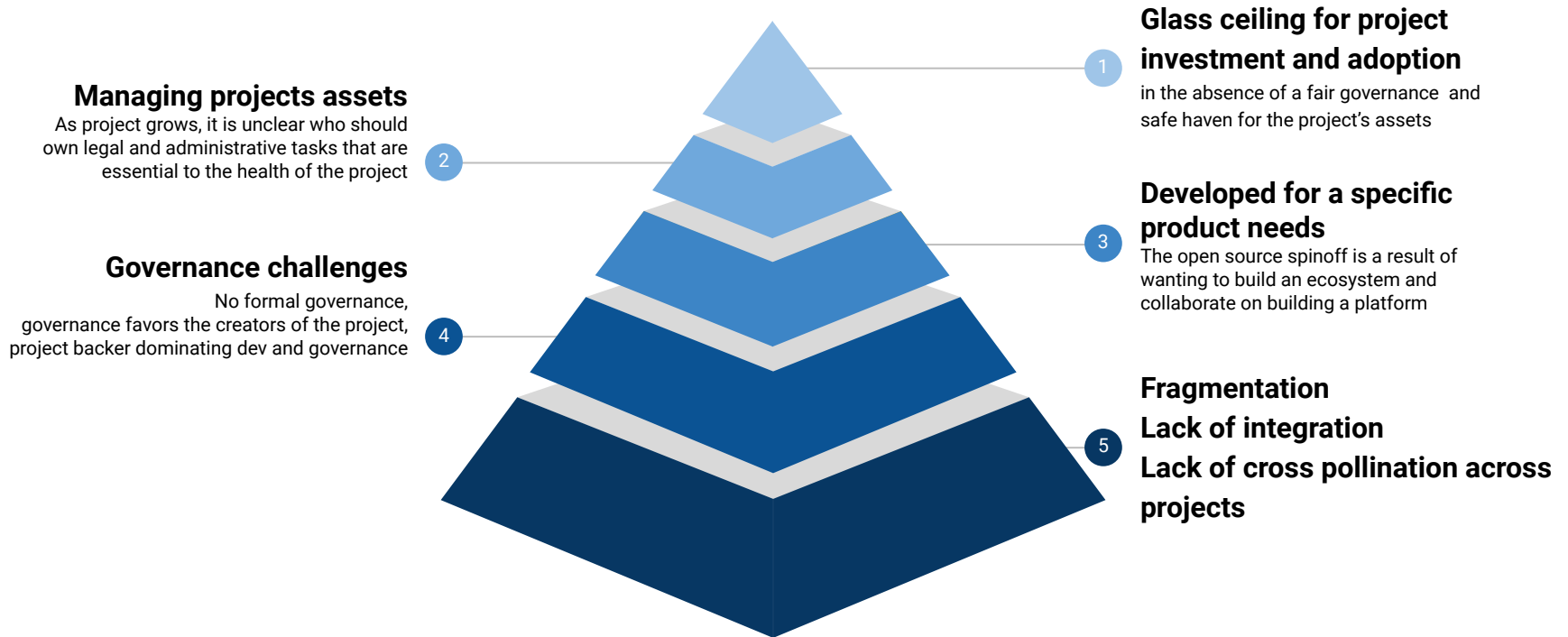
Over 450 Million LoC across all projects listed on the landscape

Velocity of development is ~1 M LoC every 7-10 days

Stopped tracking - You can use [Facade](#) to track the code, who's contributing, etc.

A growing ecosystem, with some challenges

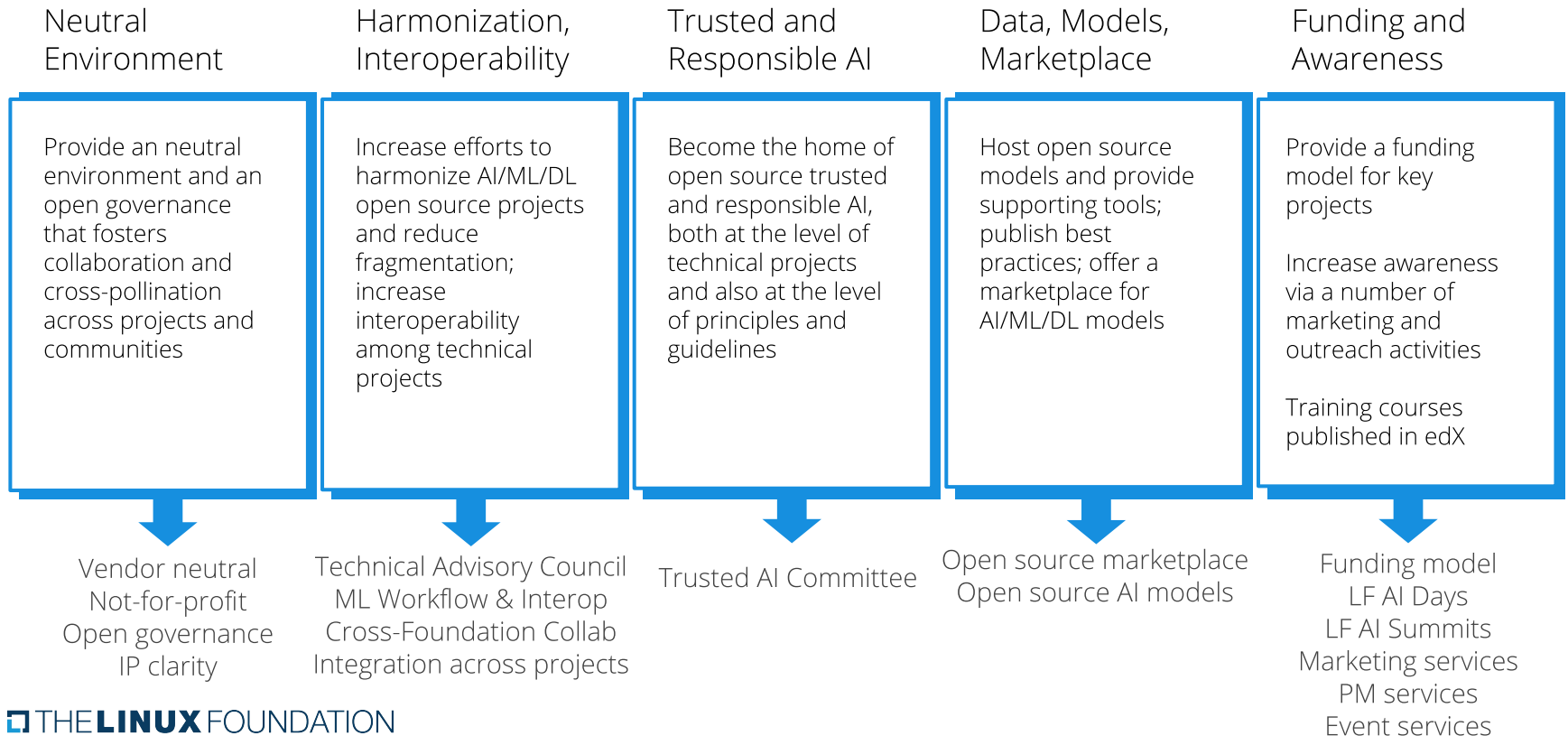
Open Source AI - Ecosystem Challenges



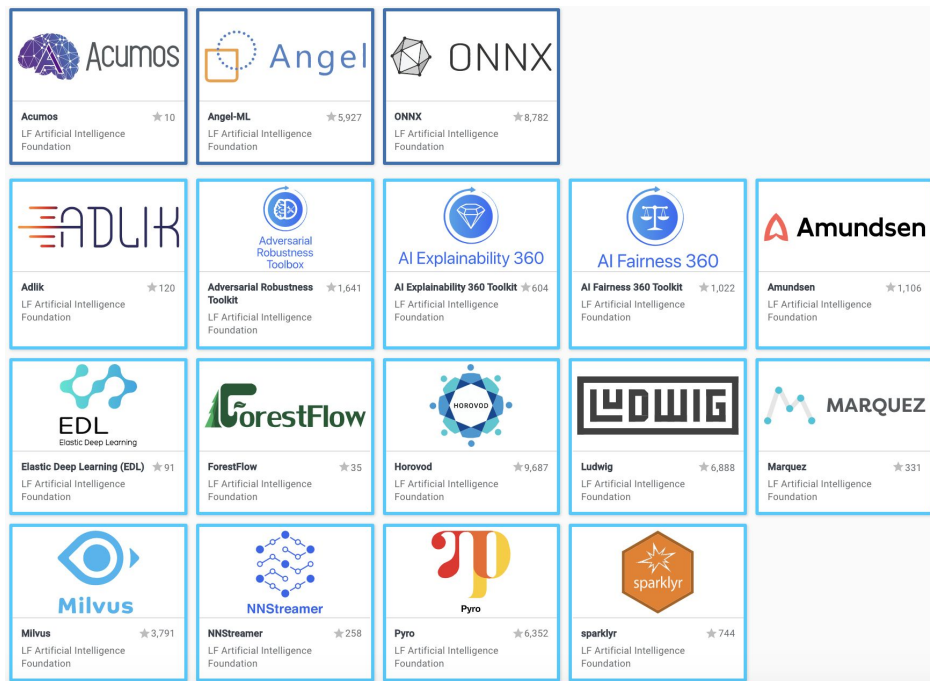


LF AI is an LF umbrella foundation founded in March 2018 to support collaboration and open source innovation in the AI, ML, and DL

LF AI Major Efforts



LF AI presence on the landscape: a growing community



- 17 projects
- 1200+ active developers
- 50+ known organizations
- 22+ universities

Stay Connected with LF AI

Social



[@LFAI_Foundation](https://twitter.com/LFAI_Foundation)



[LF AI Foundation](https://www.linkedin.com/company/lf-ai-foundation)

Mail Lists

- › [TAC](#) - Participate in technical governance and hear about LF AI projects
- › [Events](#) - Learn about upcoming events
- › [Announce](#) - Stay in the loop on top level Foundation announcements

Blog

- › Check the latest news on our [Blog](#)

Resources

Website	<u>https://lfai.foundation</u>
Hosted projects	<u>https://lfai.foundation/projects/</u>
Why host with LF AI	<u>https://lfai.foundation/projects/host/</u>
Email	<u>info@lfai.foundation</u>
Landscape	<u>https://l.lfai.foundation</u>
GitHub	<u>https://github.com/lfai</u>
Wiki	<u>https://wiki.lfai.foundation</u>
Mailing lists	<u>https://lists.lfai.foundation/groups</u>



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