

LF AI & Data

November 17, 2020

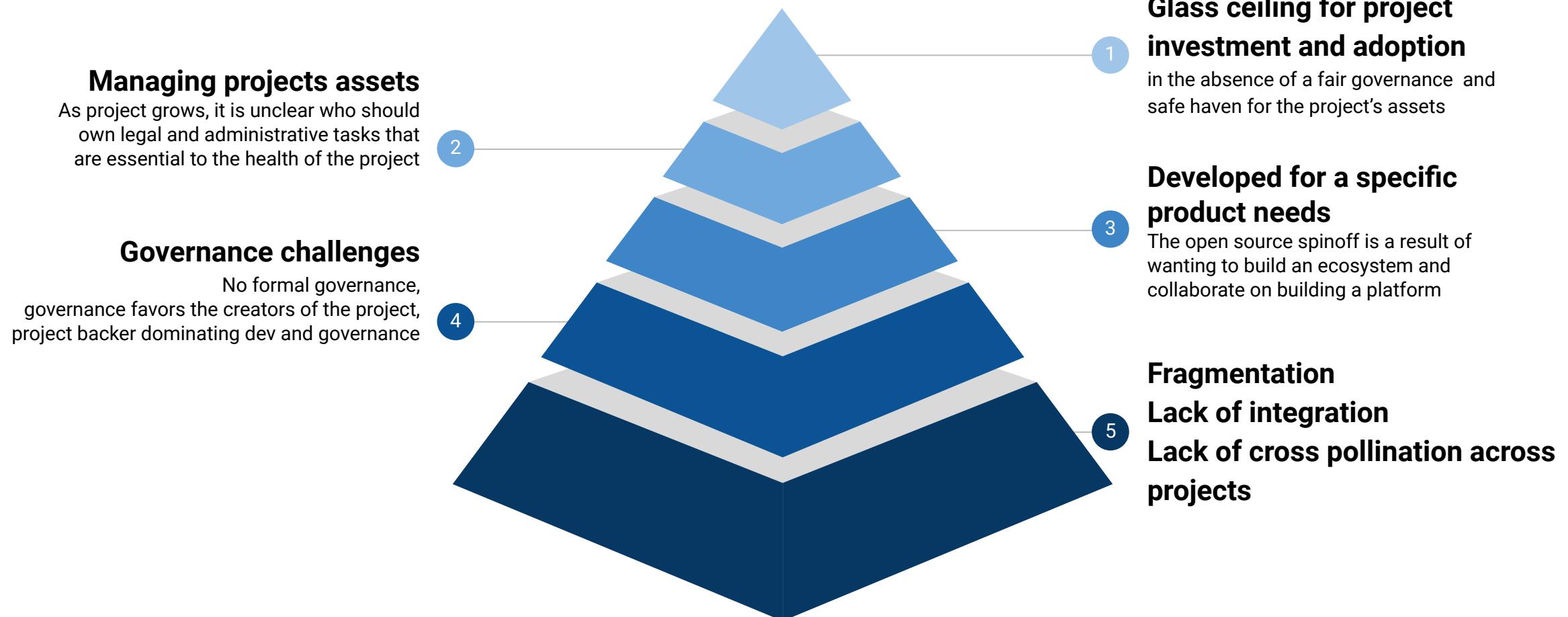
Ibrahim Haddad, Ph.D.
Executive Director, LF AI & Data
Ibrahim@LinuxFoundation.org



Ecosystem Overview

 DLF AI & DATA

Open Source AI & Data - Ecosystem Challenges



We all are aware of the advantages of open source ...

Access to
source code

Ability to
customize

Rapid
development

Peer review

Improved
quality and
security

Reduce dev
time and TTM

Flexible
licensing model

Community
driven
innovation

Influence
roadmap via
participation

Transparent
technical
discussions

But, Open Source offers *unique* benefits to AI & Data

Fairness

Methods to detect and mitigate bias in datasets and models, including bias against known protected populations

Robustness

Methods to detect alterations/tampering with datasets and models, including alterations from known adversarial attacks

Explainability

Methods to enhance understandability and interpretability by persona/roles in process of AI model outcomes/decision recommendations, incl ranking and debating results and decision options

Lineage

Methods to ensure provenance of datasets and AI models, including reproducibility of generated datasets and AI models

Open Data

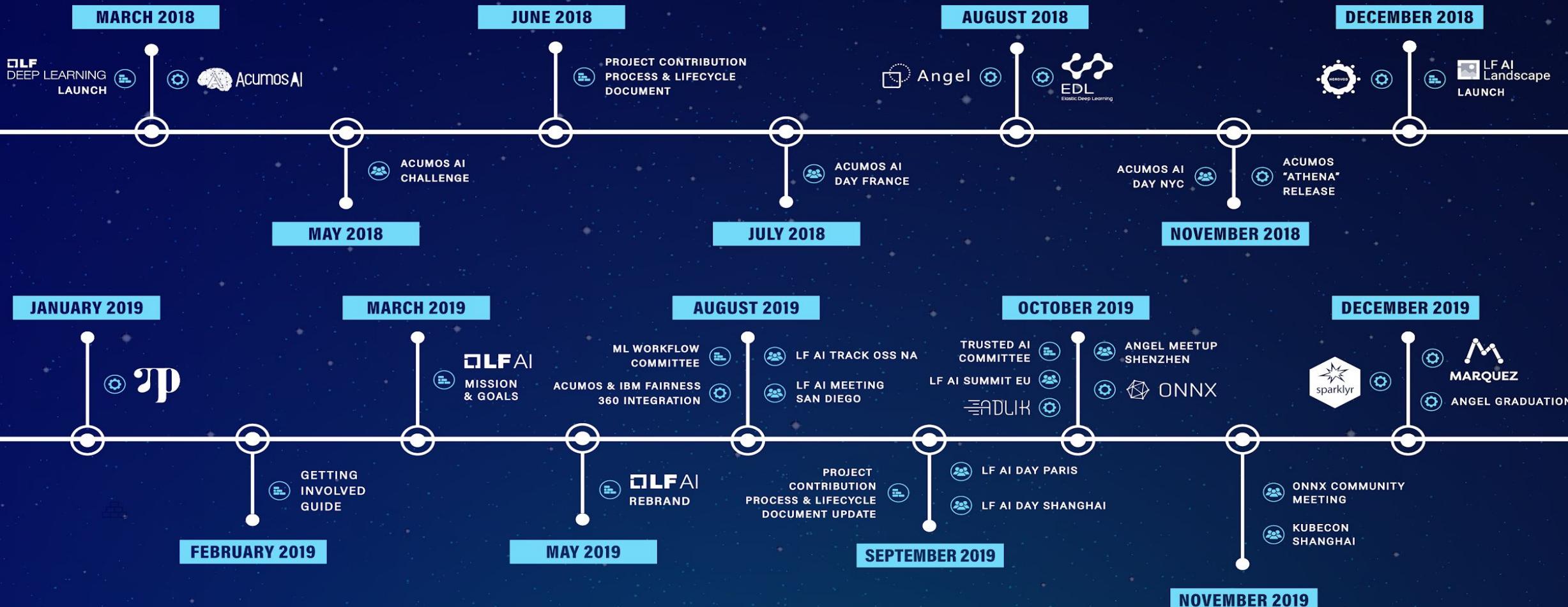
Methods to clean, sort, tagg and track provenance and a governance structure for doing these things

LF AI & DATA

LF AI & Data is an LF umbrella foundation that brings together the LF AI and ODPi communities to further support collaboration and the acceleration open source innovation in AI, ML, DL and Data.

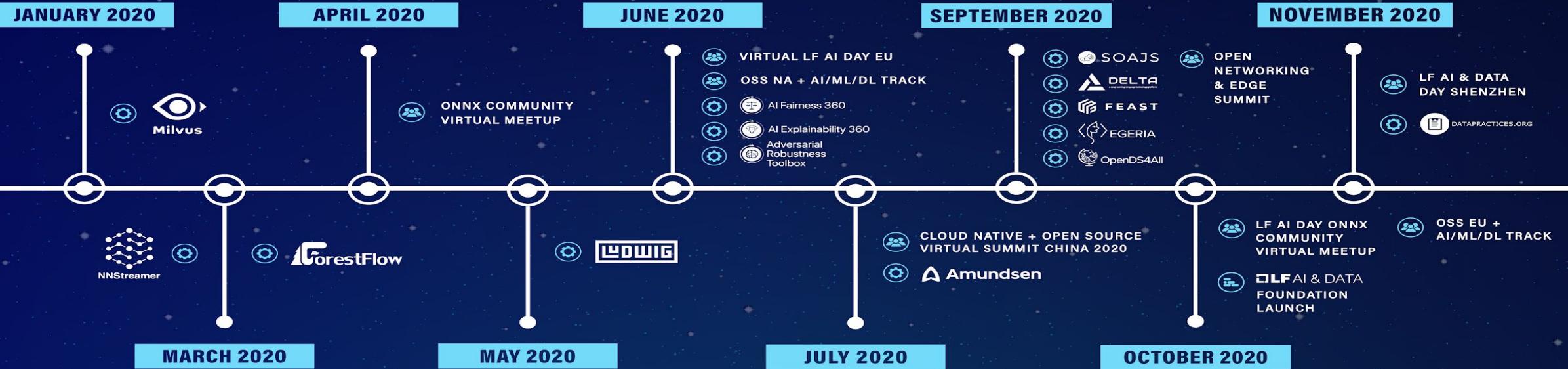


LF AI 2018 - 2019 Timeline



LF AI 2020 Timeline

LF AI & DATA TIMELINE 2020



LF AI and ODPI Combining Efforts in AI and Data

Combining efforts will:

- › Bring developers/data scientists and their projects under a single roof, served by a single Technical Advisory Council and several committees (Trusted AI, BI & AI, ML Workflow and InterOp), to work together towards building the open source AI & Data ecosystem and accelerating development and innovation.
- › Provide unified guidance for end users on tools, interoperability, integration, standards, and the future of AI, Data and Analytics as its use continues to grow in every industry.
- › Enables close collaboration, integration, and interoperability across projects - hosted within the same umbrella foundation - which is a proven, industry best practice recipe for building strong open ecosystems.
- › Allow greater efficiency for members across the various services we offer to hosted projects in the AI and Data domains.

LF AI Foundation and ODPI merge efforts for open-source developments in AI and open data

Latest News Published: October 26th, 2020 ~ Jakub Lewkowicz



LF AI & DATA

The LF AI Foundation and ODPI merged to support a growing portfolio of technologies and

{* ARTIFICIAL INTELLIGENCE *} Linux Foundation projects on AI and data merge – because one of these concepts simply can't exist without the other

Combined org hoping to attract more industry support

Mon 26 Oct 2020 // 15:17 UTC

GOT TIPS?

Tim Anderson BIO EMAIL TWITTER SHARE

LF AI Foundation and Open Data Platform Initiative (ODPI), until now two orgs under the Linux Foundation umbrella, are merging to become the LF AI and Data Foundation, a home for projects devoted to AI, machine learning (ML), data, and analytics.

The new foundation was unveiled at the [Open Source Summit Europe](#), which is of course

virtual only (though held in timezone friendly

Open Source Insider

Why ODPI & LF AI have come together

Adrian Bridgewater

Published: 26 October 2020 14:27



This is a guest post written by [John Mertic](#) in his role as ODPI program Director at [The Linux Foundation](#) – founded in 2000, the foundation is dedicated to building sustainable ecosystems around open source projects to accelerate development and adoption through financial and intellectual resources, infrastructure, services, events and training.

CONTENT CONTINUES BELOW

Menu hosted by TRUE

Home | Articles | News | Digital Innovation

Linux Foundation unites open source AI and big data

October 26, 2020 3:15 PM | Alfred Monterie

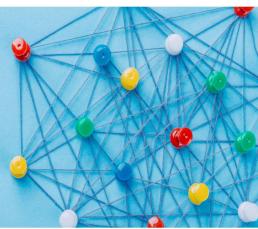
Digital Transformation



La Fondation Linux fusionne les projets IA et data dans une structure unique

Jacques Cheminat, publié le 27 Octobre 2020

Dans un souci de rationalisation, la Fondation Linux a décidé de réunir deux structures, la LF AI Foundation et l'Open Data Platform Initiative (ODPI) pour devenir la LF AI and Data Foundation. Cette dernière abritera des projets consacrés à l'IA, au machine learning, aux données et à l'analytique.



LF AI & Data Foundation to support open source AI, data & analytics

27 Oct 2020

Newsdesk

SHARE:

LinkedIn

Twitter

INSIGHTS FOR IT PROFESSIONALS

IT News > Software News > Open Source News

The LF AI & Data Foundation begins its journey

Monica Tilves ,October 26, 2020, 4:31 PM

OPEN SOURCE SOFTWARE



It will support a total of 22 projects as a result of the merger between the LF AI Foundation and ODPI.



Linux Foundation and ODPI establish LF AI & Data Foundation

From Ulrich Bantle - October 27, 2020

Offering an ecosystem for machine learning, artificial intelligence and deep learning based on free software is the task of the AI Foundation under the leadership of the Linux Foundation. Now the Open Data Platform initiative (ODPI), also under the leadership of the Linux Foundation, and the AI Foundation have merged to form the LF AI & Data Foundation.

As the Linux Foundation informs that portfolio of the two groups in terms of Artificial Intelligence (AI) and data continues to grow. Through the merger, one can devote more concentrated and focused attention to building an ecosystem. An important link in this chain is also the merger of the two communities. Artificial intelligence and data processing are inextricably linked, according to the foundation. The bundling of the two fields of competence under one roof and the control by a technical advisory board and committees on the individual aspects bring advantages.

In the course of the merger, the ODPI projects Egeria and OpenDS4All will be hosted by the new foundation. Business intelligence and AI have their own committees.

Du Big Data à l'IA : ODPI fusionne avec la fondation LF AI

ODPi fusionne avec la LF AI and Data Foundation pour réunir des projets IA, gestion de données, open data et BI au sein d'une seule structure. Une étape qui marque un changement d'ère et des priorités au sein des entreprises.

GéaTAN Raoul, LeMagIT

Publié le 26 oct. 2020

Après avoir accueilli les [kits d'outils IBM](#) consacrés à la transparence des algorithmes et le projet MLOps, nommé [MLflow](#), de Databricks, la LF AI and Data Foundation (anciennement nommée LF AI),

s'apprête à embarquer l'ensemble des projets inclus au sein d'ODPi. Sur le papier, les deux structures indépendantes embarquées au sein de la fondation Linux

LF AI, ODPI Merge To Form LF AI & Data Foundation

By MONIKA CHAUHAN | 14 hours ago

Email Article



LF AI Foundation and ODPI have announced plans to come together under the new [LF AI & Data Foundation](#). As one entity under the Linux Foundation, this consolidated and focused effort will enable additional collaboration and integration in the space of AI/ML/DL and Data. Les deux structures indépendantes embarquées au sein de la fondation Linux

By Jack M. Germain November 4, 2020 6:30 AM PT

Email Article

Tweet 14 Share 7 in Share 18

Share 39

LF AI & DATA

Lead Management: The Essential Foundation of B2B Growth in Any Economy. Now is the time to maximize what's possible

New AI & Data Foundation Combines Industry's Fastest-Growing Open Source Developments In AI And Open Data

MACHINE LEARNING DEEP LEARNING NEWS

By AIT News Desk On Oct 27, 2020



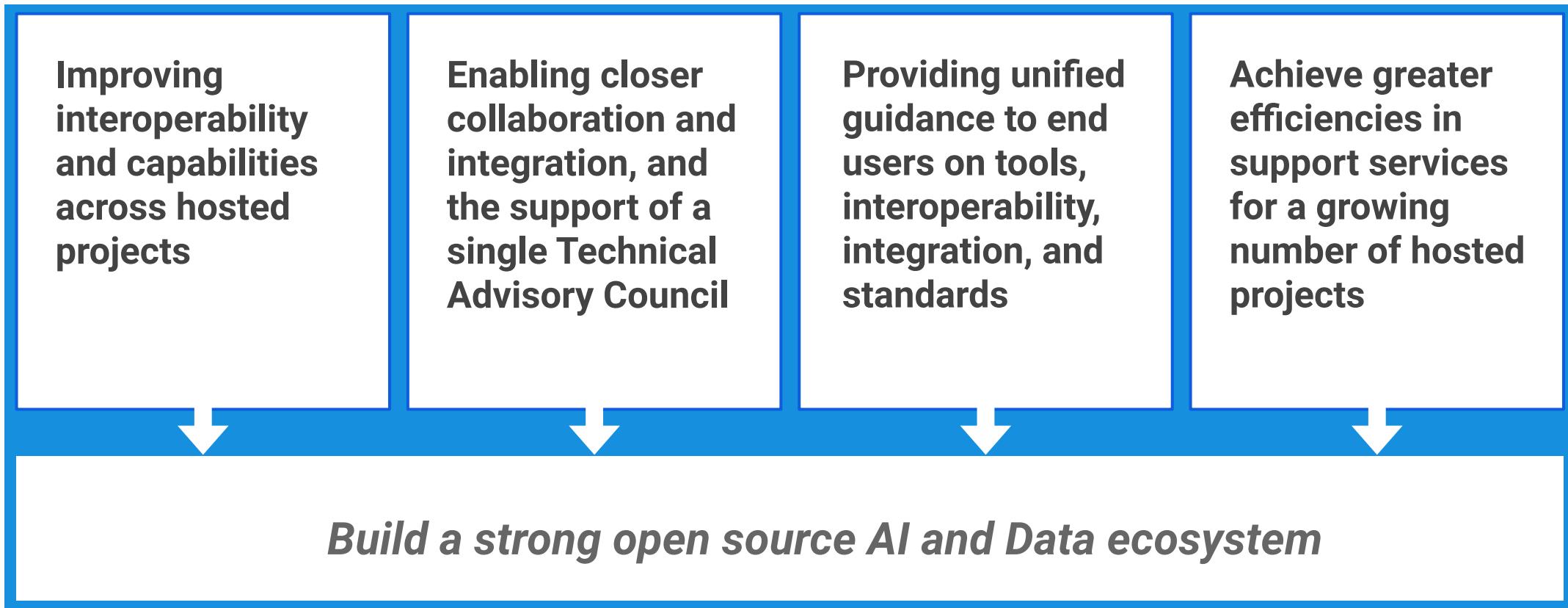
The Linux Foundation's AI Foundation & ODPI merge to support growing portfolio of technologies and drive open source collaboration across AI and data

LF AI Foundation (LF AI), the organization

Mission

To build and support an open community and a growing ecosystem of open source AI, data and analytics projects, by accelerating innovation, enabling collaboration and the creation of new opportunities for all the members of the community

Motivations for Harmonization



Structure and Governance

Foundation Governance

Funding effort to support hosted technical projects

Governing Board

Committees

Outreach

Legal

Strategy

Budget

Technical Coordination, New Initiatives

Technical Advisory Council

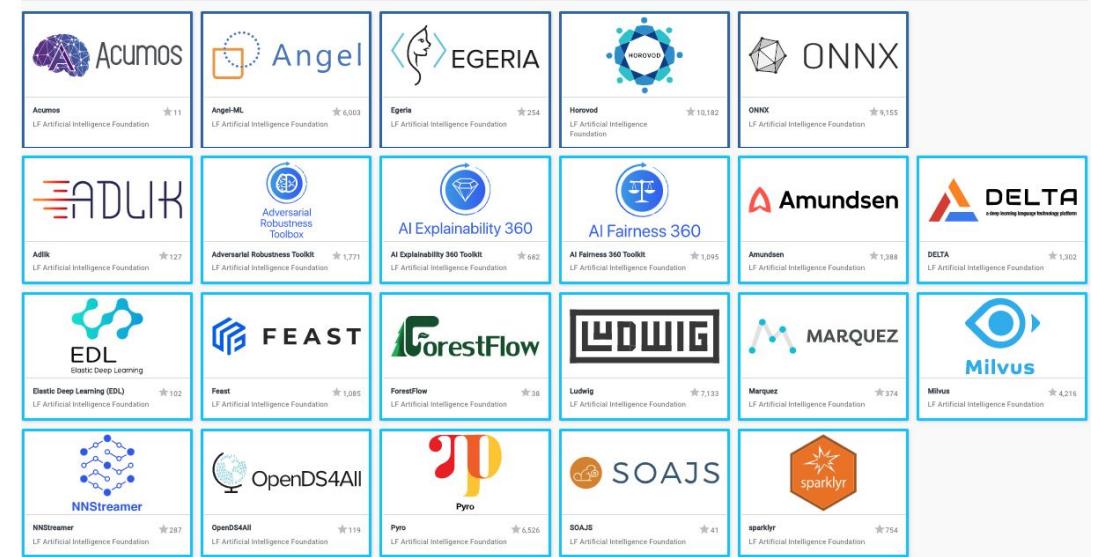
ML Workflow & Interop

Trusted AI

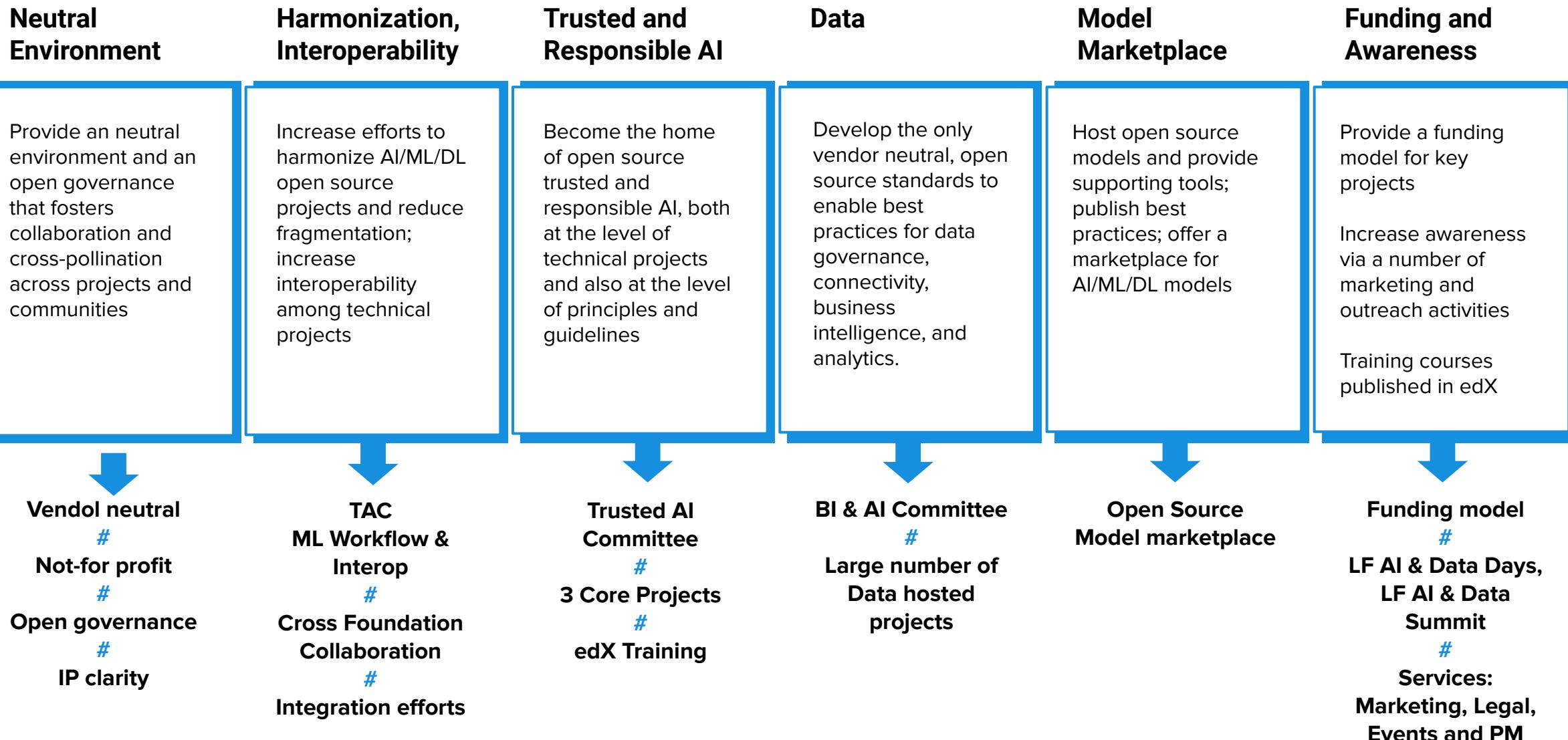
BI & AI

Hosted Projects

Projects have their own independent technical governance



Major Efforts



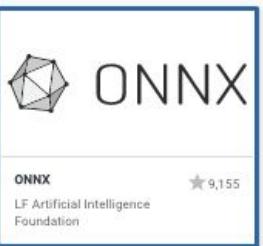
Members



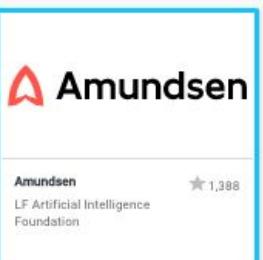
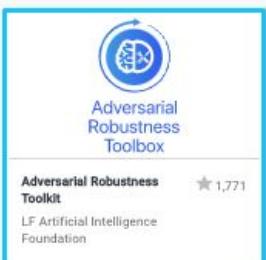
Projects

<https://landscape.lfai.foundation/format=card-mode&project=hosted>

Graduated LFAI Projects (5)



Incubating LFAI Projects (17)



What does it mean to be a Foundation project?

- › **A neutral home for the project** increases the willingness of developers from organizations to collaborate, contribute, and become committers
- › **Endorsement by members of the LF AI & Data Technical Advisory Committee** (TAC) is an independent signal of the quality of your project
- › **Open and neutral governance model**
- › **Program and project management services**
- › **Access to full-time staff** who are eager to assist your project
- › **Access to marketing and communications services** to support community and ecosystem engagement
- › **Access to a full range of events services** to help the project build and grow a community around it
- › **Legal support** ranging from hosting the trademark in a neutral organization to CLA and DCO system integration with GitHub, regular compliance scans, etc.
- › **Presence across multiple geographies** including China and Japan

Companies hosting projects in LF AI & Data

<https://landscape.lfai.foundation/format=hosting>



FACEBOOK

Herron Tech



Tech Mahindra

Tencent 腾讯

Uber

wework

ZILLIZ
Reinvent Data Science

ZTE

Why these top companies host with LF AI & Data?

The Linux Foundation is the leading commons for community assets

- The Linux Foundation (LF) is a recognized and respected brand and can activate communications across tech, business, and social media channels.
- The LF is the largest open source foundation, providing management of community assets for over 400 projects:
 - Over 3,400 source code repositories.
 - Over 700 trademark registrations and applications, plus hundreds of unregistered marks.
 - Over 700 project domains and DNS records.
 - Over 12,000 Contributor License Agreements signed for project communities that decide to require one.
- The LF offers neutral sponsorship for managing fundraising.
 - Over 1,600 unique member company relationships.
- Our communities raised over \$100 million in 2019 via 6,500+ invoices.
 - Our communities spent funds in 180,000+ separate transactions in 2019.
 - The LF reports its audited financials to its board.

Why incubate with us?

Building large, sustainable ecosystems requires collective resources



Events - We gathered over 45,000 attendees from over 12,000 organizations across 113 countries in 2019.



Legal - We manage IP for the world's most important tech and have one of the world's top open source legal teams in house.



Training - We trained millions of students (free and paid online), online skills certification, and on-site e-learning.



Certification - We designed and executed software and hardware testing and certification programs.



Developer Marketing - We have the largest share of voice of any open source foundation and a proven method to build large scale developer programs.



Developer Operations - We host the infrastructure that develops the world's largest software communities and provide release management, IT ops, and support.



Application Security - our projects are regularly audited and pen tested. We offer bug bounties, dependency analysis, and code scanning.

Strong LF AI & Data Marketing/PR Effort

37 announcements between LF AI and ODPI in 2019

27 announcements between LF AI and ODPI in 1H 2020

- › Events announcements and promotion
- › Project release
- › Project incubation
- › New members joining
- › Project cross collaboration
- › Invited posts

LF AI provides marketing services to support community and ecosystem engagement.

- › Content ranging from the LF AI blog, white papers, posters, presentations, and more
- › Oversee blog editorial calendars and writing, editing, and/or identifying and funding freelancers to develop content
- › Help develop the project website and other required creative work

Events and Community

- › **LF AI & Data Summit** - co-located event with major LF conferences + Booth
- › **LF AI & Data Track at Open Source Summit** (NA, EU, China) - Supporting 18-20 talks over 3 days + Booth
- › **LF AI & Data Days** - a whole day (in person and virtual) hosted in collaboration with an LF AI & Data member with audience ranging from 50-250. Multiple/year.
- › Talks at other leading industry events and regional events (All Things Open, Data Con LA, Big Data Conference Europe)
- › Project specific events
- › Sponsorship and booth at KubeCon
- › Strong presence & event participation in China



Incubating Projects

- › TAC committee is responsible to voting in new incubation projects.
- › The TAC meets bi-weekly and generally booked 4-6 weeks in advance.
- › [Proposing projects for incubation](#)

Joining LF AI & Data is Easy!



General Inquiries:

info@lfidata.foundation

 **LF** AI & DATA