



# Getting Involved Guide

For Current and Prospect Members

**lfai.foundation**

Last updated: 04/13/2020

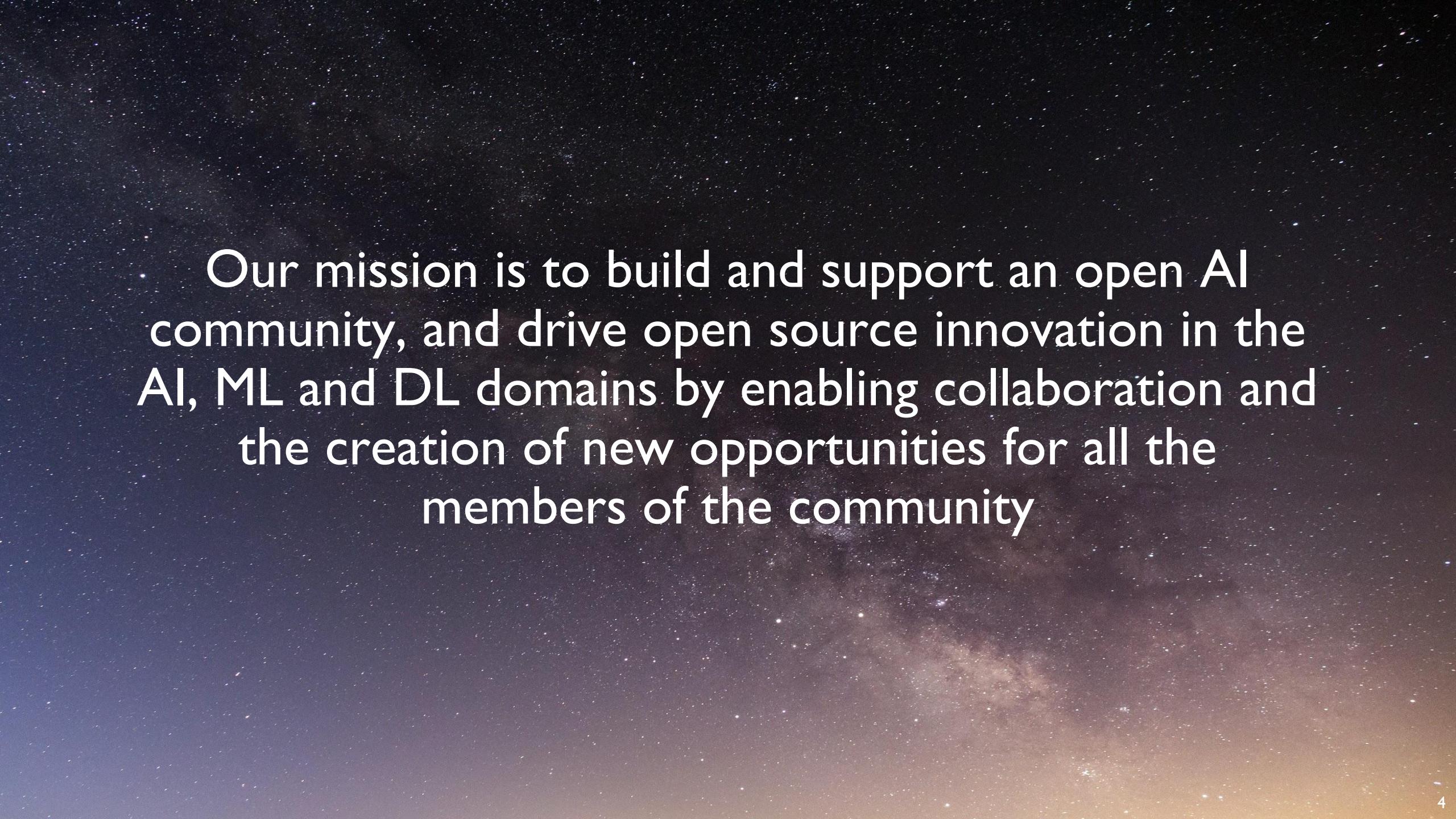
# Thank you!

Thank you for joining the LF AI Foundation. Your support is vitally important in sustaining the health and innovative momentum of open source AI and the LF AI projects.

We've written this guide to provide you a complete reference to the LF AI community. You will learn how to engage with your communities of interest, all the different ways you can contribute, and how to get help when you need it. If you have suggestions for enhancing this guide, please get in touch with LF AI staff.

We are creating a sustainable open source AI ecosystem that makes it easier to create AI products and services using machine learning and deep learning open source technologies.





Our mission is to build and support an open AI community, and drive open source innovation in the AI, ML and DL domains by enabling collaboration and the creation of new opportunities for all the members of the community

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# Organizational Overview



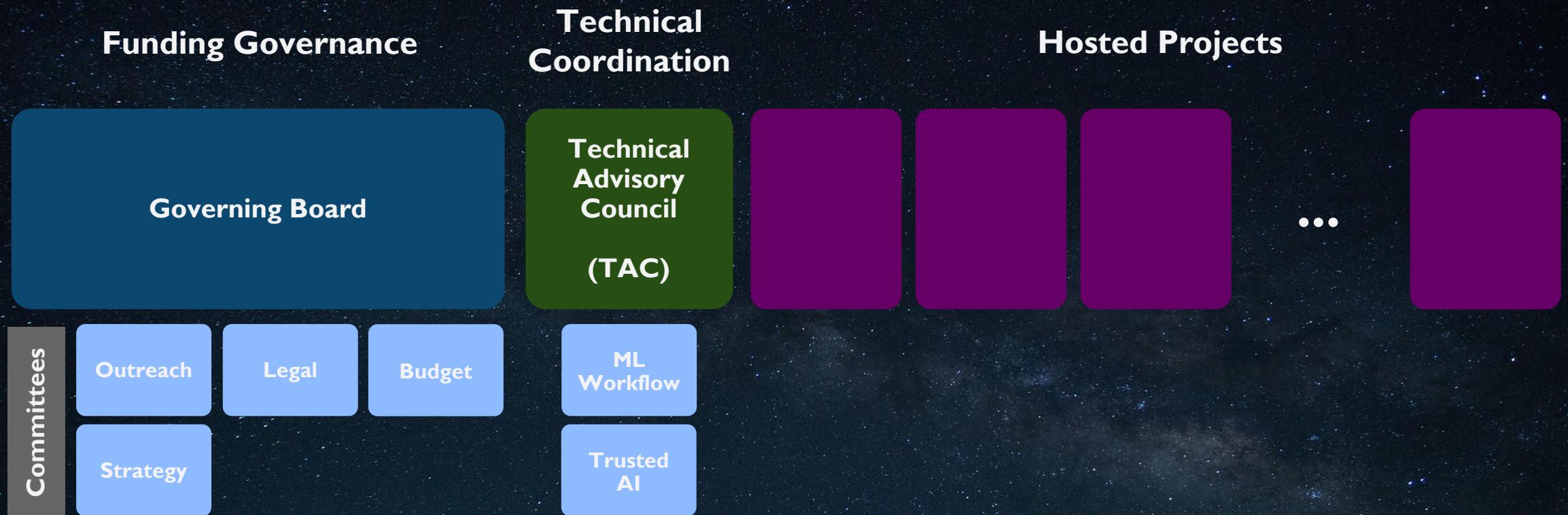
# Governance

LF AI is a single funding effort to support technical projects hosted under the Foundation.

Technical projects have their own technical governance following our principle of separation of technical governance from funding governance.

The Foundation's Charter is available from <https://lfai.foundation>.

# Structure



# Governing Board

- › **Composition:**

- › Appointees of Premier Members
- › Representative of General Members (elected annually)
- › TAC Chair (elected annually)

- › **Responsibilities include:**

- › Strategic direction and evolution of the LF AI Foundation
- › Funding the Foundation
- › Approving Graduate projects

- › Meets monthly over a conference call

# Technical Advisory Council (TAC)

- › Membership on the TAC is made up of Premier Member appointees and a representative of “Graduate” projects
- › The TAC serves a coordination role:
  - › Facilities communication across and among the supported technical projects; and
  - › Communicates needs and requirements of the projects to the Governing Board
  - › Onboards new projects, assists in progression of existing projects, and reviews projects annually
  - › Defines and maintains the technical vision for the LF AI Foundation
  - › Vote on approving new projects joining the LF AI as incubation or graduate projects
  - › Creates a conceptual architecture for the projects, aligning projects, removing or archiving projects
  - › Defines common practices to be implemented across LF AI projects
- › Meetings via conference calls take place every 2 weeks, are recorded and open to the general public
  - › <https://wiki.lfai.foundation/pages/viewpage.action?pageld=7733341>

# Outreach Committee

- › Composition:
  - › One appointed voting representative from each Premier Member
  - › Each General Member may appoint a non-voting representative to observe and participate in the Outreach Committee
- › Responsible for community outreach and marketing strategy for LF AI
- › Meetings happen monthly over a conference call
  - › <https://wiki.lfai.foundation/display/DL/Outreach+Committee>

# Budget Committee

- › Composition:
  - › Representatives of the Governing Board that volunteer to be named participants on the Budget Committee
- › The responsibilities of the Budget Committee include:
  - › Assisting the Treasurer in preparation of annual budgets that adhere to the principles and guidelines established by the Governing Board;
  - › Developing and reporting metrics for the allocation of budget in relation to meeting the priorities of the Governing Board;
  - › Reviewing the progress of the Directed Fund against the annual budget;
  - › Preparing forecasts for future financial needs of the Directed Fund; and such other matters related to finance and the financial operation of the Directed Fund as may be directed to the Budget Committee by the Governing Board

# Legal Committee

- › The Legal Committee consists of members of the Governing Board that wish to participate on the Legal Committee together with their company's legal counsel
- › Responsible for the creation of recommendations to the Governing Board in response to questions submitted to the Legal Committee by the Governing Board or the TAC

# LF AI Elected Leadership

## **Governing Board (GB)**

Chair: Mazin Gilbert, AT&T

## **Technical Advisory Council**

Chair: Ofer Hermoni, Amdocs

## **GB General Member Representative**

Francois Jezequel, Orange

## **Outreach Committee**

Chair: Jessica Kim, Huawei

## **Acumos Technical Steering Committee**

Chair: Anwar Aftab, AT&T

## **Budget Committee**

Treasurer: Jonne Soininen, Nokia

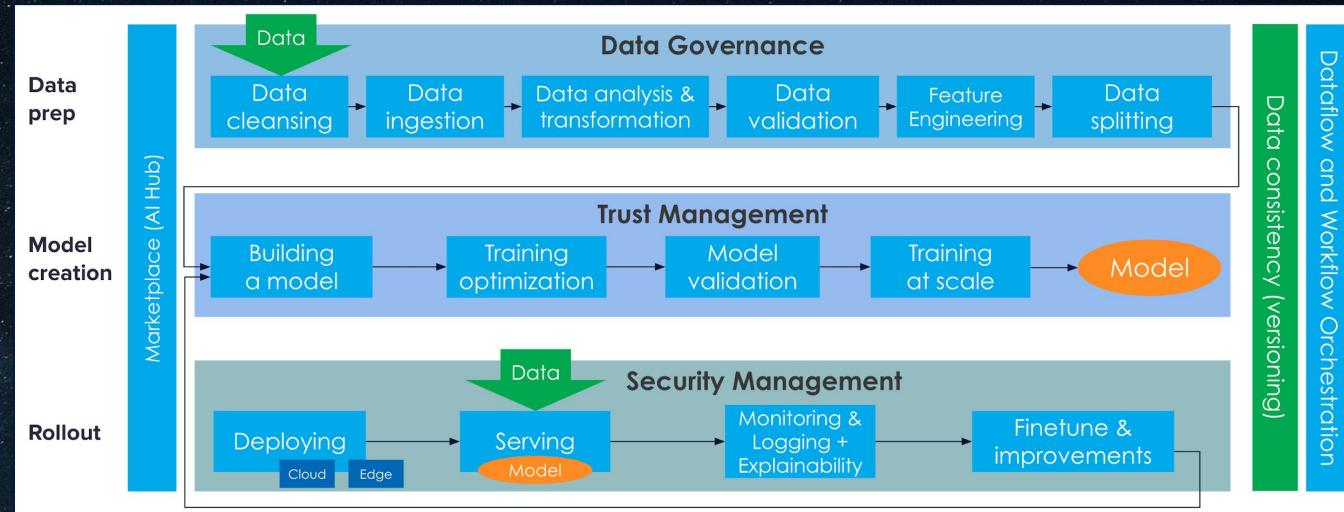
# ML Workflow Committee

## Participants

- › Amdocs
- › GOC
- › IBM
- › IFC
- › ITU
- › Orange
- › Seldon
- › Siomtics
- › SyLabs.io
- › TechM
- › Tencent
- › Verizon
- › WBG

## Scope

### 1. Provide a reference ML workflow architecture and implementation



### 2. Increase interoperability and integration across technical projects

Anyone can participate.

<https://wiki.lfai.foundation/display/DL/ML+Workflow+Committee>

# Trusted AI Committee

## Participants

- › Amdocs
- › ATT
- › Ericsson
- › ETL
- › Huawei
- › IBM
- › Orange
- › TechM
- › Tencent

**Open to members.**

## Scope

1. Define policies, guidelines, tooling and use cases by industry to create responsible and trusted AI
2. Create a badging process for open source projects that meet the Trusted AI policies/guidelines as defined by LF AI

## Two main efforts:

1. Principles Define ethics, guidelines and principles for Trusted AI
2. Use Cases: Define and implement trusted AI use cases within different AI projects and industry domains

<https://wiki.lfai.foundation/display/DL/Trusted+AI+Committee>

# Key Foundation Staff and Resources



# LF AI: Key Contacts and Resources

These contacts can answer any questions you may have about how to engage with any aspect of the Foundation, and will provide introductions to other community members and activities as you choose to get more deeply involved.

## Staff

Ibrahim Haddad, Executive Director

Jacqueline Serafin, Program Manager

Eric Ball, IT Release Engineering

## Resources

Web Site

<https://lfai.foundation>

Landscape

<https://landscape.lfai.foundation>

GitHub

<https://github.com/lfai>

Wiki

<https://wiki.lfai.foundation/>

Artwork

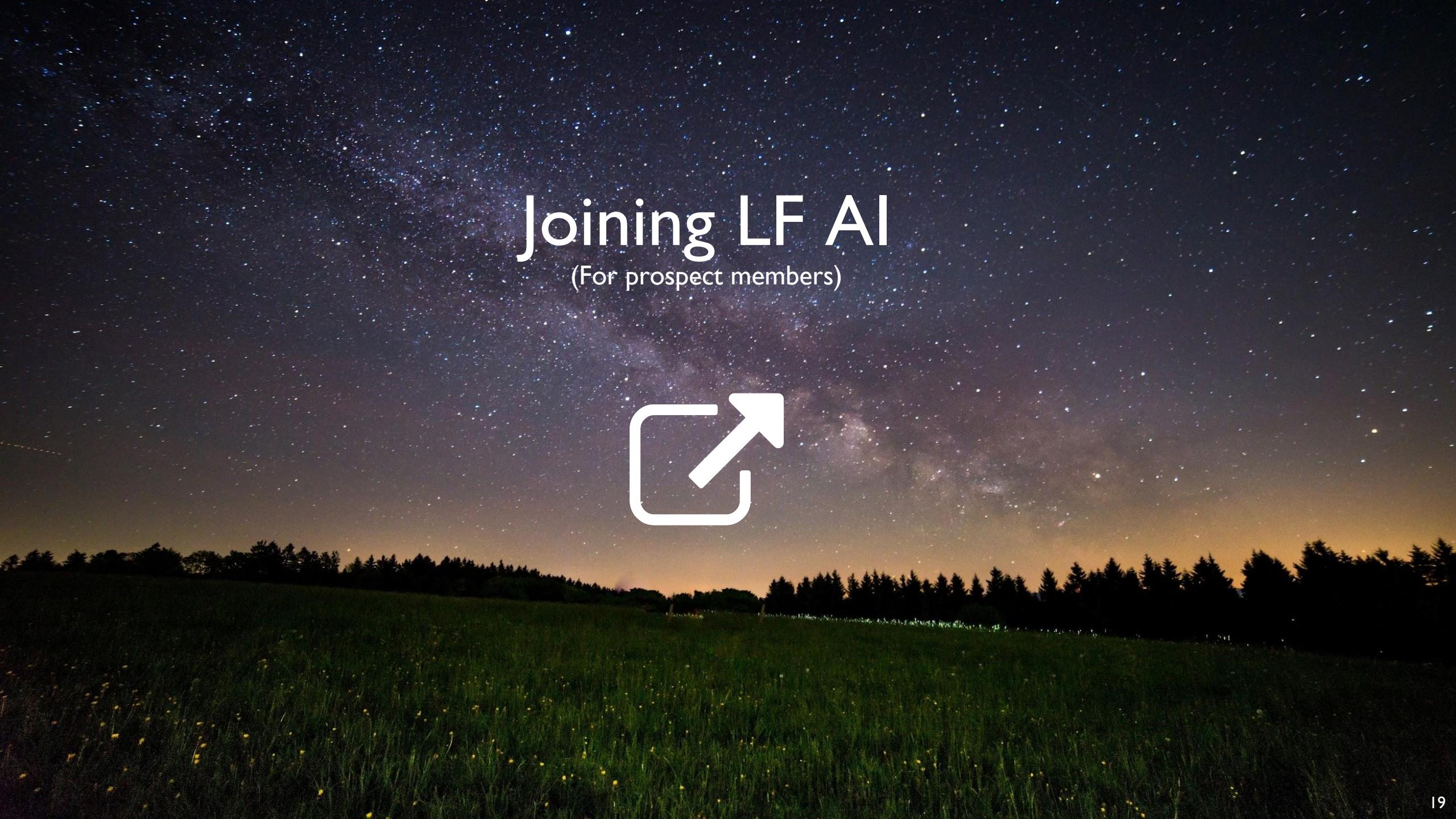
<https://github.com/lfai/artwork>

Email

[info@lfai.foundation](mailto:info@lfai.foundation)

Mail Lists

<https://lists.lfai.foundation/g/main>

The background of the slide is a photograph of a dark night sky filled with stars and the faint glow of the Milky Way. At the bottom, there is a silhouette of a forest line and a grassy field in the foreground.

# Joining LF AI

(For prospect members)



# Join the LF AI Foundation - Membership Benefits

Organizations join LF AI because they want to take an active role in supporting the growth and evolution of the open source AI, ML and DL ecosystem.

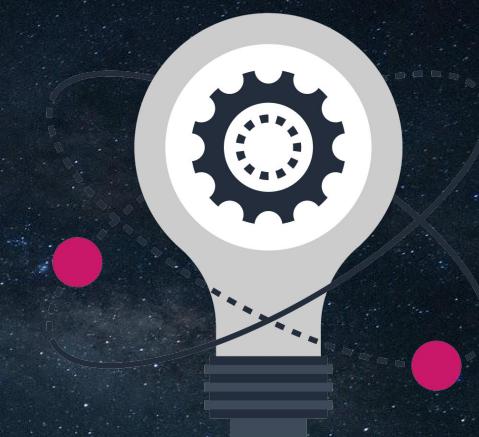
## LF AI Membership Provides:



Marketing Amplification  
and Brand Awareness



Community Engagement



Thought Leadership

# LF AI Foundation Annual Dues

	Not Yet a Linux Foundation Member	Existing Linux Foundation Member
Premier Member	\$120,000	\$100,000
General Member	5,000 employees +: \$45,000 2,000 - 4,999: \$30,000 500 - 1,999: \$25,000 Up to 499 employees: \$10,000	5,000 employees +: \$25,000 2,000 - 4,999: \$15,000 500 - 1,999: \$10,000 Up to 499 employees: \$5,000
Associate Member		Free

Limited to academic and nonprofit institutions respectively and requires approval by the Governing Board

# Premier Membership

Highest tier of membership – For organizations who contribute heavily to open source AI, ML and DL and bring in their own projects to be hosted at the Foundation. They work in concert with LF AI team members. These companies want to take the most active role in enabling open source AI, ML and DL.

## Premier members are eligible to:

(Enjoy all the benefits of General level, plus;)

- Appoint one representative to the LF AI Governing Board
- Appoint one representative as a voting member in any subcommittee or activities of the Governing Board
- Enjoy most prominent placement in displays of membership including website and marketing materials
- Increased access to Linux Foundation's invitation-only Open Source Leadership Summit
- Create an individualized press release upon membership announcement with the LF AI PR team
- Receive ongoing, individual engagement and guidance from LF AI Executive Director and staff

# General Membership

Targeted for organizations that want to put their organization in full view in support of LF AI and our mission. Organizations that join at the General level are committed to using open source technology, helping LF AI grow, voicing the opinions of their customers, and giving back to the community.

## General members are eligible to:

- Participate in elections to appoint one representative to the LF AI Governing Board per every ten General members, up to three maximum General representatives
- Receive greater insight into LF AI strategy and project roadmaps through increased engagement with the LF AI Executive Director and staff
- Create an individualized press release upon membership announcement with the LF AI PR team
- Participate in all Marketing, Community, Thought Leadership opportunities
- Demonstrate your support for LF AI by displaying your logo on the LF AI website and in marketing materials

# Associate Membership

Limited to academic and nonprofit institutions respectively and requires approval by the Governing Board

- › Academia
- › Not-for-profit
- › Government agencies
- › Standardization bodies
- › etc.

## Free membership

# LF AI Projects

## LF AI hosted projects

Please visit <https://lfai.foundation/projects/> for the most updated list of hosted projects.

# Acumos AI



## Brief Description:

Acumos is an Open Source Platform, which supports design, integration and deployment of AI models. Furthermore, Acumos supports an AI marketplace that empowers data scientists to publish adaptive AI models, while shielding them from the need to custom develop fully integrated solutions.

## Contributed by:

AT&T and Tech Mahindra in May 2018 as a Graduate Project

## Key Links:

Github

<https://github.com/acumos>

Web Site

<https://www.acumos.org/>

Wiki

<https://wiki.acumos.org/display/AC>

Artwork

<https://github.com/lfai/artwork/tree/master/acumos>

Acumos White Paper

<https://goo.gl/YZGwK9>

## Mail Lists

- > <https://lists.lfai.foundation/g/acumosai-announce>
- > <https://lists.lfai.foundation/g/acumosai-technical-discuss>
- > <https://lists.lfai.foundation/g/acumosai-tsc>

# Angel ML

## Brief Description:

Angel is a high-performance distributed machine learning platform based on the philosophy of Parameter Server. It is tuned for performance with big data from Tencent and has a wide range of applicability and stability, demonstrating increasing advantage in handling higher dimension model.

## Contributed by:

Tencent in August 2018 as an Incubation Project  
Angel graduated in December 2019



## Key Links:

Github

<https://github.com/Angel-ML/angel>

Wiki

<https://wiki.lfai.foundation/display/ANGEL/Angel+Home>

Artwork

<https://github.com/lfai/artwork/tree/master/angel>

Mail Lists

- > <https://lists.lfai.foundation/g/angel-announce>
- > <https://lists.lfai.foundation/g/angel-technical-discuss>
- > <https://lists.lfai.foundation/g/angel-tsc>

# Elastic Deep Learning



## Brief Description:

EDL optimizes the global utilization of the cluster running deep learning job and the waiting time of job submitters. It includes two parts: a Kubernetes controller for the elastic scheduling of distributed deep learning jobs, and a fault-tolerable deep learning framework.

## Contributed by:

Baidu in August 2018 as an Incubation Project

## Key Links:

Github

<https://github.com/PaddlePaddle/edl>

Web site

<http://www.paddlepaddle.org/>

Wiki

<https://wiki.lfai.foundation/display/EDL/EDL+Home>

Artwork

<https://github.com/lfai/artwork/tree/master/edl>

Mail Lists

- > <https://lists.lfai.foundation/g/edl-announce>
- > <https://lists.lfai.foundation/g/edl-technical-discuss>
- > <https://lists.lfai.foundation/g/edl-tsc>



# Horovod

## Brief Description:

Horovod, a distributed training framework for TensorFlow, Keras and PyTorch, improves speed, scale and resource allocation in machine learning training activities. Uber uses Horovod for self-driving vehicles, fraud detection, and trip forecasting. It is also being used by Alibaba, Amazon and NVIDIA. Contributors to the project outside Uber include Amazon, IBM, Intel and NVIDIA.

## Contributed by:

Uber in December 2018 an Incubation Project

## Key Links:

Github <https://github.com/horovod/>

Web site <https://horovod.ai>

Wiki <https://wiki.lfai.foundation/display/HOR/Horovod+Home>

Artwork <https://github.com/lfai/artwork/tree/master/horovod>

### Mail Lists

- > <https://lists.lfai.foundation/g/horovod-announce>
- > <https://lists.lfai.foundation/g/horovod-technical-discuss>
- > <https://lists.lfai.foundation/g/horovod-tsc>

# Pyro



## Brief Description:

Pyro is a universal probabilistic programming language (PPL) written in Python and supported by PyTorch on the backend. Pyro enables flexible and expressive deep probabilistic modeling, unifying the best of modern deep learning and Bayesian modeling.

## Contributed by:

Uber in January 2019 as an Incubation Project

## Key Links:

Github <https://github.com/pyro-ppl>

Web site <https://pyro.ai>

Wiki <https://wiki.lfai.foundation/display/PYRO/Pyro+Home>

Artwork <https://github.com/lfai/artwork/tree/master/pyro>

### Mail Lists

- > <https://lists.lfai.foundation/g/pyro-announce>
- > <https://lists.lfai.foundation/g/pyro-technical-discuss>
- > <https://lists.lfai.foundation/g/pyro-tsc>



### Brief Description:

Adlik is a toolkit for accelerating deep learning inference. The goal of Adlik is to accelerate deep learning inference process both on cloud and embedded environments. Adlik consists of two sub projects: model compiler and serving platform. Model compiler supports several optimizing technologies like pruning, quantization and structural compression to optimize models developed in major frameworks like Tensorflow, Keras, and Caffe, so that they can run with lower latency and higher computing efficiency. Serving platform provides deep learning models with optimized runtime based on the deployment environment such as CPU, GPU, and FPGA. Based on a deep learning model, the users of Adlik can optimize it with model compiler and then deploy it to a certain platform with serving platform.

### Contributed by:

ZTE in September 2019 as an Incubation Project

### Key Links:

Github

<https://github.com/Adlik/Adlik>

Web site

<https://adlik.ai>

Wiki

<https://wiki.lfai.foundation/display/ADLIK/Adlik+Home>

Artwork

<https://github.com/lfai/artwork/tree/master/adlik>

Mail Lists

- > <https://lists.lfai.foundation/g/adlik-announce>
- > <https://lists.lfai.foundation/g/adlik-technical-discuss>
- > <https://lists.lfai.foundation/g/adlik-tsc>



### Brief Description:

ONNX is an open format to represent deep learning models. With ONNX, AI developers can more easily move models between state-of-the-art tools and choose the combination that is best for them. ONNX is developed and supported by a community of partners. It is a community project created by Facebook and Microsoft. Many people are working on great tools, but developers are often locked in to one framework or ecosystem. ONNX is the first step in enabling more of these tools to work together by allowing them to share models. The goal of the project is to make it possible for developers to use the right combinations of tools for their project. We want everyone to be able to take AI from research to reality as quickly as possible without artificial friction from toolchains.

### Contributed by:

ONNX Community in October 2019 as a Graduate Project

### Key Links:

Github: <https://github.com/onnx>

Website: <https://onnx.ai>

Wiki: <https://wiki.lfai.foundation/display/ONNX/ONNX+Home>

Artwork: <https://github.com/lfai/artwork/tree/master/onnx>

### Mailing lists:

- > [onnx-announce](#)
- > [onnx-technical-discuss](#)
- > [onnx-tsc](#)



# sparklyr

## Brief Description:

sparklyr is an open-source and modern interface to scale data science and machine learning workflows using Apache Spark™, R, and a rich extension ecosystem.

It enables using Apache Spark with ease using R by providing access to core functionality like installing, connecting and managing Spark and using Spark's MLlib, Spark Structured Streaming and Spark Pipelines from R. Supports well-known R packages like dplyr, DBI and broom to reduce the cognitive overhead from having to re-learn libraries.

## Contributed by:

RStudio in December 2019 as an Incubation Project

## Key Links:

Github:

<https://github.com/sparklyr/sparklyr>

Website:

<https://sparklyr.ai/>

Wiki:

<https://wiki.lfai.foundation/display/SPAR/Sparklyr+Home>

Artwork:

<https://github.com/lfai/artwork/tree/master/sparklyr>

Mailing lists:

- › [sparklyr-announce](mailto:sparklyr-announce@googlegroups.com)
- › [sparklyr-technical-discuss](mailto:sparklyr-technical-discuss@googlegroups.com)
- › [sparklyr-tsc](mailto:sparklyr-tsc@googlegroups.com)

# Marquez

## Brief Description:

Marquez is an open source metadata service for the collection, aggregation, and visualization of a data ecosystem's metadata. It maintains the provenance of how datasets are consumed and produced, provides global visibility into job runtime and frequency of dataset access, centralization of dataset lifecycle management, and much more.

## Contributed by:

WeWork in December 2019 as an Incubation Project



## Key Links:

Github:

<https://github.com/MarquezProject/marquez>

Website:

<https://marquezproject.ai>

Wiki:

<https://wiki.lfai.foundation/display/MAR/Marquez+Home>

Artwork:

<https://github.com/lfai/artwork/tree/master/marquez>

Mailing lists:

- › [marquez-announce](mailto:marquez-announce)
- › [marquez-technical-discuss](mailto:marquez-technical-discuss)
- › [marquez-tsc](mailto:marquez-tsc)

# Milvus



## Brief Description:

Milvus is an open source similarity search engine for massive-scale feature vectors. Built with heterogeneous computing architecture for the best cost efficiency. Searches over billion-scale vectors take only milliseconds with minimum computing resources. Milvus can be used in a wide variety of scenarios to boost AI development.

## Contributed by:

ZILLIZ in January 2020 as an Incubation Project

## Key Links:

Github:

<https://github.com/milvus-io/milvus>

Website:

<https://milvus.io/>

Wiki:

<https://wiki.lfai.foundation/display/MIL/Milvus+Home>

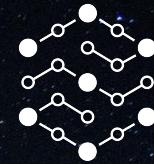
Artwork:

<https://github.com/lfai/artwork/tree/master/milvus>

Mailing lists:

- › [milvus-announce](#)
- › [milvus-technical-discuss](#)
- › [milvus-tsc](#)

# NNStreamer



NNStreamer

## Brief Description:

NNStreamer is a set of Gstreamer plugins that allow Gstreamer developers to adopt neural network models easily and efficiently and neural network developers to manage neural network pipelines and their filters easily and efficiently.

## Contributed by:

Samsung in March 2020 as an Incubation Project

## Key Links:

Github: <https://github.com/nnstreamer/nnstreamer>

Wiki:

<https://wiki.lfai.foundation/display/NNSTREAM/NNStreamer+Home>

Artwork:

<https://github.com/lfai/artwork/tree/master/nnstreamer>

Mailing lists:

- <https://lists.lfai.foundation/g/nnstreamer-announce>
- <https://lists.lfai.foundation/g/nnstreamer-technical-discuss>
- <https://lists.lfai.foundation/g/nnstreamer-tsc>

# ForestFlow



## Brief Description:

ForestFlow is a scalable policy-based cloud-native machine learning model server. ForestFlow strives to strike a balance between the flexibility it offers data scientists and the adoption of standards while reducing friction between Data Science, Engineering and Operations teams.

## Contributed by:

ZILLIZ in March 2020 as an Incubation Project

## Key Links:

Github: <https://github.com/ForestFlow/ForestFlow>

Website: [forestflow.ai](http://forestflow.ai)

Wiki:

<https://wiki.lfai.foundation/display/FOR/ForestFlow+Home>

Artwork:

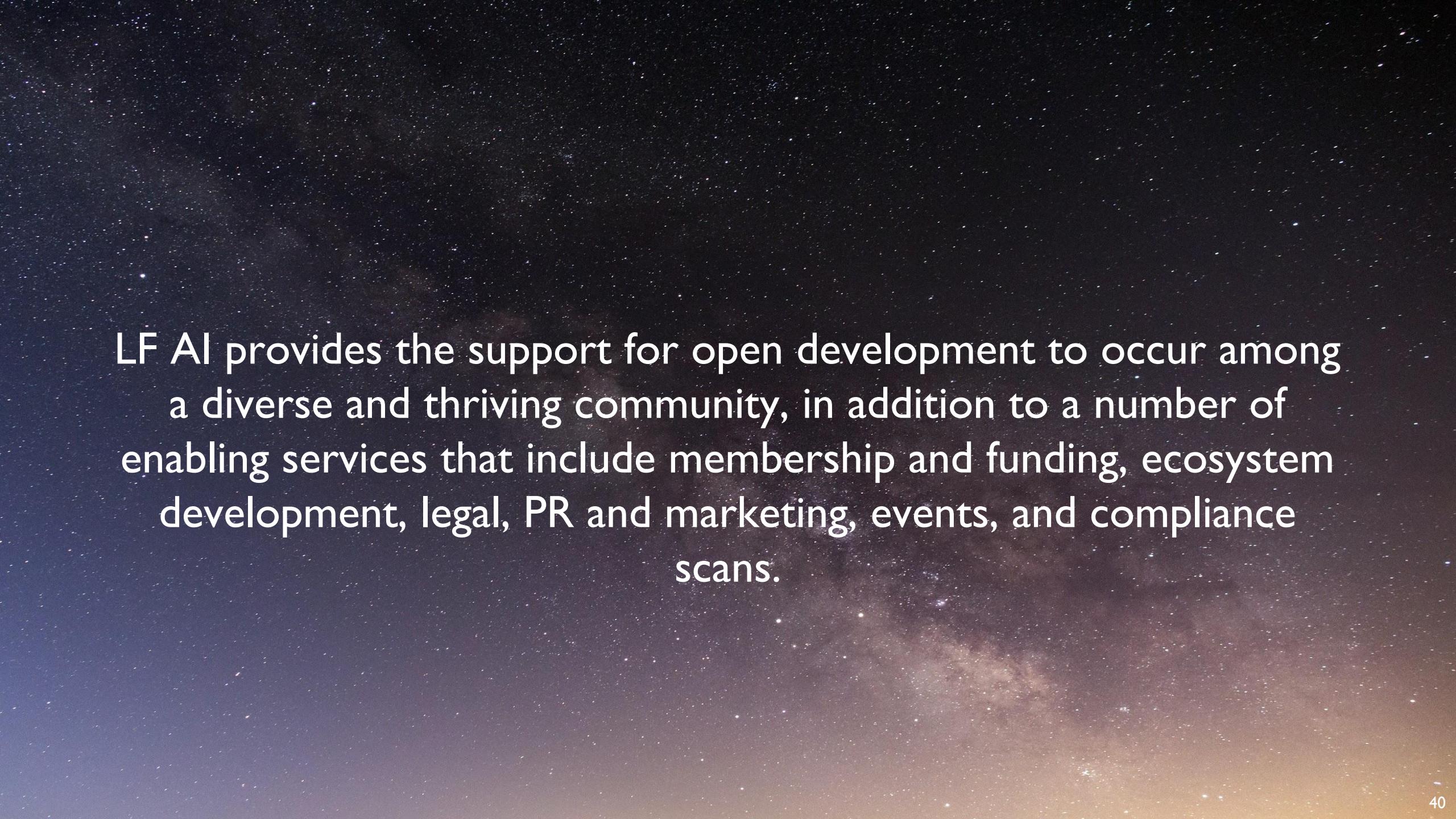
<https://github.com/ForestFlow/artwork>

Mailing lists:

- › <https://lists.lfai.foundation/g/forestflow-announce>
- › <https://lists.lfai.foundation/g/forestflow-technical-discuss>
- › <https://lists.lfai.foundation/g/forestflow-tsc>

# Hosting Projects under the LF AI



The background of the slide features a dark, star-filled space scene, possibly a galaxy or a nebula, with a central bright area and a gradient of colors from blue to orange at the bottom.

LF AI provides the support for open development to occur among a diverse and thriving community, in addition to a number of enabling services that include membership and funding, ecosystem development, legal, PR and marketing, events, and compliance scans.

# Host Your Project in LF AI

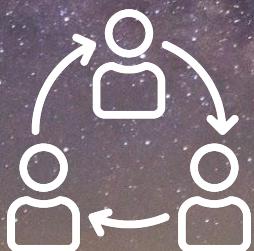
- › The process to host projects under LF AI is simple and includes:
  - › Presenting the project to the LF AI Technical Advisory Council (TAC)
  - › Providing a proposal on hosting the project under LF AI  
(via Github: <https://github.com/lfai/proposing-projects/tree/master/proposals>)
  - › For “Incubation” project: A vote by the Technical Advisory Council
  - › For “Graduation” project: A vote by the Technical Advisory Council and Governing Board
  - › Signing the trademark and project account transfer agreement
  - › Working with LF AI staff on integrating the project with the LF AI Foundation
- › Detailed description of the process:  
<https://lfai.foundation/proposal-and-hosting-process/>
- › Detailed requirements for hosting projects under the LF AI:  
<https://github.com/lfai/proposing-projects>

# Creating sustainable open source projects requires hard work

- |                                 |  |   |                                    |
|---------------------------------|--|---|------------------------------------|
| <b>01</b> Governance Structure  | <b>02</b> Membership Management            | <b>03</b> IP Management                         | <b>04</b> Hosting Infrastructure   |
| <b>05</b> Ecosystem Development | <b>06</b> Critical Mass at Launch          | <b>07</b> Marketing Platform                    | <b>08</b> Awareness and Reach      |
| <b>09</b> Project Guidance      | <b>10</b> Events Support                   | <b>11</b> Trademark Support                     | <b>12</b> Independent Neutral Home |
| <b>13</b> Funding Model         | <b>14</b> Compliance Scans                 | <b>15</b> CLA Management                        | <b>16</b> Creative Services        |
| <b>17</b> Dedicated Staff       | <b>18</b> Validation from a trusted source | <b>19</b> Collaboration opp with other projects |                                    |

## Our Value Proposition to Projects

# Getting Involved



# Ways to Get Involved with LF AI Projects

- Participate in the development: Review and submit patches, report bugs, request features, test, etc.
- Contribute to project documentation
- Join the projects' mailing lists and participate in the discussions
- Attend developer events for LF AI projects
- Provide your testing and deployment feedback via appropriate project channel
- Start a local User Group Meetup

# Ways to Get Involved with LF AI Marketing & Outreach

Promotion of project updates,  
 releases, and news via LF AI social media accounts

Attend Outreach Committee  
 meetings and participate in ongoing activities

Publish use cases, case studies,  
 white papers, and deployment insights

Marketing and PR support for demos at meetups and events

Host vendor neutral content via LF AI blog site

Get support for artwork, web site, content creation, etc., for LF AI projects

Contribute to the LF AI landscape, promote in talks

Coordination at events, speaking  
 proposals, booth attendance, demos, etc.

Volunteer to host an LF AI Day and Project developer events

Identify speaking opportunities  
 and help secure speakers from the LF AI community

Help secure user stories about LF AI based deployments

Support LF AI marketing and PR staff

# Ways to Get Involved with the TAC

Support TAC leadership in inviting speakers

Share success stories, opportunities and challenges with the broader technical community

Support technical leadership for harmonization efforts with other open source projects

Support TAC in evaluating new projects for inclusion in LF AI; recommend new projects

Attend TAC Bi-weekly calls, participate in the discussion, volunteer

Identify opportunities for collaboration on common interests and initiatives, seek input from peers

Support TAC in hosting and sponsoring intra-project and inter-project developer events

Support TAC Chair working with the GB to highlight opportunities and needed resource

# Ways to Get Involved with the Trusted AI Committee

Join the committee as a representative of your company

Contribute to the LF AI landscape, promote in talks

Host your Ethics related projects in the LF AI Foundation

Join the Trusted AI bi-weekly conference calls and contribute to ongoing efforts

Coordination at events, speaking proposals, booth attendance, demos, etc.

Help secure user stories about LF AI based deployments

Promote the work of the Trusted AI committee, invite your collaborators to participate

Subscribe to the mailing list and participate in discussions

Invite prominent researchers and developers in the space to speak to the LF AI community

# Members - Display Your LF AI Membership Badge

- › As an LF AI member, we encourage you to download your membership badge to display on your website and collateral, as well as in trade show booths
- › These badges are available (svg and png) from the LF AI artwork GitHub repo:  
<https://github.com/lfai/artwork/tree/master/lfai-membership-badge>



# Project - Display Your LF AI Association

- › As an LF AI hosted project, we encourage you to download your association badge to display on your website and collateral, as well as in trade show booths
- › These badges are available (svg and png) from the LF AI artwork GitHub repo:  
<https://github.com/lfai/artwork/tree/master/lfai-project-badge>





# LF AI Landscape

<https://landscape.lfai.foundation/>





# Getting Involved Guide

For Current and Prospect Members

Web site:

<https://lfai.foundation>

Email:

[info@lfai.foundation](mailto:info@lfai.foundation)

Twitter:

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

Landscape:

<http://l.lfai.foundation>

GitHub:

<https://github.com/lfai>

Mail Lists:

<https://lists.lfai.foundation/g/main>