OPEN SOURCE AI DEFINITION

Online public townhall

July 26, 2024

last updated: July 26, 2024 (NV)

Community agreements

- **One Mic, One Speaker** -- Please allow one person to speak at a time.
- **Take Space, Make Space** -- If you tend to talk more, we invite you to make space for others to share. If you tend not to share, we invite you to speak up.
- **Kindness** -- This work is hard, but we don't have to be. Gentleness and curiosity help. Those who use insults or hate speech will need to leave the meeting.
- **Forward Motion** -- We advance by focusing on what is possible in the moment and doing it. Obstacles are marked for later discussion, not used to stop the process. If we hit a boulder, we note it on the map and keep walking. We'll come back and unearth it later on.
- **Solution-Seeking** -- This work is so complex that focusing on what won't work will stop it. Suggesting new ideas, options, and proposals is vulnerable, but crucial. All of us are needed to make this work.
- **Anything else?**

OSI's objective for 2024

Open Source AI Definition

Open Source AI Definition

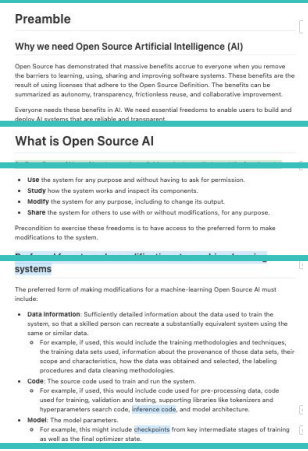
Current Version

OSAID v.0.0.8

Open Source AI Definition

v.0.0.8

Preamble



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Why we need Open Source Artificial Intelligence (AI)

Open Source has demonstrated that massive benefits accrue to everyone when you remove the barriers to learning, using, sharing and improving software systems. These benefits are the result of using licenses that adhere to the Open Source Definition. The benefits can be summarized as autonomy, transparency, frictionless reuse, and collaborative improvement.

Everyone needs these benefits in AI. We need essential freedoms to enable users to build and deploy AI systems that are reliable and transparent.

What is Open Source AI

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systems

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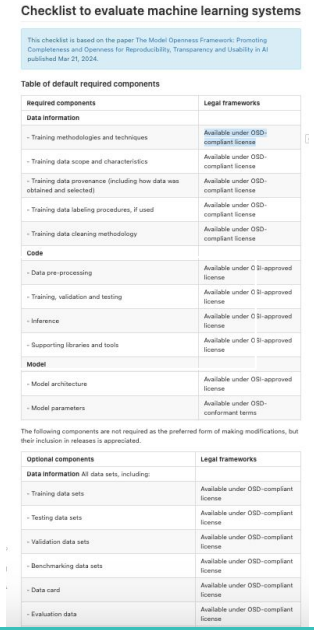
4 Freedoms

Legal Checklist



Checklist to evaluate machine learning systems

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Open Source AI Definition

What We’re Working On

OSAID v.0.0.9

Open Source AI Definition **Preamble**

v.0.0.9 plans

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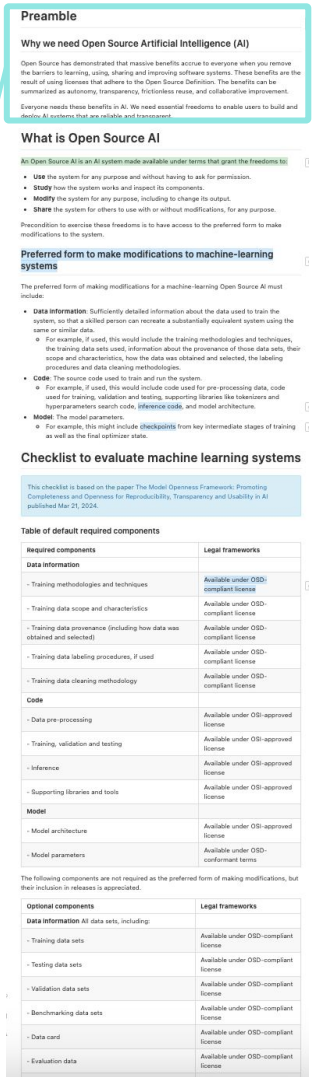

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Clarifying that the **recipients** of the freedoms are developers, deployers and end-users

Open Source AI Definition **Four Freedoms**

v.0.0.9 plans

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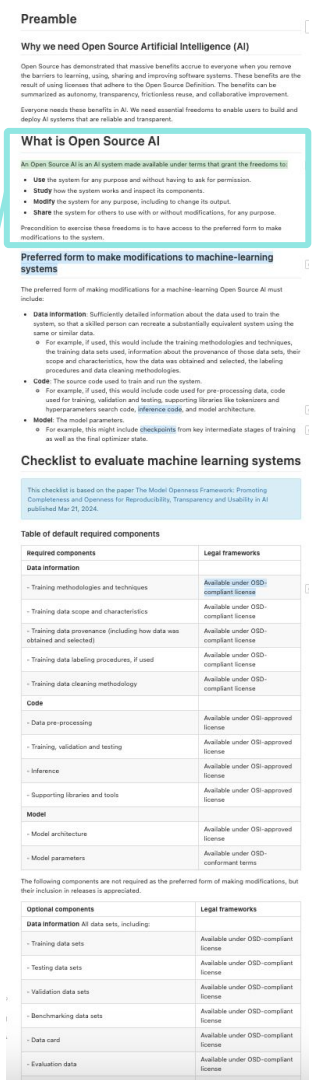

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Clarifying that the four freedoms of open source AI are derived from the **Free Software Definition**

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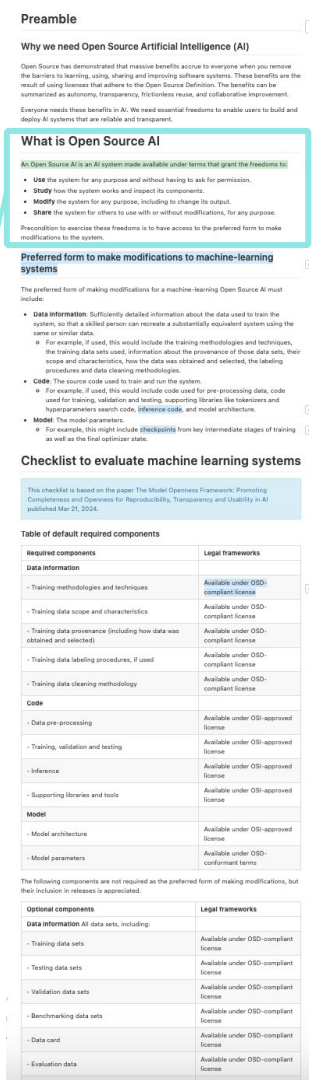

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Underlining that components and systems must be free from encumbrances that prevent any developer, deployer, or users from **exercising** those freedoms.

Open Source AI Definition **Preferred Form**

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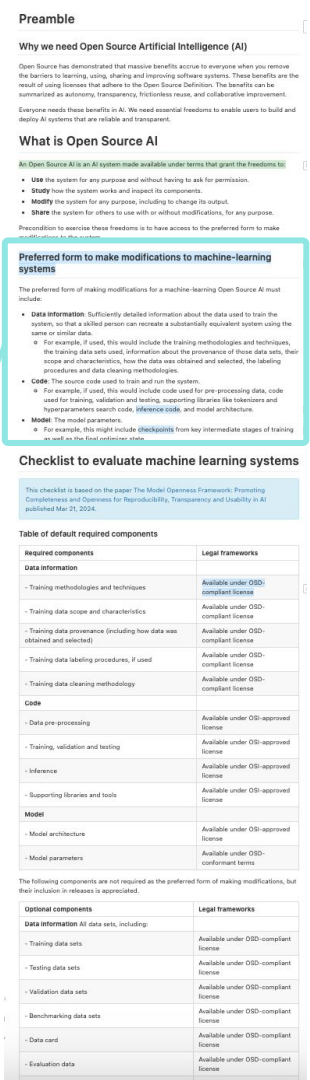
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Adding definitions of…

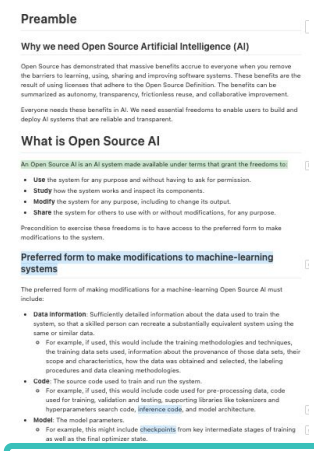
… the “OSD **compliant**” requirement for data information...

…and the “OSD **conformant**” requirement for model parameters

..so legal requirements are clear for each component

Open Source AI Definition **Checklist**

v.0.0.9 plans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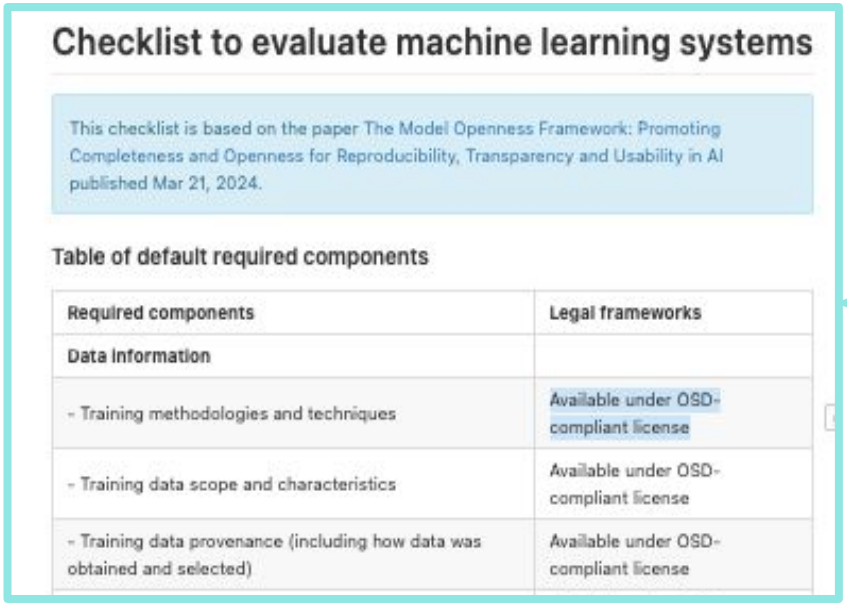
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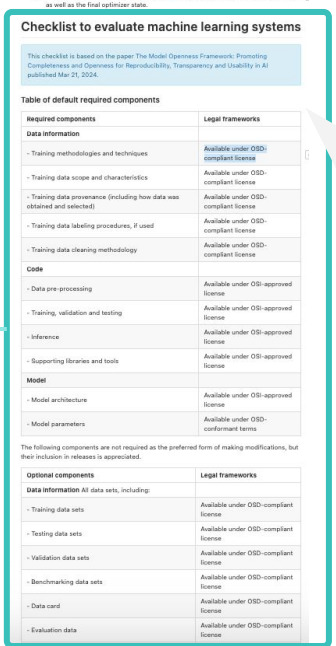
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Checklist will be a **separate** document and process and its components will be updated to follow the **Model Openness Framework** (MOF) precisely.

Open Source AI Definition

System Validation

OSAID v.0.0.8 (and soon v. 0.0.9)

Validation Reviewers

We were interested in reviewing about 10 AI systems self-described as open to validate the definition.

1. Arctic

1. **Jesús M. Gonzalez-Barahona** Universidad Rey Juan Carlos

2. BLOOM

2. **Danish Contractor** BLOOM Model Gov. Work Group
3. **Jaan Li** University of Tartu, One Fact Foundation

3. Falcon

1. **Casey Valk** Nutanix
2. **Jean-Pierre Lorre** LINAGORA, OpenLLM-France

4. Grok

1. **Victor Lu** independent database consultant
2. **Karsten Wade** Open Community Architects

5. Llama 2

1. **Davide Testuggine** Meta
2. **Jonathan Torres** Meta
3. **Stefano Zacchiroli** Polytechnic Institute of Paris
4. **Victor Lu** independent database consultant

9. LLM360

5. **[Team member TBD]** LLM360

We will need an independent reviewer for LLM360

8. Mistral

1. **Mark Collier** OpenInfra Foundation
2. **Jean-Pierre Lorre** LINAGORA, OpenLLM-France
3. **Cailean Osborne** University of Oxford, Linux Foundation

7. OLMo

4. **Amanda Casari** Google
5. **Abdoulaye Diack** Google

8. OpenCV*

1. **Rasim Sen** Oasis Software Technology Ltd.

9. Phi-2

6. **Seo-Young Isabelle Hwang** Samsung

10. Pythia*

1. **Seo-Young Isabelle Hwang** Samsung
2. **Stella Biderman** EleutherAI
3. **Hailey Schoelkopf** EleutherAI
4. **Aviya Skowron** EleutherAI

11. T5

5. **Jaan Li** University of Tartu, One Fact Foundation

Viking

6. **Merlijn Sebrechts** Ghent University

Validation Updates

Thanks to **Arctic** and **LLM360** for helping identify documentation!

AI System	Meets OSAID requirements?	Notes
Name of system with link to its review sheet	Based on OSAID v. 0.0.8 and/or v.0.0.6	Summary explanation of status (as of 6/11/24)
Arctic	Expect Yes	Verbal confirmation from Snowflake, which is adding legal documents to review sheet (6/3/24)
BLOOM	Confirmed No (license fails)	Usage restrictions in RAIL license
Falcon	Expect No	Documents on training methodologies and techniques and training, validation and testing are missing
Grok	Expect No	Very little public information on system
Llama 2	Confirmed No	Data pre-processing + training, validation and testing code are not available
LLM360	Expect Yes	Self-certified as compliant on the forum, awaiting addition of reviewable documents to their sheet
Mistral	Confirmed No	Some data information and code components missing, no training code available
OLMo	Expect Yes	Supporting libraries and tools unclear, but all other legal documentation is present
OpenCV	Unclear	Model requirement unclear because OpenCV does not store, but instead supports external deep learning frameworks
Phi-2	Unclear	Data information, code, and model information missing
Poro	Unclear	Most review documentation not yet located; Located documentation meets OSAID requirements
Pythia	Confirmed Yes	Only non-alignment was absence of labeling documentation, which was not created. v 0.0.8 adds "if used" to requirement, resolving this
T5	Expect Yes	Only possible restriction is in supporting libraries and tools because gcloud command requires special hardware. Hardware requirements are out of scope for the OSAID, so this is likely not a recognized restriction.

Open Source AI Definition

What's Next?

June - October 2024

- Complete validation phase
- Resolve comments, release v. 0.0.9 after validation
- Cut the release candidate with sufficient endorsement

Board Guidance

The OSI Board requires a definition that is:

Supported by diverse stakeholders

The definition needs to have approval by end users, developers, deployers and subjects of AI, globally.

Provides real-life examples

The definition must include relevant examples of AI systems that comply with it at the time of approval, so cannot have an empty set.

Ready by October 2024

A usable version of the definition needs to be ready for approval by the board at the October board meeting.

Approved June 21, 2024

2024 Timeline

System testing work stream
Stakeholder consultation work stream
Release schedule

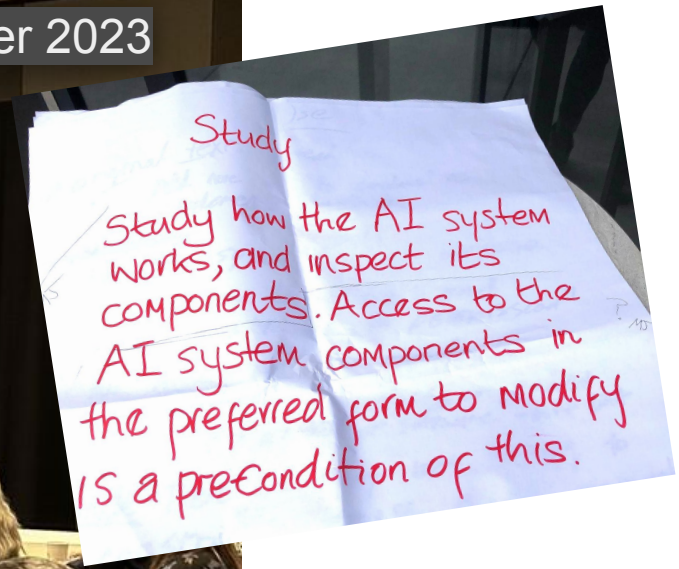
February	June	July	August	September	October
Call For Volunteers + Activity Feedback and Revision	**Virtual System Review**	**Virtual System Review**	**Virtual System Review**	**Virtual System Review Ends**	
Bi-Weekly Virtual Public Townhalls	Bi-Weekly Virtual Public Townhalls	Townhalls + **- OSPOs for Good** (NYC) **- Sustain Africa** (virtual)	Townhalls + **- AI-dev** (Hong Kong)	Townhalls + **- Nerdearla** (Buenos Aires)	Townhalls + **- All Things Open** (Raleigh) **- Data Workshop** (Europe TBD)
Draft 0.0.5	Draft 0.0.8	Draft 0.0.9	RC1	RC1	Stable Version

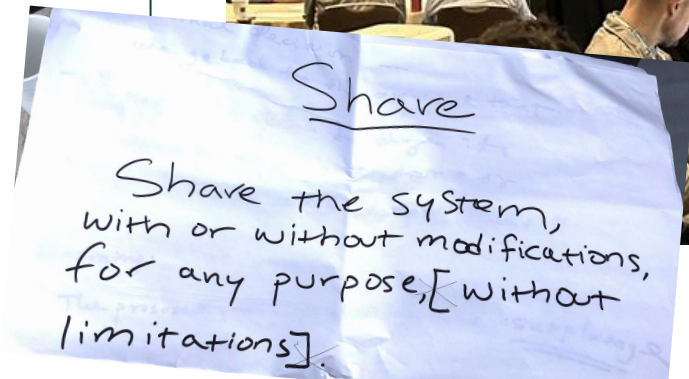
In-Person Meetings

Region	Country	City	Conference	Date
North America	United States	Pittsburgh	✓ **PyCon US**	May 17
Europe	France	Paris	✓ **OW2**	June 11 - 12
North America	United States	New York	✓ **OSPOs for Good**	July 9 - 11
Africa	Virtual	Virtual	✓ **Sustain Africa**	July 15
Asia Pacific	China	Hong Kong	**AI_dev**	August 23
Latin America	Argentina	Buenos Aires	**Nerdearla**	September 24 - 28
Europe	France	Paris	**Data governance**	October
North America	United States	Raleigh	**All Things Open**	Oct 27 - 29

Co-Design Workshop in Raleigh, USA

Co-Design Workshop in Monterey, USA

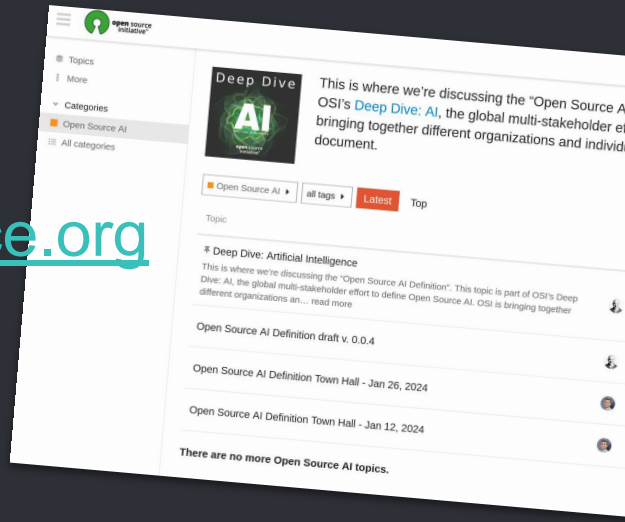




Co-Design Workshop in Addis Ababa, Ethiopia

How to Participate :)

- Public **forum**: discuss.opensource.org
- Become an OSI **member**
  - Free or or full
  - SSO with other OSI websites
- Biweekly virtual **townhalls**… like this one!
- **Volunteer** to help with validation (email or DM Mer Joyce)



Q & A

Thank you

We realize this is difficult work and we appreciate your help and openness in improving the definition.