



自己紹介





◆ Senior Project Manager at the Linux Foundation

Linux Foundationのシニアプロジェクトマネージャーとして、4大陸にまたがるオープンソースコミュニティと数千人の実践者を支援。TODO GroupとDevRel Foundationのマネジメント、PyTorch Foundation アウトリーチプログラムの戦略を担当。オープンソース機械学習フレームワークの普及拡大に向けた教育イニシアチブを推進している。データサイエンスの修士号を取得し、コミュニティとプロジェクトの健全性指標を専門としている。また、経験豊富な国際的な基調講演者としてアジア、ヨーロッパ、北米の組織やカンファレンスで専門知識を共有している。









Open Source = Critical Infrastructure

重要インフラである Data and artificial intelligence Software Cloud Internet of things & devices Networks Chips Critical resources: Raw materials, energy and water



Chemical



Financial



Commercial **Facilities**



Food & Agriculture



Communications



Government **Facilities**



Critical Manufacuring



Healthcare & Public Care



Dams



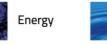
Information Technology



Defense Industrial



Nuclear Reactors, Materials, & Waste





Water & Wastewater Systems



Emergency Services



Transportation Systems





Source: EuroStack Report

New Regulations

「EUのCRA(サイバー・レジリエンス法)へのコンプライアンスは、多くの組織においてOSPOがオープンソースのセキュリティに最初から関与する重要性を間違いなく高めています。政策との有意義な関わりや、オープンソースのセキュリティ戦略の実装は、今後も重要な注力分野であり続けるでしょう」

Natali Vlatko, Open Source Lead Architect, Cisco

The Association of Southeast Asian Nations (ASEAN) 東南アジア諸国連合



EU Cyber Resilience Act EU サイバーレジリエンス法



2023 — CISA Cybersecurity Strategic Plan (US) 米国 CISA サイバーセキュリティ戦略計画



The European Union Agency for Cybersecurity (ENISA) 欧州連合サイバーセキュリティ機関





Supply-side OSS value: \$4.15 billion

Demand-side OSS value: \$8.8 trillion – Only 5% of OSS developers create 96%

of demand-side value

Without OSS, companies would need to spend 3.5x more on software

The Value of Open Source Software

Manuel Hoffmann^a

Frank Nagle^b

Yanuo Zhou^c

This version: January 1, 2024

Abstract

The value of a non-pecuniary (free) product is inherently difficult to assess. A pervasive example is open source software (OSS), a global public good that plays a vital role in the economy and is foundational for most technology we use today. However, it is difficult to measure the value of OSS due to its non-pecuniary nature and lack of centralized usage tracking. Therefore, OSS remains largely unaccounted for in economic measures. Although prior studies have estimated the supply-side costs to recreate this software, a lack of data has hampered estimating the much larger demand-side (usage) value created by OSS. Therefore, to understand the complete economic and social value of widely-used OSS, we leverage unique global data from two complementary sources capturing OSS usage by millions of global firms. We first estimate the supply-side value by calculating the cost to recreate the most widely used OSS once. We then calculate the demandside value based on a replacement value for each firm that uses the software and would need to build it internally if OSS did not exist. We estimate the supply-side value of widely-used OSS is \$4.15 billion, but that the demand-side value is much larger at \$8.8 trillion. We find that firms would need to spend 3.5 times more on software than they currently do if OSS did not exist. The top six programming languages in our sample comprise 84% of the demand-side value of OSS. Further, 96% of the demand-side value is created by only 5% of OSS developers.





More companies overseas understand the associated risks of underinvestment and innovation speed opportunities and makes direct contributions to OSS projects

多くの企業が、投資不足のリスクとイノベーション加速の機会を理解し、OSSに直接貢献している

Europe	India	China	US	South Korea
SAP: Cloud Foundry, Eclipse Foundation, CNCF Siemens: Eclipse IoT Ericsson: ONAP, CNCF projects Nokia: Open RAN, CNCF projects BMW, Daimler, Volkswagen: Automotive Grade Linux projects, Eclipse SDV	Infosys: Hyperledger, OpenChain (LF) Wipro: CNCF projects, FINOS projects, etc	Tencent: Kubernetes, TARS, other CNCF projects Ant Group:CNCF projects, Apache Software foundation projects, FINOS projects Huawei: Open Infra projects, ONAP, CNCF projects	Google: CNCF projects, TensorFlow Microsoft: TypeScript Meta: React, PyTorch Amazon: OpenSearch, CNCF projects	Samsung: ONAP, CNCF projects LG Electronics: Automotive Grade Linux projects



Source: SAP OSS partnerships



Direct Value



運用面

Reduce vendor lock-in

Faster time-to-market

Quicker vulnerability discovery and remediation

Interoperability



戦略面

Market differentiation on top of common foundation

Faster R&D

Leadership in ecosystem

Indirect Value



組織

Innovation capacity

Talent attraction

Customer credibility

Cross-department collaboration (innersource)



チーム

Skill development

Happiness

Motivation



プロジェクト

opment Faster market adoption

Resilience

Improved quality











じゃあ、エンジニアに 貢献してもらえばいい のかな...

Many orgs have no overall open source strategy

(or it's limited to licensing & compliance)

Employees are frequently encouraged to contribute to open source without proper guidance about how to demonstrate the

value of these efforts が な Both the open source project AND the organization begin to suffer

オープンソースプロジェクトも 組織もダメージを受ける Employees are encouraged to contribute more to OSS

社員がOSSにもっと貢献することを推奨しています

OSS Pitfall Loop

OSSの落とし穴ループ

Employees are told to spend less time on open source

社員はOSSにかける時間を減ら すように言われています。 Leadership asks: "Why are we spending time on something that doesn't help us?

「どうして役立たないことに 時間を使っているの?」



Who sets OSS methodology, processes and choices within our organization?

誰がOSS「方法論・プロセス・意思決定」を決めているのか?

- How to approach open source strategy?
- How to review and approve third-party software before using it?
- Which tools to use?



Source: <u>ospo manga</u> by みらくるちゃん(@miraclelinux) CC BY-SA 4.0

OSPO

日本語版はこちら

組織のオープンソースに関する 運用と体制の中核的な専門機関 として機能します。

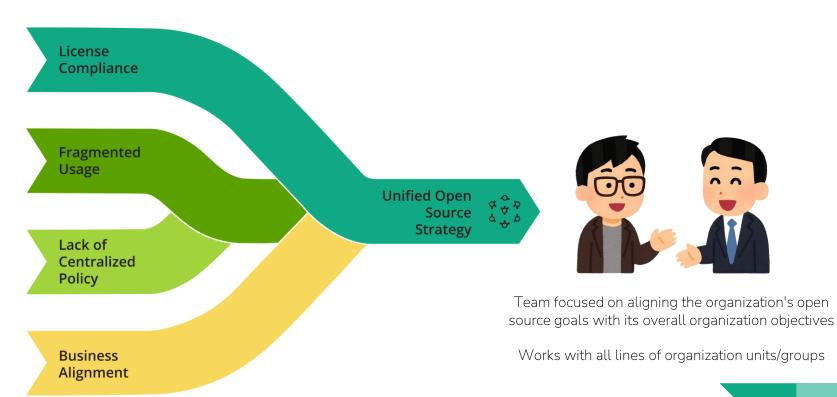
- OSPOs with formal reporting lines, job titles, and staff
- Informal or virtual OSPOs without dedicated personnel



Source: ospo manga by みらくるちゃん (@miraclelinux) CC BY-SA 4.0



Holistic OSS Strategy





Holistic OSS Strategy

THE 2025 STATE OF OSPOS AND OPEN SOURCE MANAGEMENT

89% of organizations report improved **DEVELOPER EXPERIENCE** through their OSPO initiatives.



THE 2025 STATE OF OSPOS AND OPEN SOURCE MANAGEMENT

85% of organizations gained **INCREASED INFLUENCE** within open source ecosystems due to having an OSPO.



THE 2025 STATE OF OSPOS AND OPEN SOURCE MANAGEMENT

88% of organizations perceive improved **SOFTWARE QUALITY AND SECURITY** as an impactful outcome of having an OSPO.







OSPO in Action: SAP Our Commitments

Consistent Contributions

We actively participate in the open-source community, contributing code, expertise, and resources to projects that align with our values and vision.

Championing Open Standards

We advocate for and adhere to open standards, understanding their pivotal role in creating cohesive and interoperable systems.

Open-first Approach

We strive to adopt an open-first approach for our underlying technology, releasing numerous key innovations to the community and preferring open-source solutions in our endeavors.

Nurturing Open-Source Ecosystems

We actively support, promote, and nurture open-source projects and communities.

Feedback-Driven Approach

We are receptive to the open-source community, valuing their feedback so that we can learn from it.



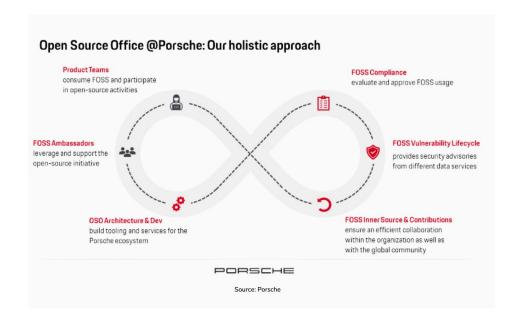
Figure 1: Highlights of SAP's open source engagement 2023

https://news.sap.com/2024/06/sap-commits-open-source-manifesto/



OSPO in Action: Porsche

Porsche Open Source Platform With the Porsche FOSS Movement, we are continuing our open-source journey and creating a common understanding of values, principles and goals - in all teams, all subsidiaries and across all national borders.



https://ospobook.todogroup.org/use-cases/



OSPO in Action: Sony

Management Level

Alignment between OSS strategy and business strategy.

OSPO Level

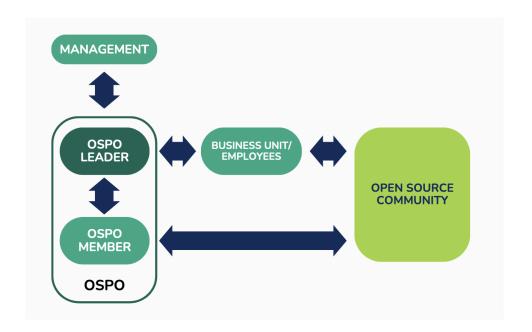
Evolving OSPOs and OSPO network inside the conglomerate company.

Employee Level

Driving cultural change and encouraging an open source culture among employees.

Business Units

Encouraging collaboration between different business units and sharing best practices.



https://ospobook.todogroup.org/use-cases/



OSPO in Action: TOYOTA

2024.08.30

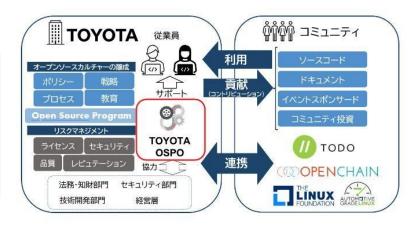
Toyota has established OSPO (Open Source Program Office) in Otemachi

Toyota Motor Corporation

Advanced R&D and Engineering Company

Open Source Program Group

■OSPOって何?



OSPO の役割



OSPO in Action: China Ecosystem



























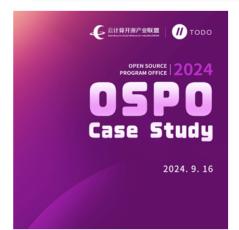


Financial Industry



Manufacturing Industry





- 1. Enterprise Motivation to establish OSPO
- 2. Risks faced by enterprise open source
- 3、Enterprise OSPO positioning
- Cases (different industries)



OSS Contribution Policies Templates by TODO



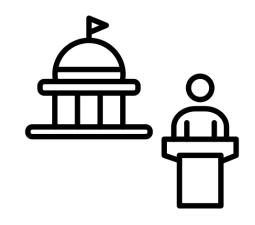
https://github.com/todogroup/policies

Examples and Templates

- Buffer
 - Buffer Open Source Guide
- Citi
 - o Citi OSPO
 - Free and Open Source Software Contribution Guidelines
- eBay
 - o open source website
- GitLab
 - GitLab Team Handbook
- Google
 - OSPO Policies
- Linux Foundation
 - o Open Source Approval Form Template
 - Open Source Generic Policy
- FINOS
 - FINOS Reference FOSS Policy
- Indeed
- Indeed
- Joyent
 - Joyent Open Source Policy
- Microsoft
 - o Microsoft's Open Source Program
- OpenChain
 - OpenChain Policy Template
- Rackspace
 - Model IP and Open Source Contribution Policy
- Red Hat
 - · Red Hat's open source participation guidelines
- Sauce Labs
 - Sauce Labs Open Source Documentation
- SUSE
 - SUSE Open Source Policy
- · United States Government Services Administration (GSA)
 - GSA.gov Open Source Policy
- Yahoo
- Yahoo Open Source Guide
- Zalando
- Zalando's Open Source Documentation

Public Sector OSPOs

Country	Organization	
Netherlands	NL National Government The Netherlands	
France	FR La direction interministérielle du numérique (DINUM) FR Institut national de l'information géographique et forestière (IGN) FR City of Paris FR France Travail (employment service state) FR City and Eurometropolis of Strasbourg FR Direction de la stratégie et de la culture numériques FR Réseau de Transport d'Électricité (RTE)	
Denmark	рк <u>OS2</u> (danish association of public institutions)	
Germany	DE City of Munich	
United States	us Digital Service at the Centers for Medicare and Medicaid Services	
Intergubernamental or Supranational		





Academic OSPOs

Carnegie Mellon University

Trinity College

ETH Zürich

Université Grenoble Alpes

Washington University

SnT – Université du Luxembourg

Georgia Tech

University of California, Berkeley

Johns Hopkins University Library

University of California, Davis

Lero

University of California, Los Angeles

Mississippi State University

University of California, San Diego

Oregon State University

University of California, Santa Barbara

RIT (Rochester Institute of Technology)

University of California, Santa Cruz

Saint Louis University

University College London

Stanford University

University of Michigan

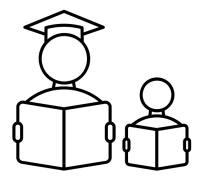
Syracuse University

University of Texas at Austin

University of Vermont

University of Wisconsin-Madison

Source - CURIOSS





POSITION THE OSPO AS GOVERNANCE HUB FOR EMERGING TECHNOLOGIES

Include Al policy guidance, Al-generated code compliance, in collaboration with risk, legal, and platform teams







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STRENGTHEN SECURITY STRATEGY WITH OSS MANAGEMENT

Embedding OSPOs early in the software development lifecycle enables scalable security practices, reduces exposure, and ensures alignment with regulations such as the E.U. Cyber Resilience Act







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MOVE BEYOND LAUNCH-INVEST IN LONG-TERM SUSTAINABILITY

Include practices such as internal reporting (ROI) to sustain OSPO activities









THE LINUX FOUNDATION PROJECTS

90+ 2,000+ Organizations Practitioners

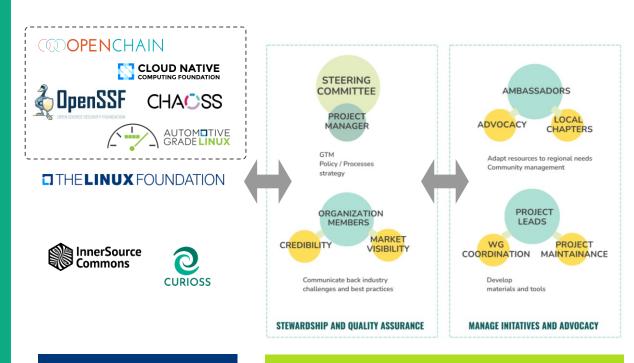
Founded in 2014

Years of experience in OSS Management within Organizations





Creating & Improving mechanisms to build an unified open source strategy bodies in organizations



OSS Ecosystem

TODO Community

SHARED RESOURCES COLLABORATIVE DEVELOPMENT COMMUNITY OF PRACTICE

Creating & Improving mechanisms to build an unified open source strategy bodies in organizations



RSVP Only Virtual Event
[OSPO-JP] 58th Japan OSPO
Local Meetup supported by
TODO Group and OpenChain
Japan WG

→ Ver detalles



RSVP Only Virtual Event [OSPO-JP] 57th Japan OSPO Local Meetup supported by TODO Group and OpenChain Japan WG

→ Ver detalles



Virtual Event [OSPO-JP] 56th Japan OSPO Local Meetup supported by TODO Group and OpenChain Japan WG

→ Ver detalles



Virtual Event [OSPO-JP] 55th Japan OSPO Local Meetup supported by TODO Group and OpenChain Japan WG

→ Ver detalles















Get Involved



Working Group (Individuals)



Member (Organization)



