OSPO CON @ THE LINUX FOUNDATION OPEN SOURCE SUMMIT NORTH AMERICA

Toyota's Road to OSPO and It's Destination

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THE LINUX FOUNDATION
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Shingo Fuijimoto
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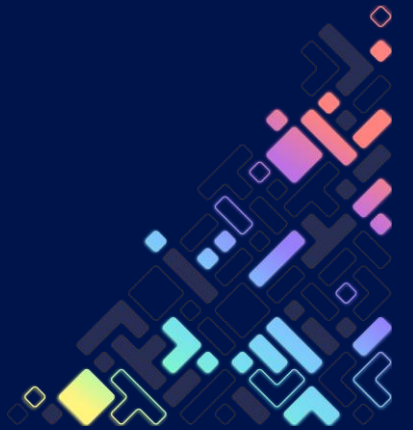
Expertise: Blockchain

Munihiro Ikeda
Lead Architect at Cybertrust Japan
Expertise: Security

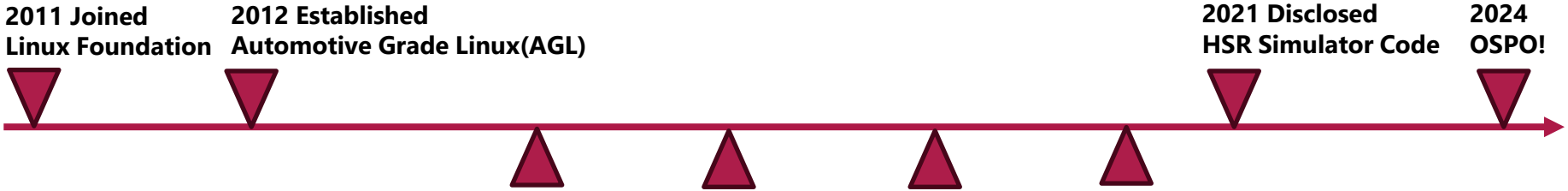
Yuichi Nakamura
Chief OSS Strategist, Hitachi
Expertise: Cloud, Security

1. Road to OSPO



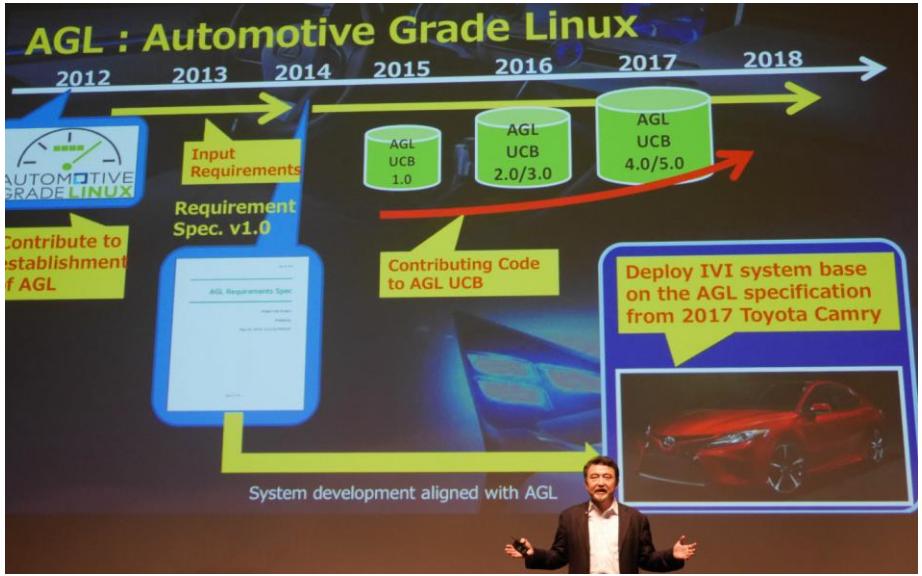
The History of Toyota's Open Source Activities

Contribution



Use

Automotive Grade Linux (AGL)



2018 Automotive Linux Summit (Tokyo)

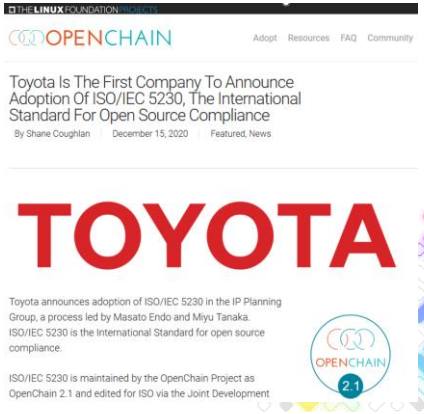
- Support establishment and growth of AGL community with LF
- Proceed adoption for our IVI products

For adoption Open Source to products & services

2019 FSFE LLW (Barcelona)

- For Patent risk reduction, we're defining patent safety zone as a board member of Open Invention Network

- For appropriate copyright management, we became a platinum member of OpenChain Project and the 1st company to announce adoption of ISO/IEC 5230.



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TOYOTA OSPO

Contribute to Standardization of Open Source

2020 CES (Las Vegas)

- For proper supply chain management, we established the first regional/industry WG OpenChain

- With OpenChain JPWG, we proposed SPDX Lite

ISO/IEC DIS 18974

Information technology — OpenChain security assurance specification

General information — Preview

Status : Under development

You can help develop this draft international standard by contacting your national member

Edition : 1

Number of pages : 9

Technical Committee : ISO/IEC JTC 1 Information technology

ICS : 35.020 Information technology (IT) in general

Buy this standard

Format | Language

PDF | English

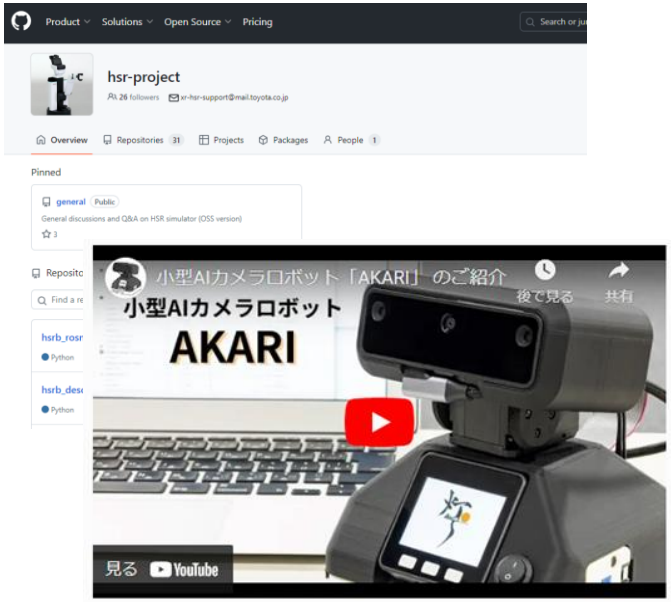
Paper | English

CHF 61

Buy

https://www.iso.org/standard/86450.html

Expand community for developing robots



■Formed a community consisting of 57 research institutions from 10 countries to promote open research on partner for developing HSR (Human Support Robot). Open-sourcing the robot simulator to enable more people to participate in its software development.

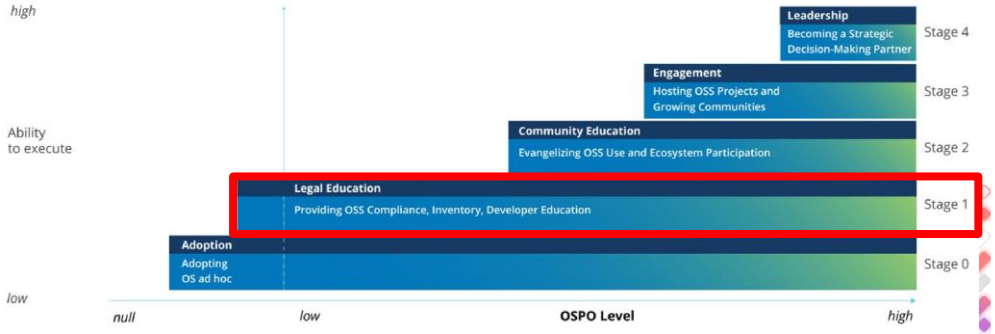
■Also open-sourcing and open-source hardwarezing the small tabletop AI robot "AKARI" to open the doors for everyone to participate in robot development.

https://github.com/hsr-project
https://akarigroup.github.io/docs/source/intro.html

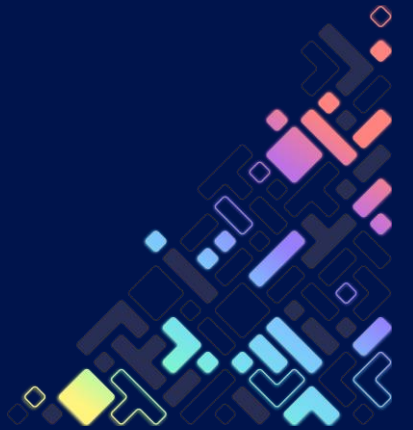
Why OSPO?

■The growing importance of software in automotive development has led to increased use of OSS and progress in forming internal processes.

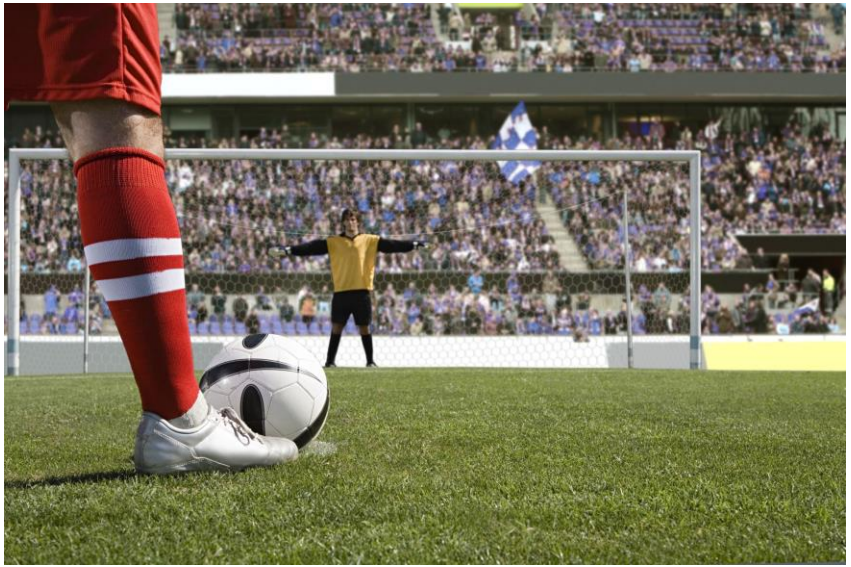
■On the other hand, community contributions and strategic activities were promoted by a small number of internal members



2. OSPO’s Destination

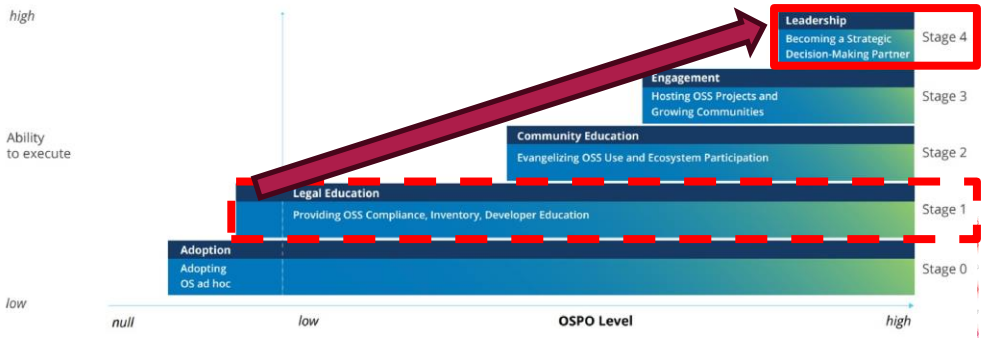


OSPO's Mission

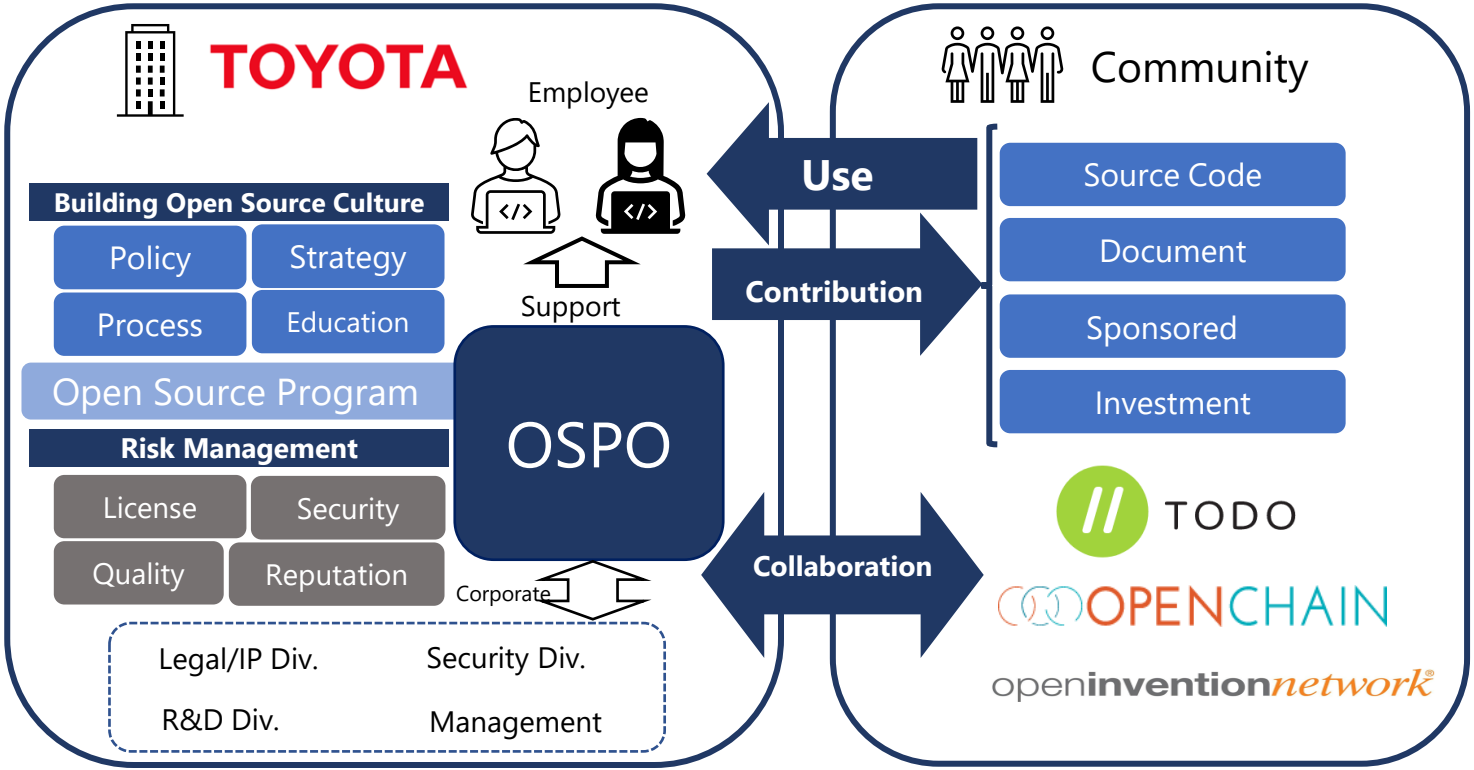


■Make strategic use of OSS and community contributions common in the Toyota

■Work with the community to achieve software innovation



OSPO's Function

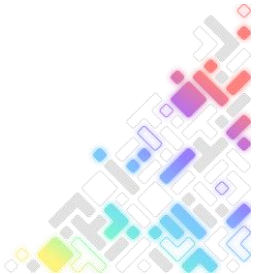


OSPO's 3 Key Activities

Culture

Strategy

Tool



OSPO's 3 Key Activities

For creating culture of open source culture

Culture

- Information Sharing (Event/ Intra)
- Education/ Process
- RewardS/Awards

Open Source Education Comic

OSPO's 3 Key Activities

For strategic collaboration with communities

Strategy

■Support Employee's Community Activities

■OSPO's work with Community

CNCF Japan event

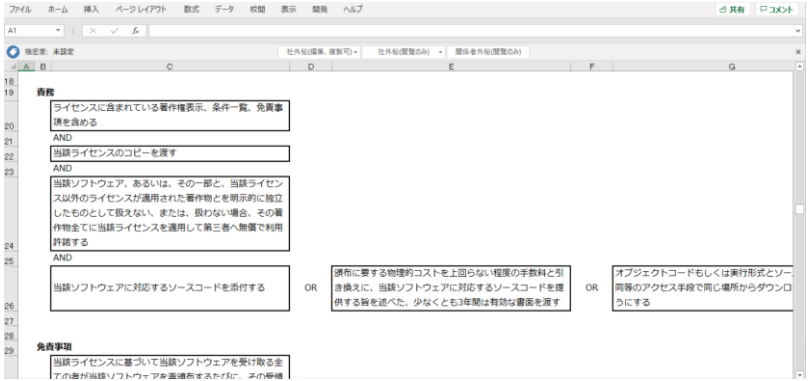
OSPO's 3 Key Activities

For enabling engineers to focus on technical value-add creation

Tool

■Scan tools

■SBOM management system



https://github.com/OLSV-oss/OSSLicenseSimpleViewer

Genchi Genbutsu (Go and see for yourself)
Kaizen (Continuous improvement)

2019 Open Compliance Summit (Tokyo)

2023 OSPO CON JAPN (Tokyo)

Thanks!!

Announcing the Safety-Critical Rust Consortium

The Rust Foundation, AdaCore, Arm, Ferrous Systems, OxidOS, HighTec EDV-Systeme GmbH, TrustInSoft, Veecle, and Woven by Toyota have formed a new group dedicated to the responsible use of Rust in safety-critical software.

by Rust Foundation Team

12 Jun 2024

DOVER, DELAWARE, USA, June 12, 2024 – The Rust Foundation, AdaCore, Arm, Ferrous Systems, HighTec EDV-Systeme GmbH, Lynx Software Technologies, OxidOS, TECHFUND, TrustInSoft, Veecle, and Woven by Toyota are thrilled to jointly announce the Safety-Critical Rust Consortium. The primary objective of this group will be to support the responsible use of the Rust programming language in safety-critical software — systems whose failure can impact human life or cause severe environmental or property harm.

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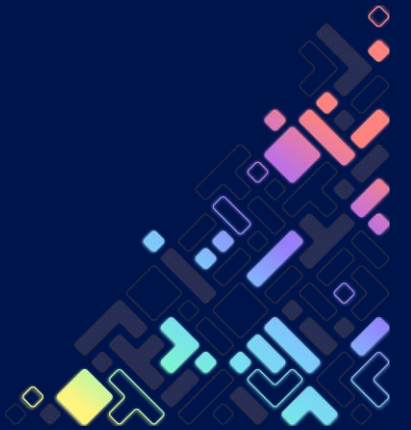
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