



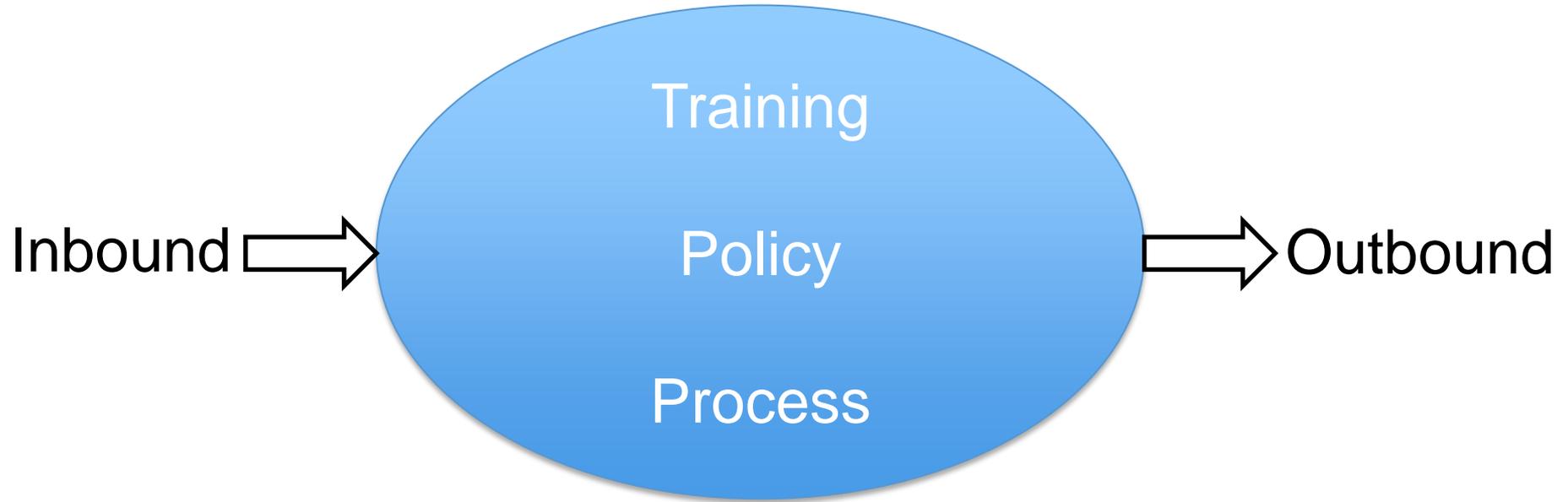
OPENCHAIN

Context: Why, How and Who

How do I trust my open source supply chain?

The OpenChain Project defines the key requirements for a quality open source compliance program.





Companies have the flexibility to decide the content of each specific process, policies and training.

OpenChain is run by users companies for user companies.





arm



BOSCH



facebook

Google



QUALCOMM

SIEMENS

SONY

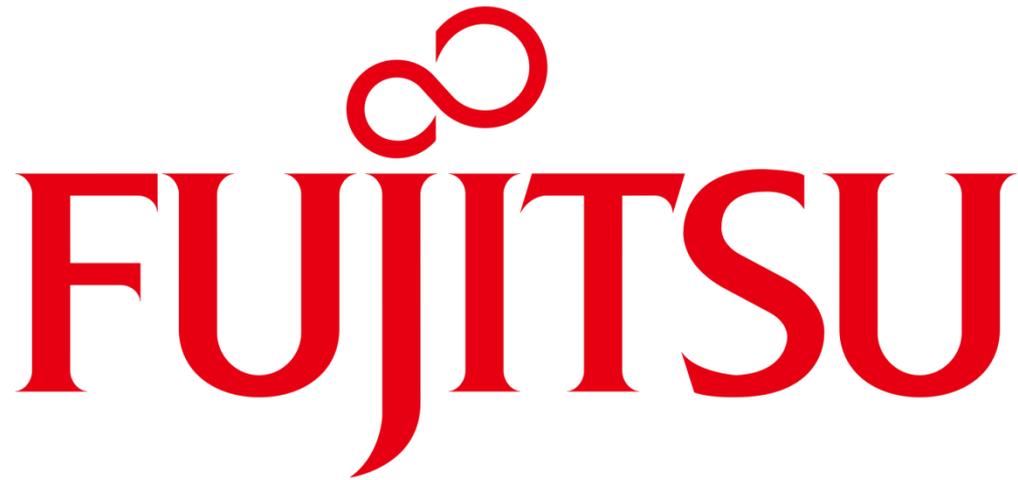
TOSHIBA

TOYOTA

Uber

Western Digital.

Our Latest Platinum Member

The Fujitsu logo is centered on the page. It features a red infinity symbol (∞) positioned above the word "FUJITSU". The word "FUJITSU" is rendered in a bold, red, serif typeface. The letters are closely spaced, and the overall design is clean and professional. The background is white, and there is a decorative bar at the bottom of the slide consisting of three colored segments: orange, teal, and a darker teal.

Publicly Announced Conformant Programs





Our New Responsive Self-Certification App

OpenChain Self Certification Questionnaire

Specification Version 1.3

Select Version

• G1: Know Your FOSS Responsibilities	8 answered out of 13
• G2: Assign Responsibility for Achieving Compliance	0 answered out of 7
• G3: Review and Approve FOSS Content	0 answered out of 8
• G4: Deliver FOSS Content Documentation and Artifacts	3 answered out of 4

Yes No Do you have a documented procedure that describes a process that ensures the Compliance Artifacts are distributed with Supplied Software as required by the Identified Licenses?

Yes No Do you archive copies of the Compliance Artifacts of the Supplied Software?

Yes No Can you easily retrieve the archived copies of the Compliance Artifacts of the Supplied Software?

Yes No Are the copies of the Compliance Artifacts archived for at least as long as the Supplied Software is offered or as required by the Identified Licenses (whichever is longer)?

• G5: Understand FOSS Community Engagement	0 answered out of 4
--	---------------------

Save Answers Save and Submit Download Answers Reset Survey

Self-Certify or “health check” for free and in private:

<https://certification.openchainproject.org>

45% of organizations access the web app for conformance, 45% access it for health checks.



Audited Certification is an Option



OpenChain is Community First



Shane Coughlan
General Manager

[LinkedIn](#) / [Facebook](#) / [Twitter](#)



Mark Gisi
Specification Chair

[LinkedIn](#)



Miriam
Ballhausen
Conformance Chair

[LinkedIn](#)



Alexios Zavras
Curriculum Chair

[LinkedIn](#)



Dave Marr
Governing Board Chair

[LinkedIn](#)

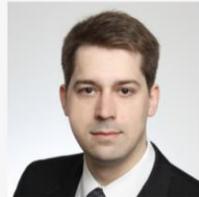


Kelly Williams
Secretary Emeritus



Catharina
Maracke
Strategic Advisor

[LinkedIn](#)



Matija Suklje
Strategic Advisor

[LinkedIn](#)



Gary O'Neill
Lead Developer

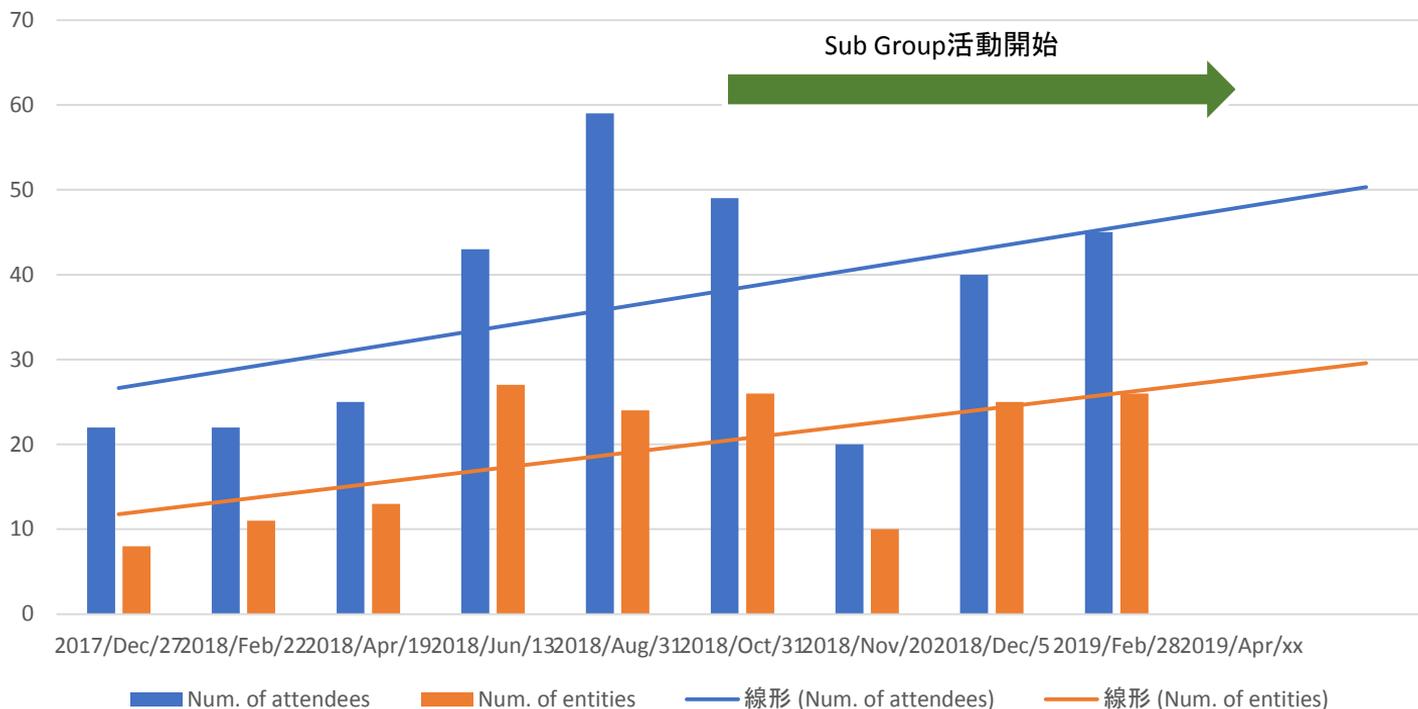
[LinkedIn](#)



Indira Bhatt
Community
Representative

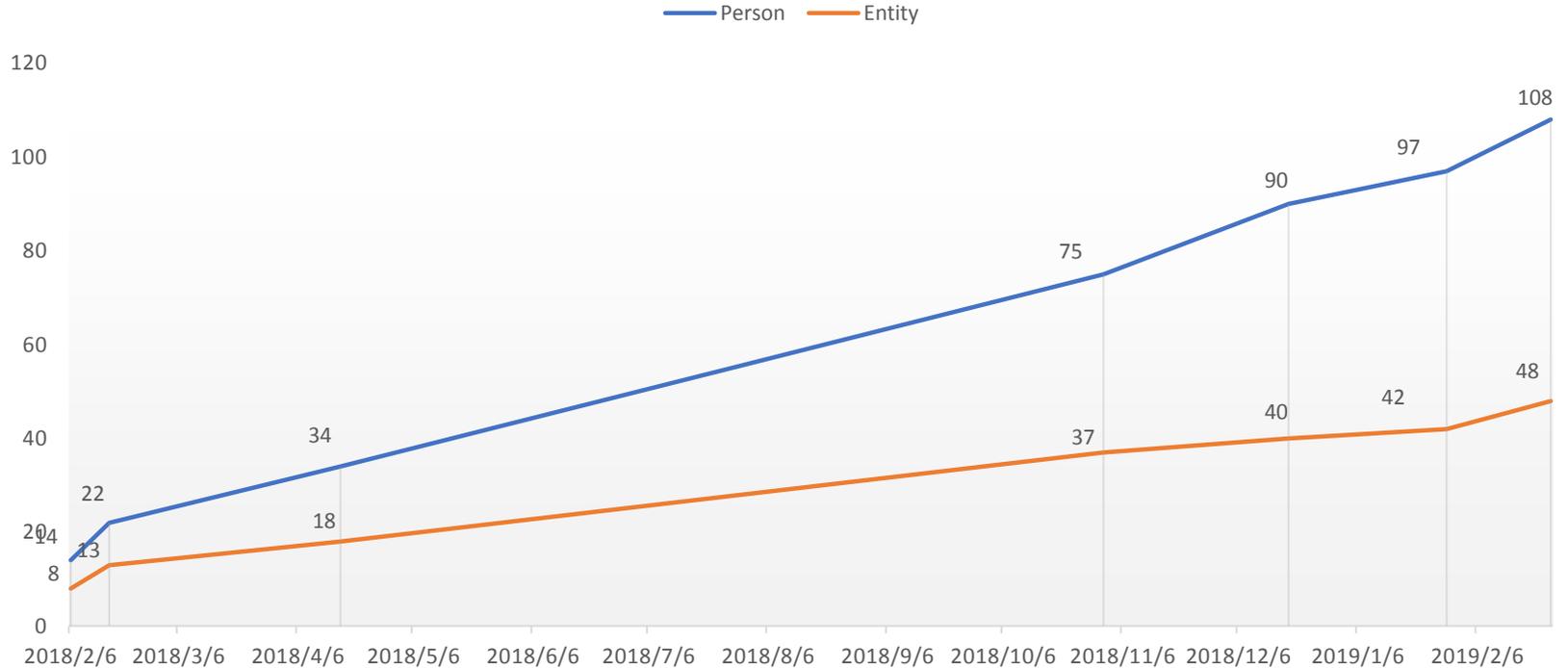
[LinkedIn](#)

Meetings in Japan



Japanese Mailing List

Japan WG ML registration



OpenChain: raising all the boats for the benefit of all.



This is how we address software in the supply chain.

Using OpenChain For Practical “Open Source Software Supply Chain Management (OSSSCM)”

Masato ENDO
Project Manager
IP Strategic Group
Intellectual Property Div.
Toyota Motor Corporation

Introduction

Background

Communication
Engineering &
Informatics

Industrial &
Management
Systems
Engineering

Business
Administration

Intellectual
Property Rights

Responsibilities

IP Strategy

OSS Governance

Community
Works



OPENCHAIN

JAMA

openinventionnetwork®



AUTOMOTIVE
GRADE LINUX

<http://linkedin.com/in/masato-endo-279026159>

The History of SCM



Industry

Automotive

Apparel

Computer

ALL

ALL

Keywords

JIT
(Just In Time)

Informatization

BTO(Build To Order)
TOC
(Theory Of Constraints)

CPFR
(Collaborative
Planning,
Forecasting and
Replenishment)

BCP
(Business Continuity
Planning)

The concept of SCM

WHY?

For improving customer's experience
For maximize effectiveness

HOW?

Realizing Total Optimization
Breaking down the intra- and inter-organizational barriers

WHAT?

Collaboration with supply chain partners
Managing bottlenecks

The Concept of OSSSCM

WHY?

Respecting the intention of community engineers
Maximizing effectiveness

HOW?

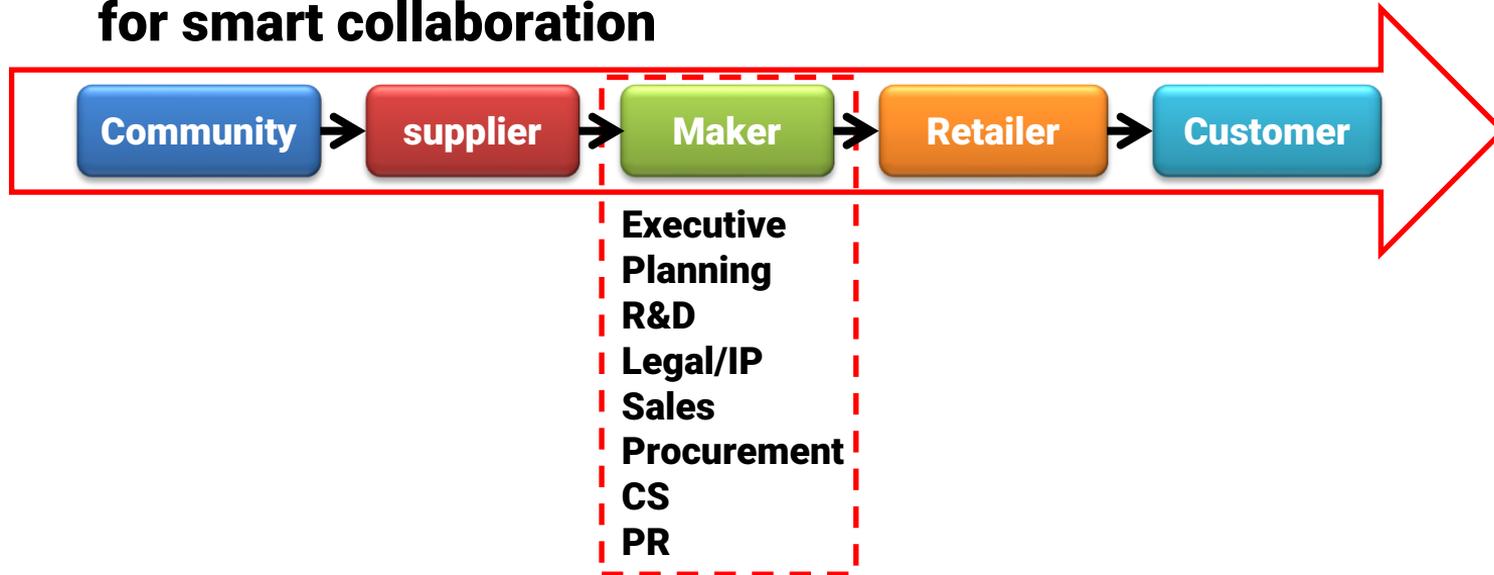
Realizing Total Optimization
Removing intra / inter-organization barriers

WHAT?

Collaboration between supply chain partners and community
Managing bottlenecks

Collaboration

2. Standardization of methods for smart collaboration



1. Developing an OSS governance structure to promote collaboration

Governance of Each Organization

w/Community

Building out self-certification, Audited Certification and formal standardization



Platinum Members:
**Adobe/Arm/CISCO/COMCAST/GitHub/
 HARMAN/HITACHI/QUALCOMM/SIEMENS
 Sony/TOSHIBA/TOYOTA/Western Digital**
Recently announced:
Bosch/Facebook/Google/Microsoft/Uber

In TOYOTA SC

Building an official group to manage OSS risks and community contributions

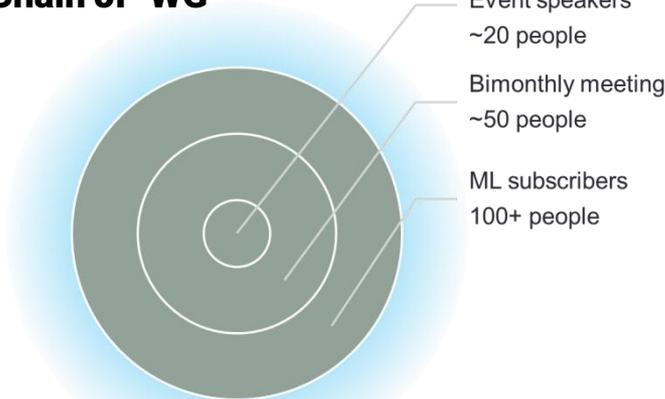
Companywide Group



Standardization of Methods

w/Community

● **OpenChain JP WG**

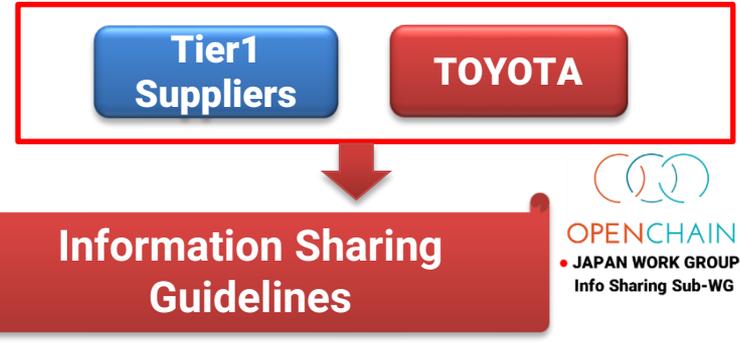


- SUB Working Groups**
- Planning SWG
 - FAQ SWG
 - Leaflet to Supplier SWG
 - Education material for roles SWG
 - License information exchange SWG
 - Tooling SWG
 - Promotion SWG

<https://wiki.linuxfoundation.org/openchain/openchain-japanese-working-group>
<https://github.com/OpenChain-Project/Onboarding-JWG>

In TOYOTA SC

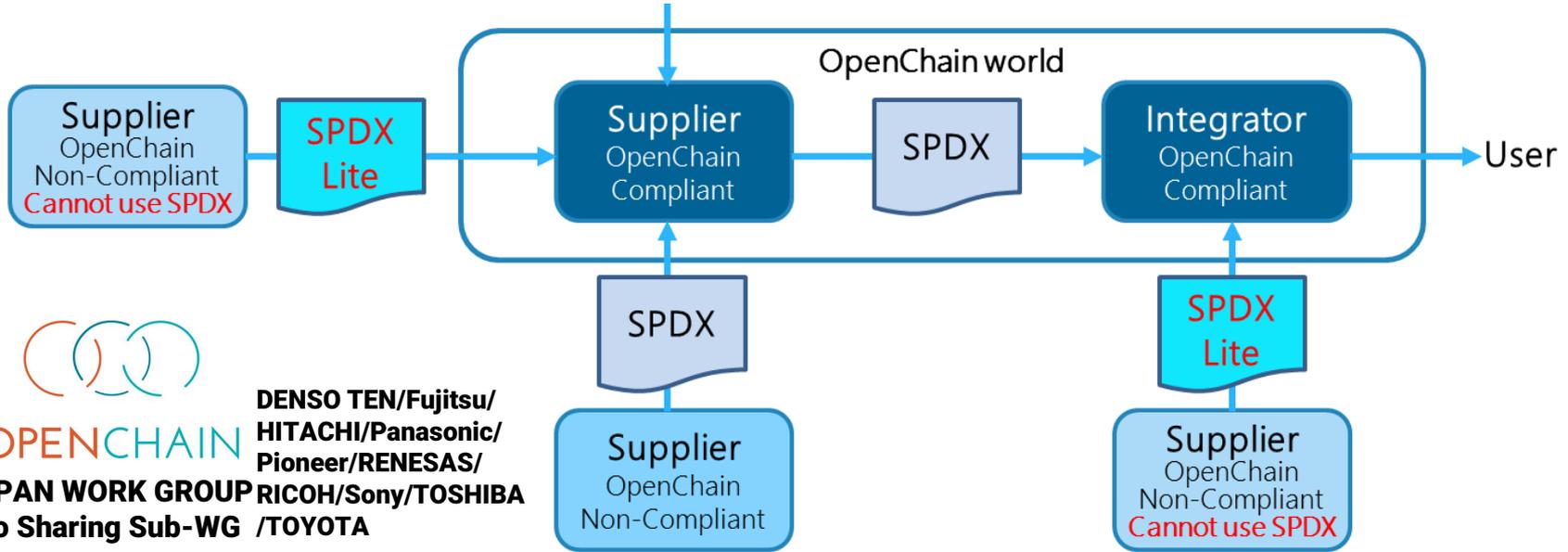
Discussing Information Sharing Guidelines via OpenChain to address licensing information challenges




OPENCHAIN
 ● JAPAN WORK GROUP
 Info Sharing Sub-WG

Standardization of Data Exchange

w/Community

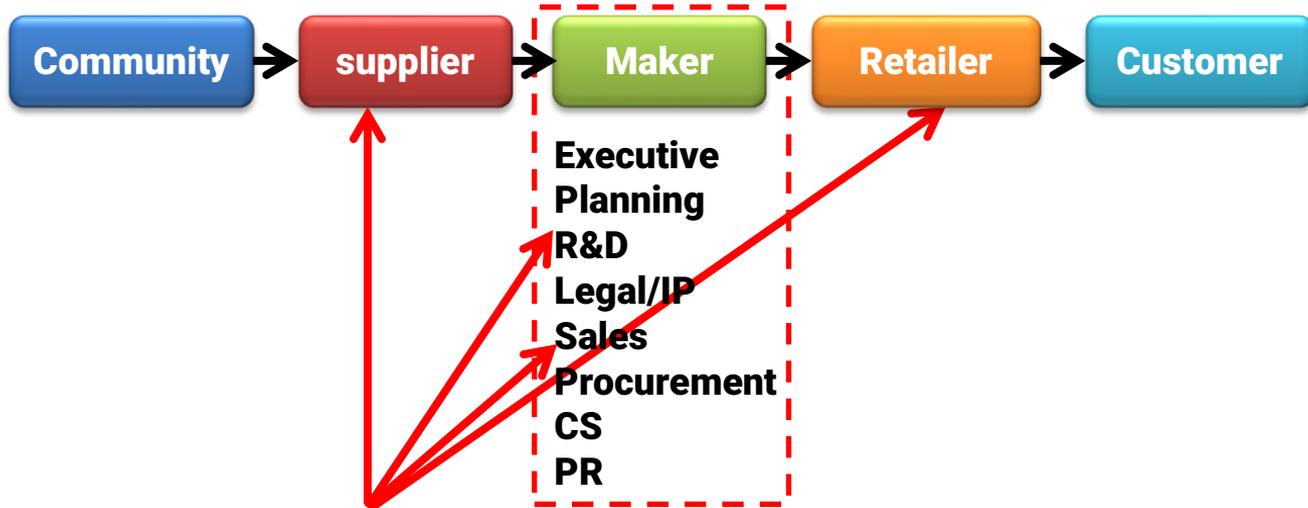


SPDX Lite (ex. Package Info.) would be a efficient way to manage supply chains where some suppliers cannot use the full SPDX specification.

Managing Bottlenecks

1. Decreasing Patent Risks 2. Decreasing License Risks

Infrastructures of OSS

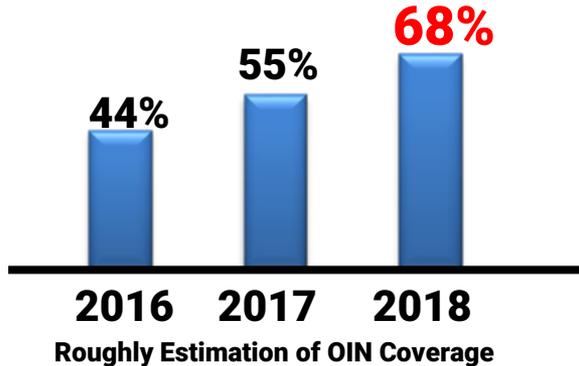


3. Promote Internal and External Understanding OSS Compliance

Decrease Patent Risks

w/Community

The expansion OIN Community resulted in a continuous reduction of OSS patent risks.



New Major Licensees OIN : HITACHI/KDDI/Microsoft

In TOYOTA SC

TOYOTA promoted its inclusion in the OIN Patent Non-Aggression Community. As a result, AGL technology has become part of this community.

openinventionnetwork
Linux System Definition



OIN Board Members
Google/IBM/NEC/PHILIPS/
Red Hat/Sony/SUSE/TOYOTA



Decrease License Risks

w/Community

GPL Cooperation Commitment (GPLCC) introduces a cure opportunity for GPLv2 and LGPLv2.

This community is expanding rapidly.

Nov.2017	Red Hat/Facebook/Google/IBM
Mar.2018	CA Technologies/Cisco/Hewlett Packard Enterprise/Microsoft/SAP/SUSE
Jul.2018	Amazon/Arm/Canonical/GitLab/Intel/Liferay/Linaro/MariaDB/NEC/Pivotal/Royal Philips/SAS/TOYOTA/VMware
Nov.2018	Adobe/Alibaba/Amadeus/Ant Financial/Atlassian, Atos/AT&T/Bandwidth/Etsy/GitHub/Hitachi/ NVIDIA/Oath/Renesas/Tencent/Twitter

In TOYOTA SC

TOYOTA became the first automotive company to join GPLCC.

https://www.toyota.co.jp/jpn/sustainability/governance/compliance/Toyota_GPL_Commitment.pdf

The eight board members of OIN announced that they had unanimously adopted GPLCC.

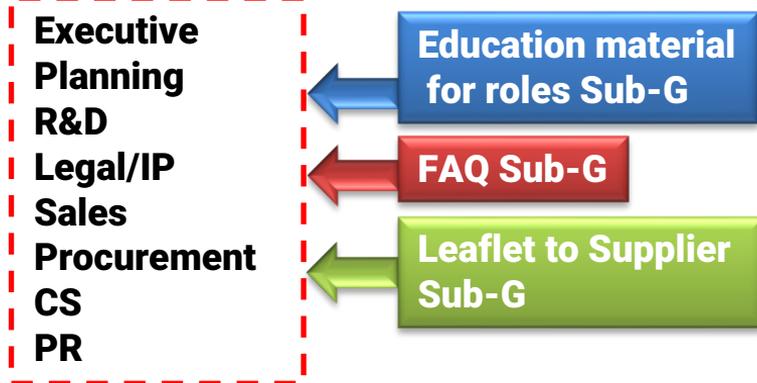
https://www.openinventionnetwork.com/pressrelease_details/?id=88

TOYOTA is introducing GPLCC at community events such as the AGL All Members Meeting.

Promote Understanding

w/Community

The OpenChain Japan WG is identifying bottlenecks caused by lack of understanding around compliance and building Sub-Groups for each bottleneck.



In TOYOTA SC

TOYOTA introduced an OSS license manual on the employees intra-net and is sharing information with subsidiaries all over the world.



Outside professionals are delivering lectures for our engineers to further develop internal OSS culture.

Level of Understanding



We have to reach people who doesn't recognize OSS compliance

Engage with OpenChain – Start Your OSSSCM

Join the community:

<https://www.openchainproject.org/community>

Self-certify an organization:

<https://certification.openchainproject.org>