

COMPLIANCE PUZZLE, BUILDING AN OSS COMPLIANCE TOOLCHAIN WITH OPEN SOURCE TECHNOLOGIES

Open Source Summit Europe
October 28, 2019

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Introduction

About Me

- ▶ I'm not Lars ;-)
- ▶ Open Source Enthusiast since the Golden Days of SourceForge
- ▶ I'm a Windows user (and I dare to say it)
- ▶ Former co-maintainer for Git for Windows
- ▶ Founder of the OSS Review Toolkit (ORT)

Introduction

About Bosch Software Innovations

Market presence

6.2m

connected devices using
Bosch IoT Suite



Know-how

800+

IoT experts around the world
(Germany, Bulgaria, Singapore, China,
Japan)



Experience

250+

IoT international projects in the areas
of manufacturing, mobility, energy,
home & building, city, agriculture ...



Mobility

Solutions for electro
mobility,
intermodal transpor-
tation, and
connected
vehicles



Industry

Solutions for
connected
manufac-
turing



Agriculture

Solutions to
support the
sustainable
intensification
of food
production



Energy

Solutions for
smart and
simple
energy
management



Smart Home & Building

Solutions for
connected
homes and
commercial
buildings



Smart City

Connected
solutions for
urbanites to
make life
easy and
efficient



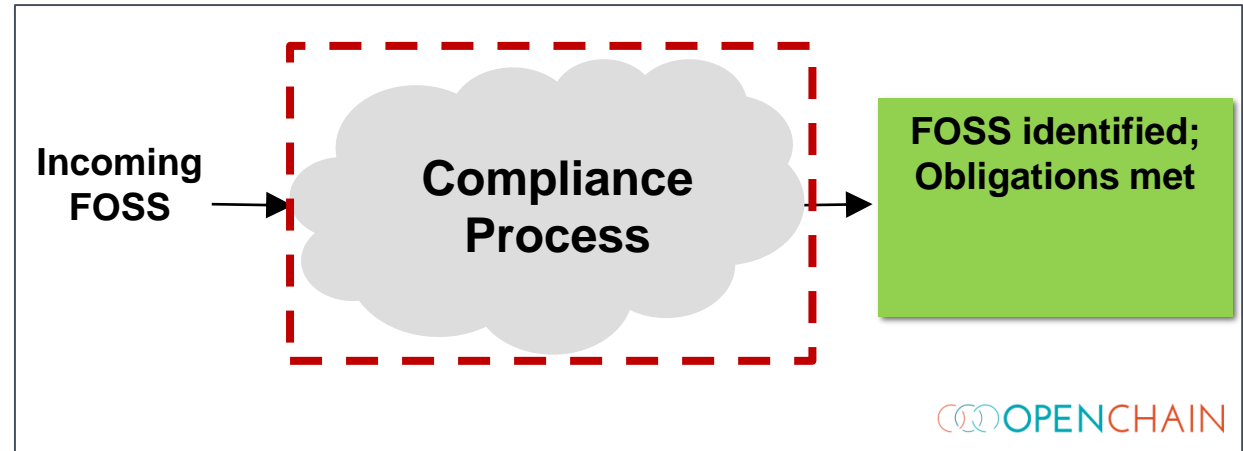
OPEN SOURCE MANAGEMENT PRACTICES

Open Source Management Practices

End-to-End Compliance

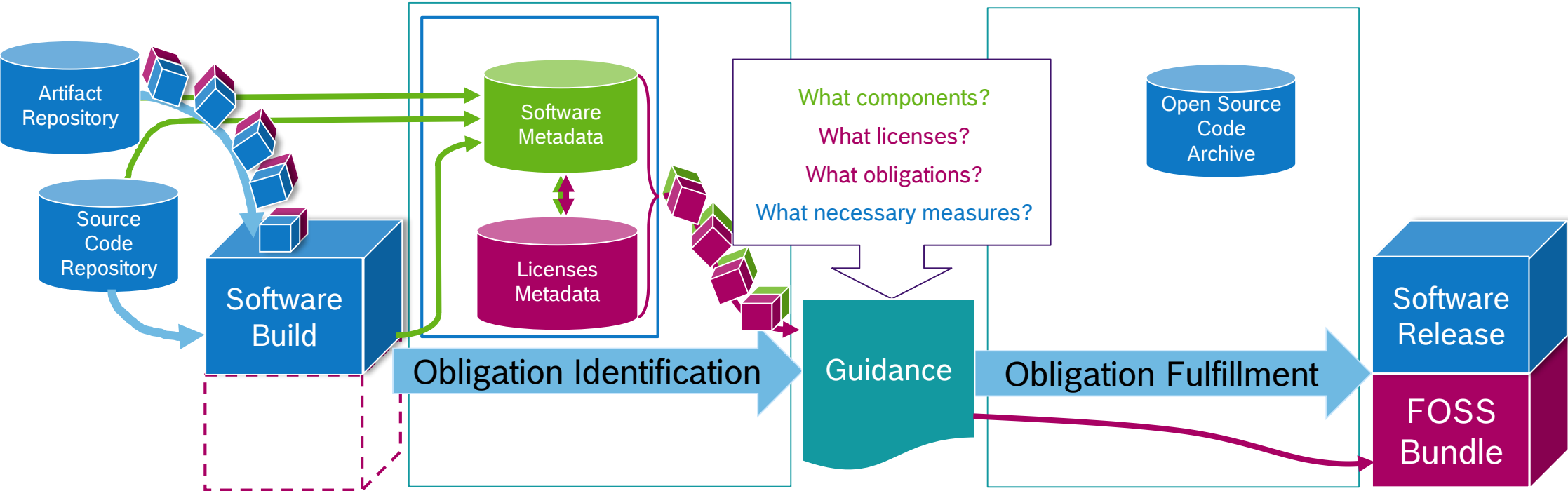
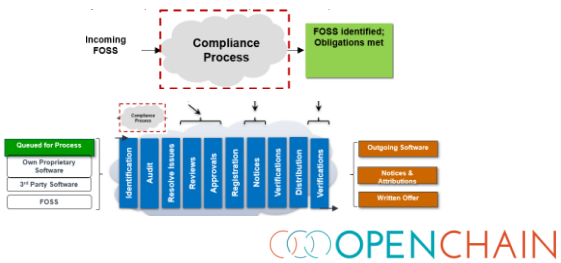
Theory
What?

- ▶ Compliance management is a set of actions that manages OSS components used in products. Companies may have similar processes in place for proprietary components. FOSS components are called "Supplied Software" in the OpenChain specification.
- ▶ Such actions often include:
 - ▶ Identifying all the FOSS components used in Supplied Software
 - ▶ Identifying and tracking all obligations created by those components
 - ▶ Ensuring that all obligations have been or will be met
 - ▶ Small companies may use a simple checklist and enterprises a detailed process.



Open Source Management Practices

Key Elements

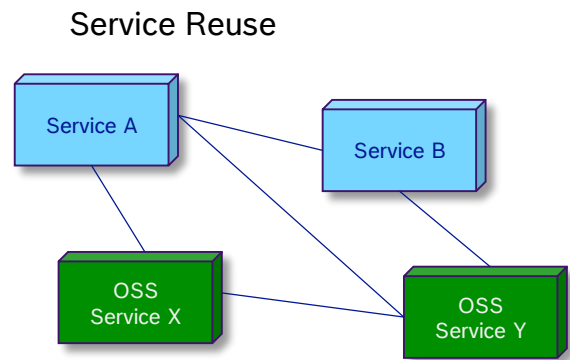
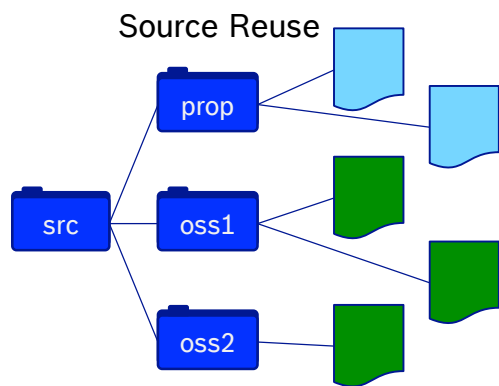
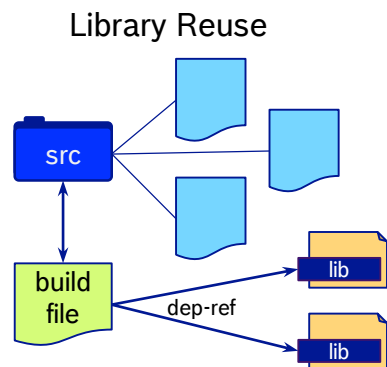
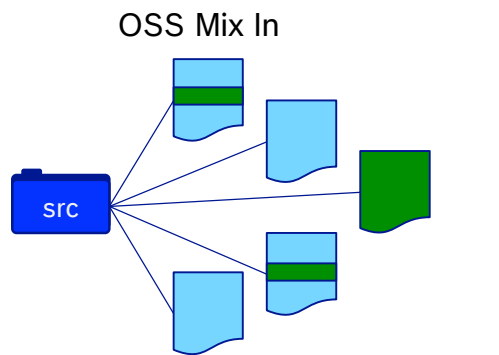


OPEN SOURCE USAGE PATTERNS

Open Source Usage Patterns

Entering Open Source

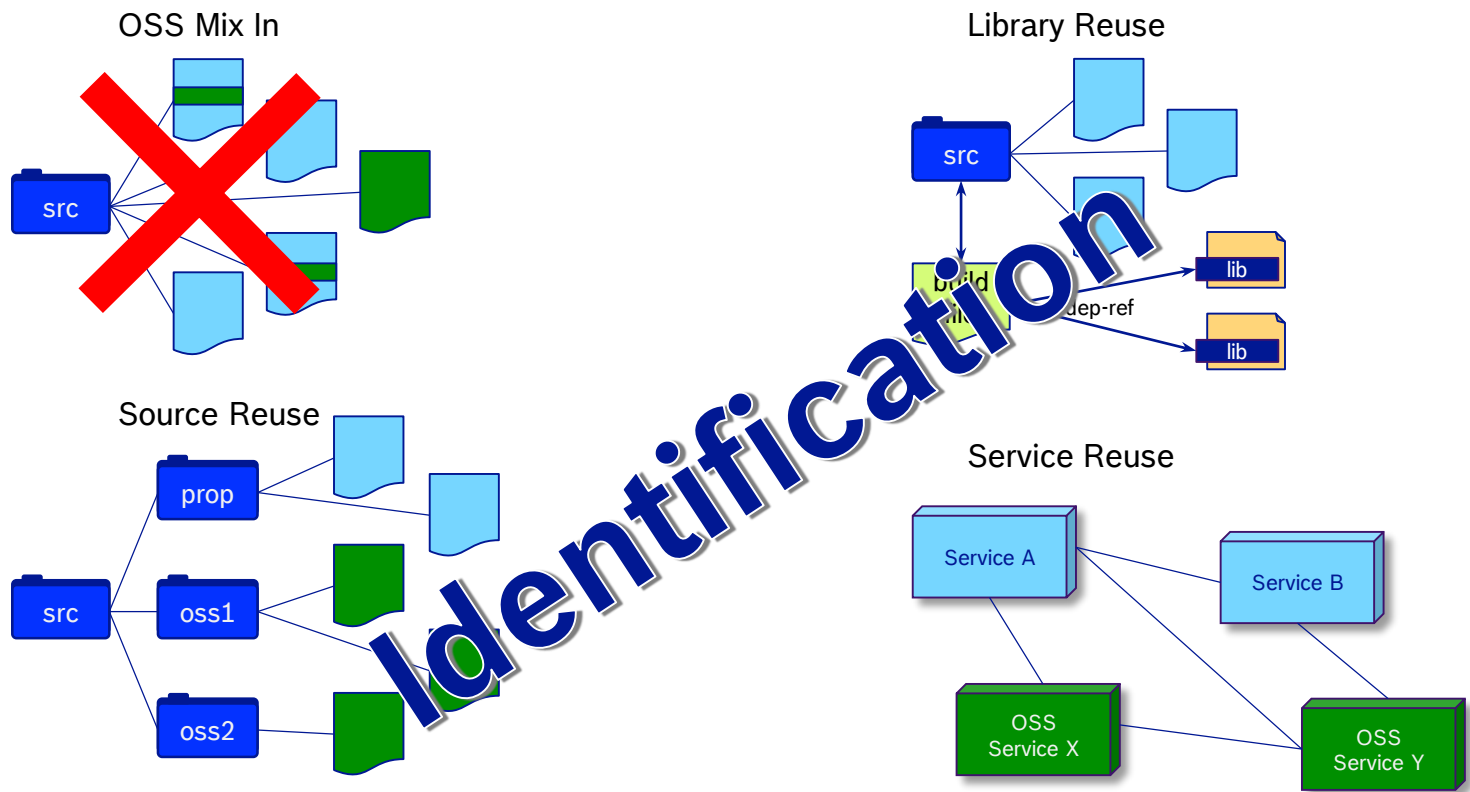
The four ways of introducing Open Source into your software



Open Source Usage Patterns

Entering Open Source

The four ways of introducing Open Source into your software



AUTOMATING OPEN SOURCE COMPLIANCE WITH OSS TOOLING

Automating Open Source Compliance

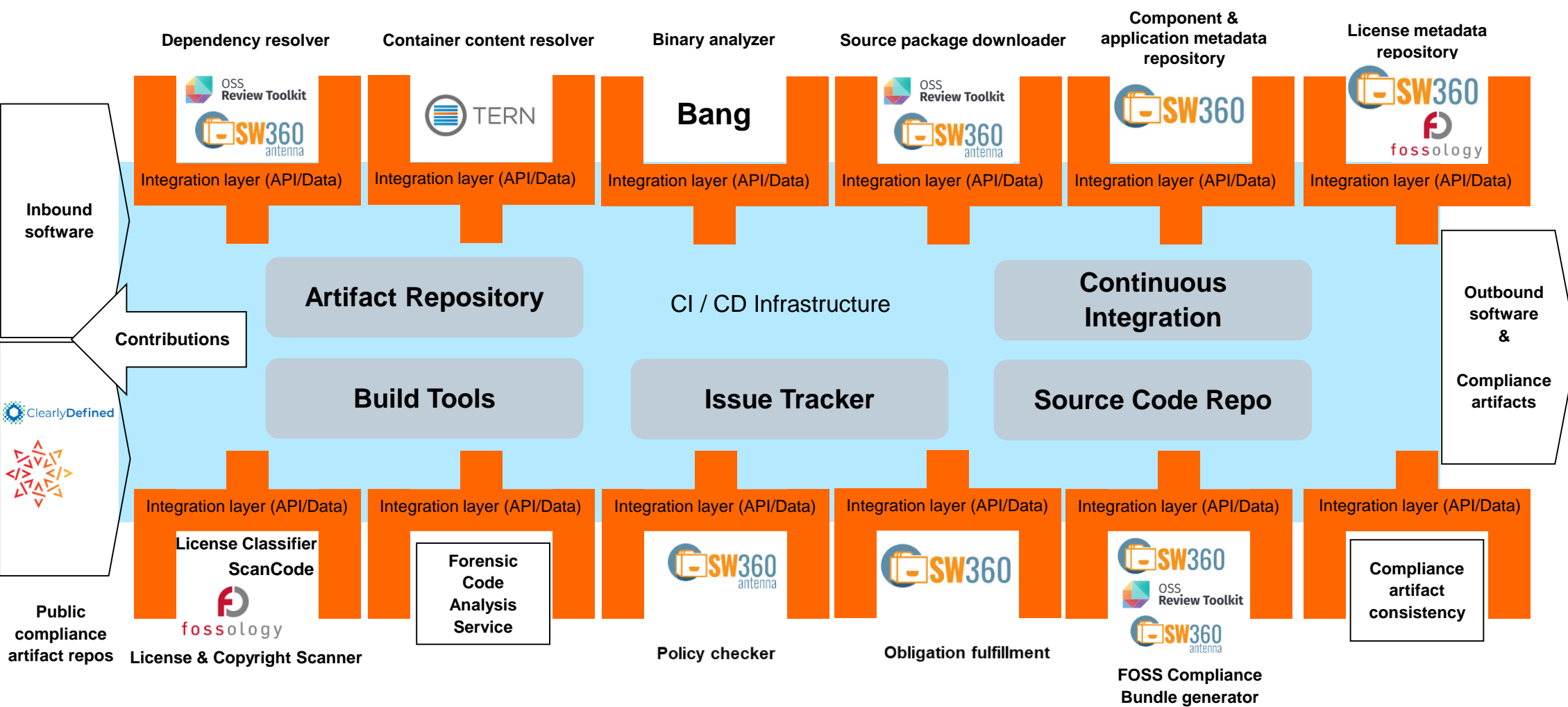
Why an Open Source Solution?

- ▶ End-to-End Open Source Management in Enterprises is crucial for compliant usage of OSS.
- ▶ Avoid vendor lock-in.
- ▶ Ownership of data is crucial to prevent expensive corner cases.
- ▶ Free and open data (“sharing creates value”).
- ▶ Long term solution independent from supplier.
 - ▶ Successful Open Source means defined State-of-the-Art.

Automating Open Source Management

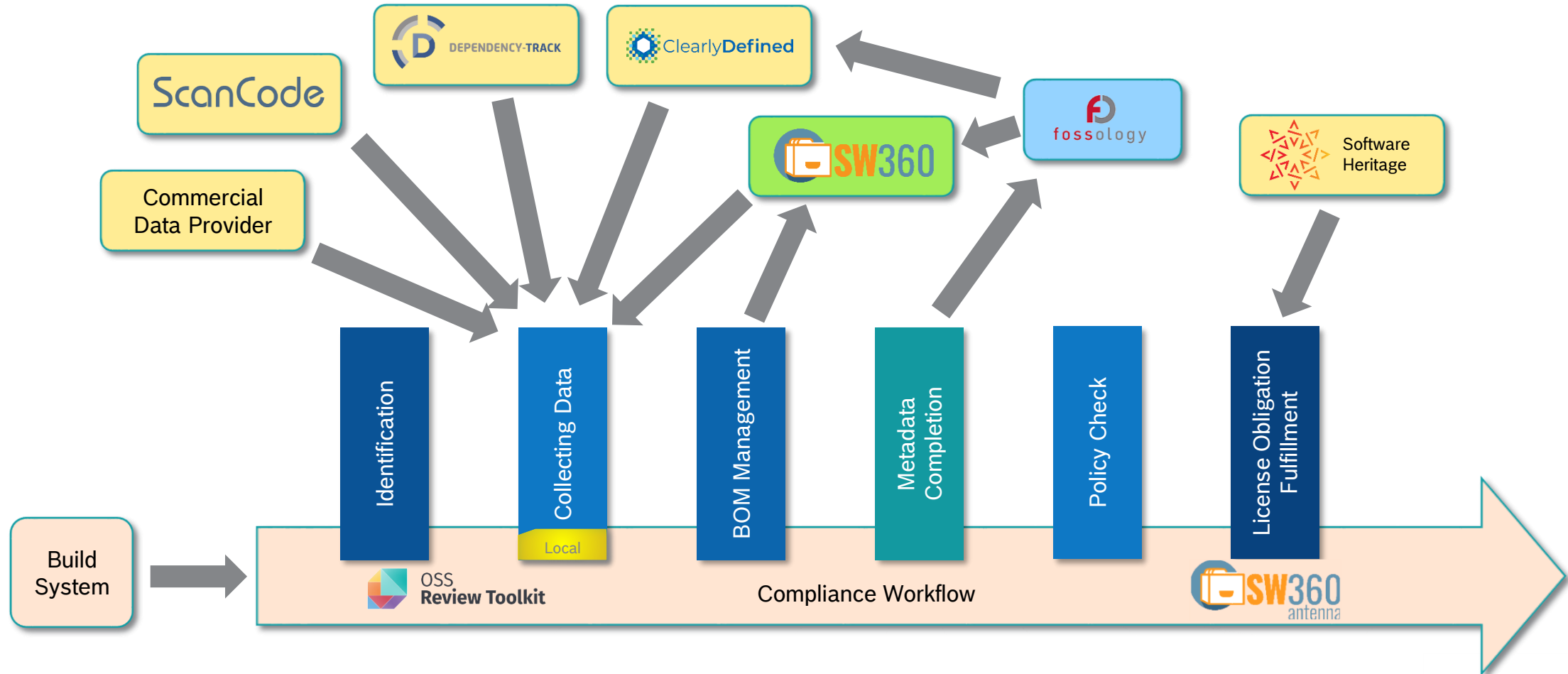
Tooling Landscape

(License: CC0-1.0)



Automating Open Source Management

The Toolchain



DEMO

(OR: TALK IS CHEAP. SHOW ME THE CODE... ER... DEMO!)

Ensuring Open Source Compliance

Outlook

- ▶ Communities like the Tooling Landscape Group strive to support Open Source Management by a Turn-Key Solution based completely on Open Source.
- ▶ Common understanding on the requirements and standardized solutions are coming up on all levels (Processes, Methods, Tooling).
- ▶ Questions – Just get in touch:
 - ▶ <https://groups.io/g/oss-based-compliance-tooling>
 - ▶ <https://github.com/heremaps/oss-review-toolkit>
 - ▶ <https://accounts.eclipse.org/mailling-list/antenna-dev>
 - ▶ <https://dev.eclipse.org/mailman/listinfo/sw360-dev>

THANK YOU!