



OSS Review Toolkit

Using FOSS tools for FOSS reviews in a CI/CD world

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here

About me



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LinkedIn [linkedin.com/in/tsteenbe](https://www.linkedin.com/in/tsteenbe)

Head of Open Source at HERE Technologies
global location company

200+
countries mapped



HERE Maps on board of
100M
vehicles and counting

9,000+ employees in 56 countries

Active contributor



OSS
Review Toolkit
<http://oss-review-toolkit.org>



SPDX

OSS
Tooling
Group

TODO
European Chapter

OPENCHAIN



Work In Progress

OSS Review Toolkit
is pre-release software

First release planned for end of 2019

How to automate?

- **Counsel:** Found OSS with Apache-2.0, BSD-3-Clause, CC-BY-SA-3.0 and GPL-2.0 licenses.
Apache-2.0 and GPL-2.0 are incompatible with each other.
Please explain...
- **Engineer:** Our code includes BSD-3-Clause and we depend on Apache-2.0 **test library**.
GPL-2.0 is **build tooling** and CC-BY-SA-3.0 is docs from StackOverflow
- **Counsel:** So what is distributed to our customers?
- **Engineer:** An **executable** with only our code and BSD-3-Clause
- **Counsel:** OK, ensure your release includes **open source notices** to comply with BSD-3-Clause license

OK / NOT OK = code context + license context + product context

Source code, docs, example, test or build tools?

How is it included?
Which scope? Linking?
Did we change the code?

What are the licenses and resulting obligations?

Patents? Freedom to operate?
Created by us or FOSS community?

What is released to customers?
Artifact, service or website?

What does the contract say?



**FOSS
reviews
is
Firefighting
in most
Organizations**

Challenges

Awareness and understanding

Tens of build/dependency tools in use

Lack of technical consistency

Large volume of scan results

Missing package metadata

Declared ≠ detected licenses

Security vulnerabilities

Why Open Source Solution?

- Solve community problem with a community solution
- CI/CD world requires compliance to move faster
- Developer-focused solution without lower compliance
- Scale cost efficiently
- Customizable to business needs
- Need for long term solution (based on open standards)
- No vendor lock-in

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Excludes
.ort.yml

+

Curations
fix local findings
.ort.yml

Policy Rules

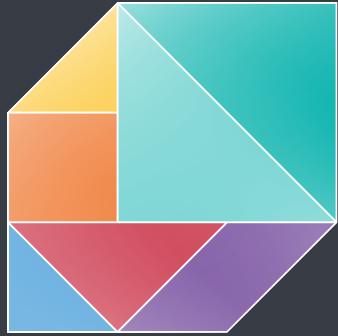
+

Curations
fix metadata/findings

Policy Rules

+

Resolutions
manual override



OSS Review Toolkit

Demo



OSS

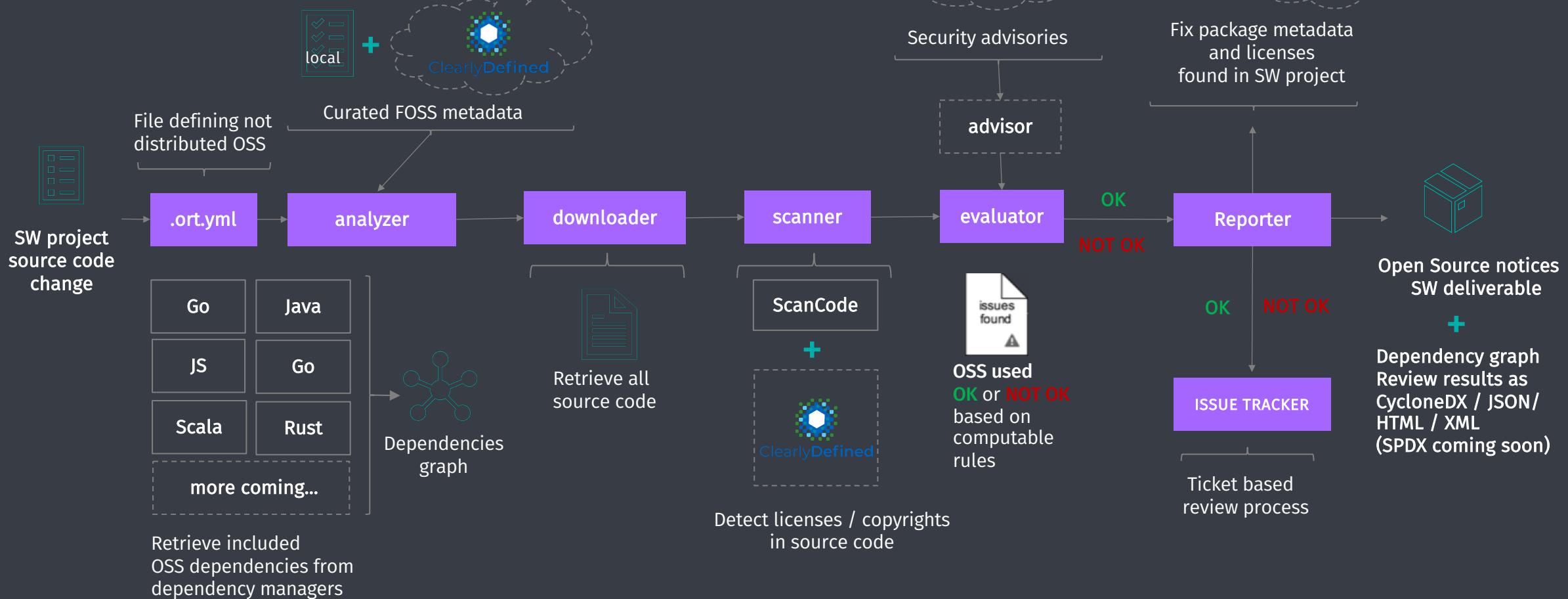
Review Toolkit: scaling OSS reviews in CI/CD (Q3 2019)

LEGEND

built

planned

Goal: enable review **during source creation** by providing
easy, open-source & scalable tooling for developers
to do **basic compliance**
and share results in **open standard formats**



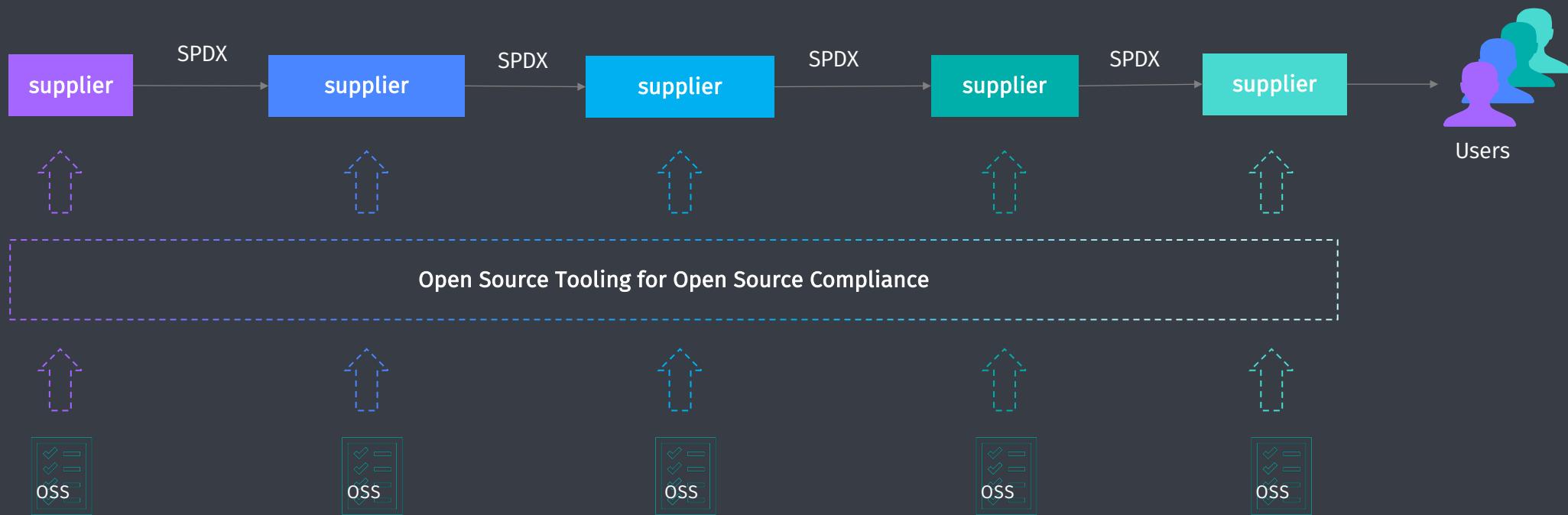


OSS Tooling Group



OPENCHAIN

| | |
|--------------------|---------------|
| ClearlyDefined | Vulnas |
| Fossology | Quartermaster |
| OSS Review Toolkit | SW360 |



Thank you

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HERE Open Source Office

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OSS Review Toolkit

<https://github.com/heremaps/oss-review-toolkit>

Related OSS Projects

<https://oss-compliance-tooling.org>

<https://clearlydefined.io>

<https://spdx.org>

<https://www.openchainproject.org>

<https://www.doubleopen.org>