

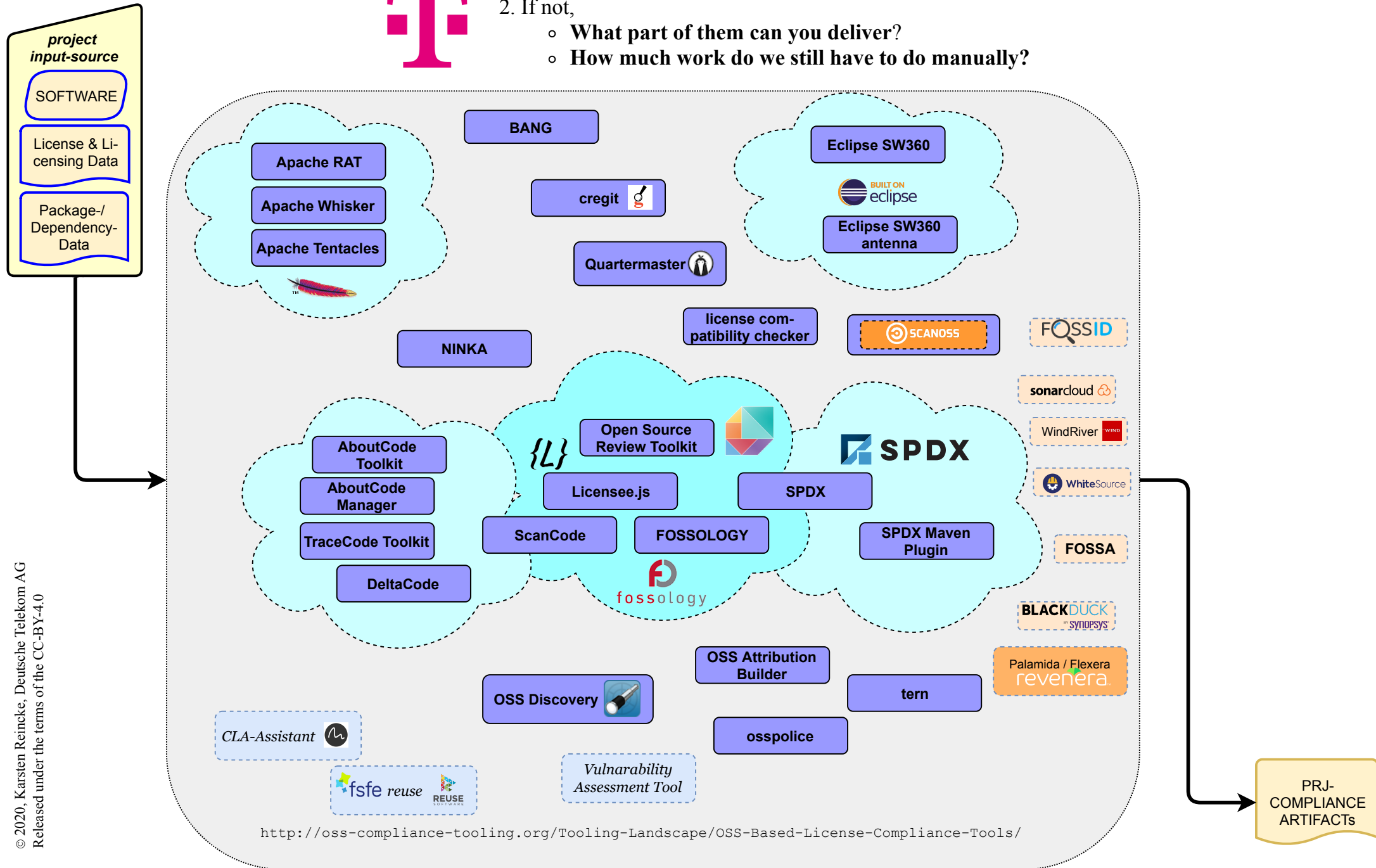
The 3 simple questions from Deutsche Telekom AG to all FOSS compliance tools and companies:



1. Do you deliver us the FOSS compliance artifacts we really need?

2. If not,

- What part of them can you deliver?
- How much work do we still have to do manually?



tdosca-tc...
input-source

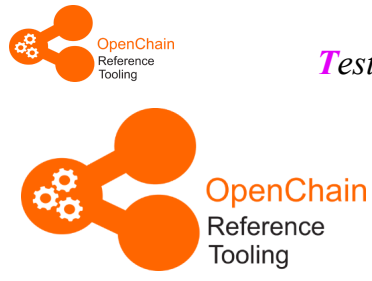
tdosca-tc02
input-source

tdosca-tc01
input-source

SOFTWARE

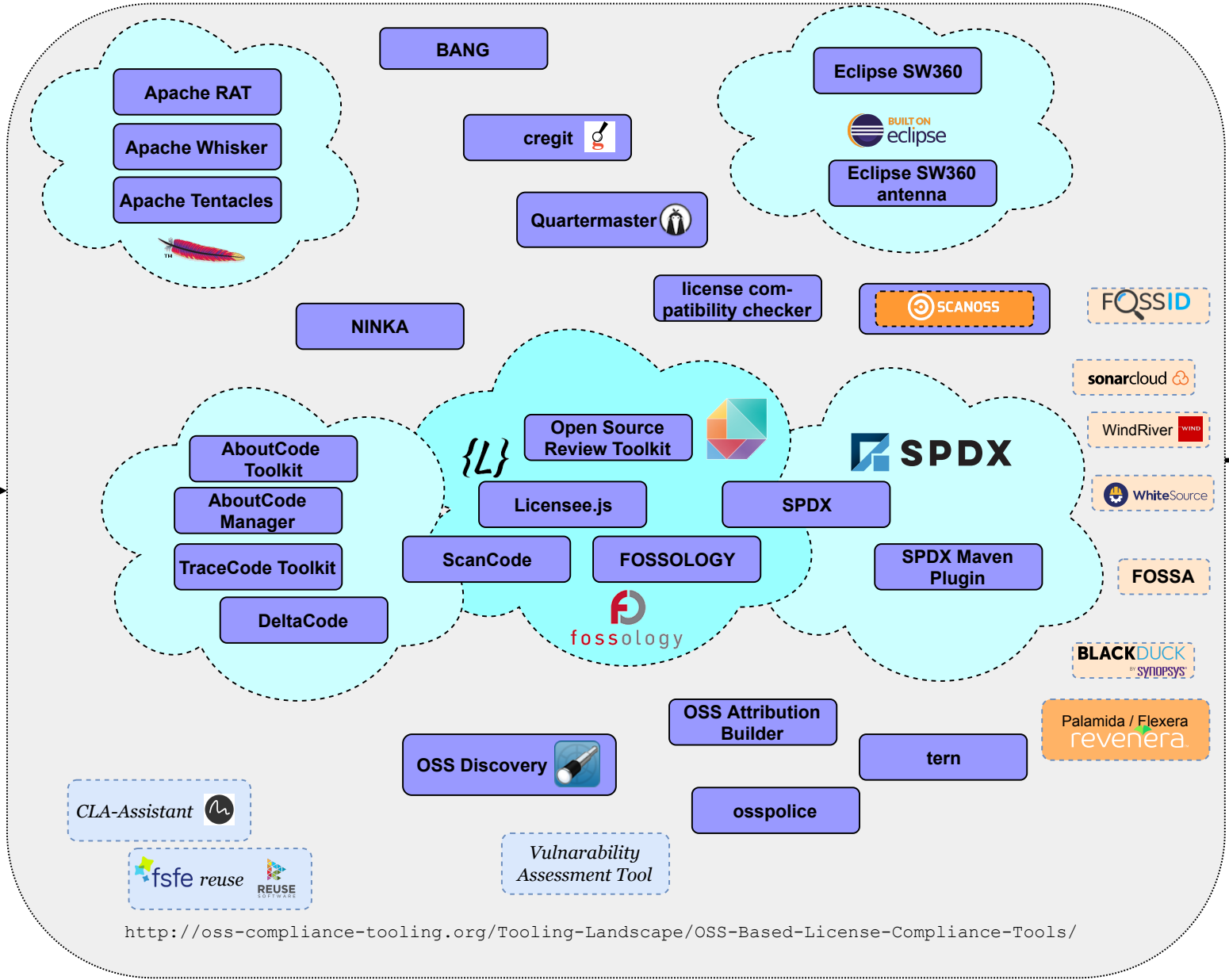
License & Li-
censing Data

Package-/
Dependency-
Data



Test Driven development of Open Source Compliance Artifact composers
<https://github.com/Open-Source-Compliance/tdosca>

1. Do you deliver us the FOSS compliance artifacts we really need?
2. If not,
 - What part of them can you deliver?
 - How much work do we still have to do manually?



<http://oss-compliance-tooling.org/Tooling-Landscape/OSS-Based-License-Compliance-Tools/>

tdosca-tc...
reference-compliance-artifacts

tdosca-tc02
reference-compliance-artifacts

tdosca-tc01-
reference-compliance-artifacts

DOs DON'Ts

Open Source Compliance File

*semantically equivalent

* ?
≠ ?

PRJ-
COMPLIANCE
ARTIFACTs TPL

tdosca-tc...
input-source

tdosca-tc02
input-source

tdosca-tc...
reference-compliance

tdosca-tc02
reference-compliance-artifacts

tdosca-tc01 input-source

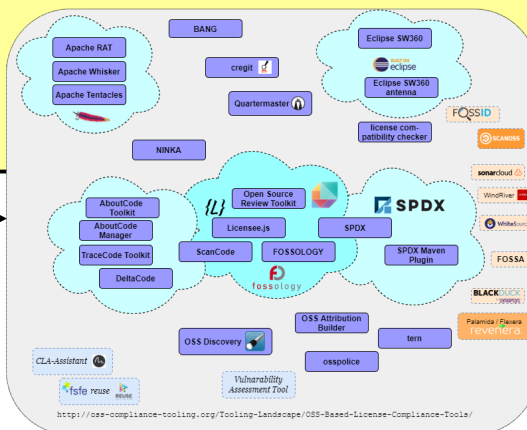
- **README.md** describes in accordance to GitHub tradition
 - the program,
 - installation
 - its usage
 - ...
- **HEALTH** documents in accordance to the programming style
- **License** documents in accordance to the license tradition
- (*Compilable*) **SOURCE CODE**

tdosca-tc01-meta-documents

- **README.md** describes
 - the testcase
- **compliance-traps.md** defines
 - particular challenges embedded into the test case

tdosca-tc01-reference-compliance artifacts

- **bom.csv** = bill of material FOSS embedded into the package
- **dos.yaml** = still open tasks to get a compliant package
- **donts.yaml** = forbidden actions to get a compliant package
- **oscf.md** = Open Source Compliance File which makes the package compliant*
- **prerequisites.csv** = list of the FOSS which must be pre-installed but is not part of the package



*semantically
equivalent

*?
≡?

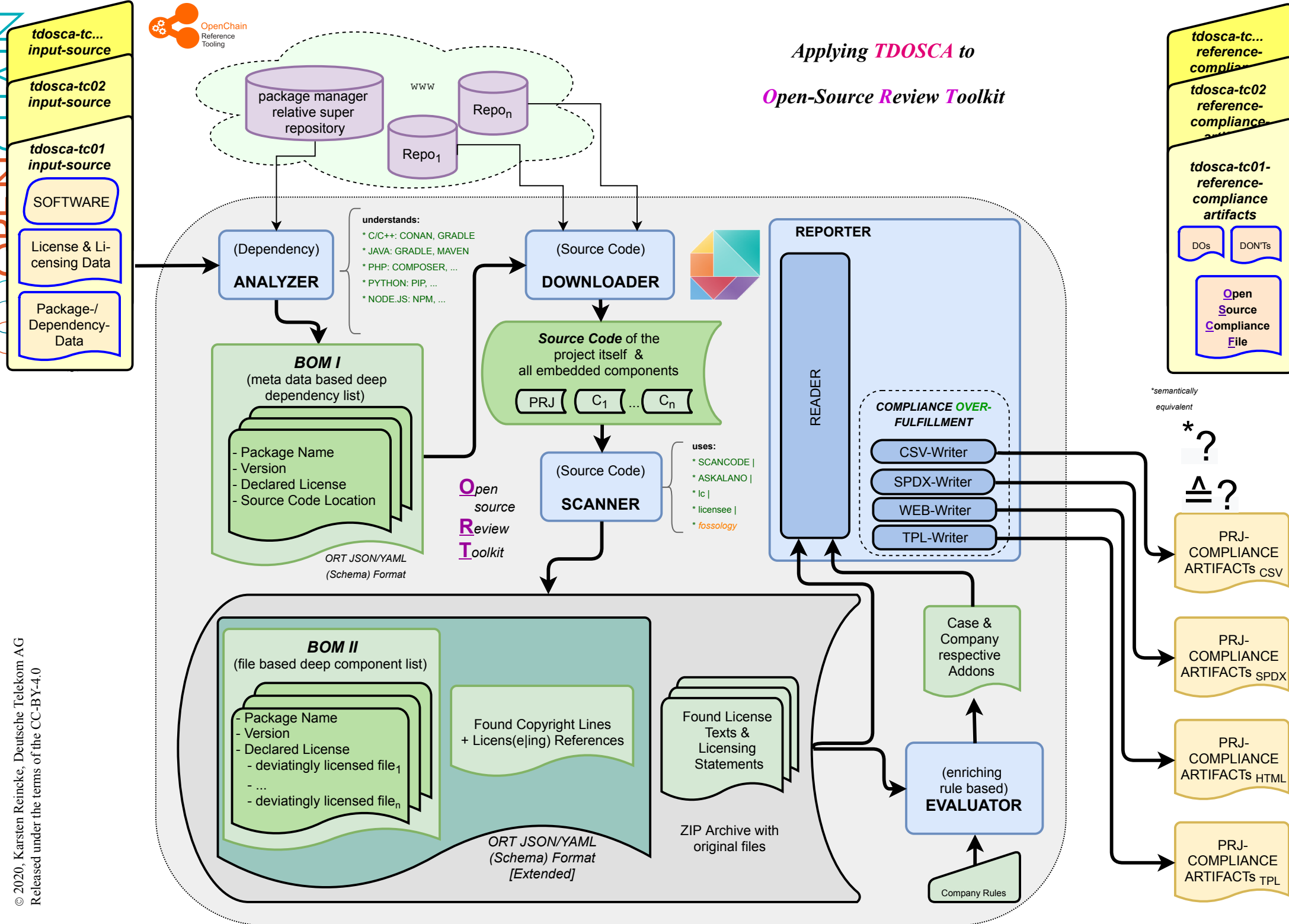
PRJ-
COMPLIANCE
ARTIFACTs TPL

*An unfortunately not entirely appropriate, but very illustrative and stimulating example:

https://www.cisco.com/c/dam/en_us/about/doing_business/open_source/docs/CiscoJabberforWindows-128-1578365187.pdf



Applying **TDOSCA** to **Open-Source Review Toolkit**





Experiences with **TDOSCA** and the **Open-Source Review Toolkit**

tdosca-tc...
input-source

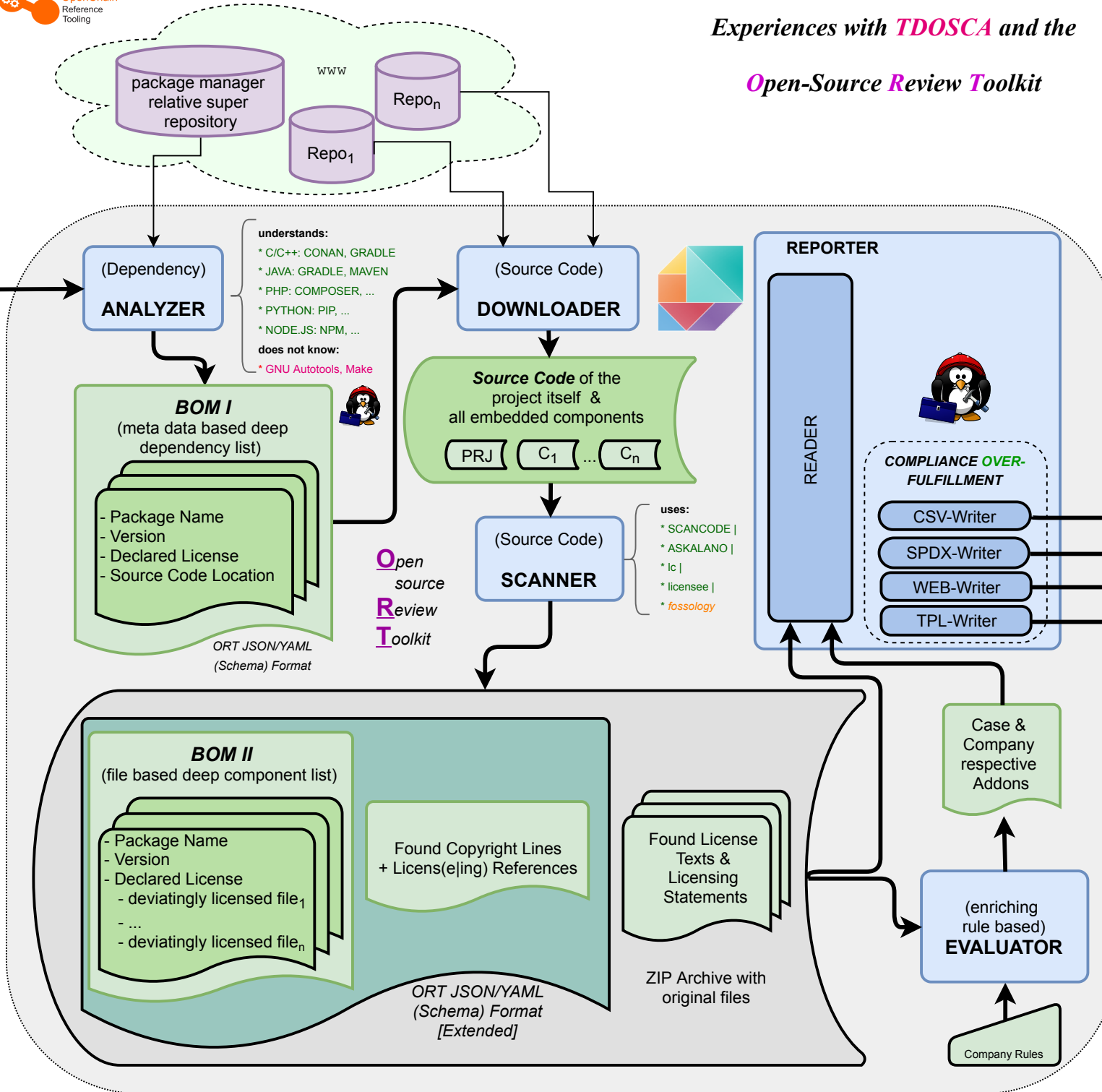
tdosca-tc02
input-source

tdosca-tc01
input-source

SOFTWARE

License & Li-
censing Data

Package-/
Dependency-
Data



tdosca-tc...
reference-compliance

tdosca-tc02
reference-compliance

tdosca-tc01-
reference-compliance
artifacts

DOs

DON'Ts

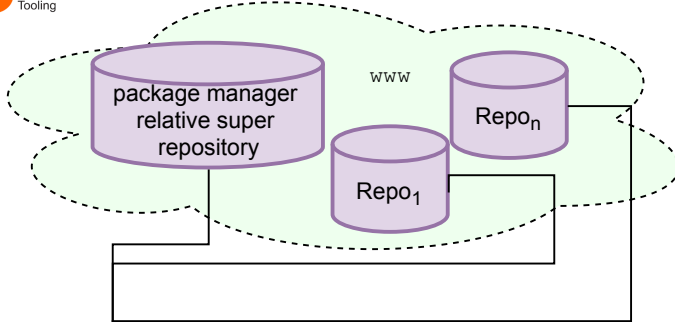
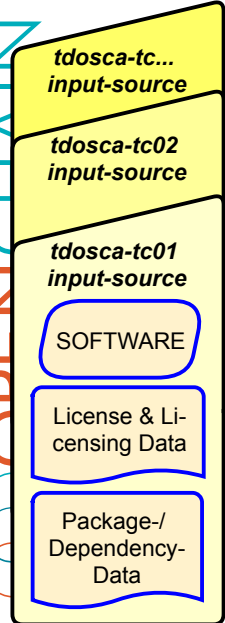
Open
Source
Compliance
File

*semantically equivalent

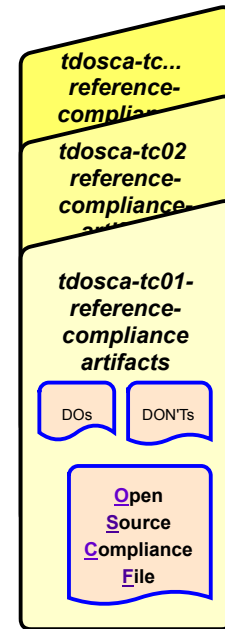
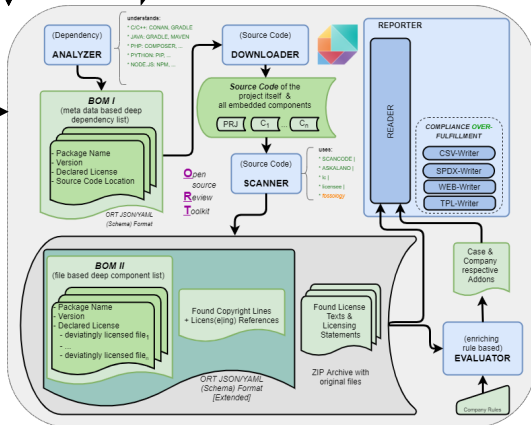
* ?
≡ ?



Hence: Create a multi-dimensional set of test cases



| | C/C++ | C/C++ | C/C++ | JAVA | JAVA | PHP | PYTHON | NODE.Js |
|---------------------|--------|-------|---------------|--------|-------|----------|--------|---------|
| | Gradle | Conan | GNU autotools | Gradle | Maven | Composer | PIP | NPM |
| simple hello world | | | tc01 | | | | | |
| plain hello mworld | | | tc02 | | | | | |
| complex hello world | | | | | | | | |



*semantically equivalent

* ?

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PRJ-COMPLIANCE ARTIFACTs CSV

PRJ-COMPLIANCE ARTIFACTs SPDX

PRJ-COMPLIANCE ARTIFACTs HTML

PRJ-COMPLIANCE ARTIFACTs TPL

