



Curation – together better

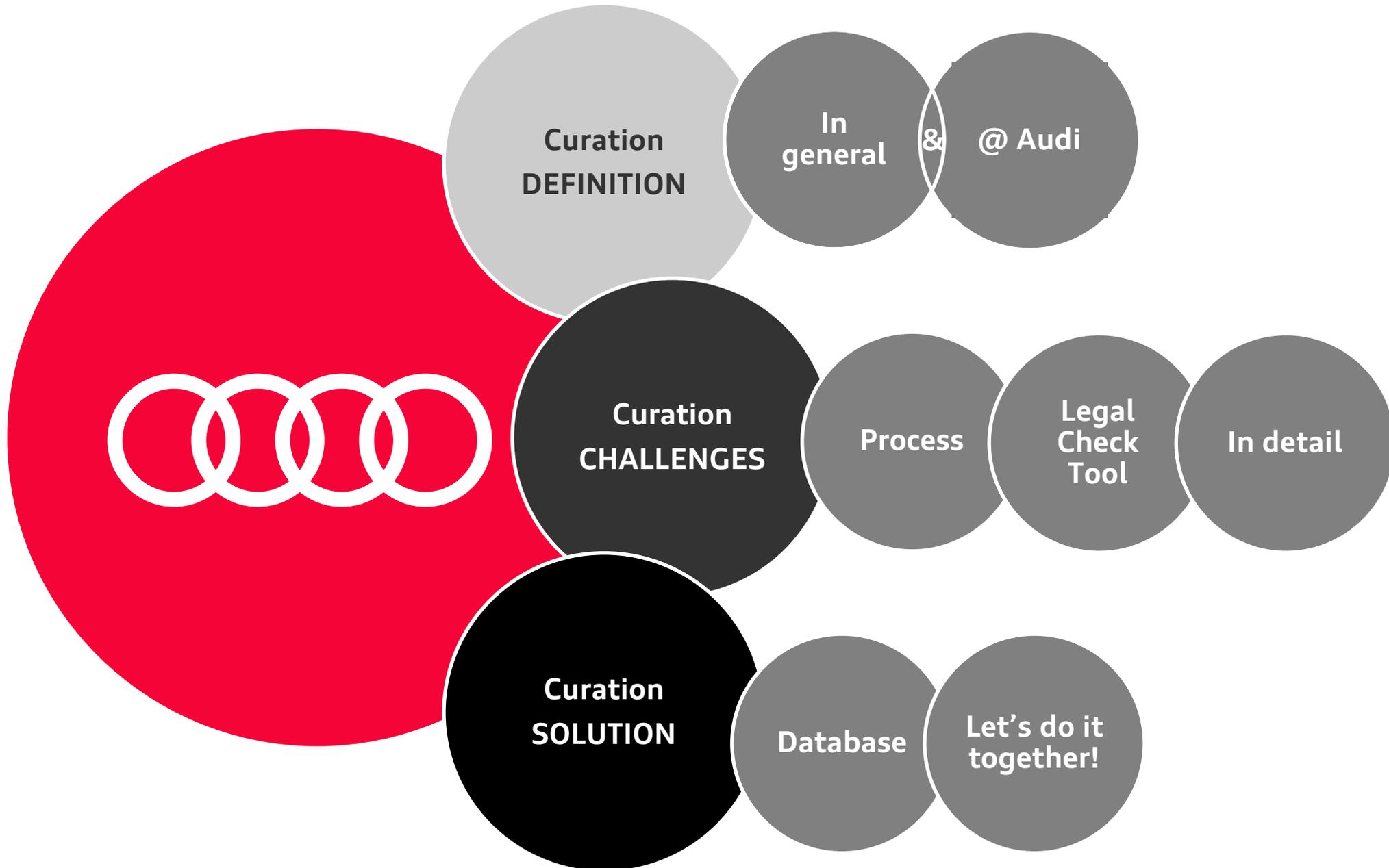
Why do we need a curation database?

OSADL COOL | 14th of December 2022

Dan-Alexander Levien | Audi Legal Service, Head of Team „Legal Consulting Innovations“

Thomas Dulle, M.A., LL.M. (Eur.) | Audi Legal Service, Team „Legal Consulting Innovations“

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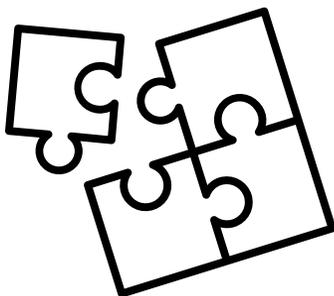


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Curation definition – what is curation?

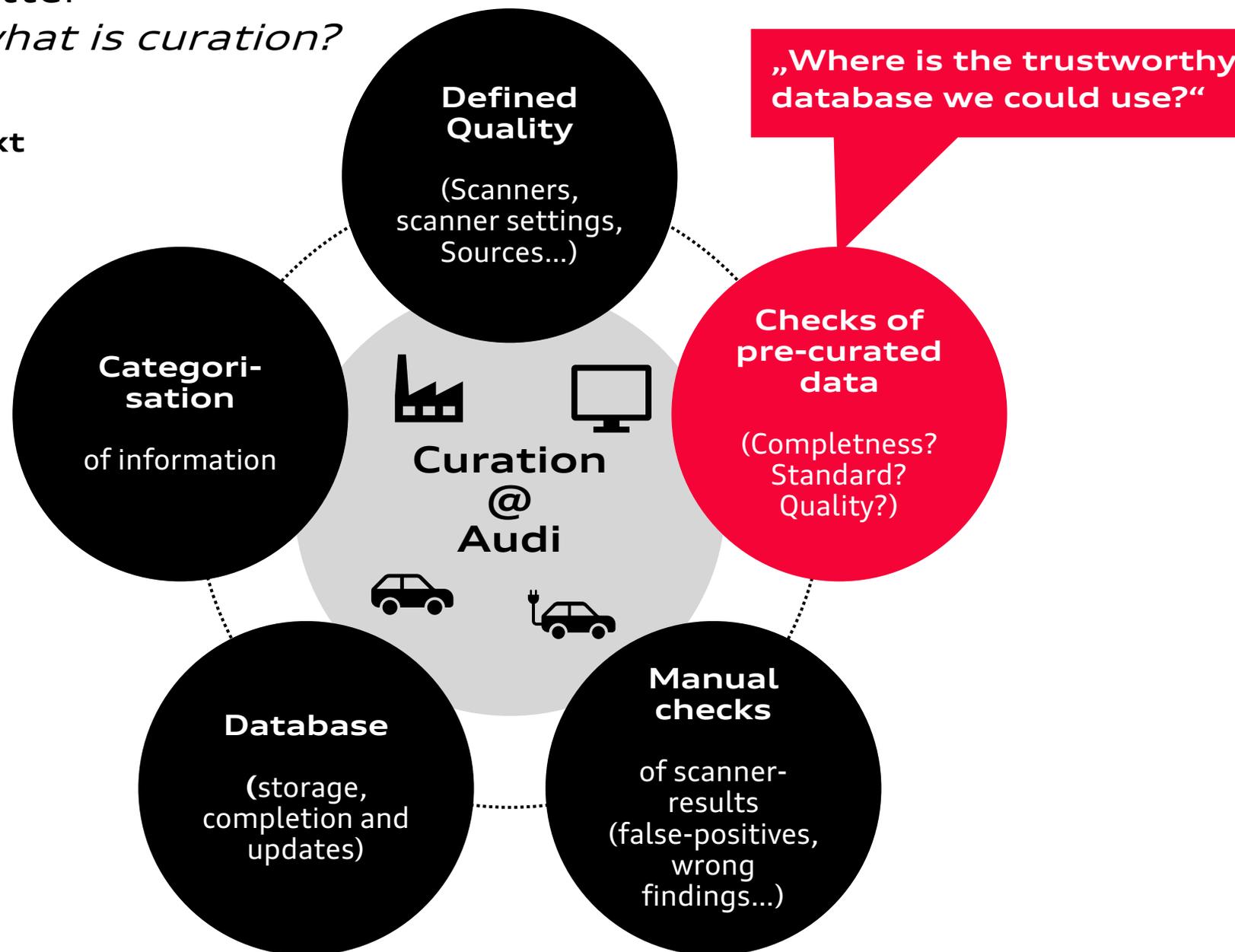
Curation in the FOSS-context in general stands for:

- ...research
- ...check
- ...evaluate
- ...prepare
- ...cultivate



Curation

- is the
- organisation and integration of data based on one or more sources in order to enable
 - higher quality,
 - re-use and
 - reduction of legal risks



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Curation challenges – essential part in the process



Goal:

Open-source licence compliance | automated, efficient, swift, reliable
Licence compliance embedded in the software development process

DEVELOPER/
PROJECT LEAD
(data collection)

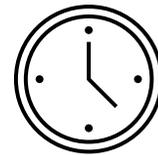


CURATION
(data quality)



Data
transfer
for audit

- **Status quo:**
Developer determines data of the open-source software (OSS) in the project
- **Use of scan tools:**
Scancode, BlackDuck...
- **Challenge:**
Variety of software development processes and tools in the VW-group
- **Vision:**
Greater standardization of sw-development processes and tools in the group
- **Challenge:**
Ensure data quality through curation (preparation) as data basis & facts for audit
- **Solutions:**
 - Manual curation
 - Semi-automated curation
 - Automated curation using curation tools (e.g.: ORT, SW360, FOSSology...)
 - Curation databases (e.g. ClearlyDefined...)



Legal Check @ Audi

- **Automated S-testing**
of the OSS in use

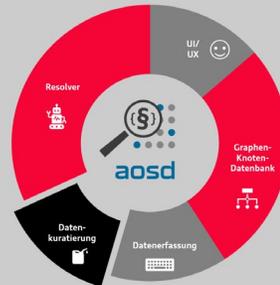


AOSD 2.0



(legal verification of OSS)

- **Status quo:**
 - ✓ AOSD 2.0 online
 - ✓ Resolver operational
 - ✓ Data acquisition and -import ready
 - ✓ UI/UX ready & being optimised

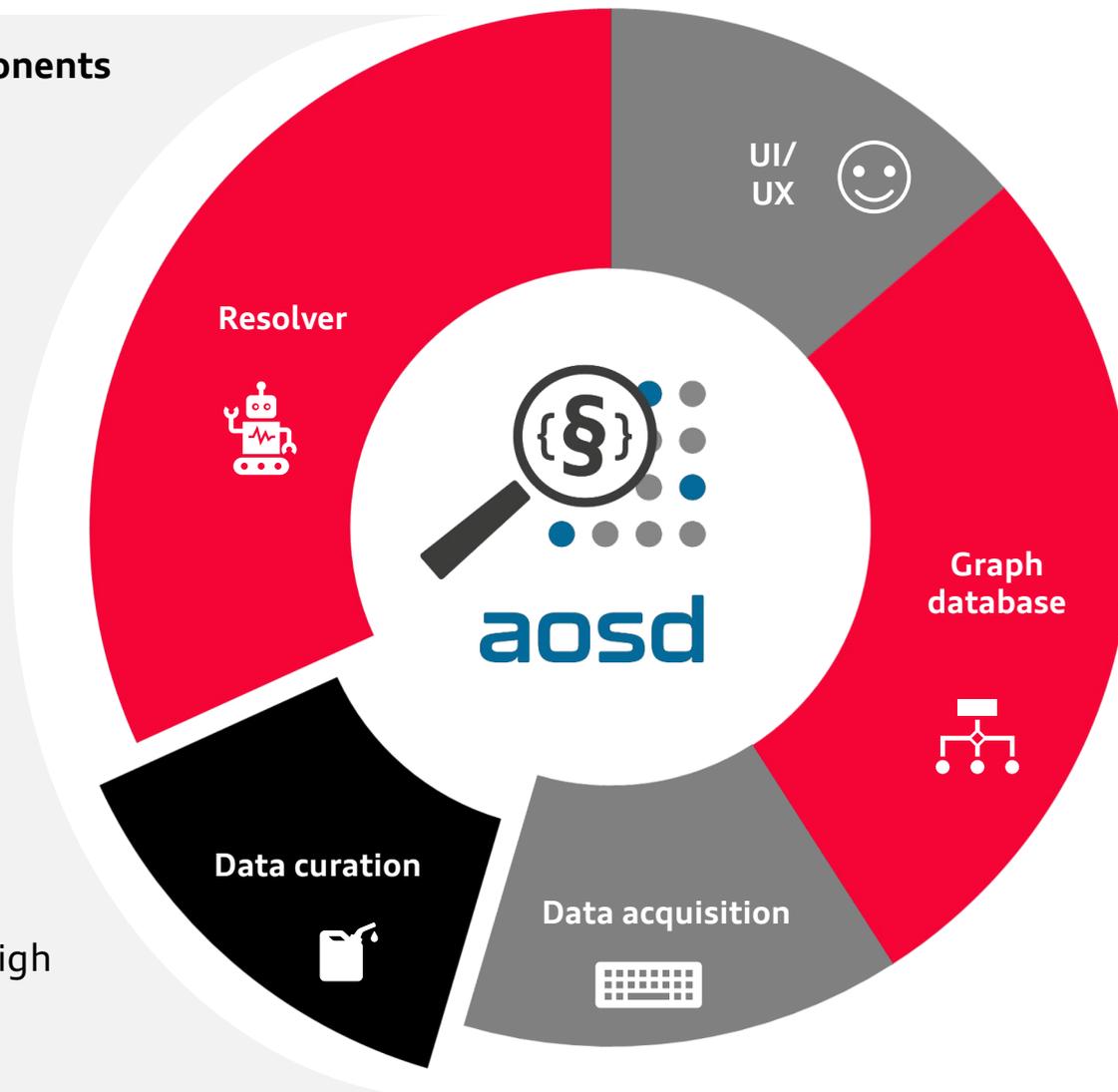


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Curation challenges – Legal check tool @ Audi

Central project components and interfaces:

- Graph database
- Data acquisition
- UI/UX
- Resolver
 - Heart of the AOSD 2.0
 - Automated legal check according to coordinated audit logic
- Data curation
 - High quality of the datasets enables high quality results



Audi Open Source Diagnostics 2.0

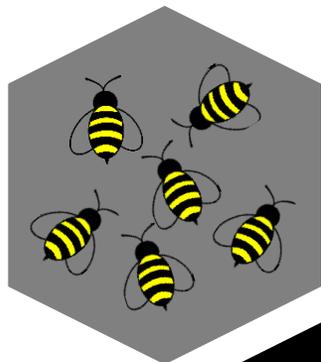
Highlights of the AOSD 2.0:

- Licence management and compliance tool for software developers and lawyers
- Extensive automation of input and verification
- Increased efficiency in data entry and verification, resulting in cost reduction
- Can be used throughout the group
- Contribution to digitalisation
- Connection to VW group systems
- Quantum leap for open-source compliance in the VW Group
- Transparent project management in Atlassian Confluence & JIRA
- Currently no alternative known on the market

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Curation challenges – in detail

 Status quo: **use of Open Source Software (OSS)**
→ requires **licence compliance**
→ requires **data curation** before testing
→ requires high **curation** effort (time & money)



Resources

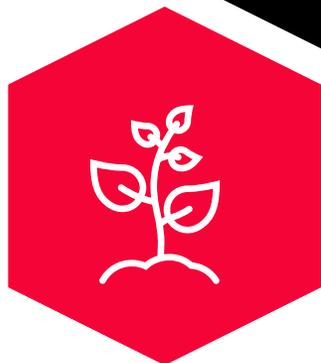
Staffing
Costs
Time



Quality



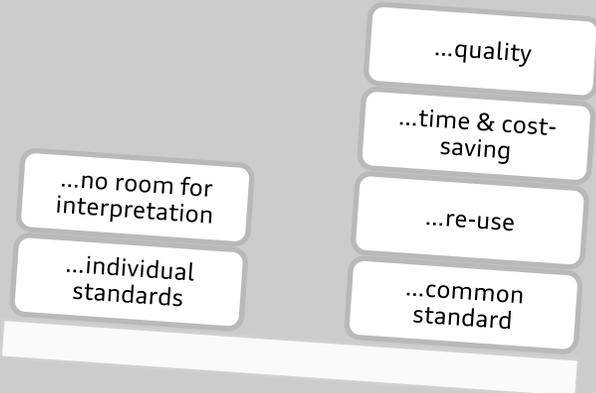
Error-prone processing while curating data manually
Trust vs. individual quality standards



Environment

Energy consumption of software scans
Limited re-use
Emissions of CO₂


Idea: Establishment, co-filling and co-use of a trustworthy „curation database“ in the OSS community

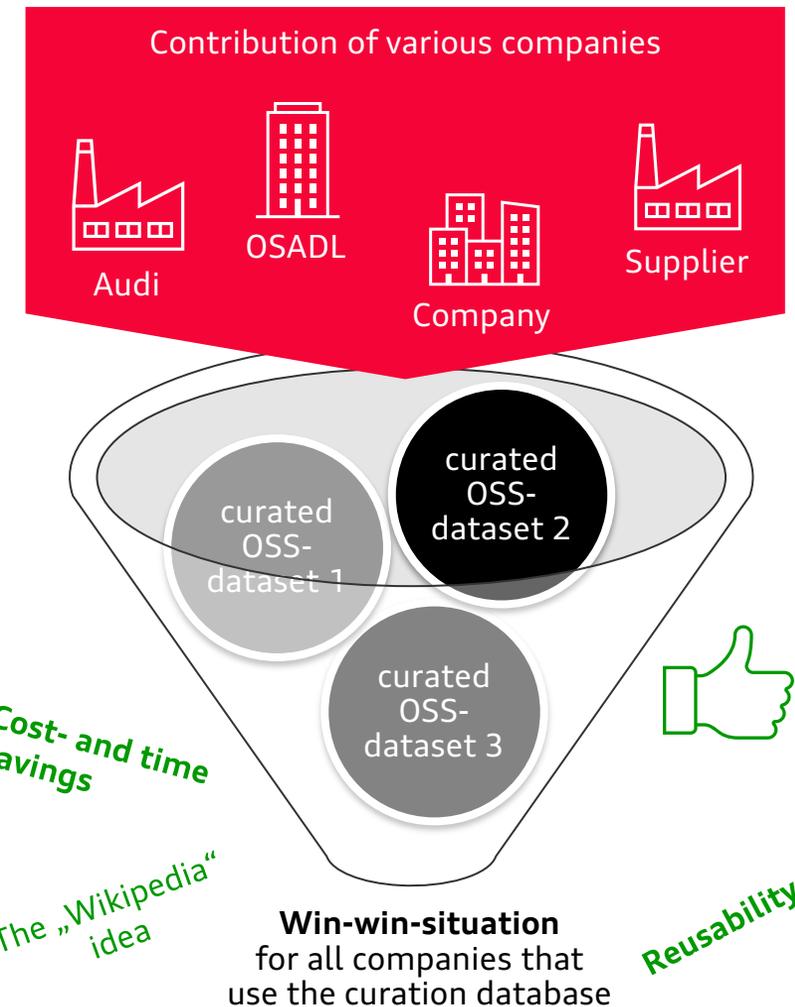


-  Risk minimization is essential for the successful use of FOSS
-  OSS-licence compliance requires curated data sets
-  Which source provides sufficient quality for Audi?

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Curation solution – database

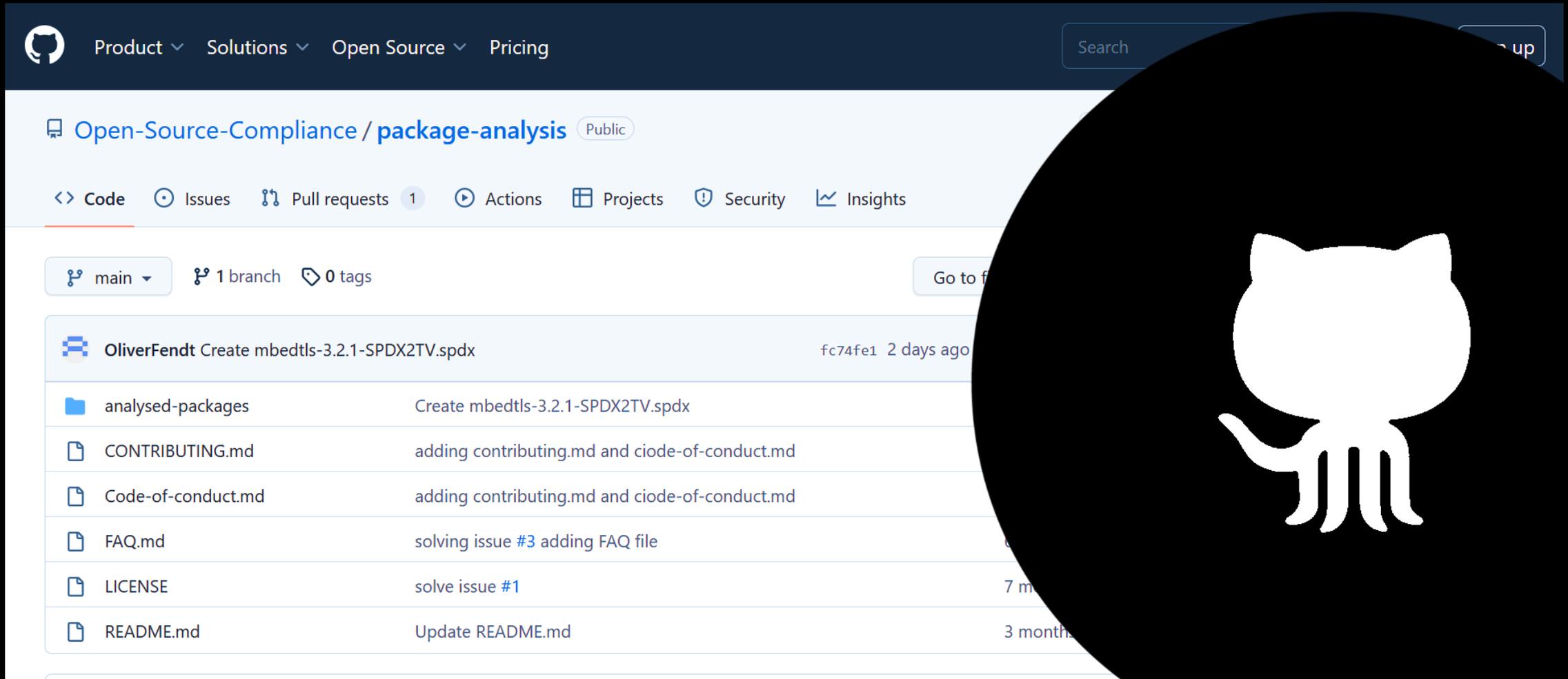
- > **Database:**
 - > common curation standard
 - > „housekeeper“ OSADL eG
 - > open-source-database
 - > worldwide
 - > open for all participants and their contributions
- > **Potential contribution:**
 - > Advantages / keyfacts
 - > Synergies: Re-use, reduced time and costs
 - > Pull effect through contributions
 - > Curated data sets are not relevant to competition
 - > Curated data sets do not require confidentiality
- > **Result:**
 - > A curation database for all co-using and motivated companies
 - > You or your company can already participate and benefit from the curation database and simplify OSS compliance in your company!



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Curation solution – let's do it together

> Database online @ GitHub:



The screenshot shows the GitHub interface for the repository 'Open-Source-Compliance / package-analysis'. The repository is public and has a 'main' branch with 1 branch and 0 tags. The commit history shows several recent changes:

Commit	Author	Message	Time
fc74fe1	OliverFendt	Create mbedtls-3.2.1-SPDX2TV.spdx	2 days ago
		analysed-packages Create mbedtls-3.2.1-SPDX2TV.spdx	
		CONTRIBUTING.md adding contributing.md and ciode-of-conduct.md	
		Code-of-conduct.md adding contributing.md and ciode-of-conduct.md	
		FAQ.md solving issue #3 adding FAQ file	
		LICENSE solve issue #1	7 m
		README.md Update README.md	3 month

A large, semi-transparent GitHub logo is overlaid on the right side of the screenshot.

Thank you for your interest



Linkedin: 

e-mail: Dan-Alexander.Levien@audi.de



Linkedin: 

e-mail: Thomas.Dulle@audi.de