

How to facilitate Open Source software licensing and get it right?

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Open Source Automation Development Lab (OSADL) eG

Agenda

- What is OSADL and why was it founded?
- What are the two most frequent questions we have answered over the past 10 years of helping companies license open source software?
 1. Users asked: What precisely do we have to do to fulfill the obligations of particular Open Source licenses?
 2. Companies asked: Which tasks must be assigned to which employees to achieve company-wide copyright license compliance?

15 years ago at a purchase department ...

Project lead: "We need to get someone to develop a Linux driver for our new machine controller. Here's a purchase order for the work."

Purchase department: "Okay. Let me check the purchase order to make sure it follows our standard procedure: NDA to be executed, source going into company's safe ... "

Project lead: "Nope, we're going with Open Source - source gets published to the Internet."

Purchase department: "What? We're paying for the development but the source code goes out to the Internet? If **everybody** can use the source code, why are **we** the only ones paying for this? No way this can fly!"



GOLD MEMBERS

SILVER MEMBERS

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BRONZE MEMBERS

AS OF FEBRUARY 2022

... but then came OSADL

OSADL initially was a purchase community of "Open Source" Software.

OSADL promotes and coordinates the development of Open Source software for the automation industry – and also for all others who use Open Source software in products.

Over time, OSADL has applied the community approach to a whole range of other services:

- Legal support, legal assessment, best practices, audits
- Quality assessment and assurance of Open Source software, technical support
- Safety certification
- Networking, training courses, seminars
- Marketing



How to facilitate Open Source software licensing and get it right?
OSPO OnRamp virtual conference on February 18, 2022



Associate and academic OSADL members

OSADL

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How to facilitate Open Source software licensing and get it right?
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Most frequently asked question #1

Users asked:

What precisely do we have to do to fulfill the obligations of particular Open Source licenses?

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Users asked:

What precisely do we have to do to fulfill the obligations of particular Open Source licenses?

OSADL's answer:

Use our Open Source License Obligations Checklists

Problems with Open Source licenses

- Open Source licenses grant a number of **common rights** for Open Source software, but the **obligations** of different licenses may **vary greatly**.
- License texts are written by **different** people with **different** expectations, educations and writing skills.
- **All** license obligations of **all** licenses contained in a project have to be fulfilled.
- A **common understanding** of license obligations is required.

Open Source License Obligations Checklists

- ☑ **USE CASE Source code delivery** Ref.
 - YOU MUST Provide Copyright notice** Ref. Interpretation △ All or some
 - ATTRIBUTE Highlighted** Ref.
 - ATTRIBUTE Appropriately** Ref.
 - YOU MUST Provide Warranty disclaimer** (Warranty disclaimer ⇔) Ref.
 - ATTRIBUTE Highlighted** Ref.
 - ATTRIBUTE Appropriately** Ref.
 - YOU MUST NOT Modify License notices** Ref.
 - YOU MUST NOT Modify Warranty disclaimer** (Warranty disclaimer ⇔) Ref.
 - YOU MUST Provide License text** Ref.
- ☑ **IF Software modification** Ref.
 - YOU MUST Grant License** Ref.
 - ATTRIBUTE Original license** Ref.
 - YOU MUST Provide Modification notice** Ref.
 - YOU MUST Provide Modification date** Ref.
- ☑ **IF Interactive AND Display License announcement** Ref.
 - YOU MUST Display License announcement** Ref.
 - YOU MUST Display Copyright notice** Ref. Interpretation △ All or some
 - YOU MUST Display Warranty disclaimer** Ref.
 - YOU MUST Reference License text** Ref.
 - YOU MUST NOT Restrict Granted rights** Ref. Interpretation △ Legal and/or other means

<https://www.osadl.org/OSLOC>

Checklist elements

- “Language” elements, e.g.
 - **YOU MUST** (to encode a license obligation)
 - **YOU MUST NOT** (to encode a license prohibition)
- Actions to encode what MUST and what MUST NOT be done, e.g.
 - YOU MUST *Provide*
 - YOU MUST NOT *Restrict*
- Objects to the actions, e.g.
 - YOU MUST *Provide* **Copyright notice**
 - YOU MUST NOT *Restrict* **Granted rights**

Checklist elements

- “Language” elements

- **YOU MUST** (to encode a license obligation)
- **YOU MUST NOT** (to encode a license prohibition)

The **YOU MUST NOT** language construct specifies an individual license prohibition, i.e. what not to do, probably among other things, to become license compliant. It may optionally be followed by indented language constructs such as **ATTRIBUTE** that further describe the license prohibition.

- Actions to encode what **MUST** or **MUST NOT** be done, e.g.

- **YOU MUST *Provide***
- **YOU MUST NOT *Restrict***

The action to **Restrict** means to partly or completely withdraw formerly granted permissions or supplied access conditions.

- Objects to the actions, e.g.

- **YOU MUST *Provide* Copyright notice**
- **YOU MUST NOT *Restrict* Granted rights**

The term **Granted rights** describes contractual permissions of use or access that otherwise would not exist.

Example: BSD-2-Clause

- ☑ USE CASE **Source code delivery** [Ref.](#)
 - YOU MUST *Forward* **Copyright notices** [Ref.](#)
 - YOU MUST *Forward* **License text** [Ref.](#)
 - YOU MUST *Forward* **Warranty disclaimer** [Ref.](#)
- ☑ USE CASE **Binary delivery** [Ref.](#)
 - YOU MUST *Provide* **Copyright notices** In **Documentation OR Distribution material** [Ref.](#)
 - YOU MUST *Provide* **License text** In **Documentation OR Distribution material** [Ref.](#)
 - YOU MUST *Provide* **Warranty disclaimer** In **Documentation OR Distribution material** [Ref.](#)

Example: BSD-2-Clause with selection

USE CASE **Source code delivery** [Ref.](#)

USE CASE **Binary delivery** [Ref.](#)

YOU MUST *Provide* **Copyright notices** In **Documentation OR Distribution material** [Ref.](#)

YOU MUST *Provide* **License text** In **Documentation OR Distribution material** [Ref.](#)

YOU MUST *Provide* **Warranty disclaimer** In **Documentation OR Distribution material** [Ref.](#)

Example: BSD-2-Clause, printed checklist

USE CASE Binary delivery

- YOU MUST *Provide* Copyright notices In Documentation OR Distribution material
- YOU MUST *Provide* License text In Documentation OR Distribution material
- YOU MUST *Provide* Warranty disclaimer In Documentation OR Distribution material

Example: BSD-2-Clause, at QA department

USE CASE Binary delivery

- YOU MUST *Provide* Copyright notices In Documentation OR Distribution material
- YOU MUST *Provide* License text In Documentation OR Distribution material
- YOU MUST *Provide* Warranty disclaimer In Documentation OR Distribution material

Example: GPL-2.0-only (excerpt)

☐ USE CASE **Source code delivery** [Ref.](#)

☐ USE CASE **Binary delivery** [Ref.](#)

Example: GPL-2.0-only (excerpt)

USE CASE **Source code delivery** [Ref.](#)

USE CASE **Binary delivery** [Ref.](#)

EITHER [Ref.](#)

YOU MUST *Provide* **Source code** [Ref.](#)

OR

YOU MUST *Provide* **Written offer** (Written offer ⇔) [Ref.](#)

Example: GPL-2.0-only (excerpt)

USE CASE **Source code delivery** [Ref.](#)

USE CASE **Binary delivery** [Ref.](#)

EITHER [Ref.](#)

YOU MUST **Provide Source code** [Ref.](#)

OR

YOU MUST **Provide Written offer** (*Written offer* ⇔) [Ref.](#)

ATTRIBUTE **Duration** 3 years [Ref.](#)

ATTRIBUTE To **Any third party** [Ref.](#)

ATTRIBUTE **No profit** [Ref.](#)

ATTRIBUTE **Delayed source code delivery** [Ref.](#)

ATTRIBUTE **Machine-readable** [Ref.](#)

ATTRIBUTE **Customary medium** [Ref.](#)

ATTRIBUTE **Including Tool chain information** [Ref.](#)

ATTRIBUTE **Including Installation scripts** [Ref.](#)

Example: GPL-2.0-only with reference

✓OR

YOU MUST *Provide Written offer* (Written offer ⇔) [Ref.](#)

ATTRIBUTE **Duration** 3 years [Hide ref.](#)

b) Accompany it with a written offer, **valid for at least three years**, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

ATTRIBUTE To **Any third party** [Ref.](#)

ATTRIBUTE **No profit** [Ref.](#)

ATTRIBUTE **Delayed source code delivery** [Ref.](#)

ATTRIBUTE **Machine-readable** [Ref.](#)

ATTRIBUTE **Customary medium** [Ref.](#)

ATTRIBUTE **Including Tool chain information** [Ref.](#)

ATTRIBUTE **Including Installation scripts** [Ref.](#)

Approval and feedback

Request for approval of checklists project participants

Please assist us to validate the above text. When clicking on the below button, you confirm that you approve the text in its current version taking into account the disclaimer below the text.

Approved

Request for feedback from checklists project participants

Please assist us to improve the above text taking into account the disclaimer below the text. Your feedback will be integrated into the text as soon as possible, and you will be notified. We gratefully acknowledge any comments, amendments and additions.

You may type or paste your text here.

Submit

Additional information – Interpretation

- Where a license is unclear, a possible interpretation is given.

YOU MUST NOT *Restrict* **Granted rights**

Ref.

Interpretation

⚠ *Legal and/or other means*

Additional information – Interpretation

- Where a license is unclear, a possible interpretation is given.

YOU MUST NOT *Restrict* **Granted rights**

Ref.

Hide interpretation

Legal and/or other means: The named 'further restrictions' may relate to the restrictions of this license and, thus, prohibit further restricting legal clauses; however, it also is conceivable that any other means such as technical hindrance methods are included in the meaning of 'further restrictions'.

Additional information – Copyleft clause

- Obligations for derivative works: Is there a copyleft clause? (e.g. MPL-2.0: Yes)

Copyleft clause

- Yes

All distribution of Covered Software in Source Code Form, including any Modifications that You create or to which You contribute, **must be under the terms of this License**. You must inform recipients that the Source Code Form of the Covered Software is governed by the terms of this License, and how they can obtain a copy of this License. You may not attempt to alter or restrict the recipients' rights in the Source Code Form.

Additional information – Copyleft clause

- Obligations for derivative works: Is there a copyleft clause? (e.g. OpenSSL: Questionable)

Copyleft clause

- Questionable

The licence and distribution terms for any publically available version or derivative of this code cannot be changed. i.e. this code cannot simply be copied and put under another distribution licence [including the GNU Public Licence.]

Questionable copyleft: The final statement of the appended SSLeay License "The licence and distribution terms for any publically available version or derivative of this code cannot be changed" normally must be interpreted as a copyleft clause, but there is no general consensus on this interpretation. Therefore, a recommendation on the compatibility of the OpenSSL license cannot be given.

Additional information – Patent hints

- Does the license contain patent hints? (e.g. EPL-2.0)

Patent hints

- Yes

b) Subject to the terms of this Agreement, each Contributor hereby grants Recipient a non-exclusive, worldwide, royalty-free patent license under Licensed Patents to make, use, sell, offer to sell, import and otherwise transfer the Contribution of such Contributor, if any, in Source Code or other form. This patent license shall apply to the combination of the Contribution and the Program if, at the time the Contribution is added by the Contributor, such addition of the Contribution causes such combination to be covered by the Licensed Patents. The patent license shall not apply to any other combinations which include the Contribution. No hardware per se is licensed hereunder.

c) Recipient understands that although each Contributor grants the licenses to its Contributions set forth herein, no assurances are provided by any Contributor that the Program does not infringe the patent or other intellectual property rights of any other entity. Each Contributor disclaims any liability to Recipient for claims brought by any other entity based on infringement of intellectual property rights or otherwise. As a condition to exercising the rights and licenses granted hereunder, each Recipient hereby assumes sole responsibility to secure any other intellectual property rights needed, if any. For example, if a third party patent license is required to allow Recipient to Distribute the Program, it is Recipient's responsibility to acquire that license before distributing the Program.

If Recipient institutes patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Program itself (excluding combinations of the Program with other software or hardware) infringes such Recipient's patent(s), then such Recipient's rights granted under Section 2(b) shall terminate as of the date such litigation is filed.

Additional information – Templates

- Text templates for various circumstances:
 - Acknowledgment
 - Written offer
 - Warranty disclaimer
 - Notices

Additional information – Templates

- e.g. GPL-2.0: Written offer

This product contains software components that are licensed by the holder of the rights as free software, or Open Source software, under GNU General Public License, Version 2. The source code for these software components can be obtained from us on a data carrier (CD, DVD or USB stick) by submitting a request to our customer service department at the following address within three years after delivery of the product by us:

[Company name]

[Contact]

[Address]

Please provide the following product information

[Name]

[Serial number]

[Date of delivery]

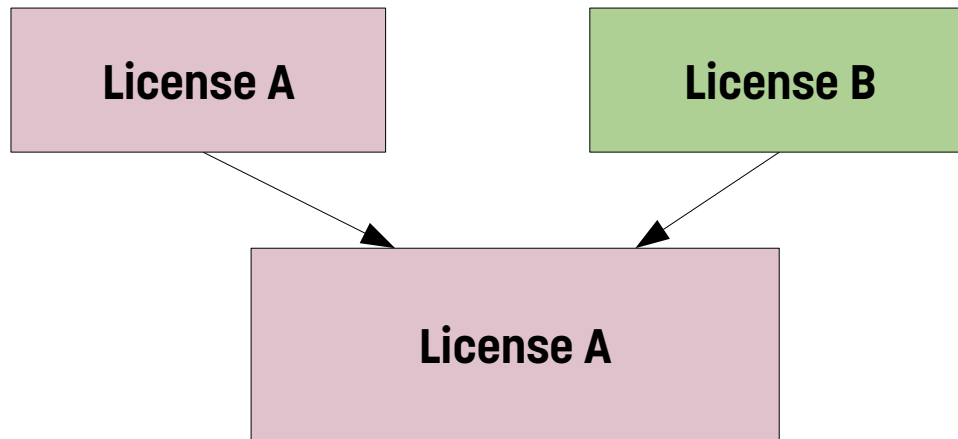
and transfer 5 euros to the account [account information] to cover the costs of providing the data carrier and shipping it.

License compatibility

- Copyright allows to combine software components under different licenses.
- Copying and distributing such a **combined (or derivative) work** is only possible if the licenses are compatible.
- Compatibility is given when there are **no conflicting license obligations or prohibitions**.
- The compatibility of all licenses of the OSADL Open Source License Obligations Checklists has been evaluated.

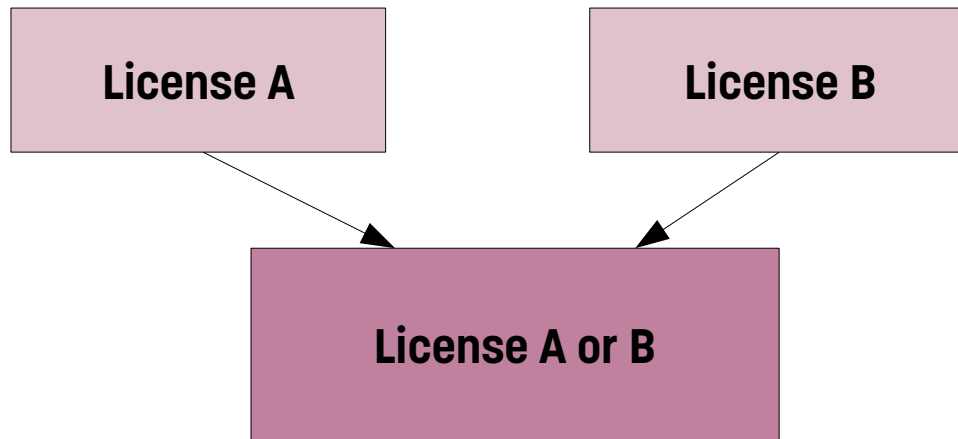
Unilateral license compatibility

- If two licenses are **unilaterally** compatible, the combined work has to be licensed under one (leading) license.



Bilateral license compatibility

- If two licenses are **bilaterally** compatible, the combined work may be licensed under either of the involved licenses.



License compatibility

- Guidelines:
 - Copyleft licenses are not compatible with each other (exception by explicit declaration).
 - Permissive licenses are bilaterally compatible.
 - Permissive licenses are unilaterally compatible with copyleft licenses (exception if additional obligations).
 - If a license is unclear or the copyleft is questionable, compatibility has to be decided on an individual basis.

License compatibility

- Guidelines:
 - Copyleft licenses are not compatible with each other.
 - Permissive licenses are bilaterally compatible.
 - Permissive licenses are unilaterally compatible with copyleft licenses.
 - If a license is unclear or the copyleft is questionable, compatibility has to be decided on an individual basis.

Compatibility matrix

GPL-2.0-only and BSD-2-Clause

Leading license

Compatibility*	AFL-2.0	AFL-2.1	AGPL-3.0-only	AGPL-3.0-or-later	Apache-1.0	Apache-1.1	Apache-2.0	Artistic-1.0-Perl	BSD-2-Clause	BSD-2-Clause-Patent	BSD-3-Clause	BSD-4-Clause	BSD-4-Clause-UC	BSL-1.0	bzip2-1.0.5
AFL-2.0		Yes	No	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	?	Yes
AFL-2.1	Yes		No	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	?	Yes
EUPL-1.1	?	?	No	No	No	No	?	?	Yes	Yes	Yes	No	No	?	Yes
FTL	Yes	Yes	No	No	Yes	Yes	Yes	?	Yes	Yes	Yes	Yes	Yes	?	Yes
GPL-2.0-only	?	?	No	No	No	No	?	?	Yes	Yes	Yes	No	No	?	Yes
GPL-2.0-only WITH Classpath-exception-2.0	?	?	No	No	No	No	?	?	Yes	Yes	Yes	No	No	?	Yes
GPL-2.0-or-later	?	?	No	No	No	No	?	?	Yes	Yes	Yes	No	No	?	Yes
GPL-3.0-only	?	?	Yes	No	No	No	Yes	?	Yes	Yes	Yes	No	No	?	Yes
GPL-3.0-or-later	?	?	No	Yes	No	No	Yes	?	Yes	Yes	Yes	No	No	?	Yes
HPND	Yes	Yes	No	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	?	Yes

Yes

Compatibility matrix

BSD-2-Clause and GPL-2.0-only

Leading license

Compatibility*	AFL-2.0	AFL-2.1	AGPL-3.0-only	AGPL-3.0-or-later	Apache-1.0	EPL-2.0	EUPL-1.1	FTL	GPL-2.0-only	GPL-2.0-only WITH Classpath-exception-2.0	GPL-2.0-or-later	GPL-3.0-only	GPL-3.0-or-later	HPND
AFL-2.0		Yes	No	No	Yes	No	No	Yes	No	No	No	No	No	Yes
AFL-2.1	Yes		No	No	Yes	No	No	Yes	No	No	No	No	No	Yes
AGPL-3.0-only	?	?		No	No	No	No	No	No	No	No	Yes	Yes	?
AGPL-3.0-or-later	?	?	Yes		No	No	No	No	No	No	No	Yes	Yes	?
Apache-1.0	Yes	Yes	No	No		No	No	Yes	No	No	No	No	No	Yes
Apache-1.1	Yes	Yes	No	No	Yes	No	No	Yes	No	No	No	No	No	Yes
Apache-2.0	Yes	Yes	No	No	Yes	No	No	Yes	No	No	No	No	No	Yes
Artistic-1.0-Perl	Yes	Yes	No	No	Yes	No	No	Yes	No	No	No	No	No	Yes
BSD-2-Clause	Yes	Yes	No	No	Yes	No	No	Yes	No	No	No	No	No	Yes
BSD-2-Clause-Patent	Yes	Yes	No	No	Yes	No	No	Yes	No	No	No	No	No	Yes
BSD-3-Clause	Yes	Yes	No	No	Yes	No	No	Yes	No	No	No	No	No	Yes
BSD-4-Clause	Yes	Yes	No	No	Yes	No	No	Yes	No	No	No	No	No	Yes
BSD-4-Clause-UC	Yes	Yes	No	No	Yes	No	No	Yes	No	No	No	No	No	Yes
BSL-1.0	?	?	No	No	?	No	No	?	No	No	No	No	No	?

No

Compatibility matrix

GPL-2.0-only and BSD-4-Clause

Yes	No	No
Yes	Yes	Yes
Yes	No	No
Yes	No	No

BSD-4-
clause

3. All advertising materials mentioning features or use of this software must display the following acknowledgement: This product includes software developed by the organization.

contradicts

GPL-
2.0-only

6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

Compatibility matrix

Proprietary licenses

Typical proprietary license without any particularity	Yes	Yes	No	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No	No	Yes	Yes	No	No	No	Yes	No	
Typical proprietary license and <u>restrict</u> ed copyleft OSS is only linked	Yes	Yes	No	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	No	Yes	No	Yes	No
Other particular proprietary license #1	Yes	Yes	No	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No	No	Yes	Yes	No	No	No	Yes	No	
Other particular proprietary license #2	Yes	Yes	No	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No	No	Yes	Yes	No	No	No	Yes	No	
Other particular proprietary license #3	Yes	Yes	No	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No	No	Yes	Yes	No	No	No	Yes	No	
Compatibility*	<u>AFL-2.0</u>	<u>AFL-2.1</u>	<u>AGPL-3.0-only</u>	<u>AGPL-3.0-or-later</u>	<u>Apache-1.0</u>	<u>Apache-1.1</u>	<u>Apache-2.0</u>	<u>Artistic-1.0-Perl</u>	<u>BSD-2-Clause</u>	<u>BSD-2-Clause-Patent</u>	<u>BSD-3-Clause</u>	<u>BSD-4-Clause</u>	<u>BSD-4-Clause-UC</u>	<u>BSL-1.0</u>	<u>bzip2-1.0.5</u>	<u>bzip2-1.0.6</u>	<u>CC0-1.0</u>	<u>CDDL-1.0</u>	<u>CPL-1.0</u>	<u>curl</u>	<u>EFL-2.0</u>	<u>EPL-1.0</u>	<u>EPL-2.0</u>	<u>EUPL-1.1</u>	<u>FTL</u>	<u>GPL-2.0-only</u>	<u>or Cl. ex</u>

...

Conclusion

- The freedom to choose the license terms under which conveying a copyright protected work is allowed has led to a **large number of different licenses**.
- The **Open Source License Obligations Checklists** project encodes the obligations of 70 licenses, as of today.
- In addition, the **license compatibility** is evaluated.

Access to the checklists

- For the time being, access to the checklists is granted to everybody on request; please write to *office@osadl.org* to obtain personal login data.
- Feedback on the quality and usability of the checklists is welcome.

???

**Are there any questions
up to this point?**

Most frequently asked question #2

Companies asked:

Which tasks must be assigned to which employees to achieve company-wide copyright license compliance?

Most frequently asked question #2

Companies asked:

Which tasks must be assigned to which employees to achieve company-wide copyright license compliance?

OSADL's answer:

Implement a FOSS policy using our template form, the OSADL FOSS Policy Template

The Basis for License Compliance

A FOSS policy is needed ...

... to avoid copyright infringements,

... to create and maintain **processes** within a company,

... to establish **understanding** of concepts,

... to provide **control** over licensing of a company's IP,

... to meet **customer requirements**.

Open Source Policy Template

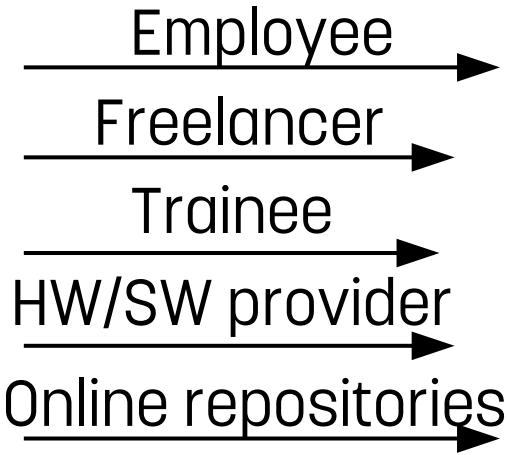
- Different companies take different approaches to license compliance, a company's FOSS policy must reflect these.
 - Creating a policy requires **understanding and expertise**.
 - Using a policy requires it to be **brief and specific**.
- The OSADL Open Source Policy Template is structured to take these requirements into account.

Structure of the Open Source Policy Template

- Various chapters with template texts as basis for an individual policy
 - Motivations and explanations for the creator of the company policy
 - ☑ *Options to choose from where there are alternative possibilities of interpreting or handling a situation*
 - text blocks to modify contracts and other documents
 - *Placeholders to be filled out individually*
- **Annexes** providing processes and forms for legal information
- **Supplements** providing technical, legal and practical background on copyright law and license compliance.

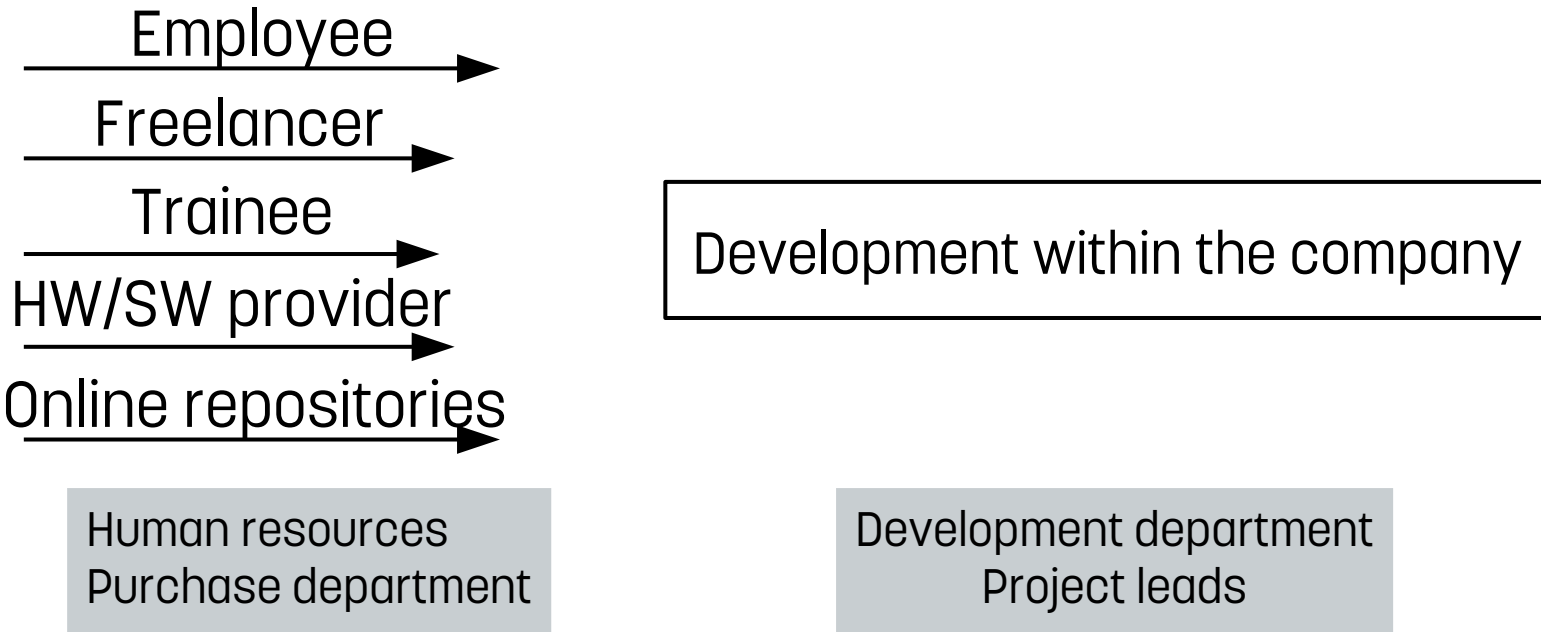
Software flow in a company

Software flow: Incoming software

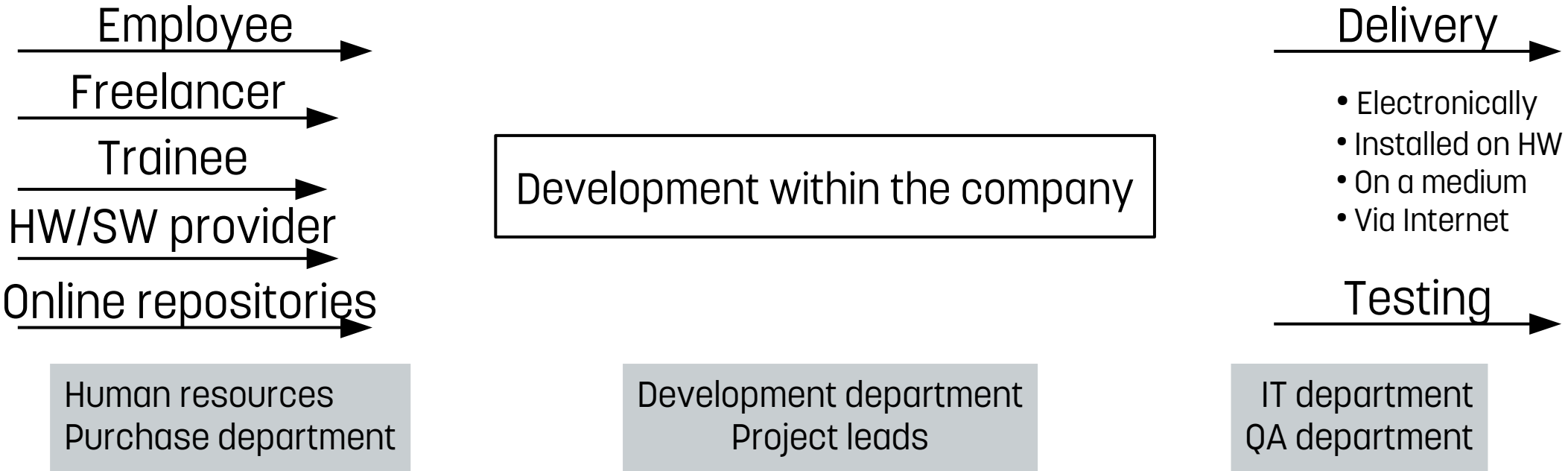


Human resources
Purchase department

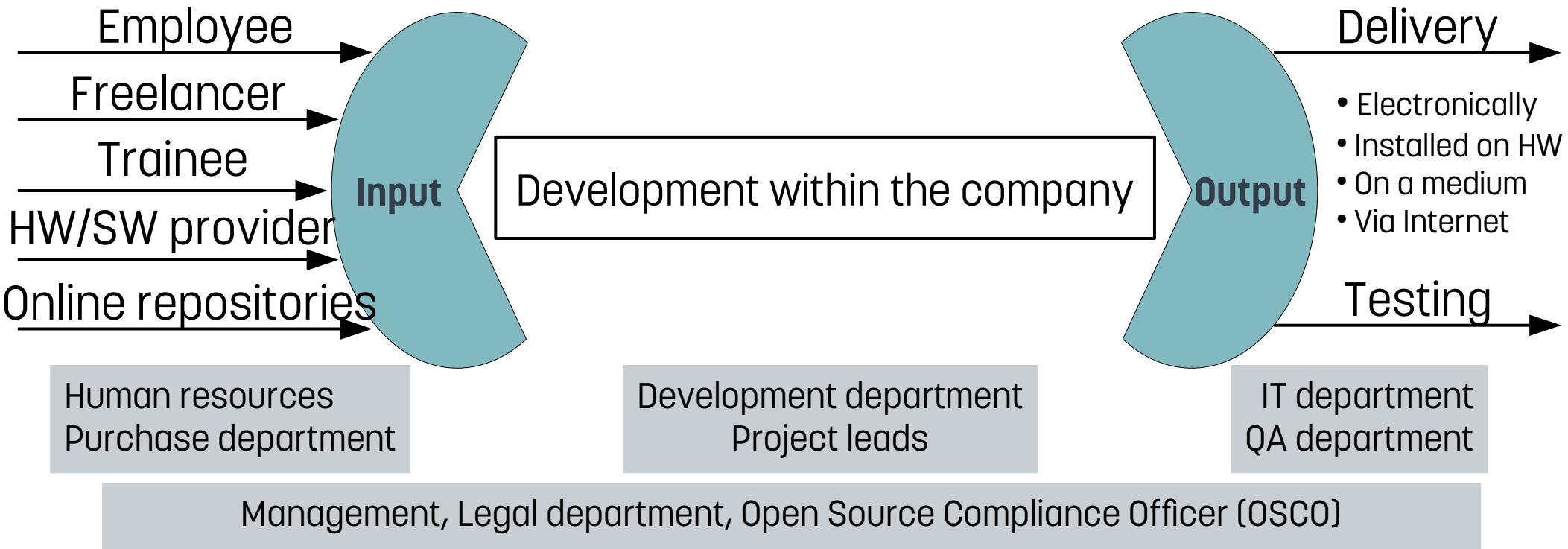
Software flow: Own development



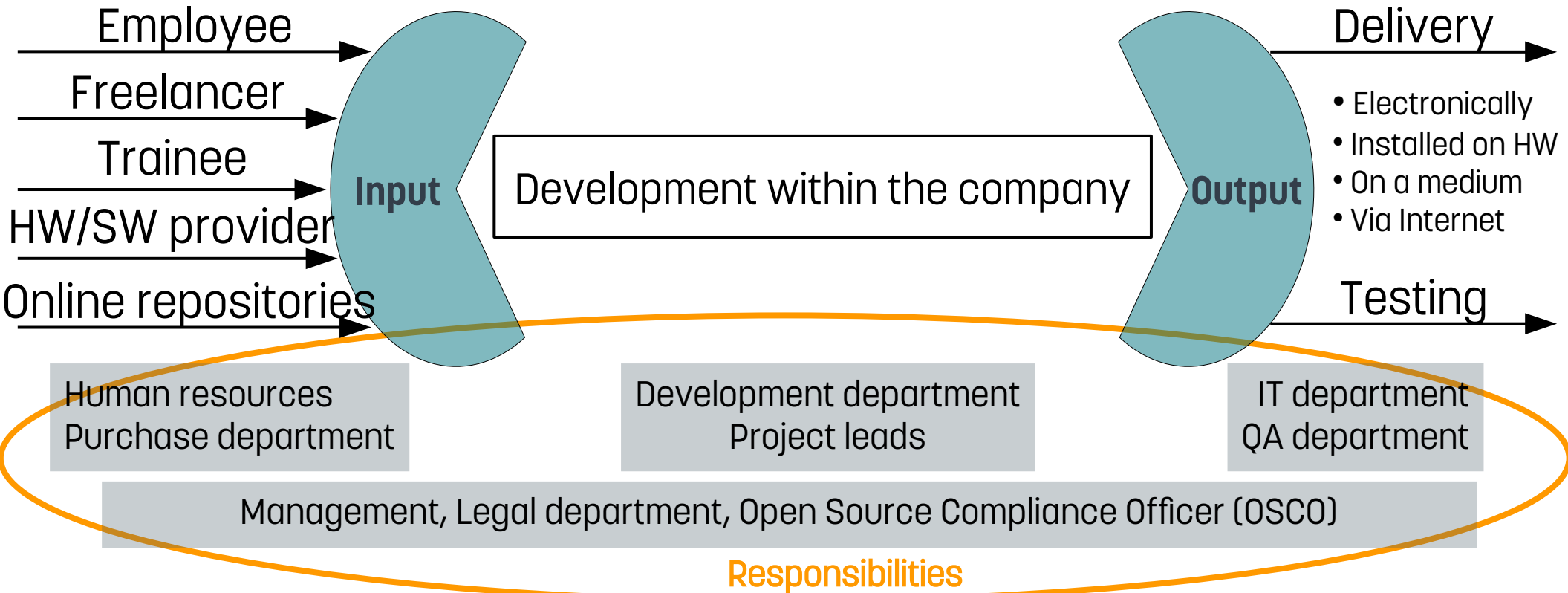
Software flow: Outgoing software



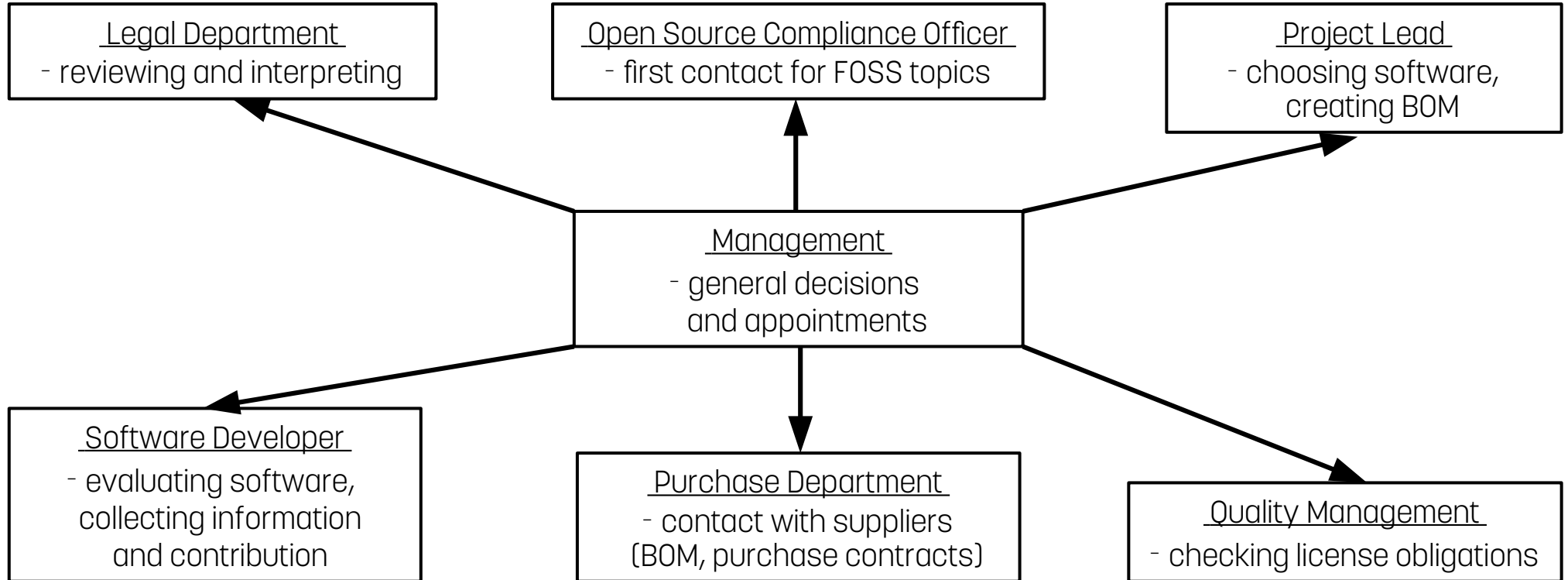
Software flow: Input/output gateways



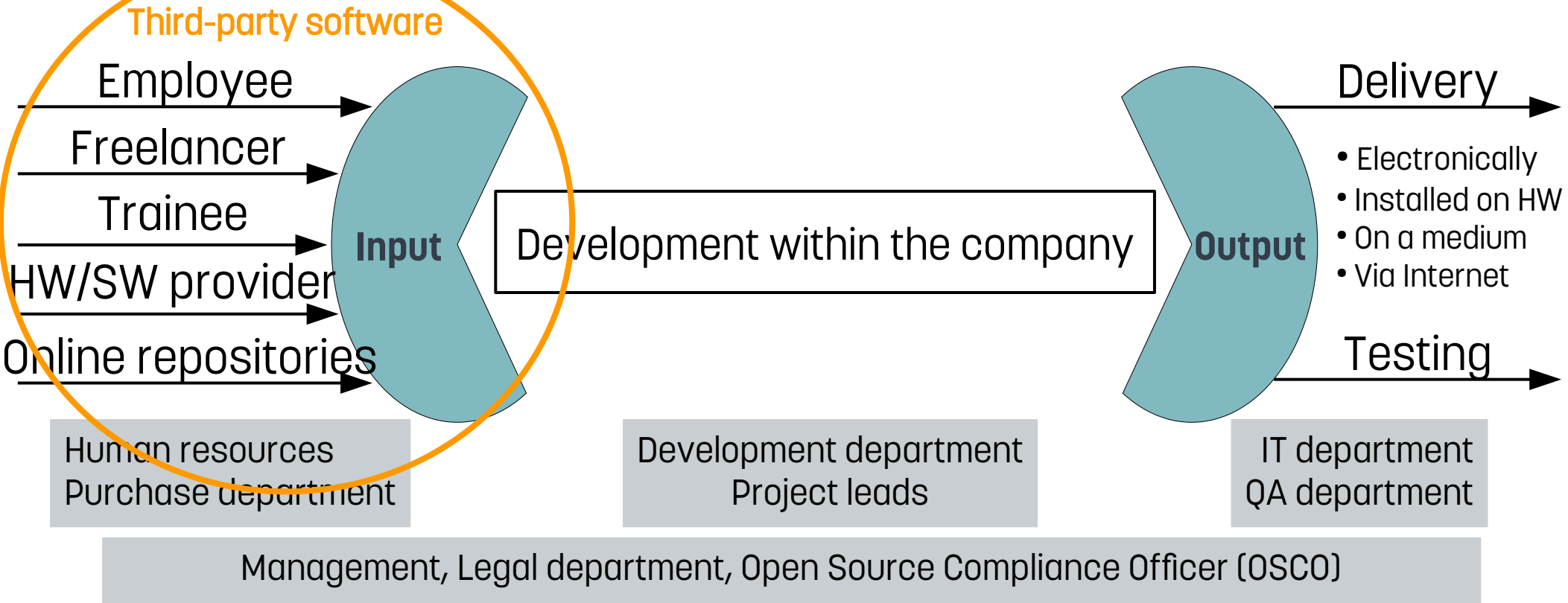
Software flow: Responsibilities



Responsibilities



Software flow: Third-party software

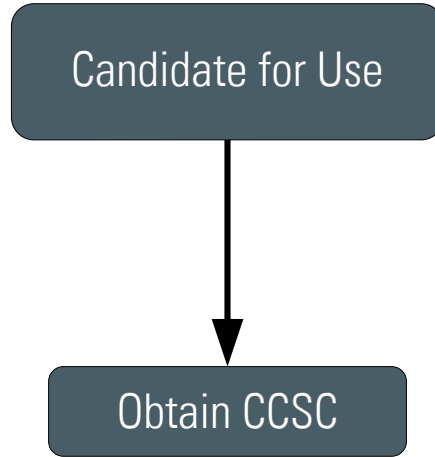


Detection and analysis of third-party software

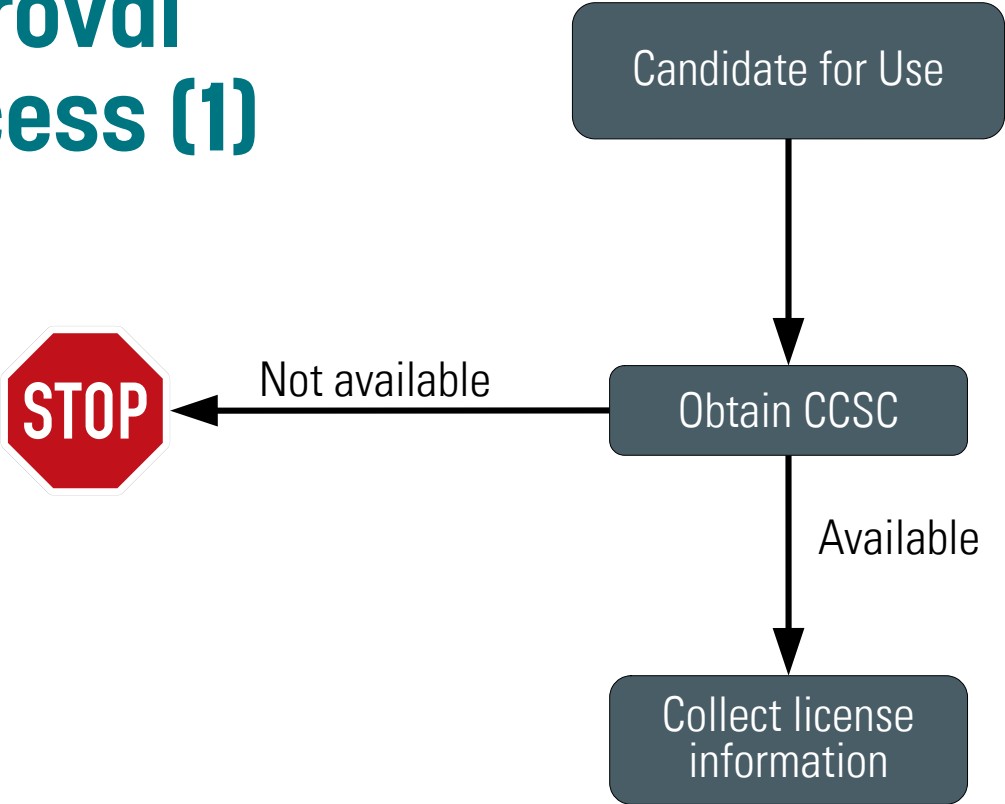
Goals

- Control over what external software is used
- Avoiding unlicensed software
- Basis for creating a BOM → **Annex:** Bill of Material

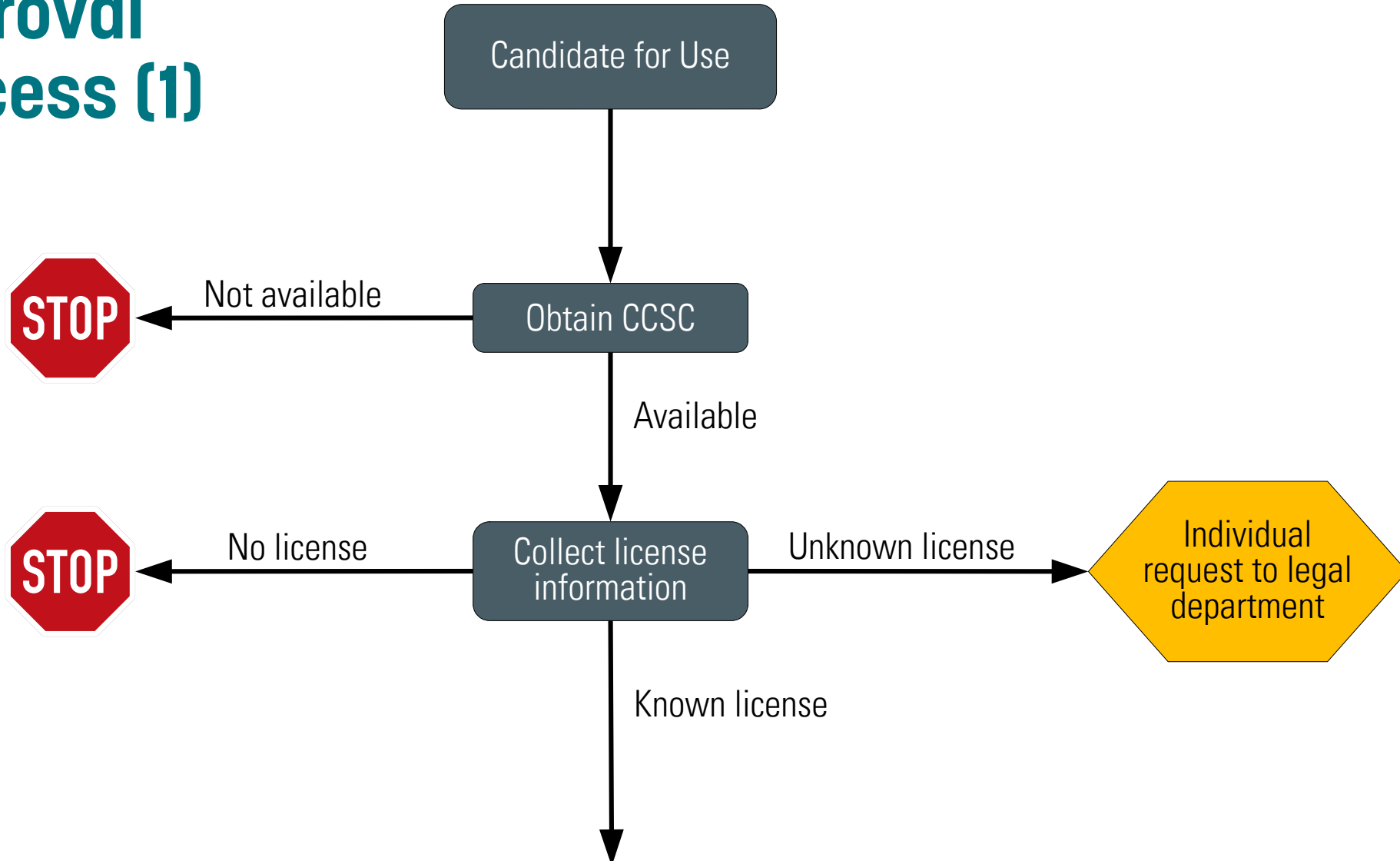
Approval process (1)



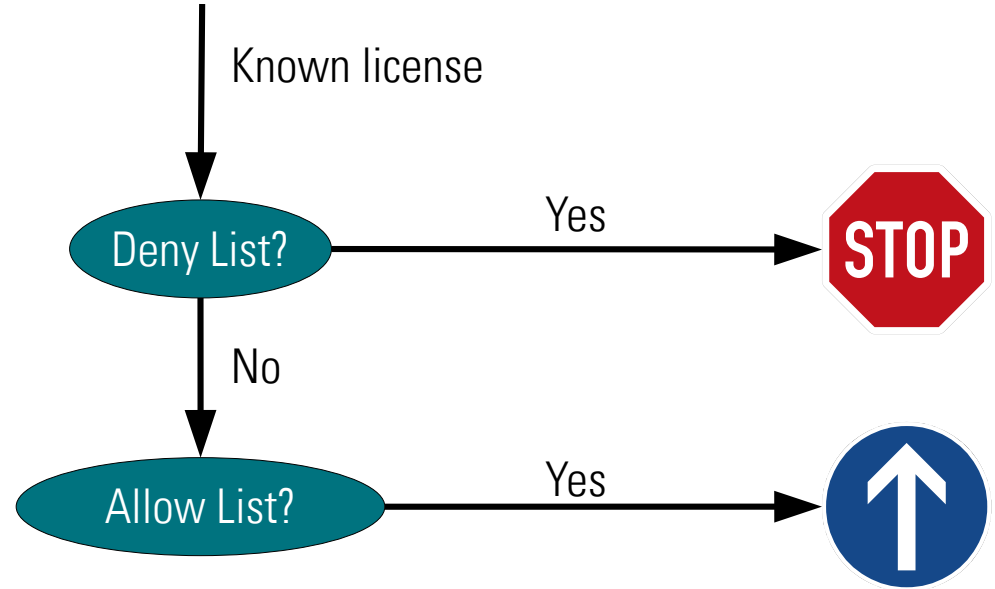
Approval process (1)



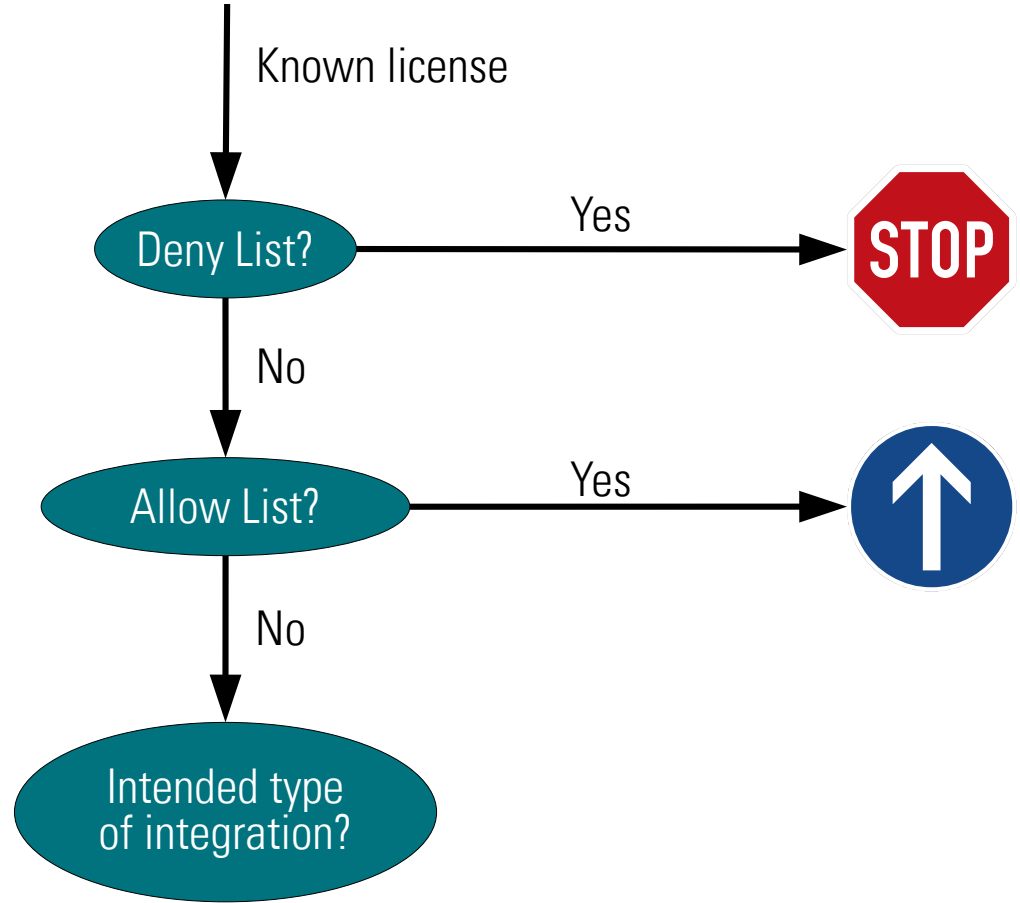
Approval process (1)



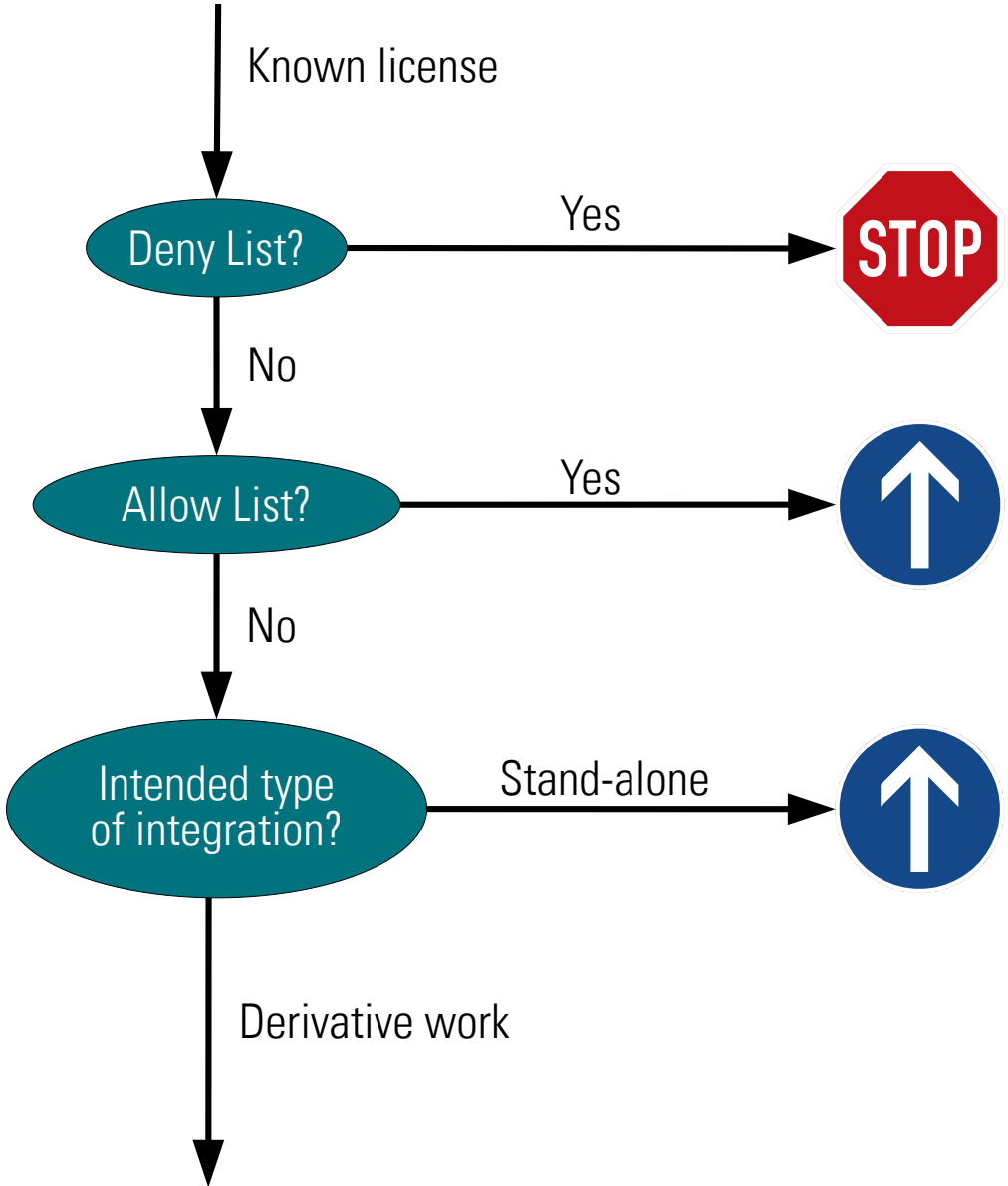
Approval process (2)



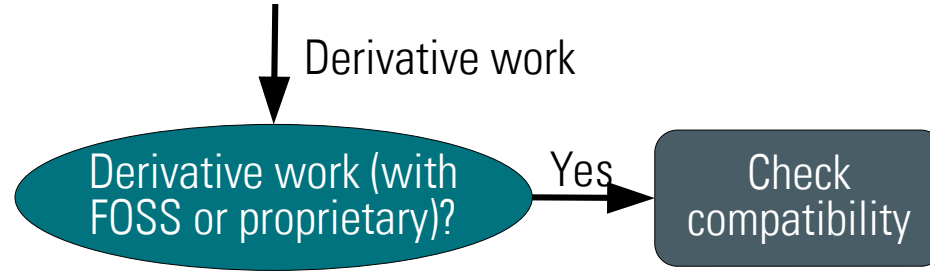
Approval process (2)



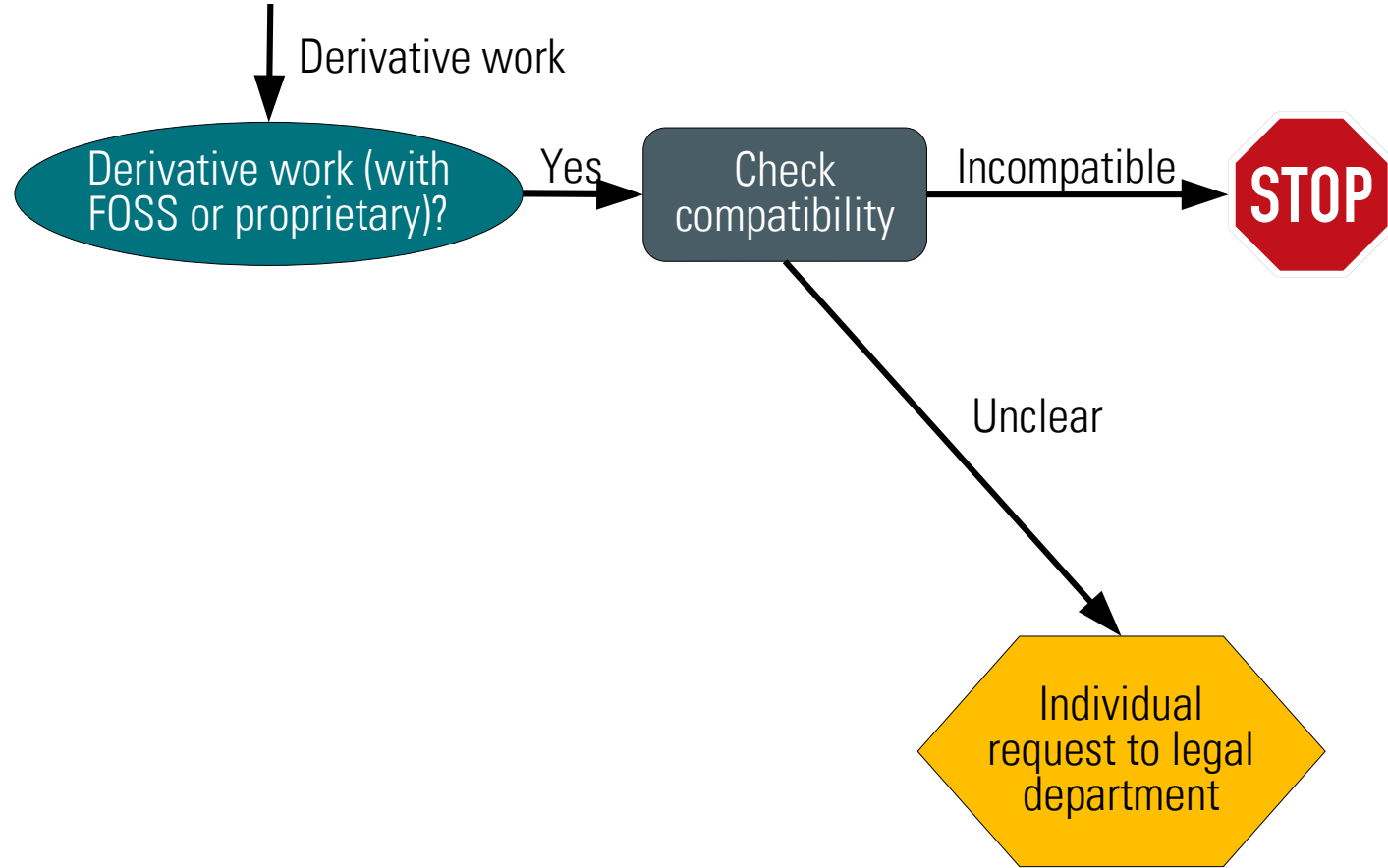
Approval process (2)



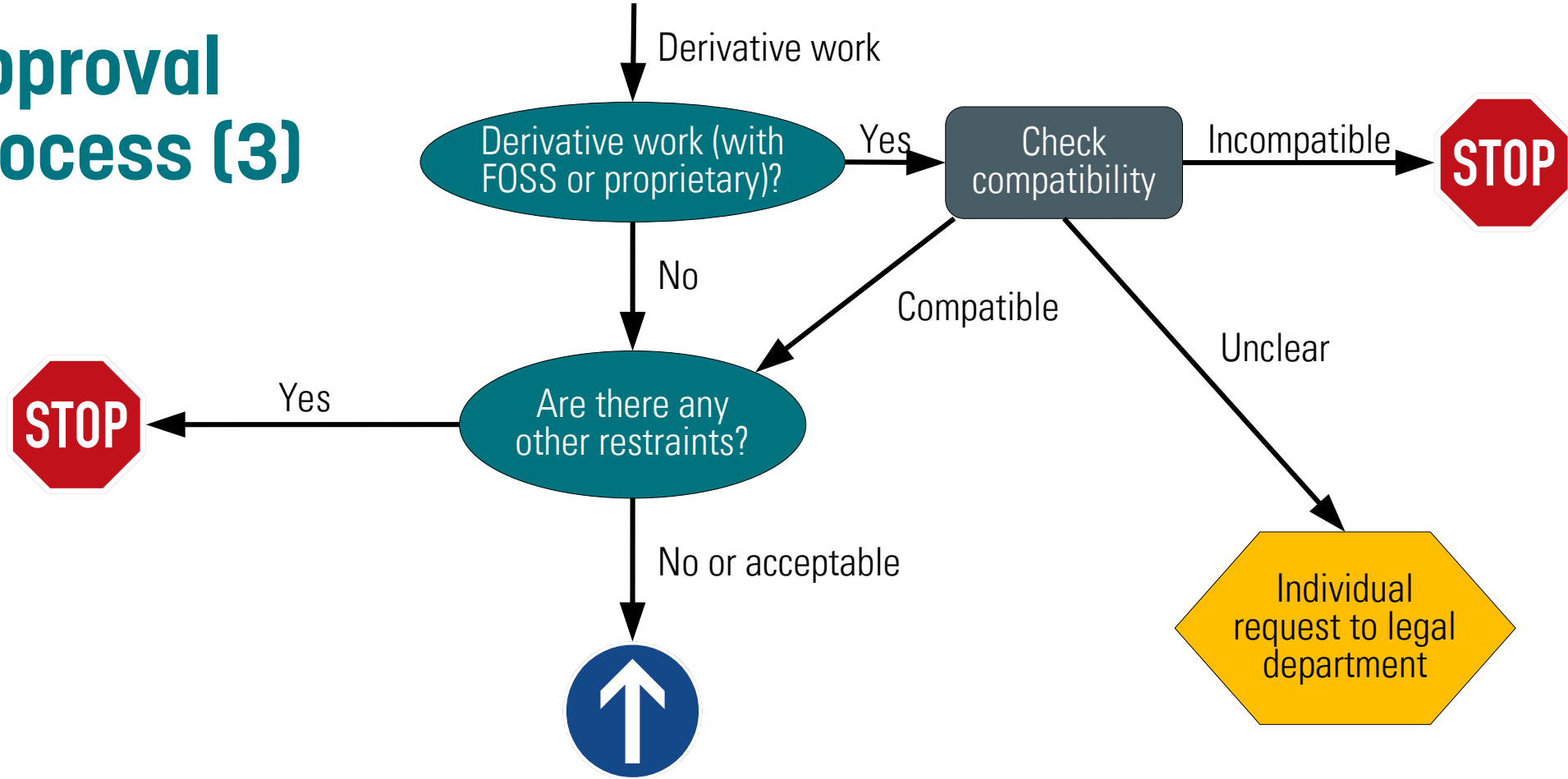
Approval process (3)



Approval process (3)

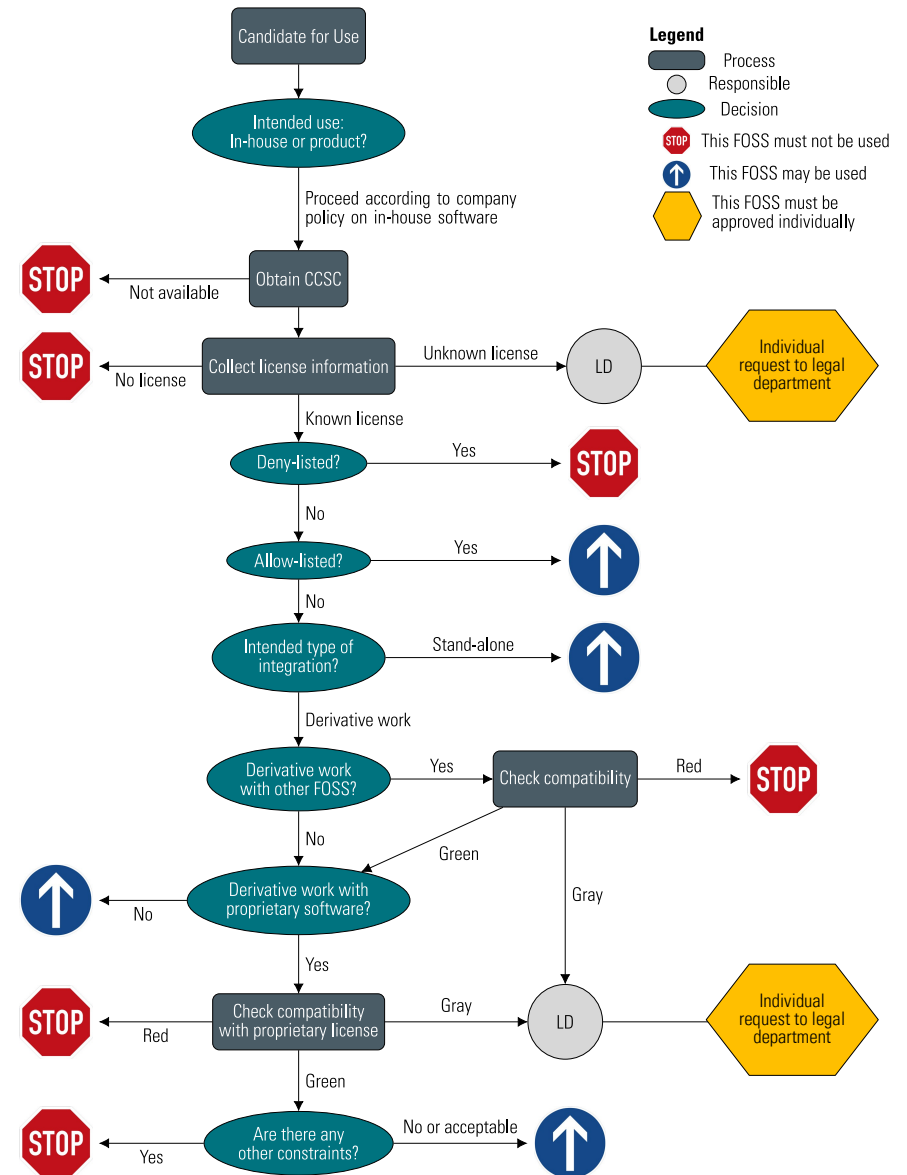


Approval process (3)

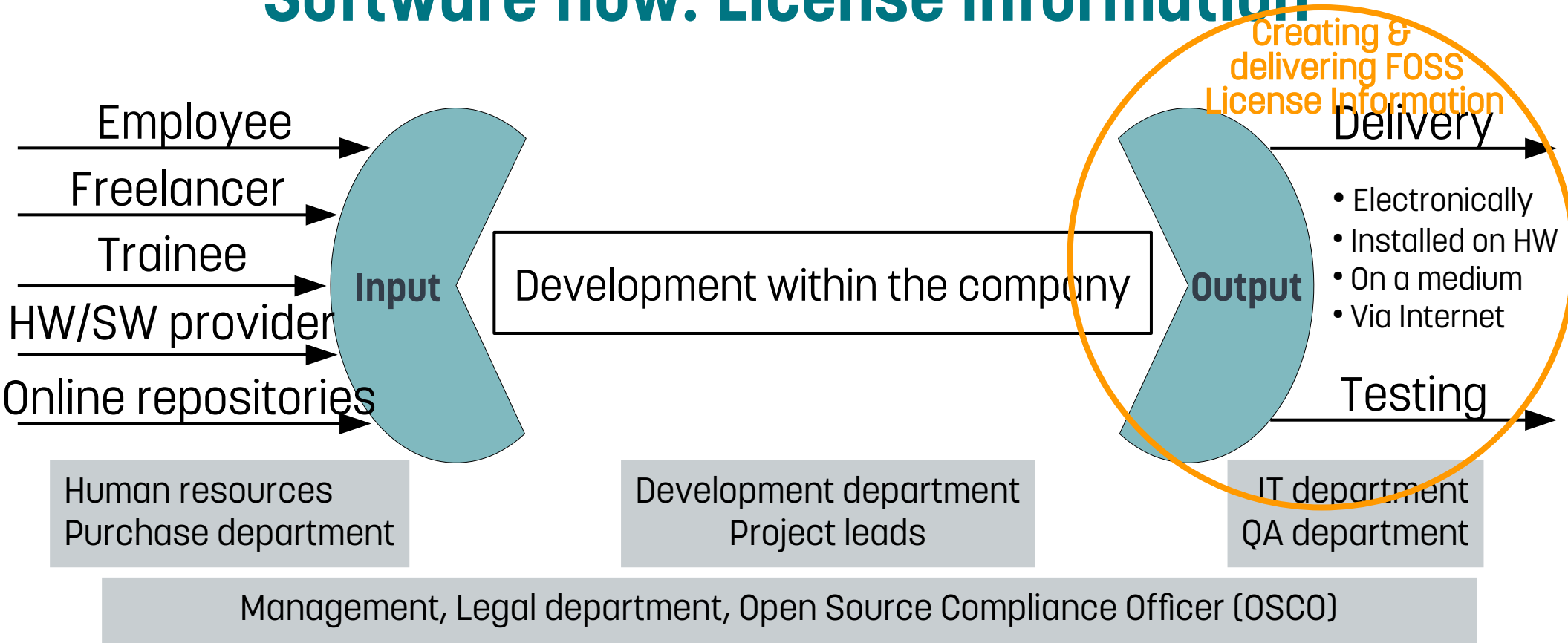


Approval process (4)

Reduces individual requests, if a software component is legally suitable for use (distribution) in a product



Software flow: License information



FOSS License Information

To fulfill FOSS license obligations, certain information, documentation and other material must be delivered together with the software:

- **Information obligations:** delivering license texts, copyright notices, modification notices, warranty disclaimers, acknowledgments, ...
- **Disclosure obligations:** delivering or offering the complete corresponding source code and build and installation instructions
- **Licensing obligations:** adapting company documents (*e.g.* EULA and Terms of Use), licensing own development correctly if a derivative work with software under a copyleft license is created

FOSS License Information: Use cases

Different **use cases** → different aspects to be considered:

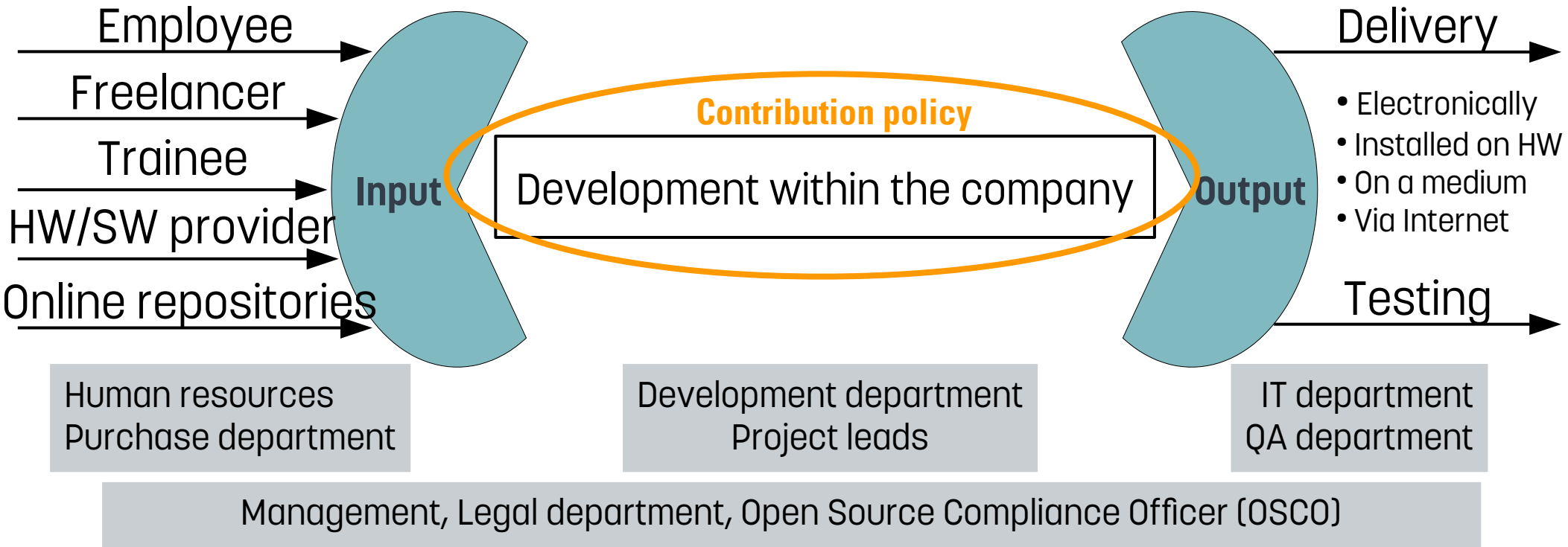
- Unmodified or modified source code
- Unmodified or modified binaries
- Software as a Service (SaaS)
- Linux kernel in an embedded system
- Entire Linux distributions
- Updates

The **OSADL Open Source License Obligations Checklists** help to determine what is required (www.osadl.org/OSLOC).

FOSS License Information: Delivery

- Creating a **BOM** (Bill of Material) with all FOSS / Software components of a product and their licenses
- **Quality management** (before distribution starts):
 - For every FOSS component listed in the BOM the license information is checked for completeness according to the applicable checklist.
 - **Correcting**, if necessary
- **Releasing** the product for distribution together with FOSS license information

Software flow: Contribution policy



Contribution to FOSS projects

- **§ 69b UrhG** (German Copyright Act): The employer holds the exclusive rights of use of software that is created by employees in the course of their employment.
- Employees need a **permission**, to license software created in the course of their employment as FOSS.
- A FOSS policy should give guidelines to evaluate a possible contribution (approval of contributor, FOSS project and contribution)

→ **Annex: Contribution permission**

Additional topics

- **Communication** of the FOSS Policy within the company and in employment contracts
- Selecting a suitable **license for own FOSS projects**
- **Audits and certification** (*e.g.* OpenChain, OSADL LCA)
- **Patent** considerations

Supplements: Background information

- Comprehensive discussion and explanation of legal, technical and practical aspects.
- As separate documents
- Among others, on:
 - **Derivative work** and **Copyleft**
 - **License compatibility**
 - **Software scanning**
 - **Rebuild** and verification of the complete corresponding source code

II. Open Source Compliance Officer (OSCO)

The Open Source Compliance Officer (OSCO) represents the main contact person of our company in the context of using, copying and distributing FOSS of any kind. He or she coordinates all related activities and maintains a dedicated communication with representatives of the other roles listed below. The OSCO reports to the [M](#) and prepares decisions of the [M](#) with regard to the following issues:

- (Unclear) interpretation of FOSS licenses that could result in license violations are therefore relevant for the risk management of the company.
- Modification of this FOSS policy.

The assignment of the OSCO can be documented here or for example on a company's intranet or wiki pages. This decision might depend on how often the assignment changes.

Option 1: Assignment of the OSCO for our company:

Assigned by:

OSCO name:

Department:

Phone number:

Email address:

Beginning of the assignment:

End of the assignment:

Deputy in case of absence:

Average week hours to dedicate to the OSCO role:

Option 2: The current OSCO for our company is assigned at:

VII Use Case 7: Distribution of a Linux kernel in an embedded system

This use cases describes the typical situation that we distribute embedded devices with a Linux kernel under GPL-2.0 and the GNU C Library under LGPL-2.1.

1. Provide the following text as part of the FOSS License Information:

This product contains third party Open Source Software and Free Software distributed under a number of different licenses (hereinafter referred to as „FOSS“). The respective licenses are listed here, and you can obtain comprehensive rights directly from the right holders to the extent specified therein. The FOSS licenses prevail over all other license conditions and contractual agreements with *company name* with regard to the corresponding FOSS components contained in the product.

2. Fulfill license obligations as given by the → [Annex 1](#): “OSADL Open Source License Obligations Checklists” for the GPL-2.0 (role: [PL](#)). In particular the following aspects must be considered:

- Provide a warranty disclaimer in a conspicuous way by accompanying the product with a note, a section in the manual or a pop-up window on the GUI containing the required information:

At the request of the copyright holders we point out the following: “This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for more details.”

- Extract and provide license texts of all licenses and copyright notices contained in the Linux kernel (→ [Supplement 2](#): “How to scan”) and deliver them with the product on a data carrier or on the embedded device itself. Notify the recipient of the embedded device where this information can be found.

Build your own FOSS policy

The OSADL Open Source Policy Template is available as:

- **PDF** files on request at *info@osadl.org*:
 - A master document for the actual policy
 - Annexes and Supplements as separate files linked from the master document
 - (limitedly) editable versions without explanation boxes
- As **plain text** files on GitHub:
github.com/osadl/foss-policy-template

Disclaimer

The OSADL Open Source Policy Template is intended as a **basis** for companies to create their **individual FOSS policy**.

Implementing a FOSS policy requires

- **legal expertise**
- (professional and legal) **decision competence** in the name of the company

The template does not replace these qualifications.