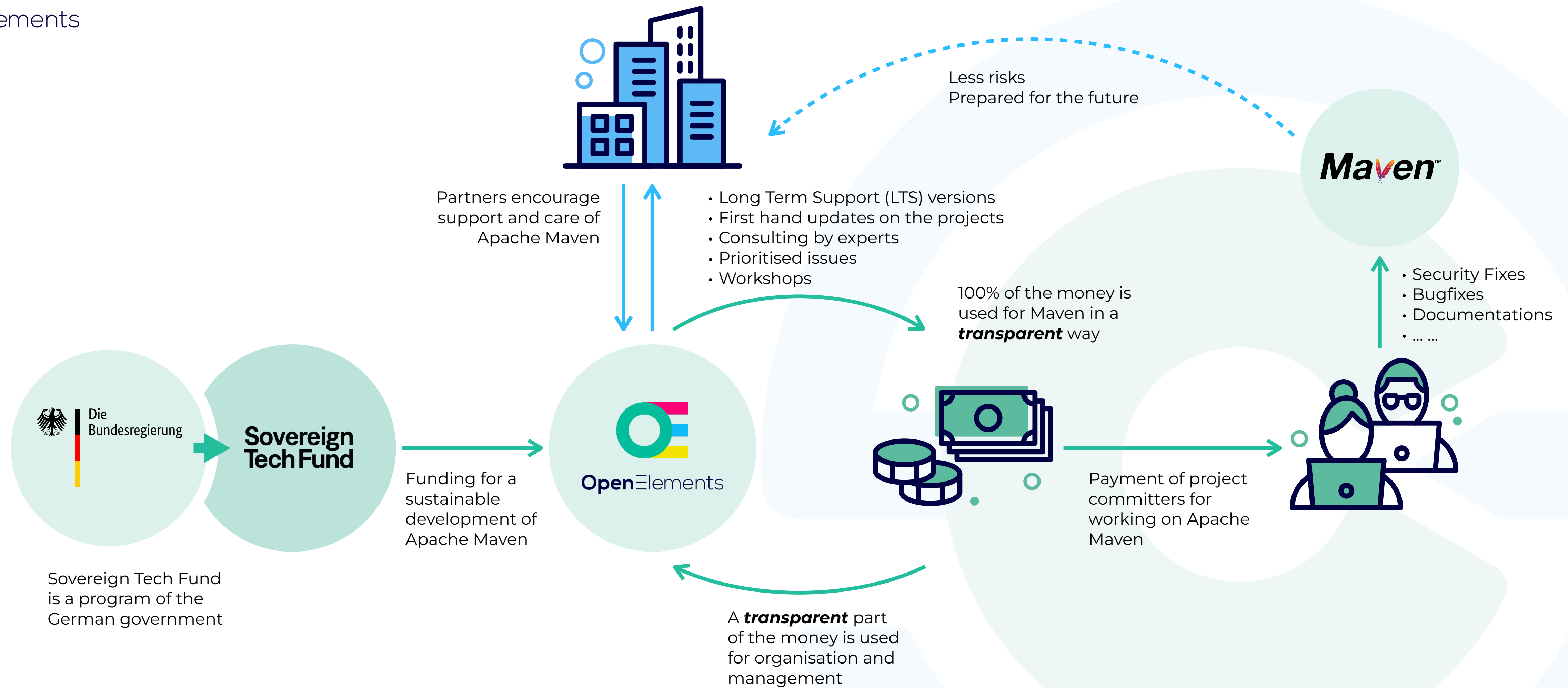


Supply Chain Security

—Sebastian Tiemann

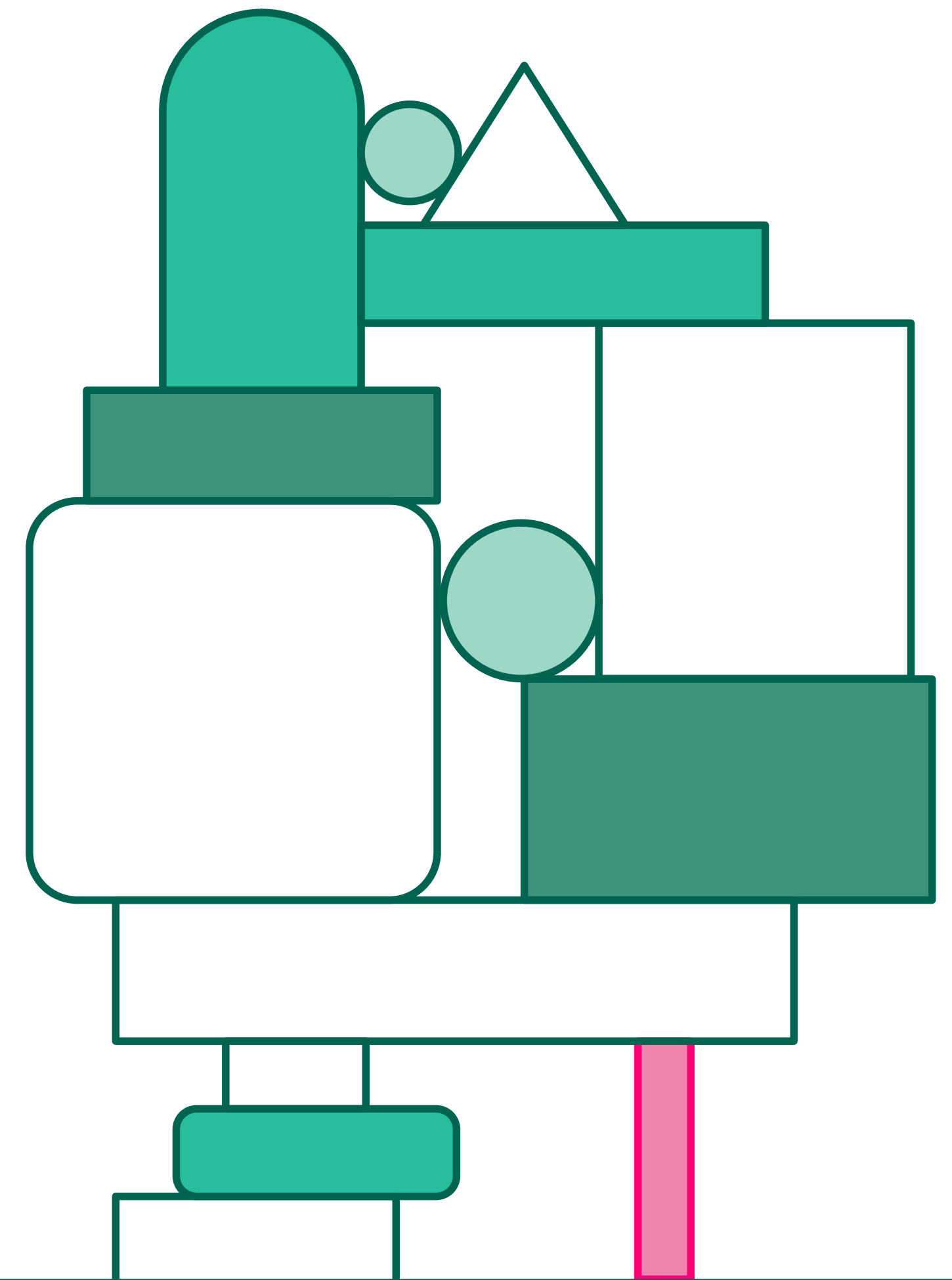
- Organizer Java User Group
Dortmund
- Open Source Contributor
- ORCWG
- IT-Professional since +15 Jahren





Becoming a Sustainable Program

- Around **70%** of a software product **lies beyond direct** control of the maintainer
- Developers frequently **lack visibility** into dependency origins and maintainers
- Many critical software components are **maintained by a single developer** in their free time — far more common than expected.



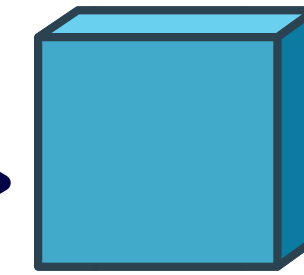
Risk of Software Development Today

“Beware of little expenses.
A small leak will sink a great ship.”
Benjamin Franklin

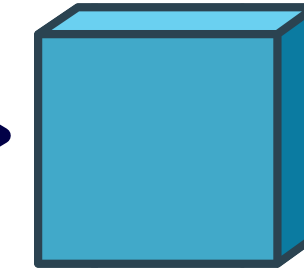
Software Development

—Software

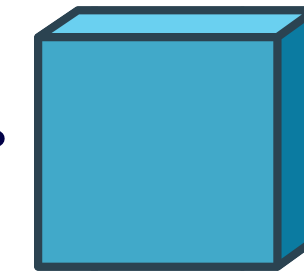
Basis:
Spring Initializr:



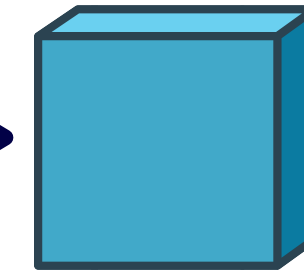
spring-boot-starter-data-web



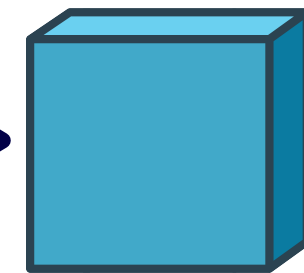
spring-boot-starter-data-jdbc



Postgresql



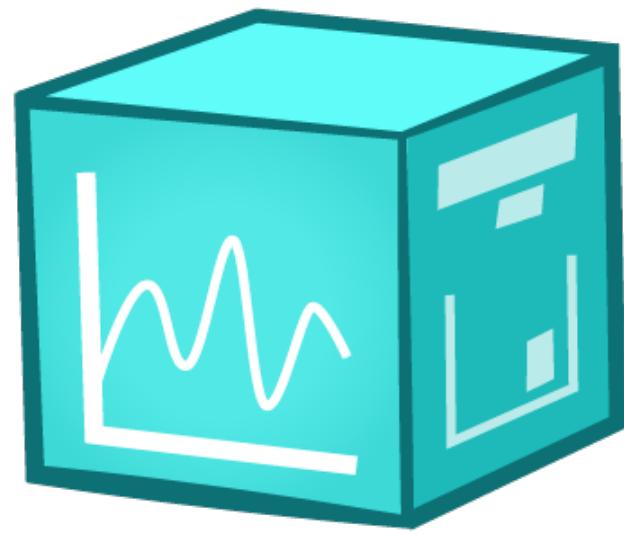
spring-boot-starter-test



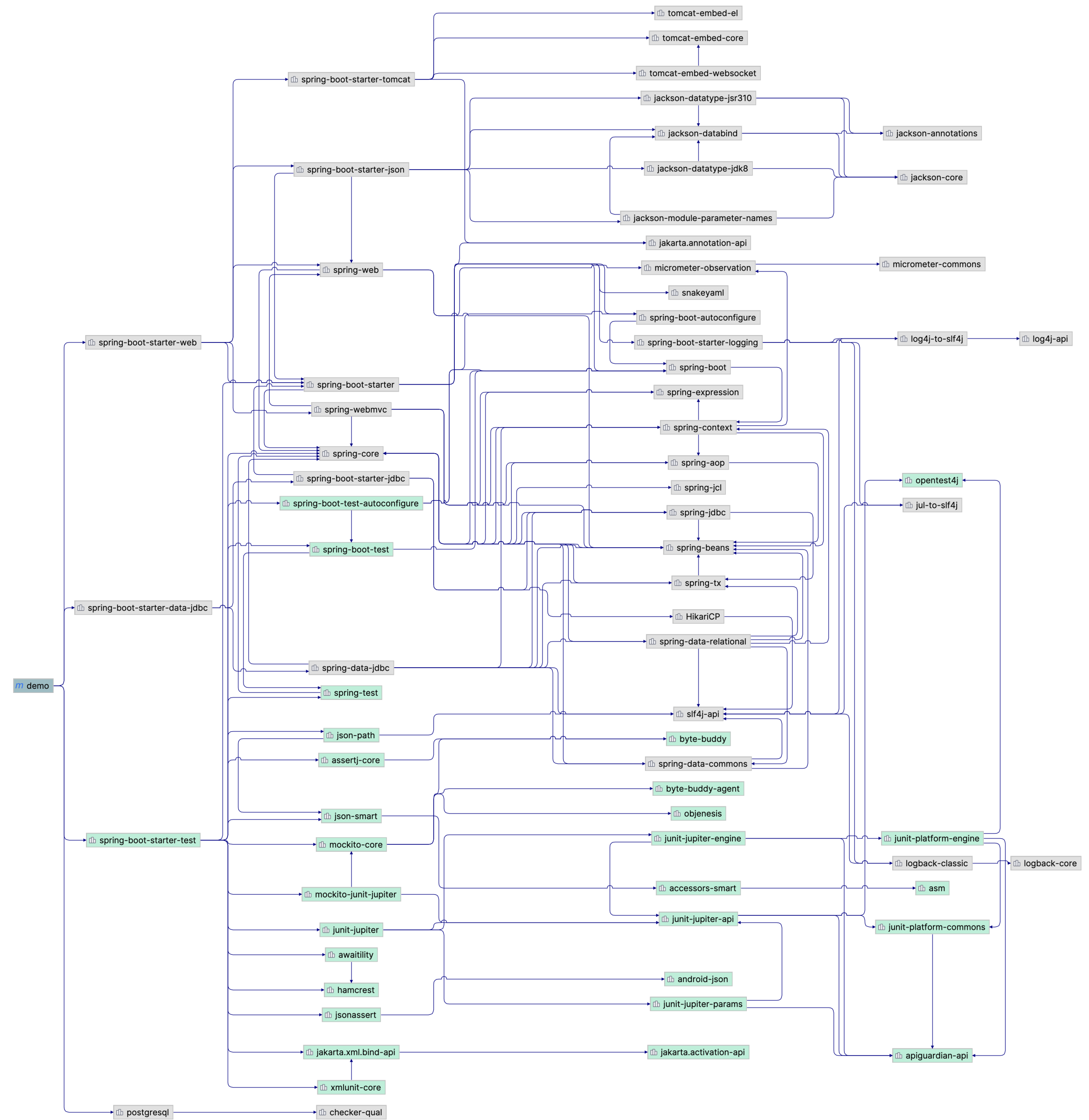
h2

Software

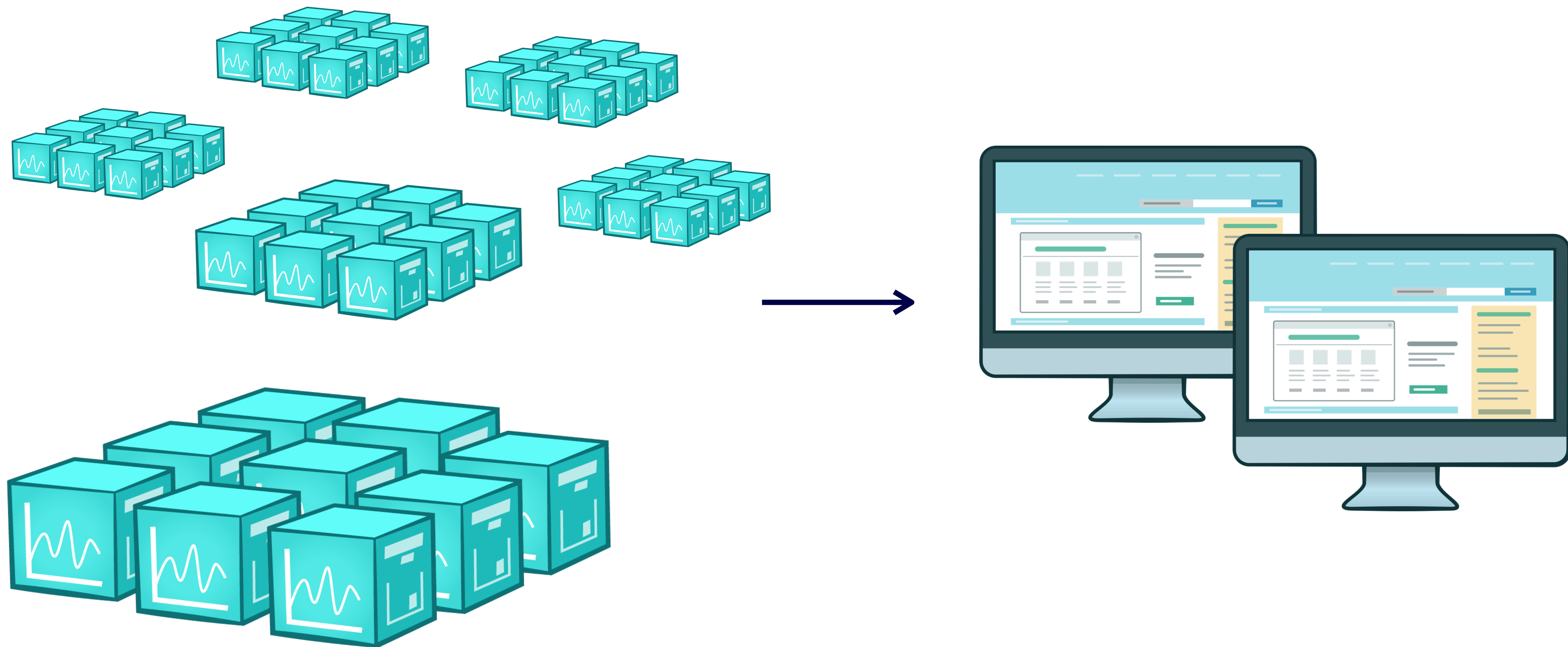
„simple Project“
made with Spring Initializr:



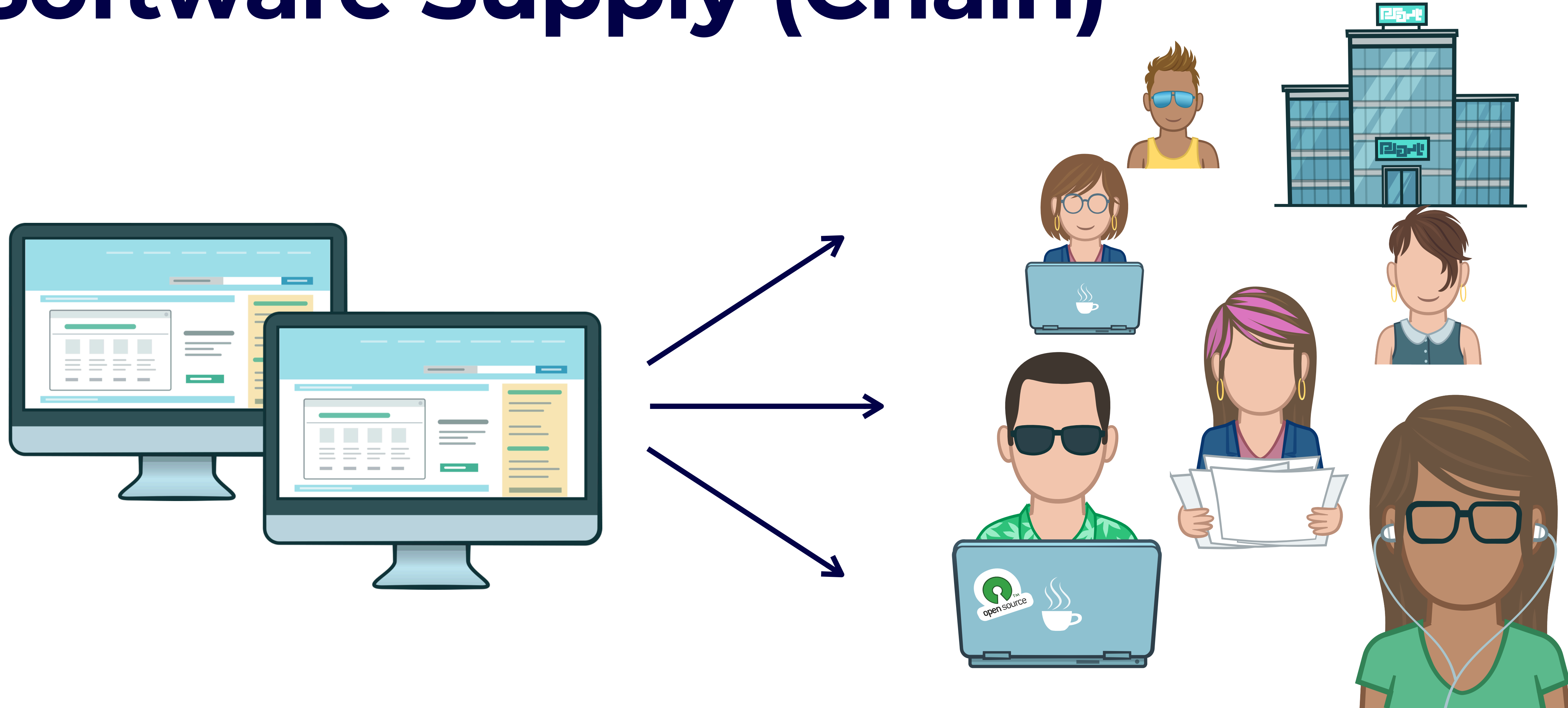
spring-boot-hello-world



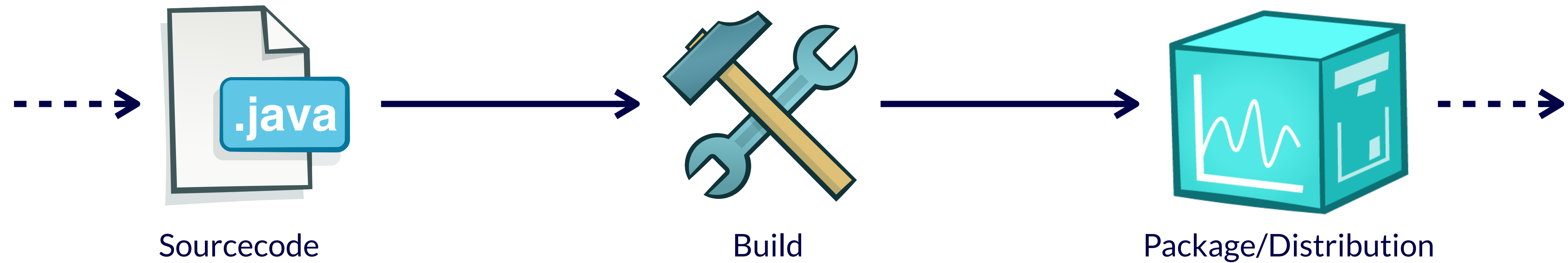
—Software Product



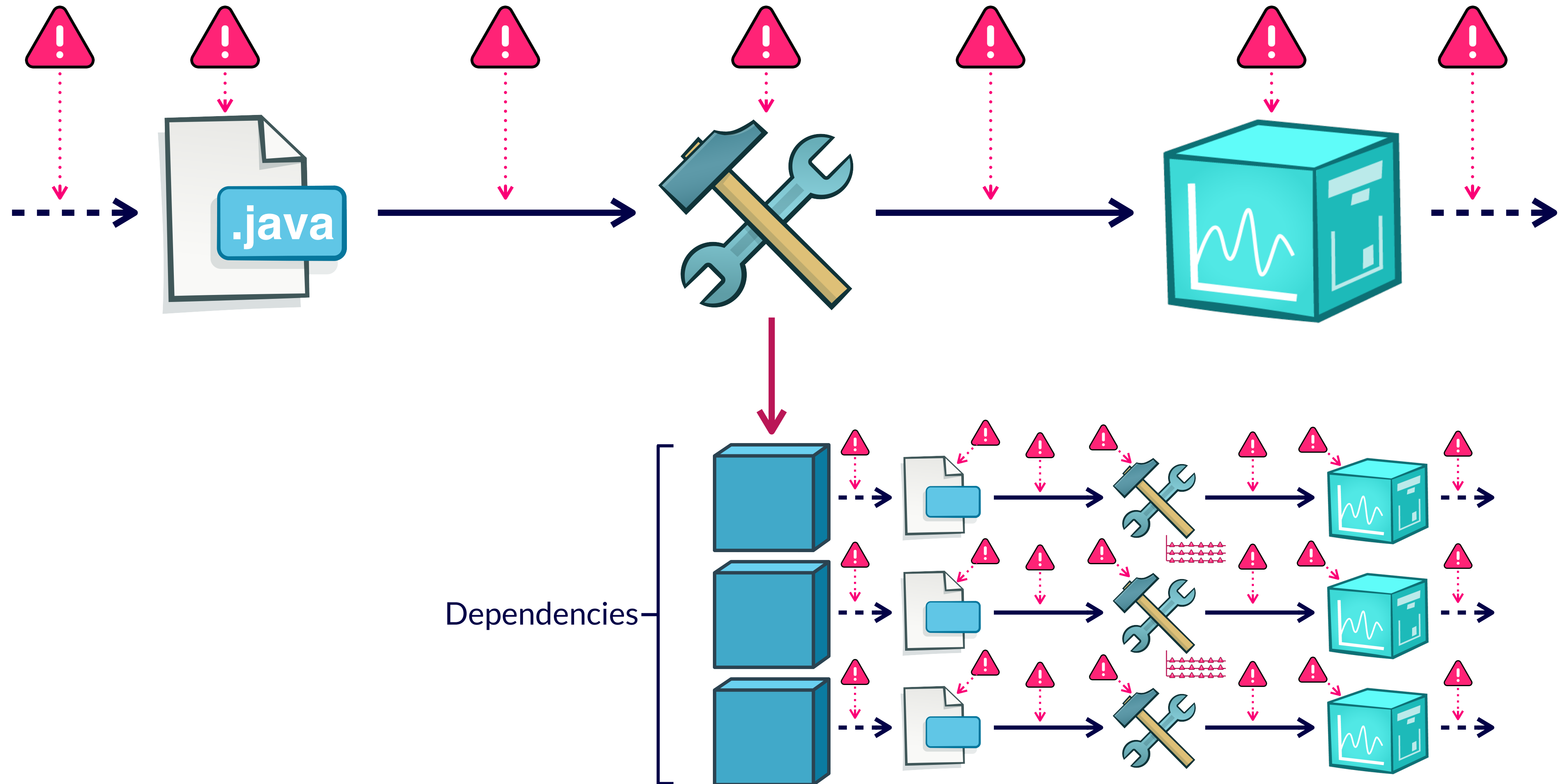
—Software Supply (Chain)



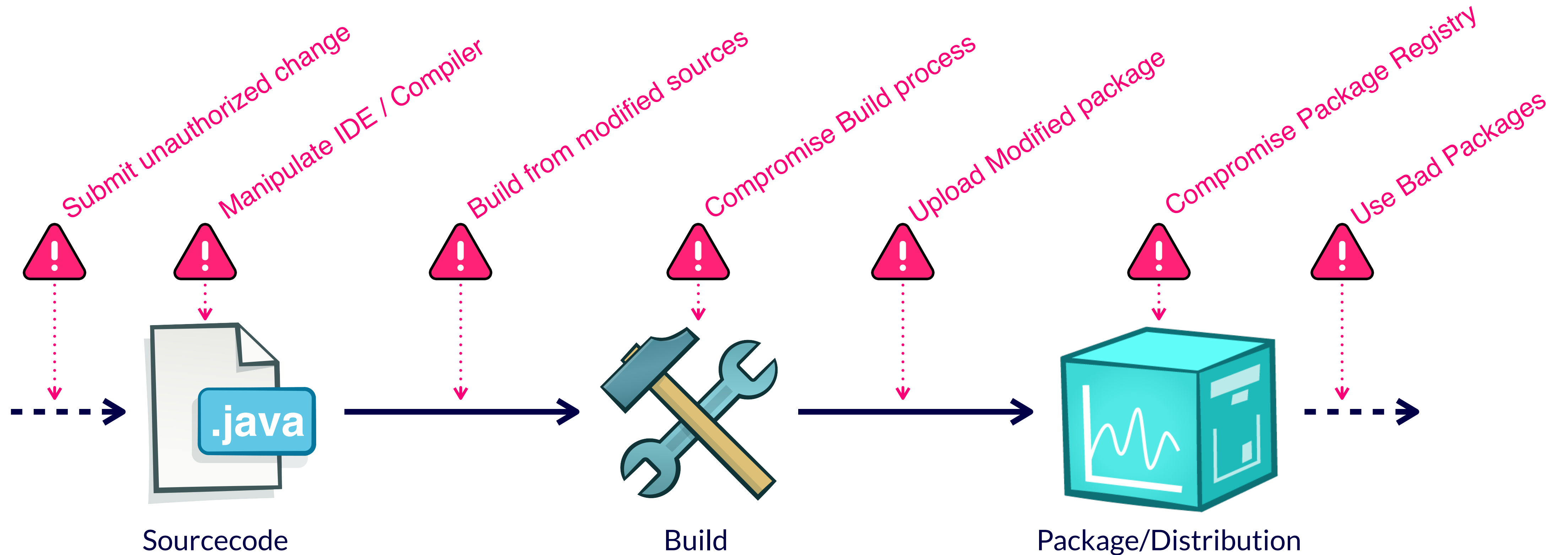
—Supply Chain



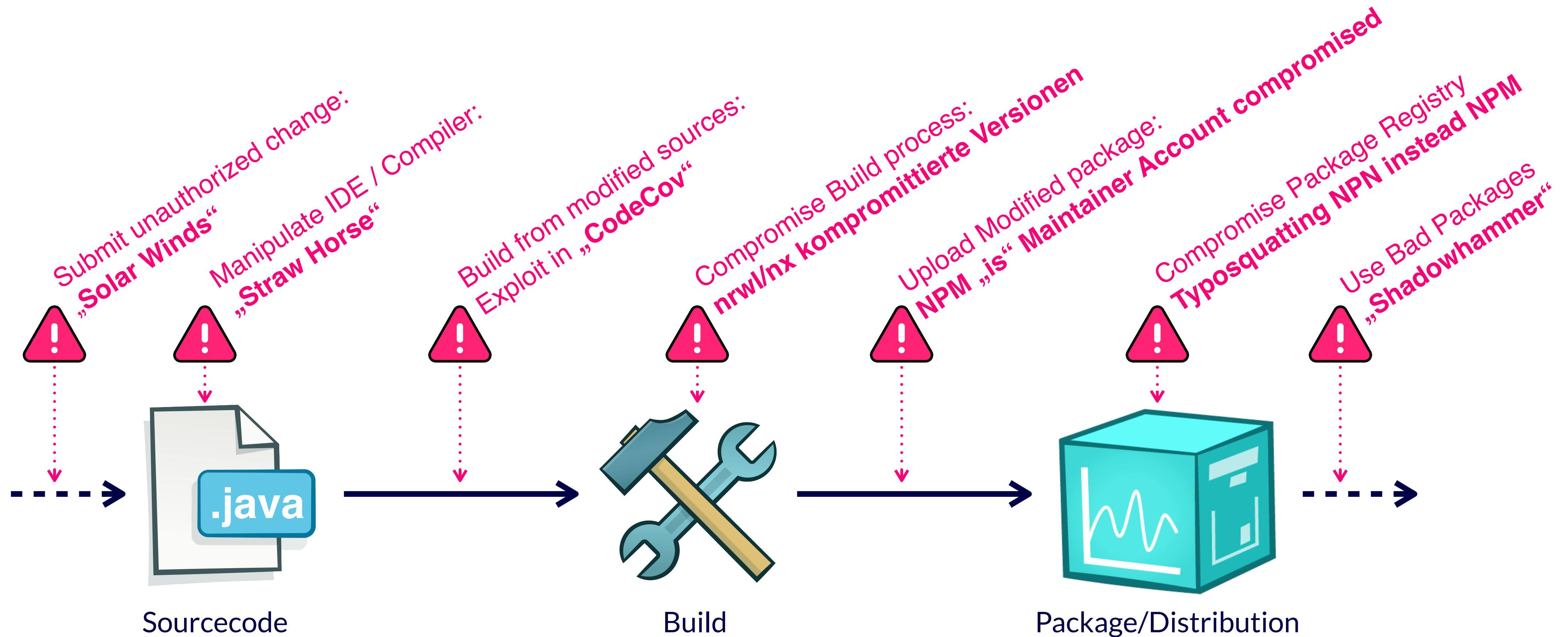
—Dependency Supply Chain



—Supply Chain Security Threats



—Supply Chain Security Threats



Supply Chain Attacks



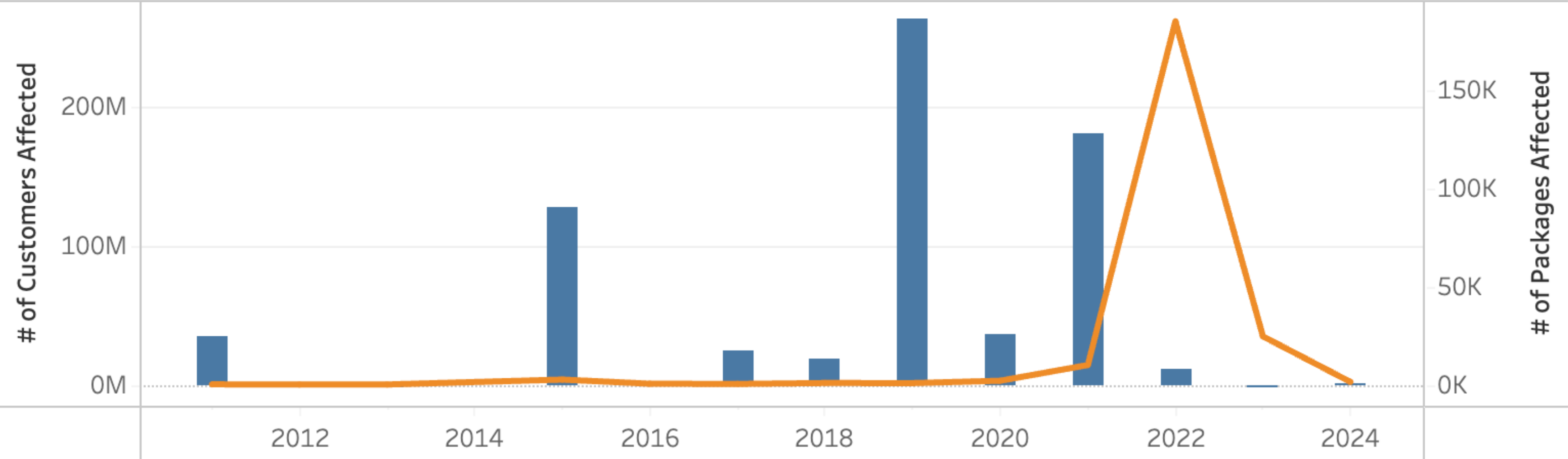
Connect With Me On LinkedIn | [/sebastiantiemann](#)

—Supply Chain Attacks



Quelle: [comparitech.com](https://www.comparitech.com)

of Attacks by Year



Total Packages Affected

228,110

Total Customers Affected

700,569,233

19.08.2025, 12:39

<https://www.comparitech.com/software-supply-chain-attacks/>

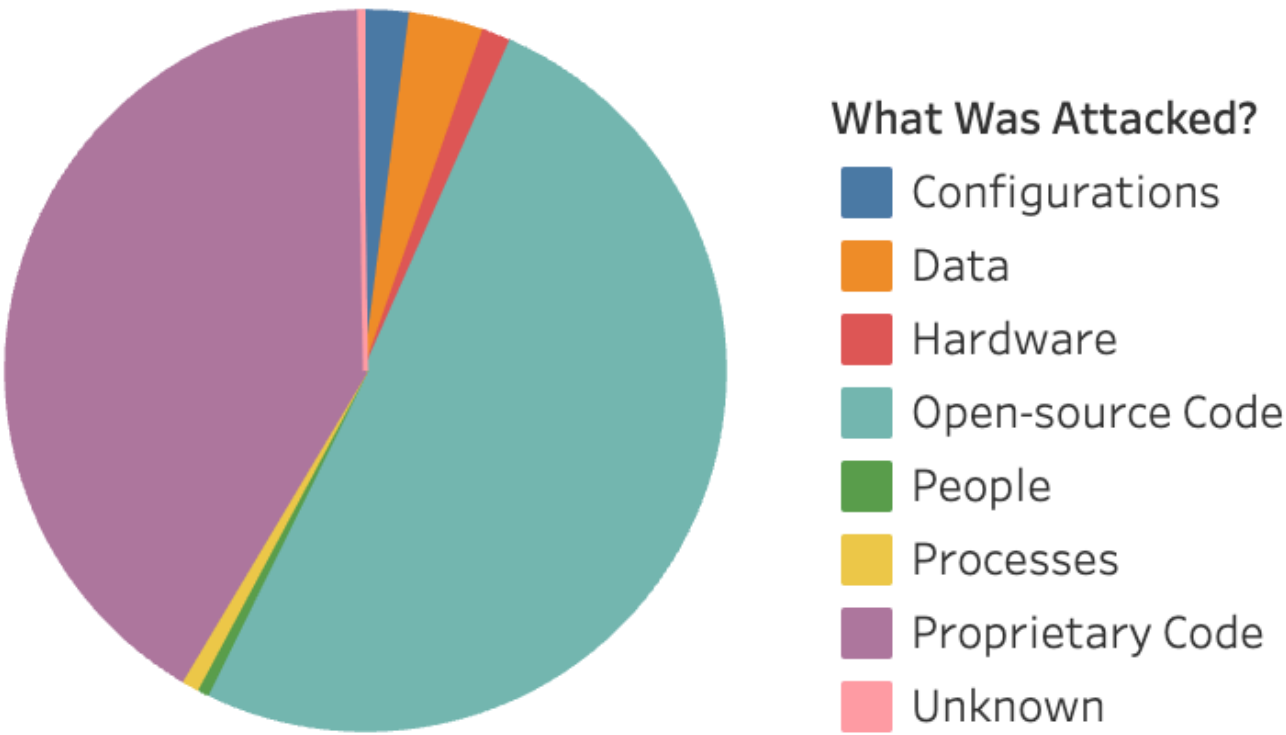


Supply Chain Attacks

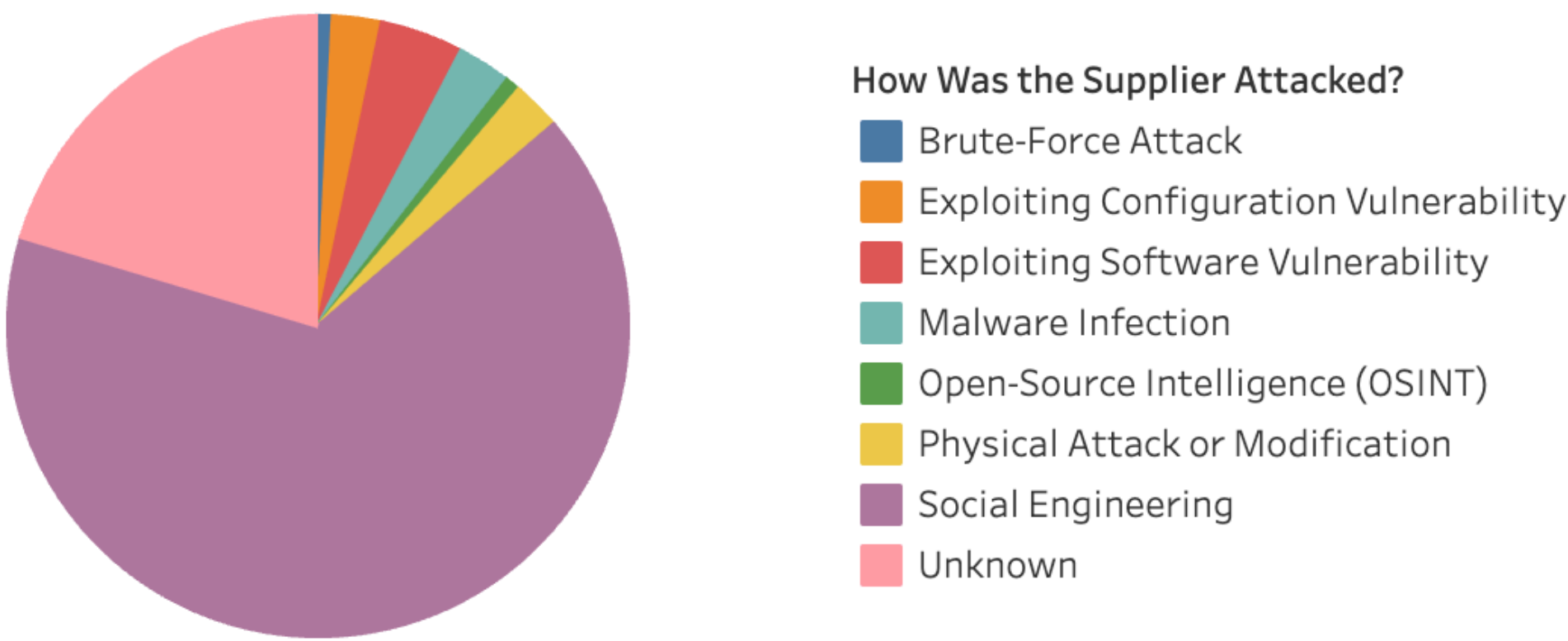


Quelle: comparitech.com

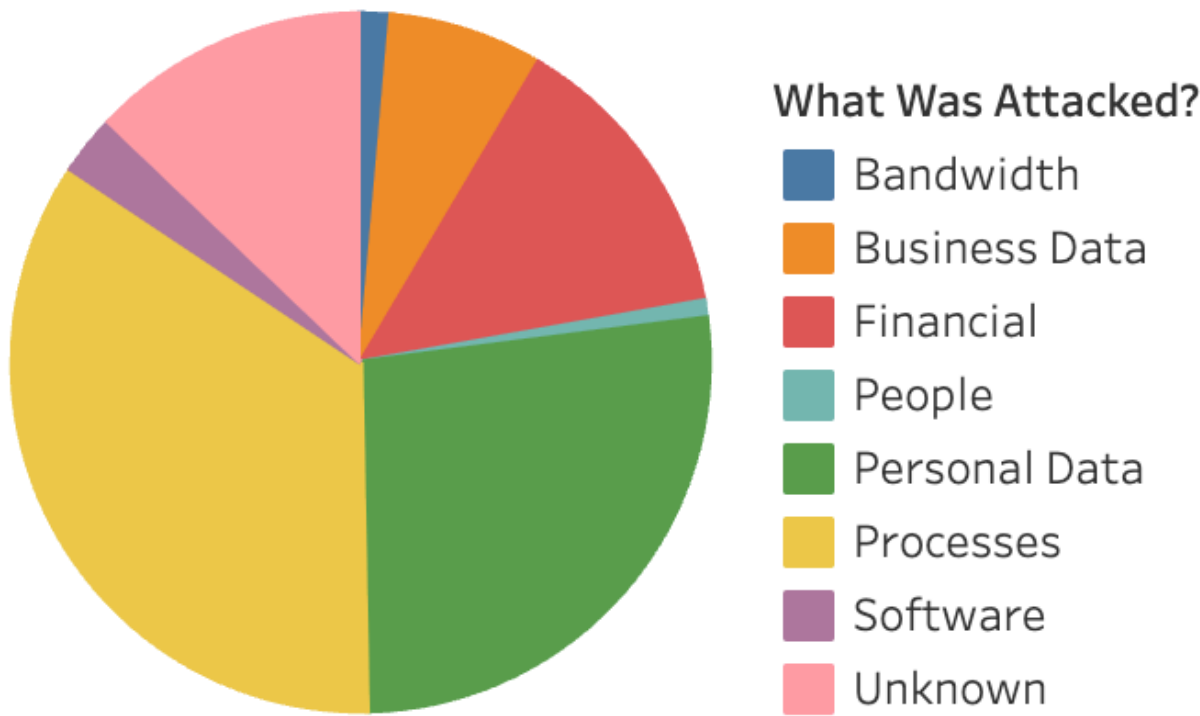
Supplier Attacks-Target



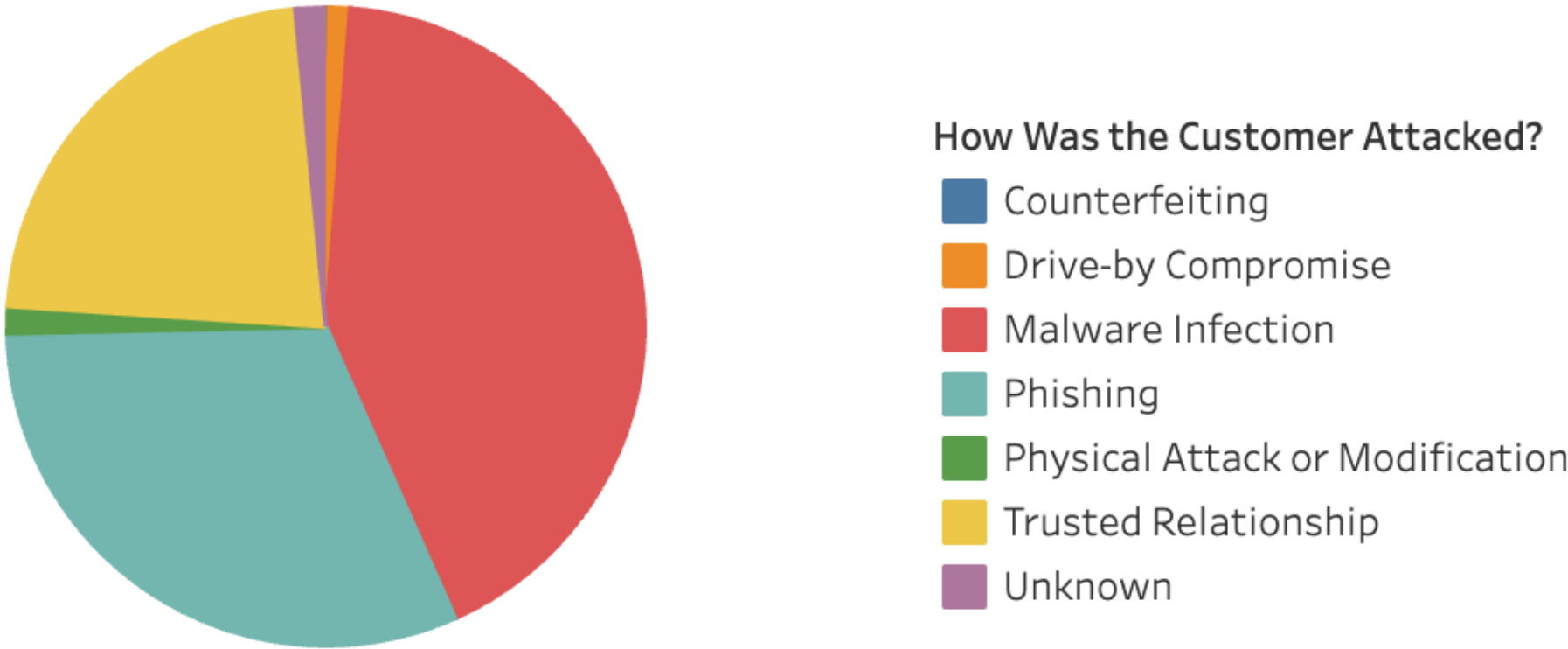
Supplier Attacks-Type



Customer Attacks-Target



Customer Attacks-Type



(How)
Can Open-
Source help?



—Links

- <https://www.comparitech.com/software-supply-chain-attacks/>
- <https://www.gao.gov/blog/solarwinds-cyberattack-demands-significant-federal-and-private-sector-response-infographic>
- <https://theintercept.com/document/strawhorse-attacking-macos-ios-software-development-kit/>
- <https://www.cyberark.com/resources/blog/breaking-down-the-codecov-attack-finding-a-malicious-needle-in-a-code-haystack>
- <https://github.com/nrwl/nx/security/advisories/GHSA-cxm3-wv7p-598c>
- <https://socket.dev/blog/npm-is-package-hijacked-in-expanding-supply-chain-attack>
- <https://arstechnica.com/security/2025/07/open-source-repositories-are-seeing-a-rash-of-supply-chain-attacks/>
- <https://securelist.com/operation-shadowhammer-a-high-profile-supply-chain-attack/90380/>