

# **Open Source Pulling Back the Curtain for Enterprise Adoption**

MINNEAPOLIS  
CYBERSECURITY SUMMIT  
2023



## About Me

### WEARER OF MANY HATS!

A survivor of cyberstalking, now a dedicated security professional devoted to advancing open-source development, fostering innovation, and enhancing nonprofit security as part of critical infrastructure.

PRESIDENT, OISF

SENIOR DIRECTOR OF OPEN SOURCE, CORELIGHT

FOUNDER AND CHIEF TRAILBLAZER, SIGHTLINE SECURITY

FORMER DIRECTOR OF COMMUNICATION, TOR PROJECT

**Local governments allegedly targeted with Iranian 'Drokbk' malware through Log4j vulnerability**

SolarWinds attack explained: *And why it was so hard to detect*

**Buggy, Vulnerable Open-Source Code Seeps Into Business Tech**

Why open-source software supply chain attacks have tripled in a year

**IN THE  
NEWS**

Open source risks and vulnerabilities are no longer lurking in the shadows, they impact security across the spectrum.



## FREE SOFTWARE

Freedom to use, run, copy distribute, study change, and improve.



## OPEN SOURCE

Licensed source code that is open for free use, modification, and distribution.



## FREWARE

Proprietary (usually) software that is free to use.



# OPEN SOURCE IS EVERYWHERE

A foundation for MANY commercial codebases and is intertwined in development that many often don't know the open-source components of in their own software.

**94M  
DEVELOPERS  
ON GITHUB**



no longer the special few who are contributing to OS - many on company resources and time

**90%  
COMPANIES  
USE OPEN  
SOURCE**



often without even knowing it - tracking, prioritizing, engaging with projects is challenging

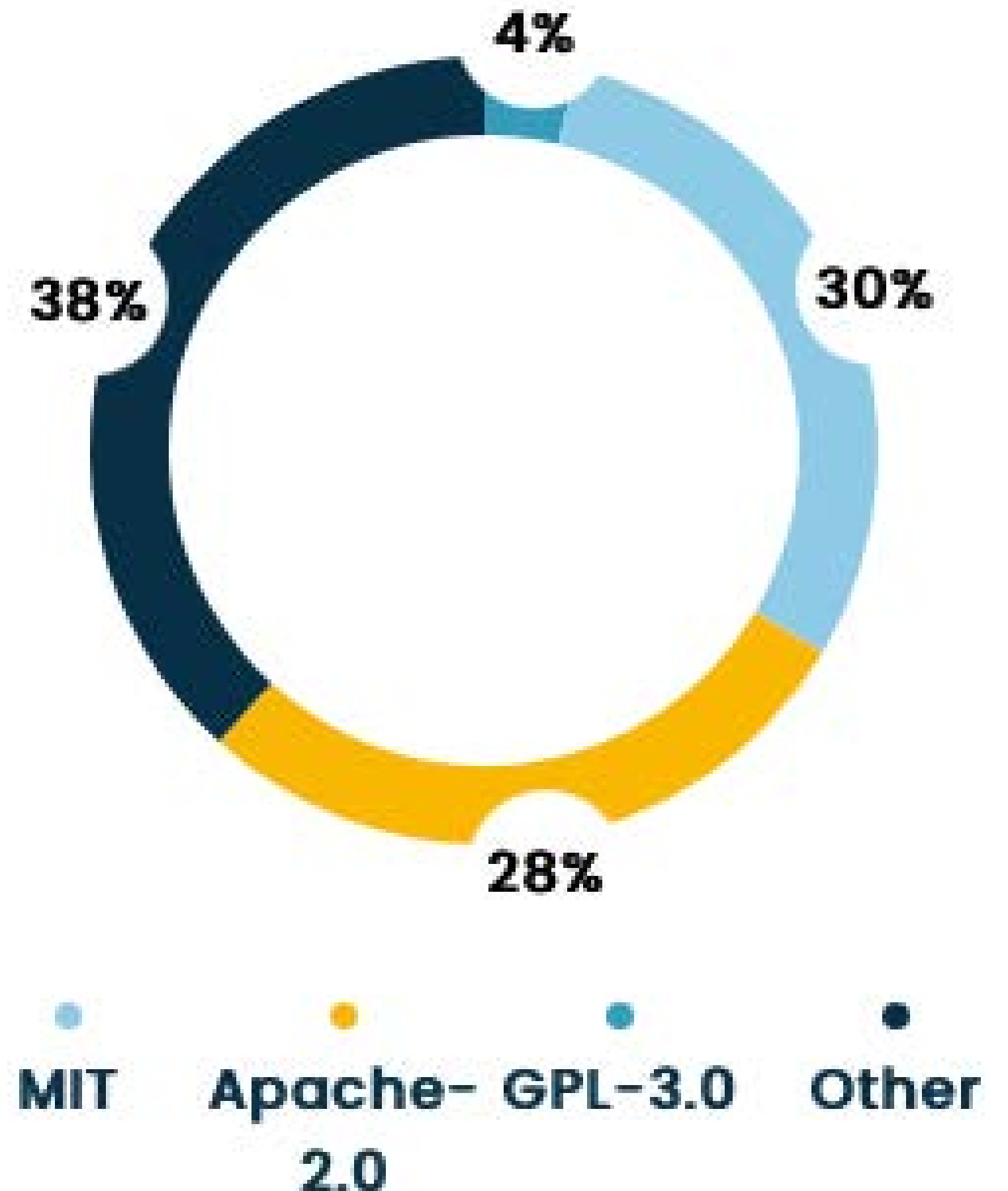
**413M  
CONTRIBUTIONS  
IN 2022**



open source projects are active but not all are healthy

# LICENSES ARE KEY!

Understanding the licenses is essential - from highly permissive to restrictive.



[SOURCE] <https://www.mend.io/blog/open-source-licenses-trends-and-predictions/>

[SOURCE] <https://opensourceindex.io>

# TOP RISKS

2023

1

## Known Vulnerability

exploited by an attacker

2

## Compromise Legitimate Package

resources that are part of a legitimate project or distribution

3

## Named Components

a malicious named component similar to a legitimate project

4

## Ignoring It

failure to keep track of open source components across the organization

# STEPS TO TAKE

Some open source projects are part of commercial business models, others operate independently.

## Governance

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Consider the governance structure of the project and what that means for longevity and sustainability.



## Community

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Pay attention to the people behind the project and participate.



## Roadmap

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Evaluate existing roadmaps and the processes by which they are maintained and followed.





# COMING!

Complex Licenses

Innovations & Ideas

Attack Vectors

AI & ML

Frameworks



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# THANK YOU

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KELLEY MISATA

