CHAOSS

ORGANIZATIONAL PARTICIPATION IN OPEN COMMUNITIES

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NETFLIX

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AUTOMOTIVE GRADE LINUX

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Firefox OS

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amazon
web services

ERICSSON

THE HOME DEPOT

AT&T

Qualcomm

Expedia

vmware

TARGET

comcast

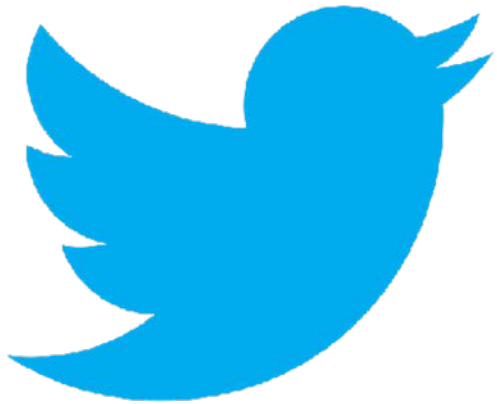
Microsoft

GitHub

LinkedIn

HUAWEI

redhat



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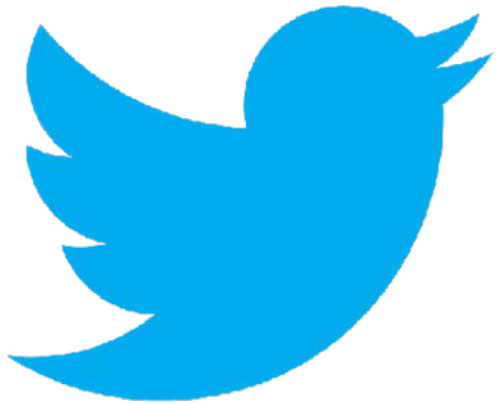

Bootstrap

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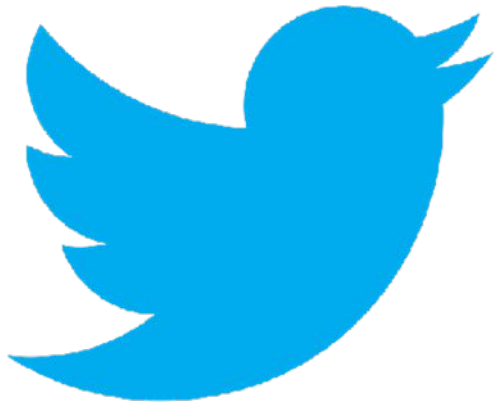

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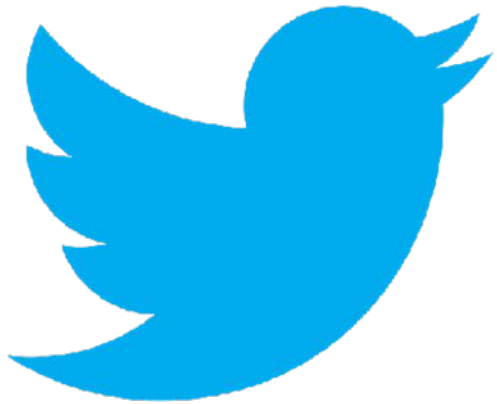
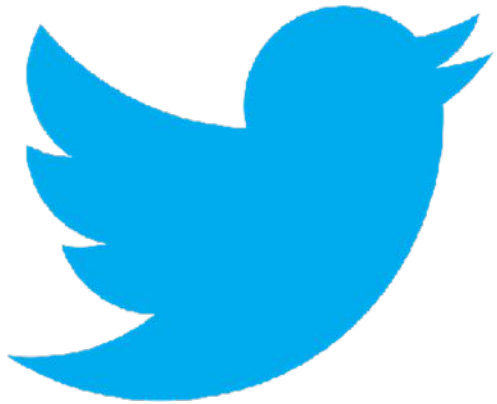


Bootstrap

kubernetes



Bootstrap

kubernetes

CITRIX®

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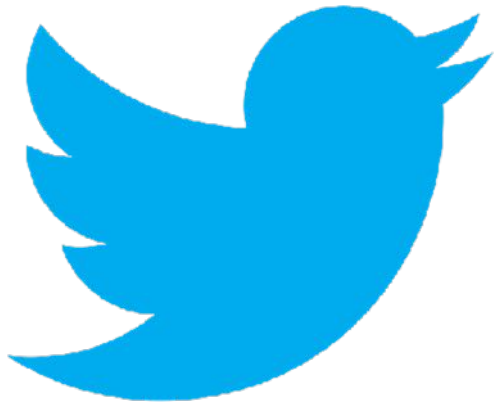

Bootstrap

kubernetes

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Xen Project

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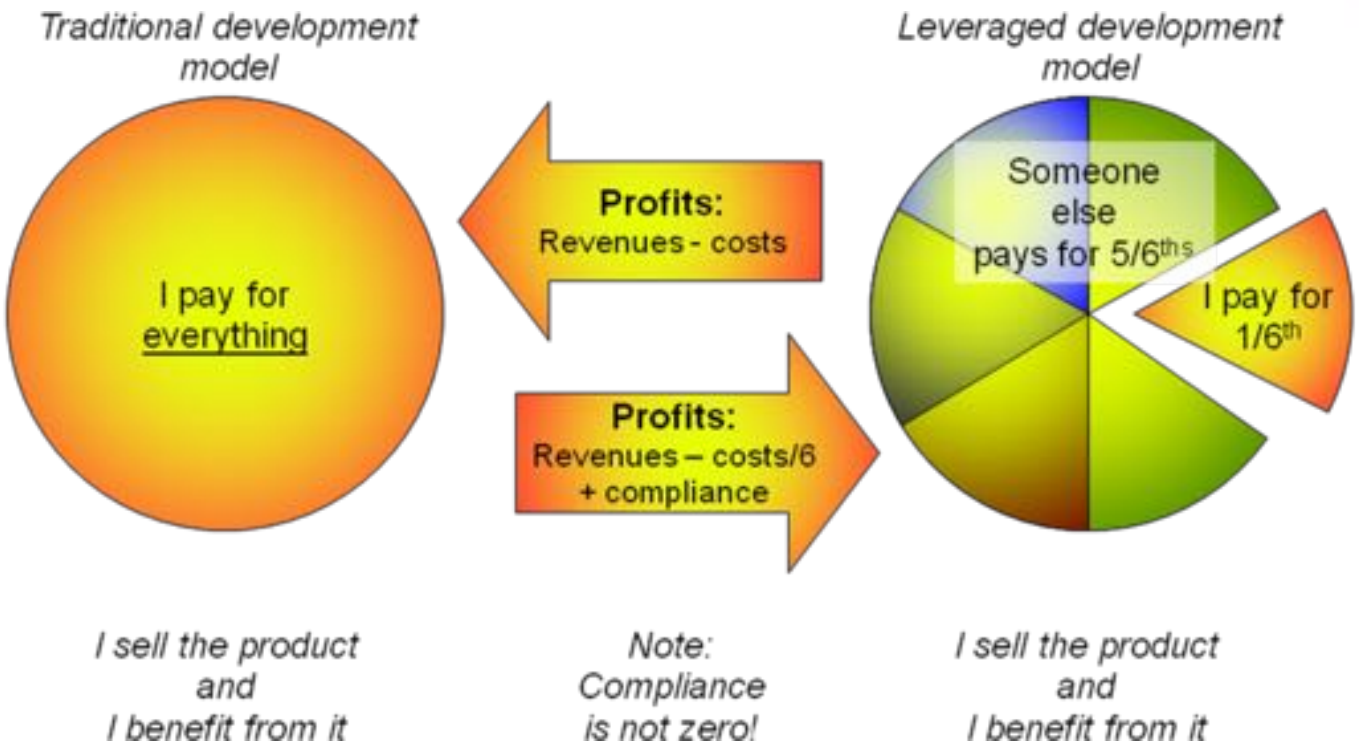
Leveraged Development



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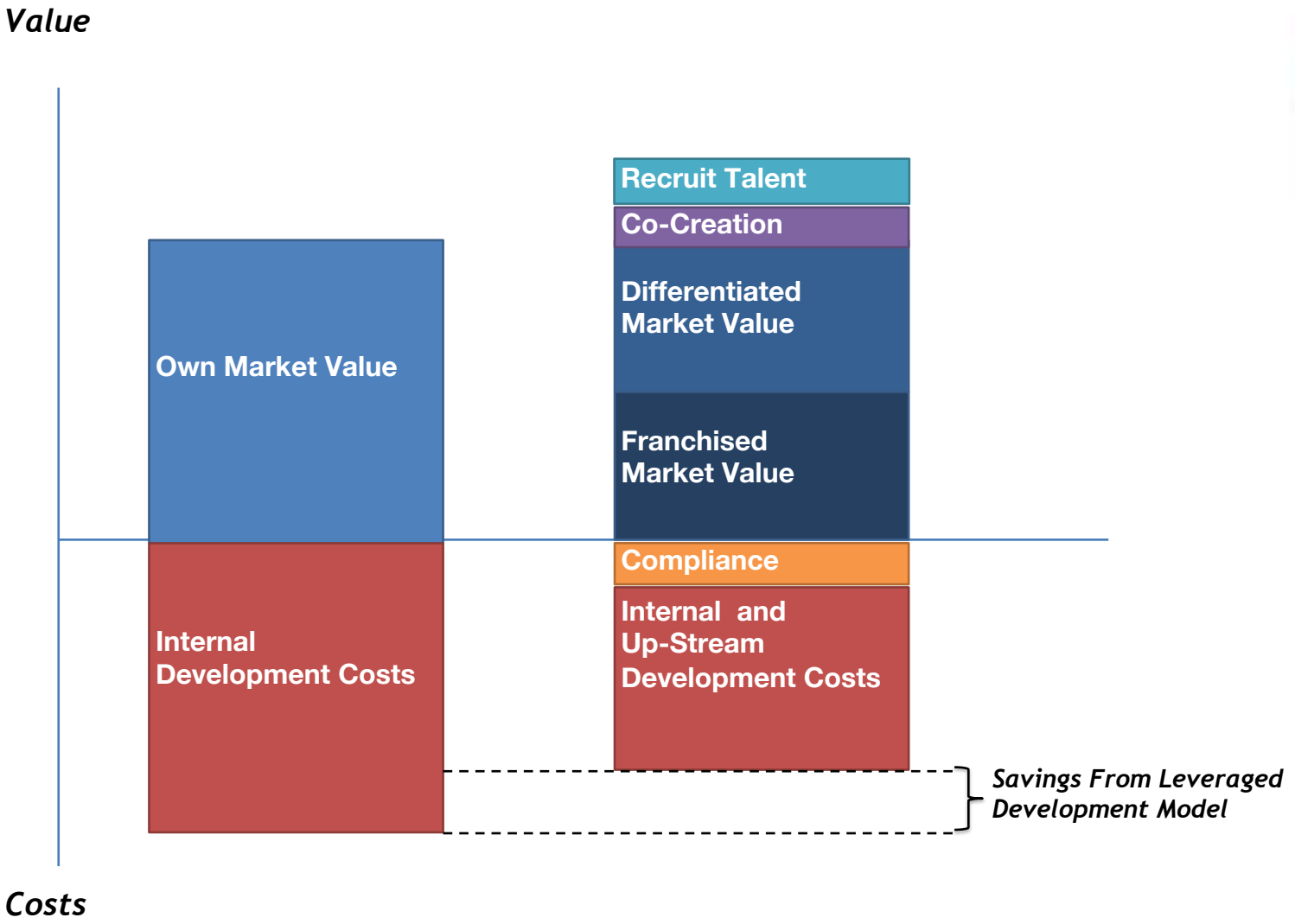
stackoverflow


Value
Recruit Talent
Co-Creation
Differentiated Market Value
Own Market Value
Franchised Market Value
Compliance
Internal and Up-Stream Development Costs
Internal Development Costs
Savings From Leveraged Development Model
Costs

Using Open Source Software

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EQUIFAX®

THE
HEARTBLEED
BUG

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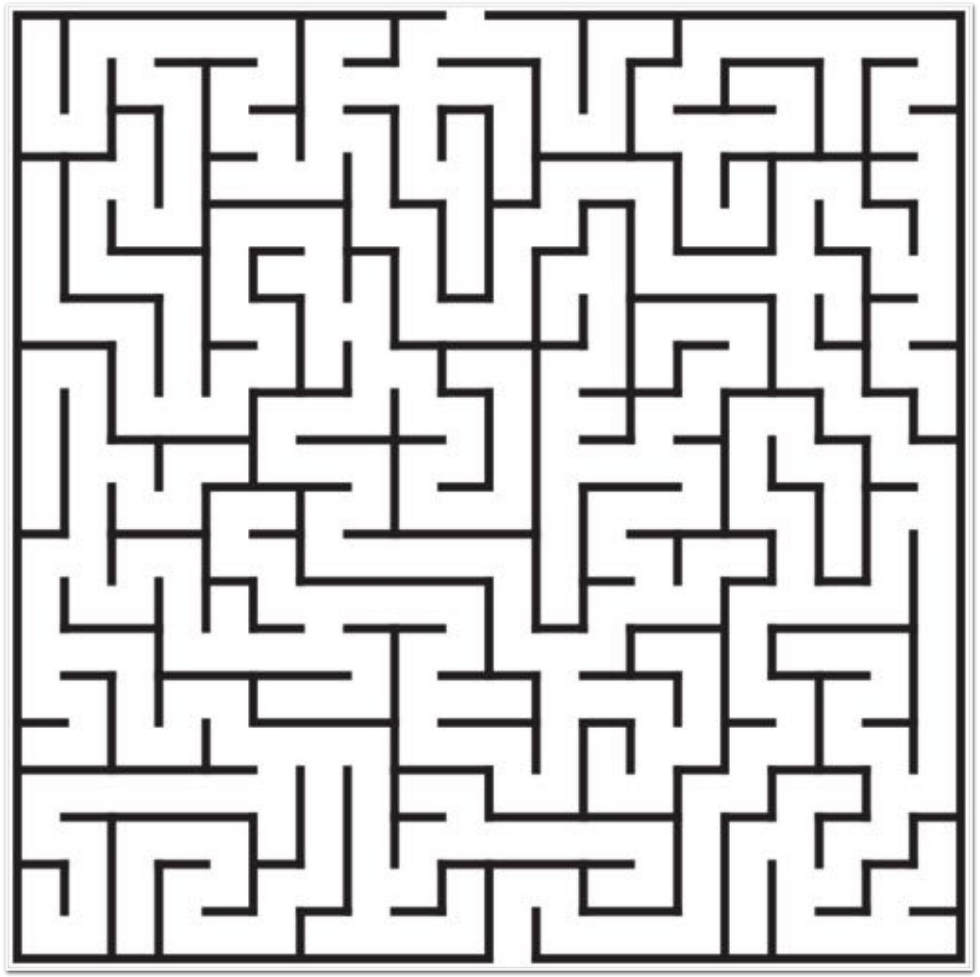

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Open Source Software is Three Things

Obligations set forth by owners of a particular work – such as software – that govern the use of their work.

An Open Source Community is a collection of developers and users with a common interest in the creation, enhancement, and support of a specific piece of Open Source software.

Working with Open Source software requires a general methodology that guides Open Source development by the community. Although there is more than one Open Source methodology, most share certain characteristics such as open development.

- You can use all three as a competitive advantage
- The business model shifts to contribution and support
- The more you get involved, the more you can influence/control
- If you don't understand the licensing, you may expose proprietary information unintentionally

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Licenses

Licenses

- More than 100 licenses today as recognized by OSI and SPDX
- Two basic types of licenses
  - ➢ Reciprocal licenses that require code changes to be returned to the community at large. This type of license is also called a Copyleft license.
  - ➢ Licenses that permit modified versions to be retained as proprietary and permit arbitrary integration into proprietary software.

Copyrights are still a core foundational element of all Open Source licenses

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Community

- Any collection of developers with a common interest
- Historically made up of free agents
- Increasingly funded by large companies sharing development costs
- Governments and academia also contributing at an increasing pace
- Membership & “rank” within community based on individual’s reputation
- Corporate reputation plays a significant, yet secondary role

Open Source Communities are a meritocracy in the sense that reputation and influence are measured by sustained individual contributions rather than corporate directives.

Methodology

- Communal, shared development
- Various projects each with their own subculture
- Very few roadmaps, but some projects are starting to publish them
- Influence and control is achieved by being involved
- Individuals are largely in control, not companies

Governance models vary widely,
some autocratic, others consensus based

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However, ‘open’ is a broad word that has come to have different meanings

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Open Source

- Historically, open source has strong egalitarian roots, with an clear intention of upholding the ‘free’ in free software.
- Such an environment is extremely valuable but also presents challenges for organizations

Open Source Risks

- There is risk to the community if participants do not meet expectations as open source maintainers, implementing critical features in ways negatively impacting release quality or release timeline.
- There is risk to participants if the community cannot sustain a leveraged development model, requiring abnormal stabilizing resources from participants.
- There is risk to participants, stemming from accidental or intentional non-compliance with open source licenses as expressed by the community.

Domestication of Open Source

- As open source evolves to be part organizational business models, structures can foster clarity, approachability, and stability in the risk-laden environment of product and service development in such ecosystems.

FOSS is Like a Natural Resource

- Any Open Source project requires an ecosystem to survive
- Many businesses utilize the ecosystem to bring products to market in some way
- Organizations exist for the sole purpose of protecting the commons (such as the Linux Foundation and the Software Freedom Conservancy)
- A company's relationship should be a symbiotic one

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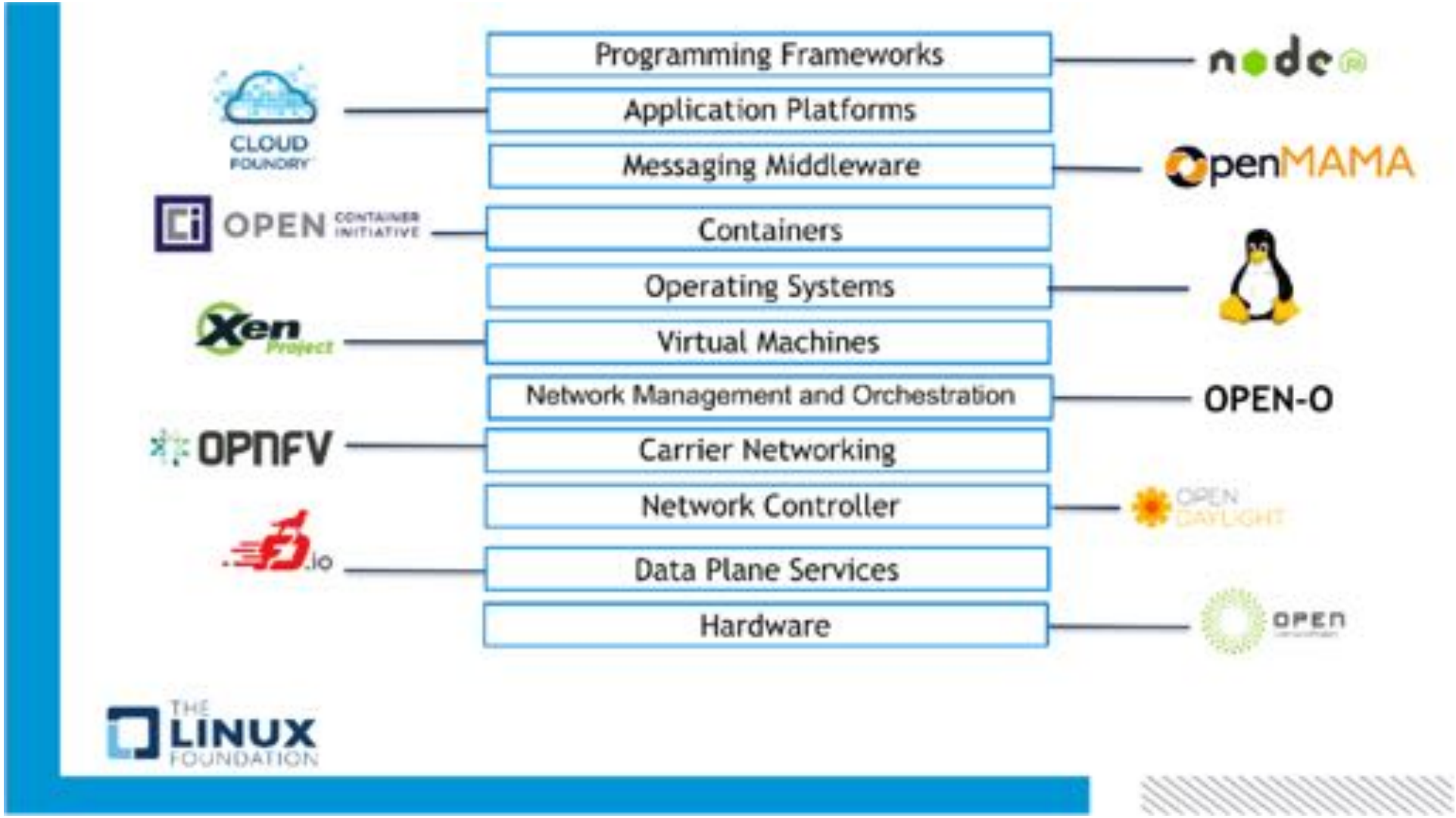
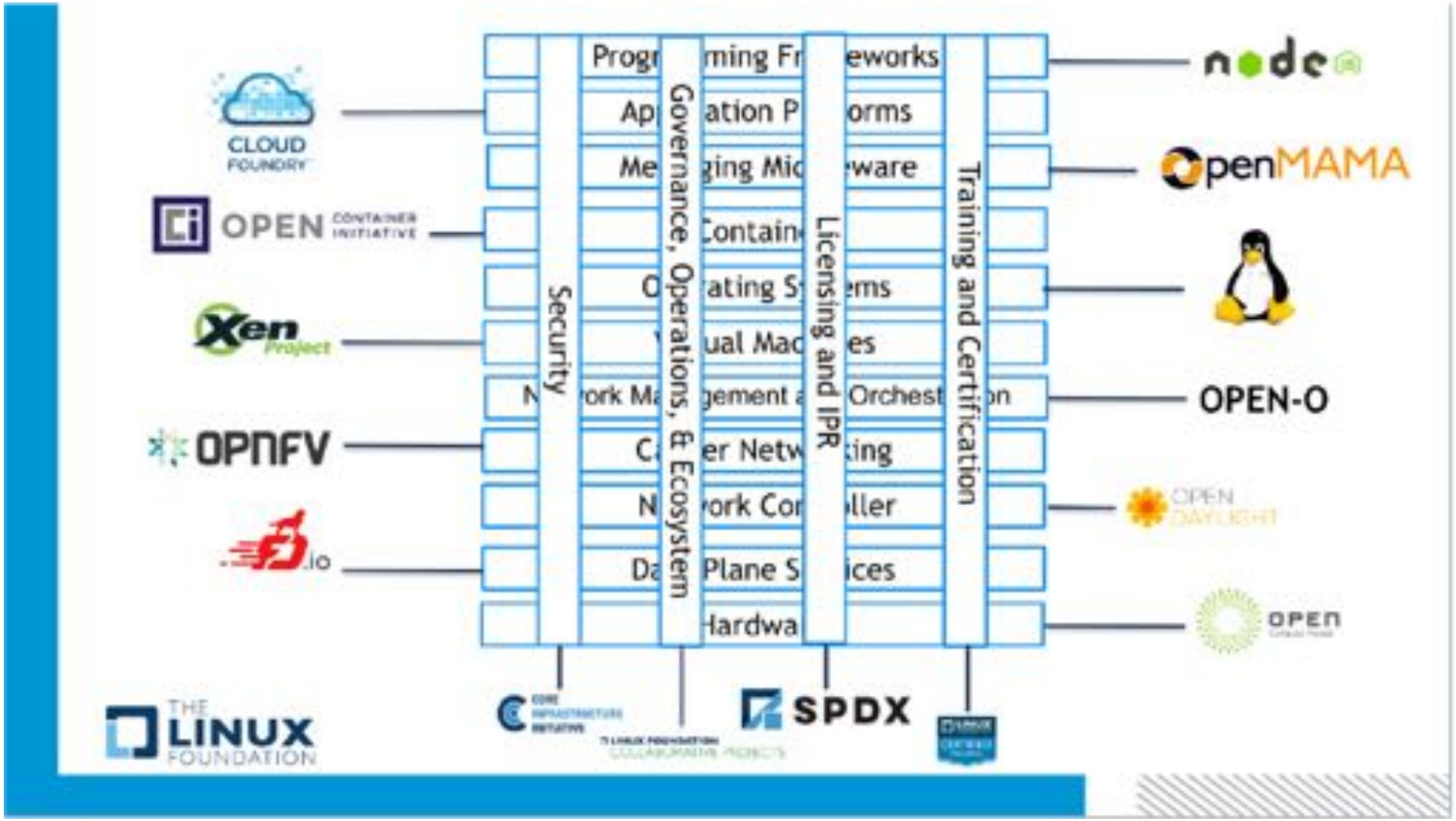

Programming Frameworks
Application Platforms
Messaging Middleware
Containers
Operating Systems
Virtual Machines
Network Management and Orchestration
Carrier Networking
Network Controller
Data Plane Services
Hardware
CLOUD FOUNDRY
OPEN CONTAINER INITIATIVE
Xen Project
OPNFV
.io
node
OpenMAMA
OPEN-O
OPEN DAYLIGHT
OPEN
THE LINUX FOUNDATION


CLOUD FOUNDRY
OPEN CONTAINER INITIATIVE
Xen Project
OPNFV
.io
Security
Governance, Operations, & Ecosystem
Licensing and IPR
Training and Certification
node
OpenMAMA
OPEN-O
OPEN
SPDX
THE LINUX FOUNDATION

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Interactive FOSS Trivia

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Filing a Grievance

How many Linux (kernel or subsystem) developers does it take to file a grievance against an infringer to cause legal action?

a. One – Any Linux maintainer
b. All copyright holders of Linux acting together
c. One – Any copyright holder of Linux
d. One – Linus Torvalds
e. None of the above

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d. One – Linus Torvalds
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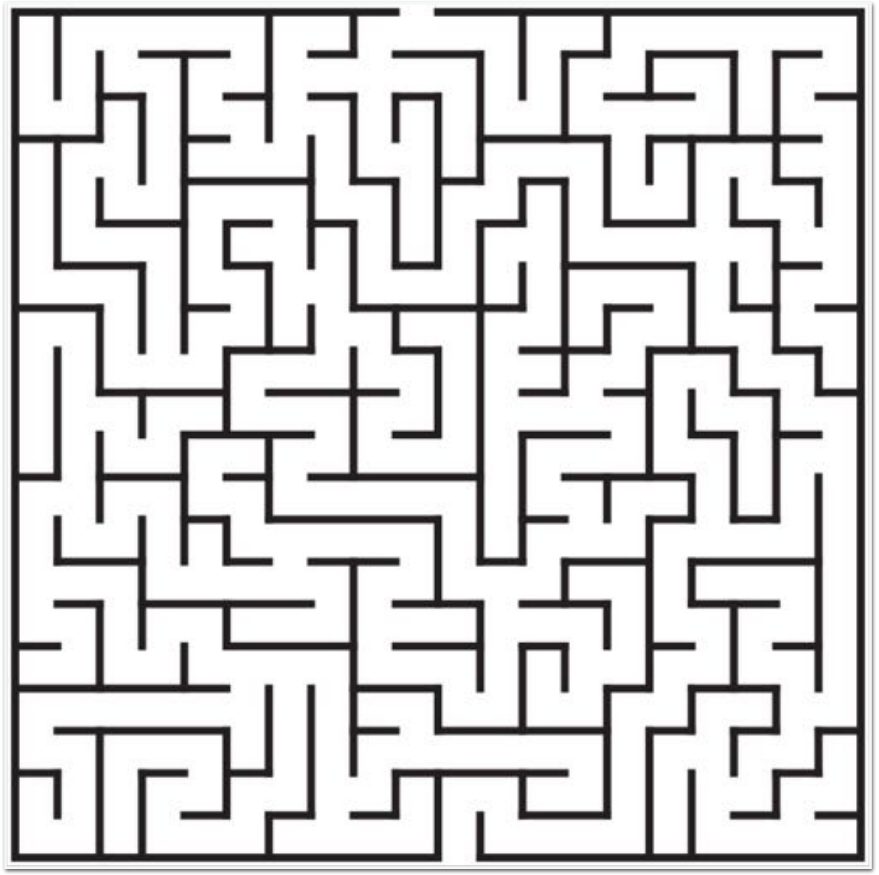
It only takes one copyright holder to enforce a license for any given piece of Open Source. Replace “Linux” with any copyrighted work and the same applies (e.g. BusyBox)

How Can We Better Understand This?



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How Can We Better Understand This?

https://chaoss.community/
http://osg.facade-oss.org/projects?id=34

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http://83.169.21.23/fossology/
testuser/test

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https://bit.ly/2zYlyse

https://bit.ly/2uTPnUO

http://83.169.21.23/fossology/
testuser/test

Participate

- Know that you are working with open source software. Period.
- Attend a conference

- Be proactive within your organization

Thanks!

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