

Patterns and Practices for Open Source Project Success

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Freeloaders are Necessary

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WTFOSS*

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* Hat tip to @codepope



Community

USENIX

Linux

DECUS

Princeton

SHARE

We've shared software since we've written software
Writing good software is hard work

Berkeley CSRG

Free Software
Fountation

MIT Athena

ASF

Apache

Eclipse
Fountation

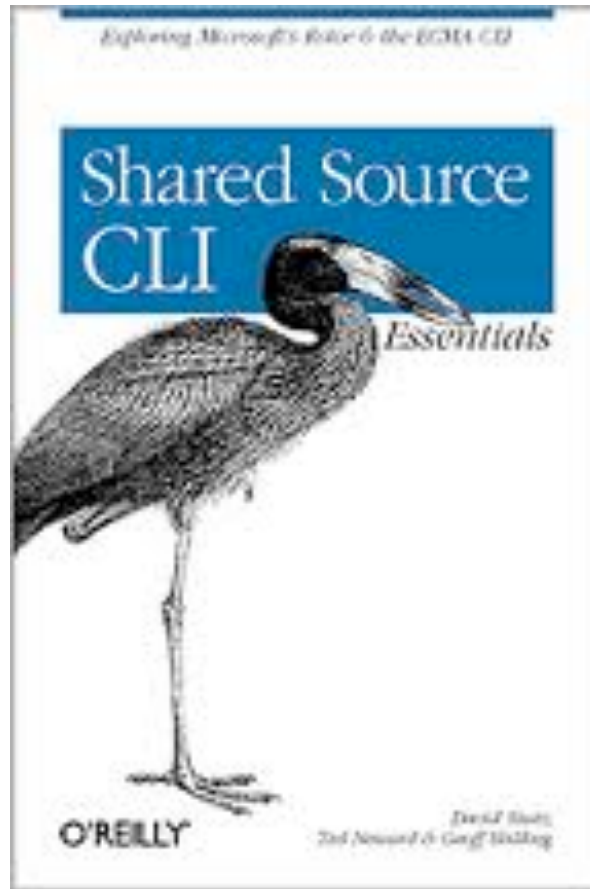
2 Stories

Orders

of

magnitude

ROTOR



500K LoC

500K Lines-of-Test Harness

Ran on Windows, Mac OS X, FreeBSD

One script to set environment

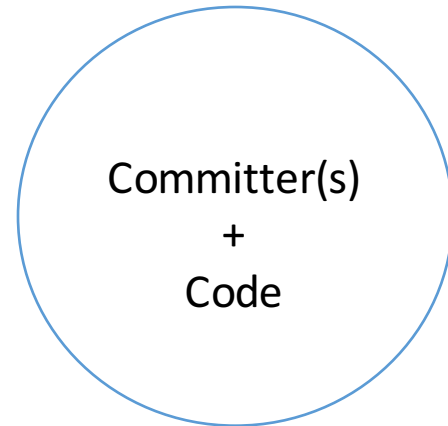
One command to build everything

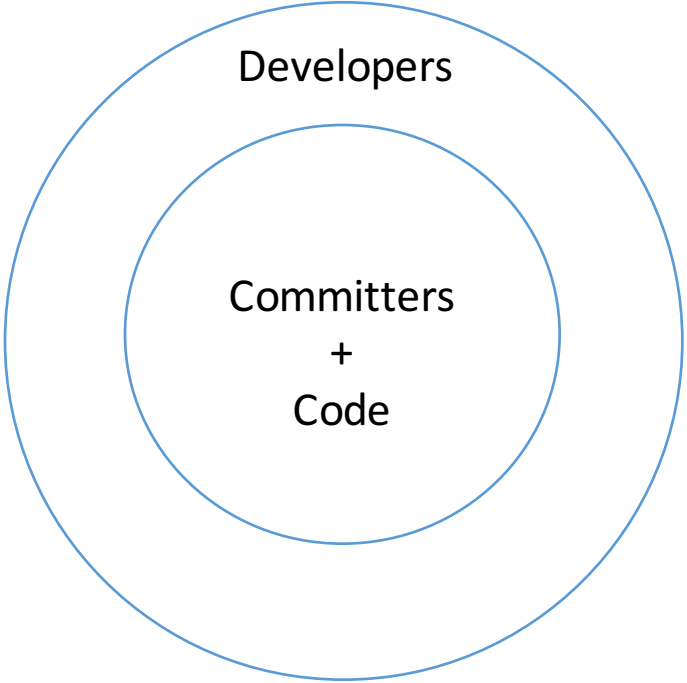
One command to test it all

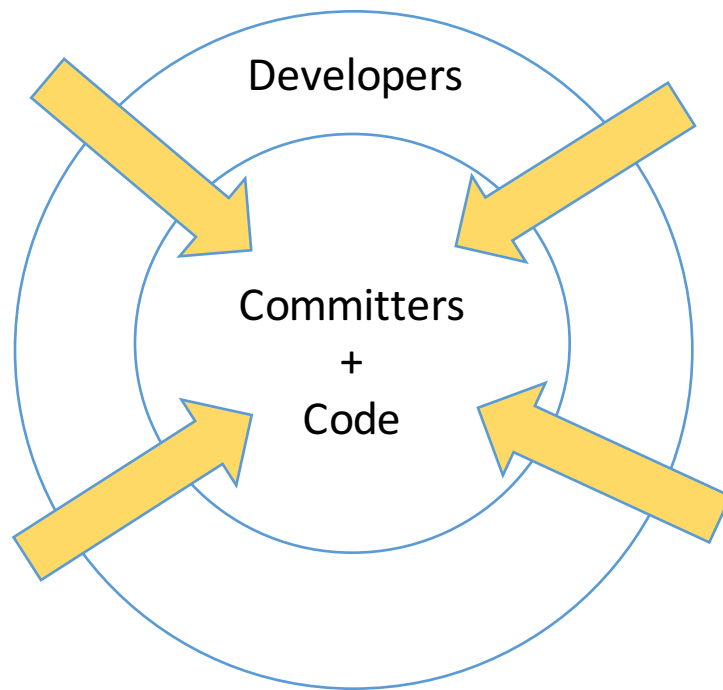
Minimal documentation

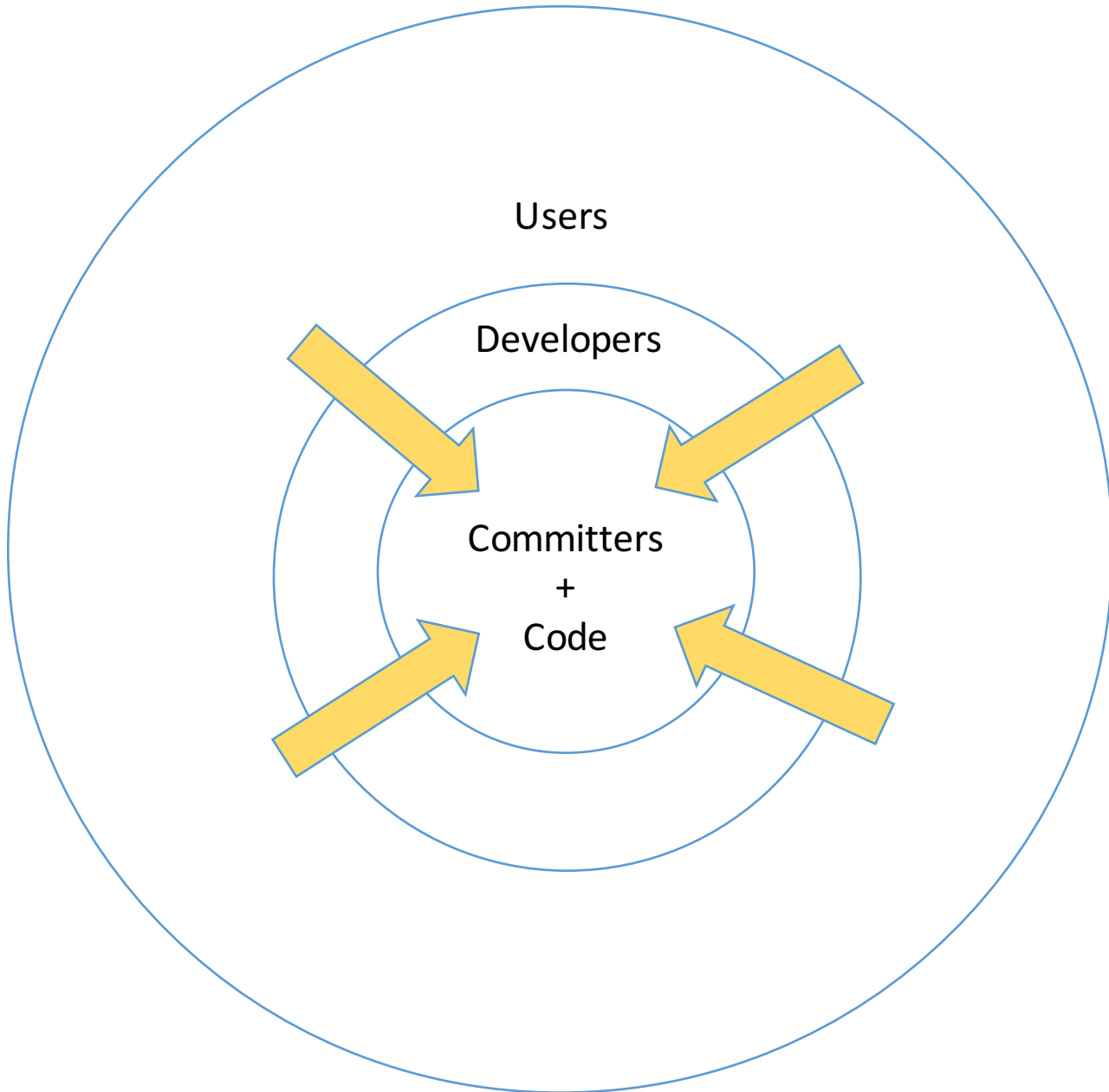
24 hours later ...

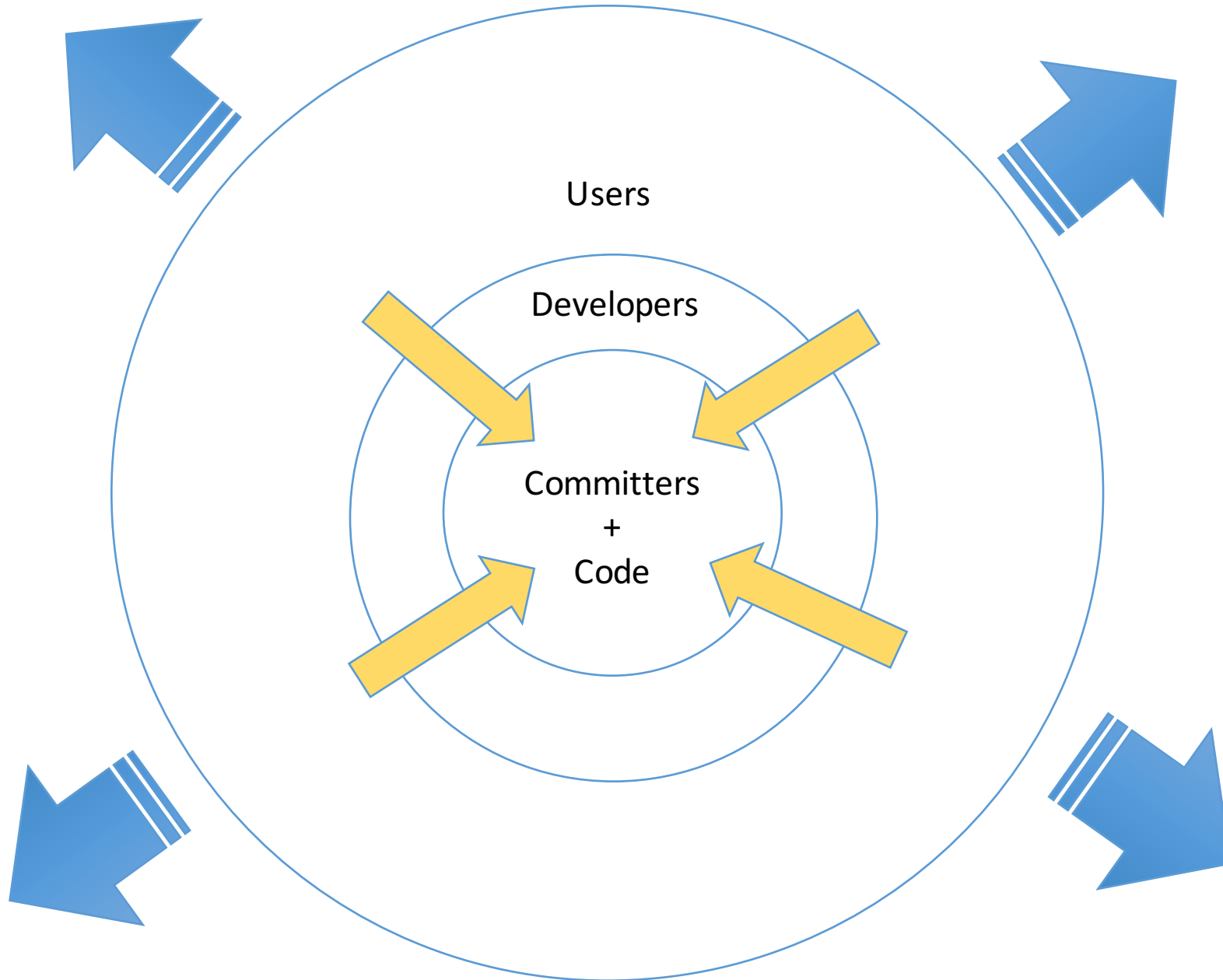
24 hours later again ...











How do you increase your user base?

(How do you make it easy to install/configure/use the software?)

How do you encourage developers?

(How do you make it easy to build/test/experiment?)

How do you make it easy to contribute?

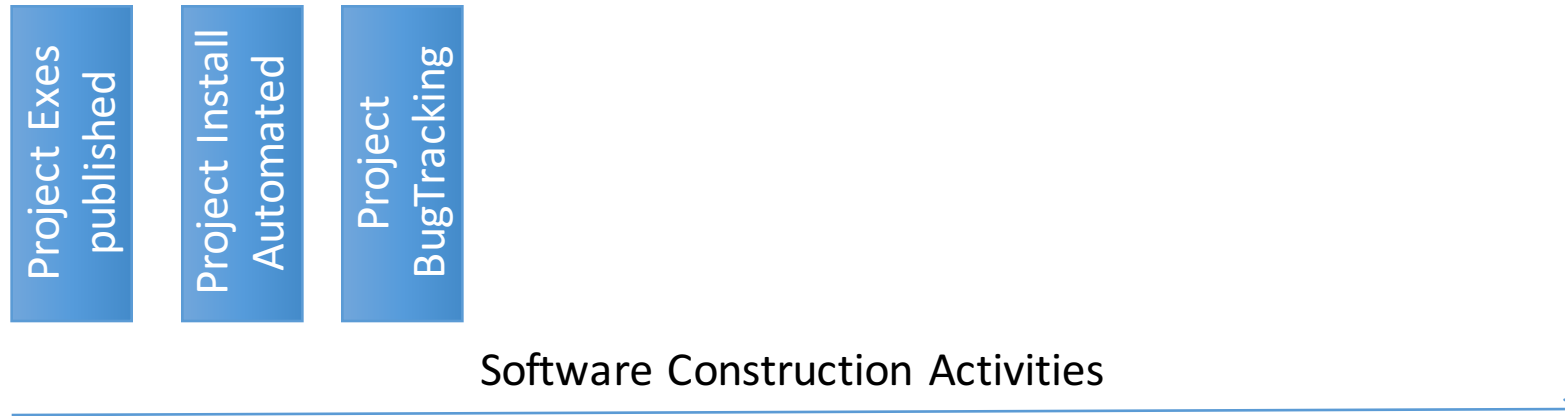
(What do you communicate to your community)

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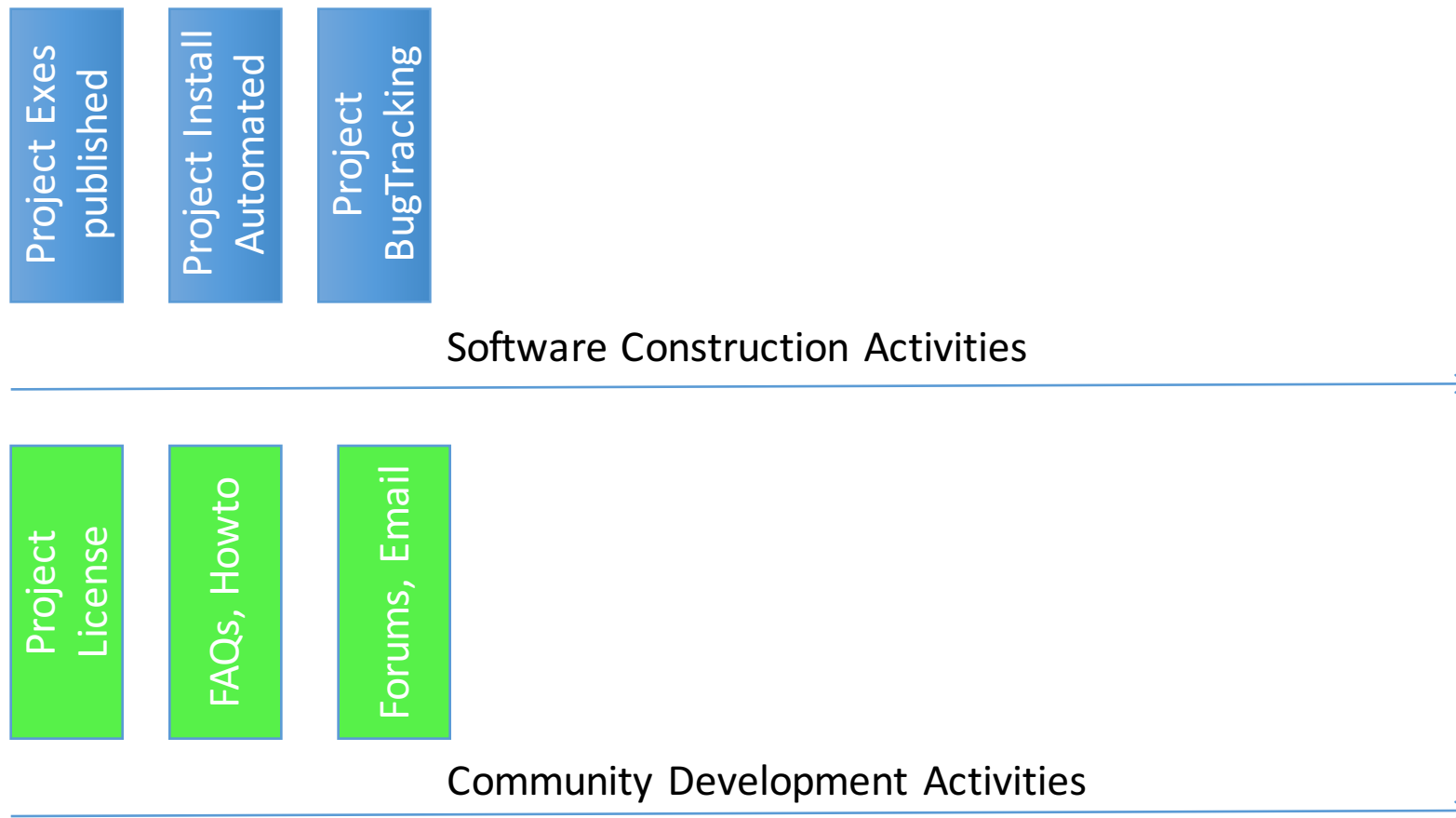
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IANAL

A small (2 minute) diversion on licensing

- Software is protected by copyright law
- Whoever wrote the software, owns the copyright
- People often give up copyright ownership in employment agreements
- There are a few well [understood | accepted] licenses: pick one
- These licenses define the most successful collaborations in history
- If you care about making money: educate yourself* & hire a lawyer
- If you [care | worry] about patents: hire a lawyer
- If you publish your project on Github: create the *%\$ing LICENSE file

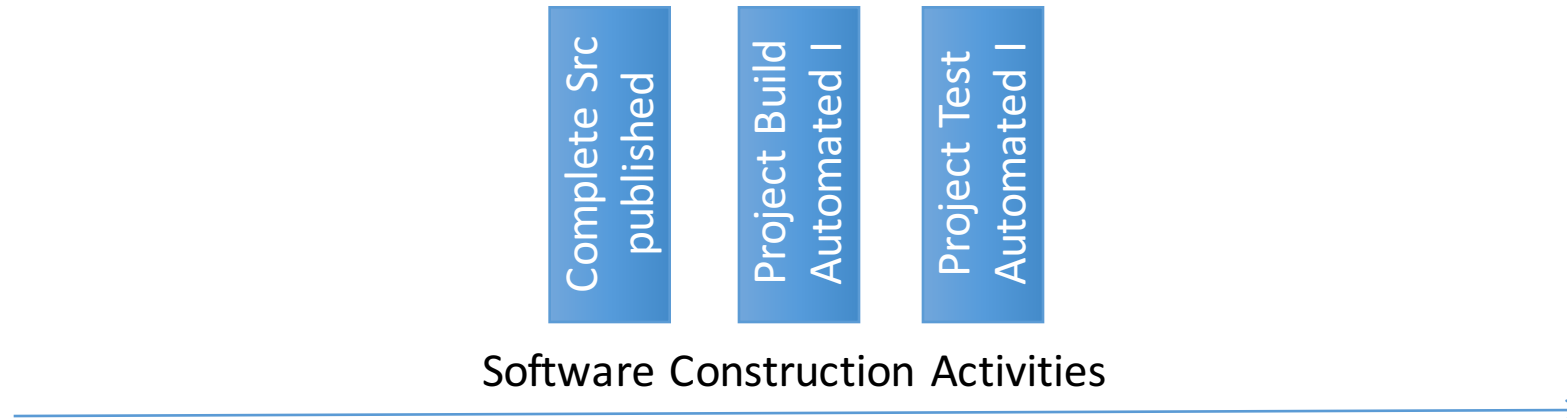
Writers | Artists | Engineers | Architects do it. So should you.

*Van Lindberg's [Intellectual Property and Open Source](#)

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(How do you make it easy to build/test/experiment?)

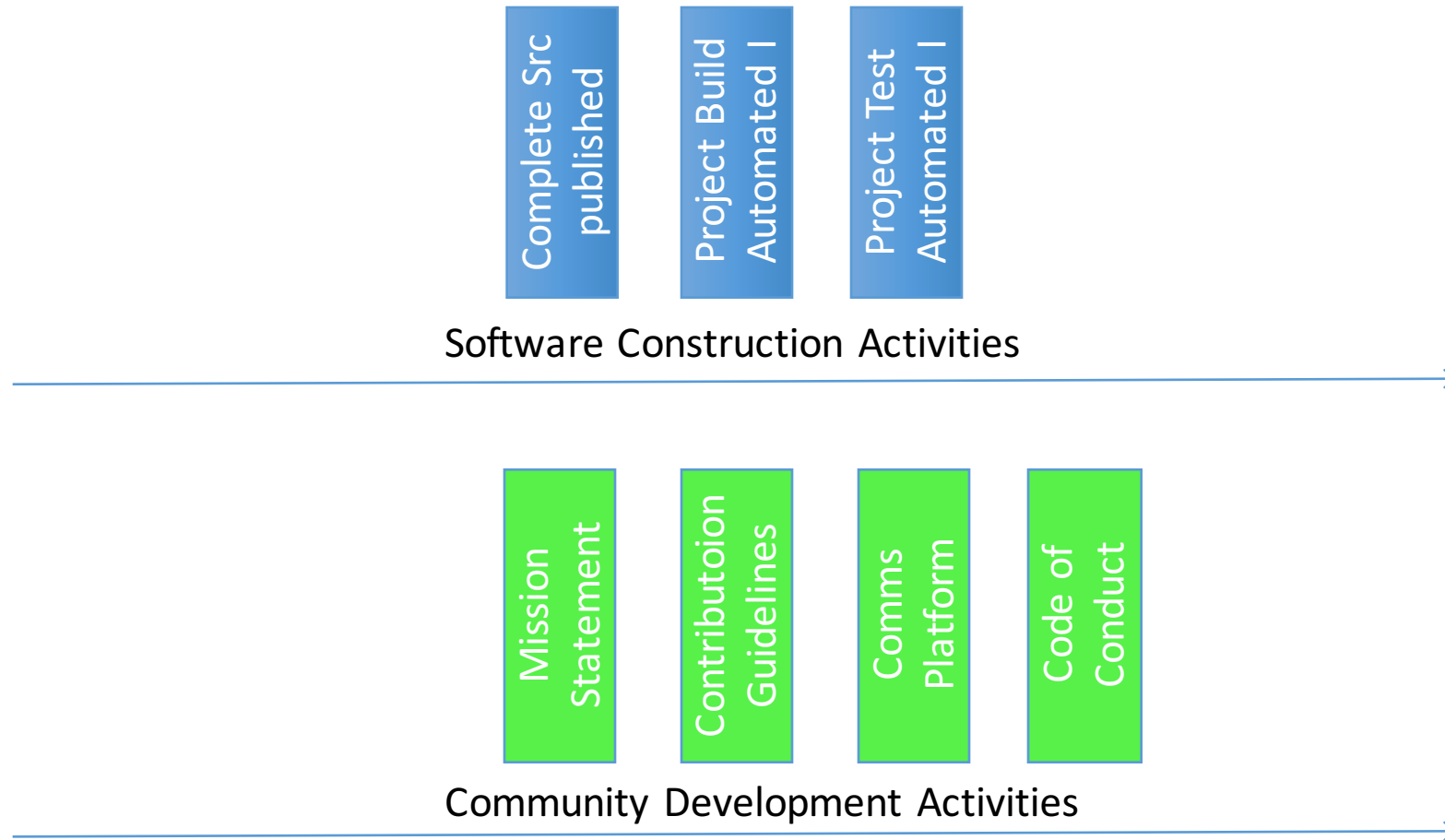
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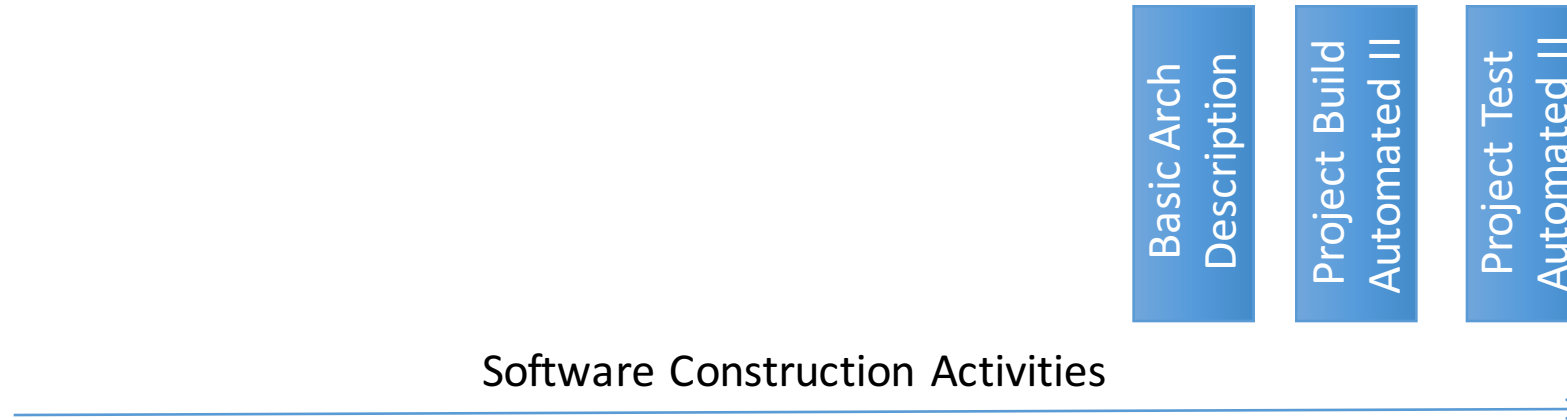


A small diversion on software engineering ...

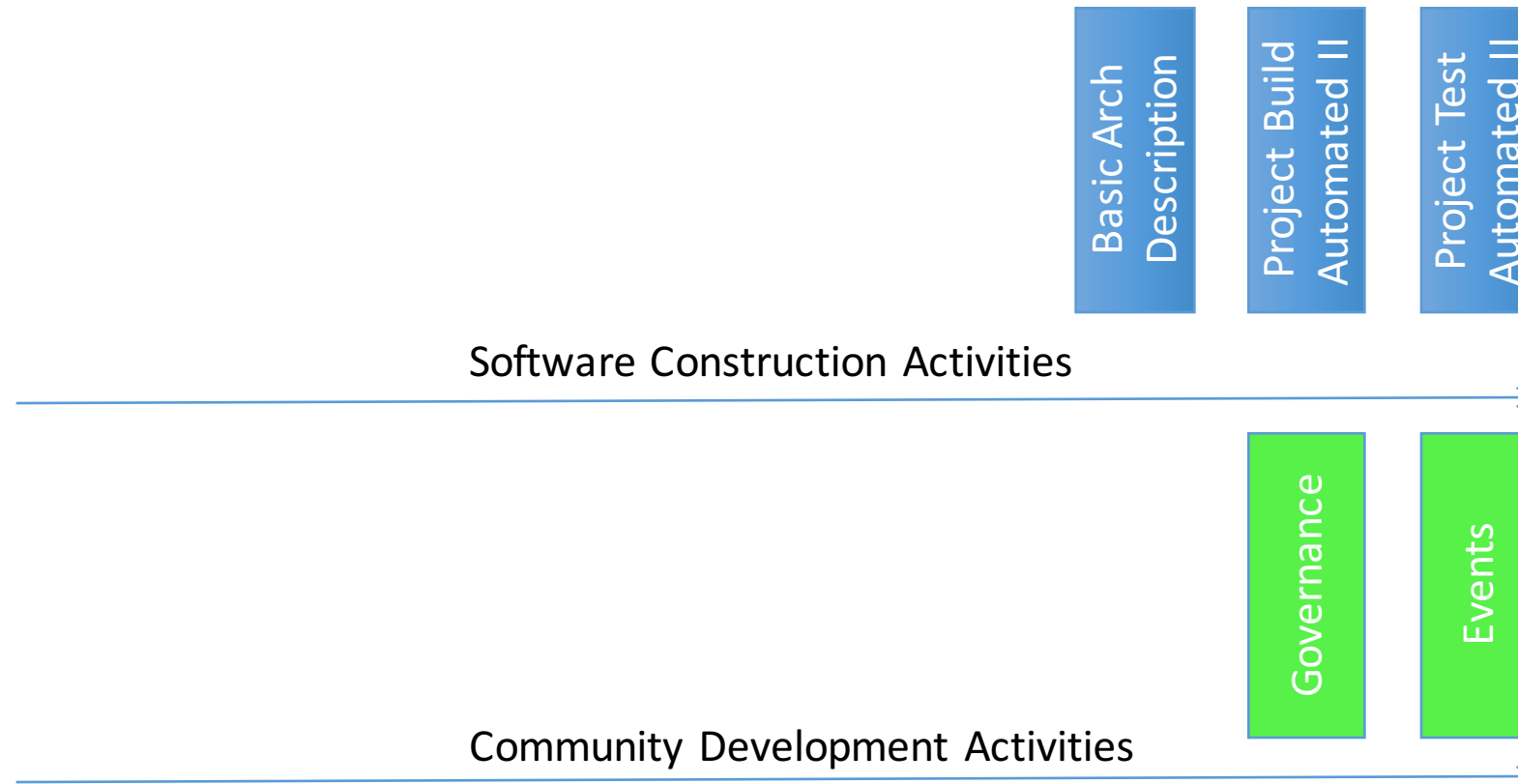
- 2 ratios define software development
- All advances in programming languages and software engineering is attempting to beat these two ratios
- [Community | Product] scale depends on reliably delivering the known executable environment every time
- Linus's Law is about **REVIEWS** not **BUG FIXING**

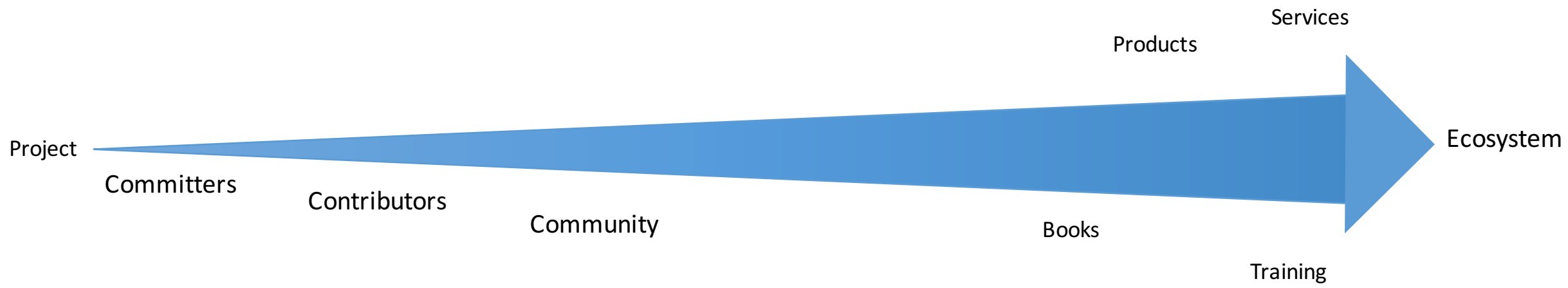
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(What do you communicate to your community)

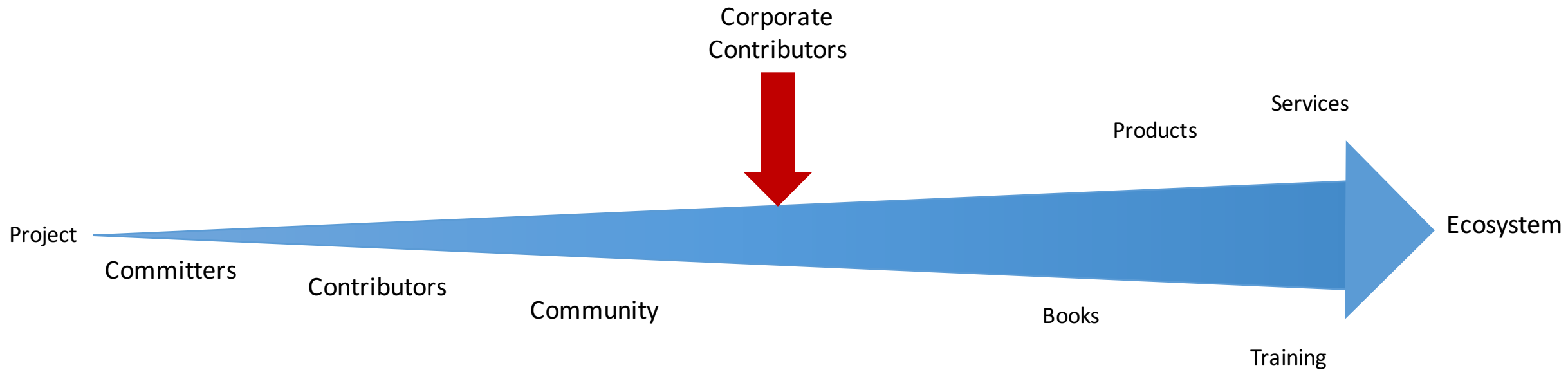
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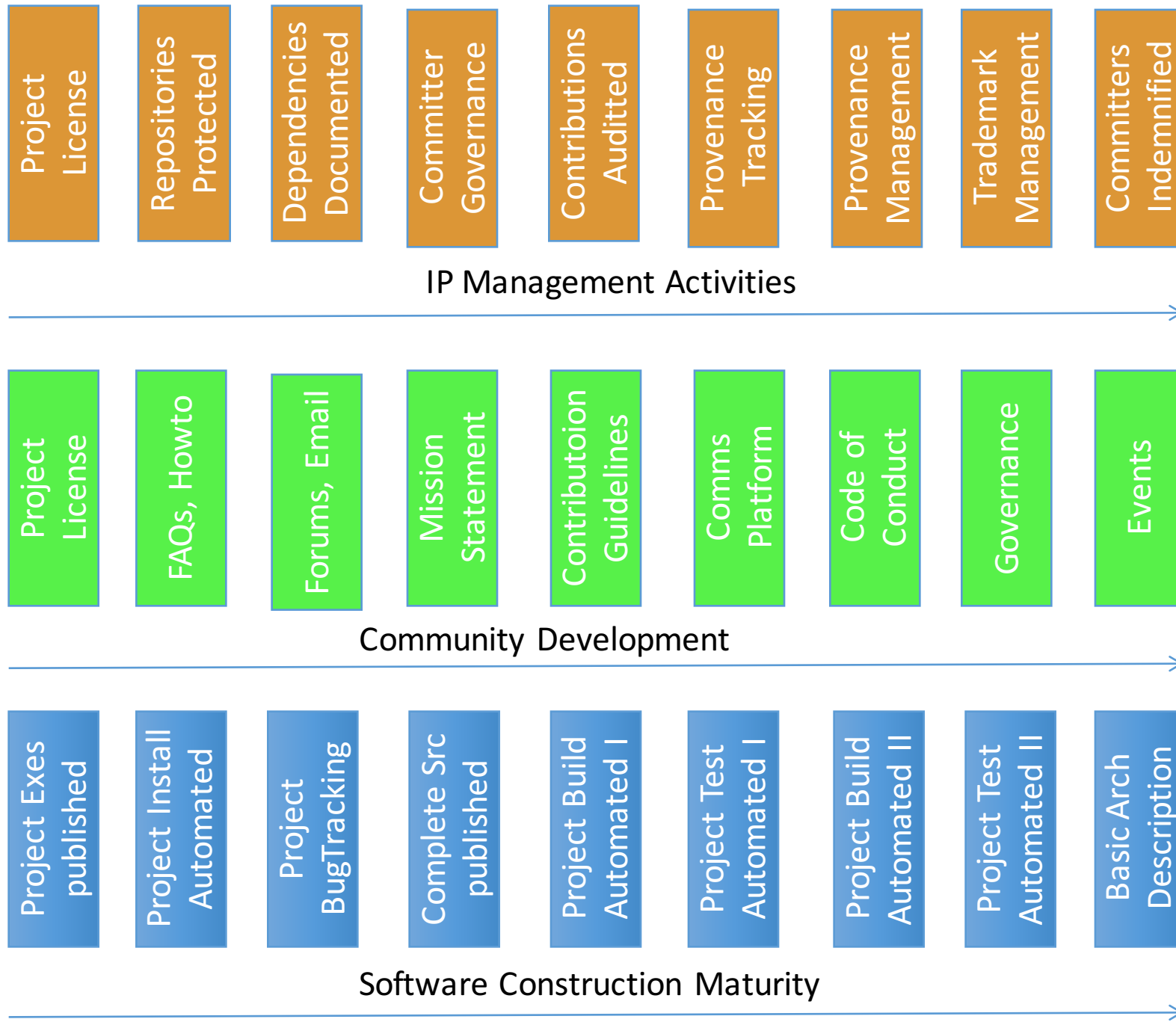
(What do you communicate to your COMMERCIAL community)



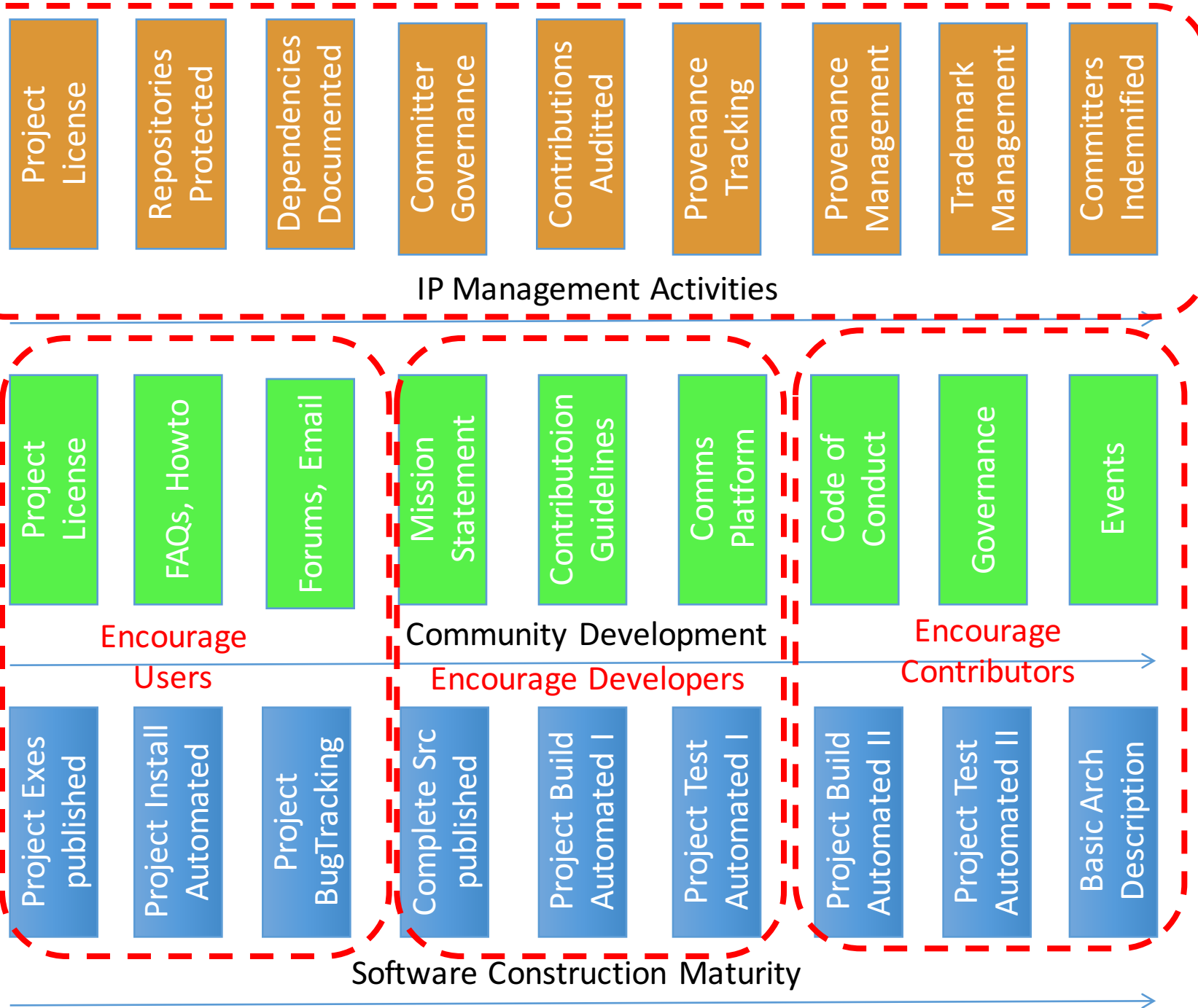
Foundations

- Henrik Ingo's numbers
- Foundations provide neutral ownership and a level playing field
- Bright lines for projects versus products

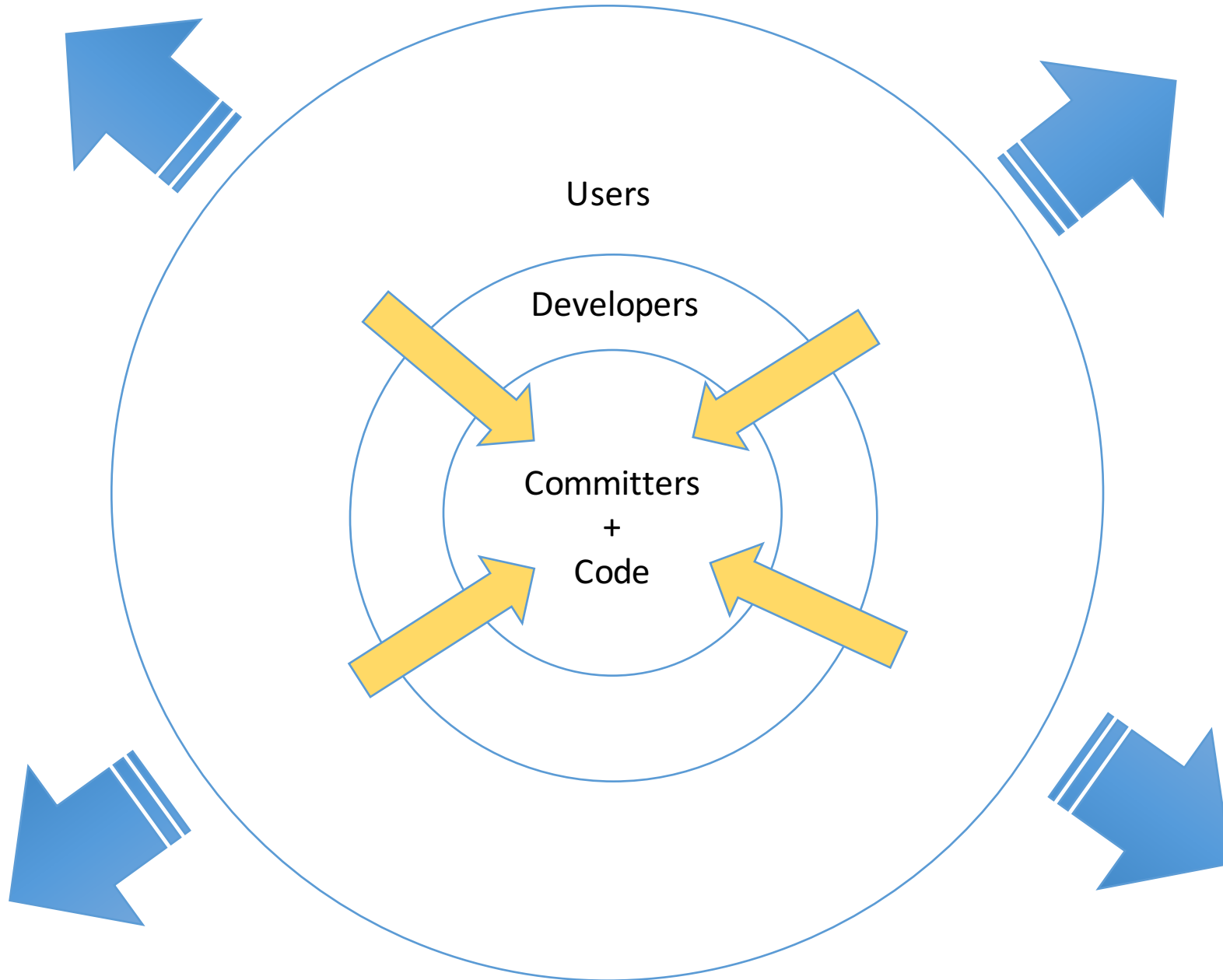
Open Source Community Practices



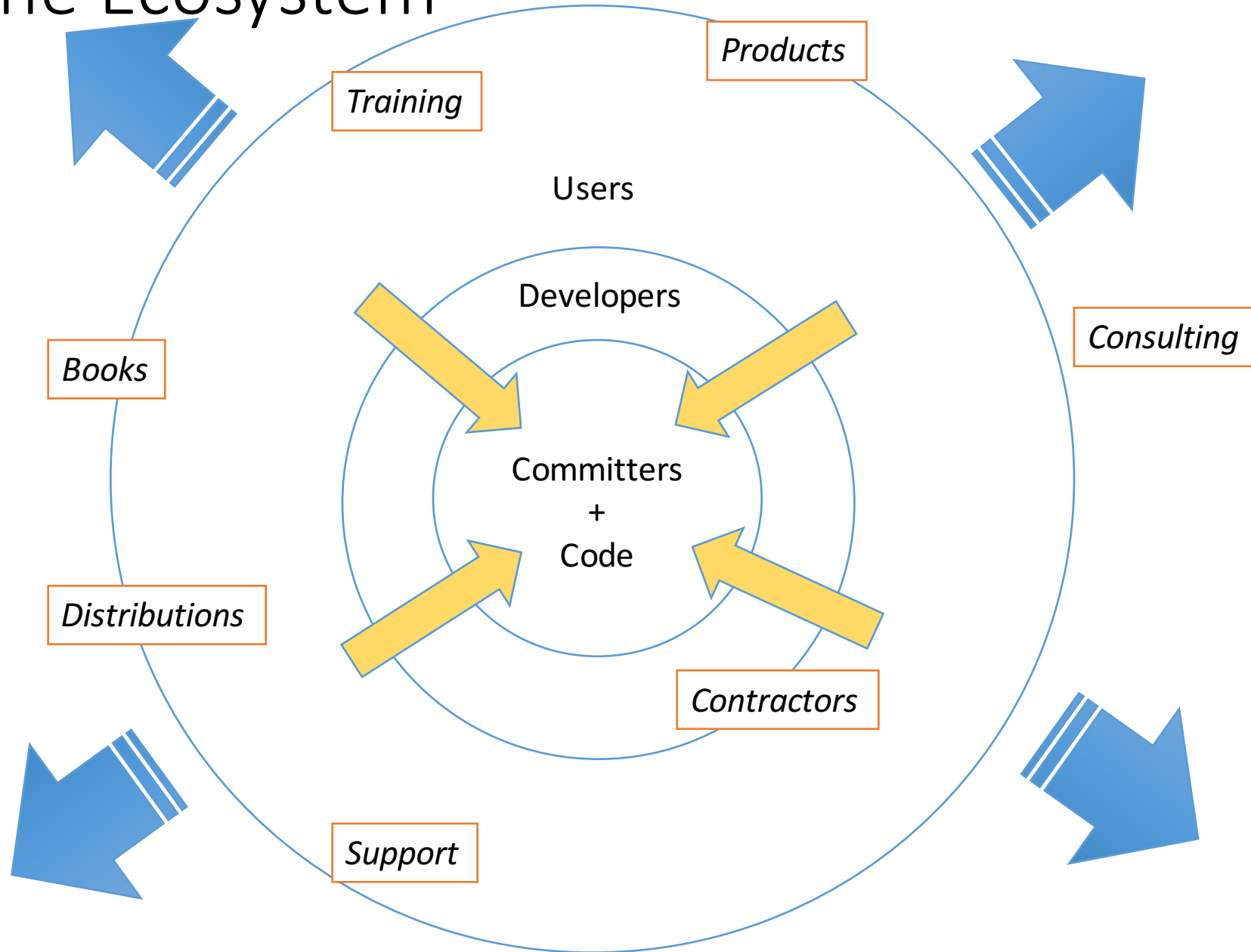
Open Source Community Patterns

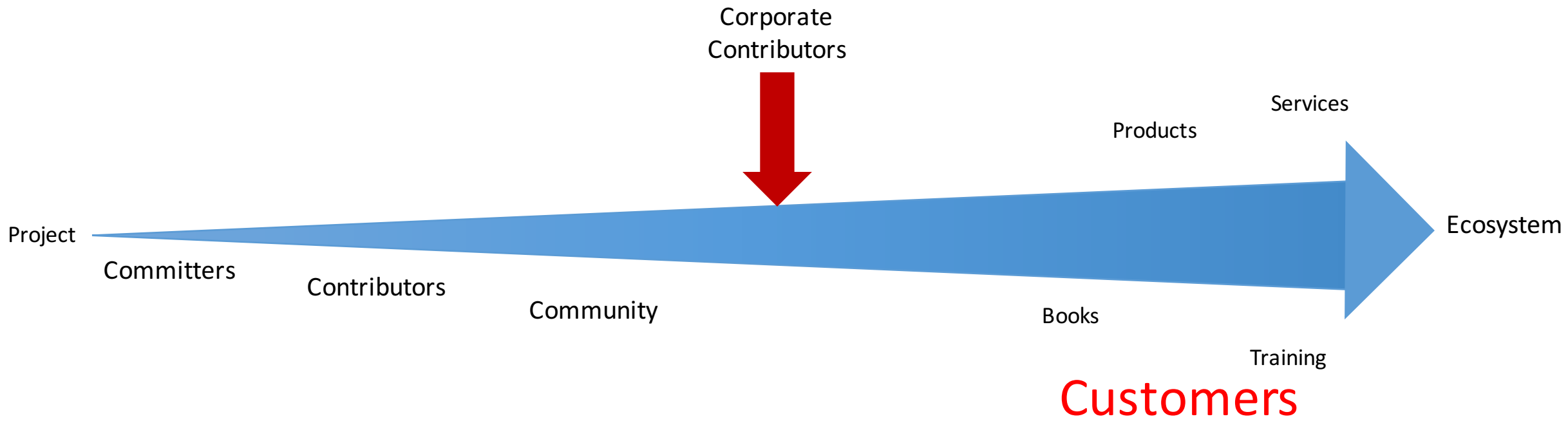


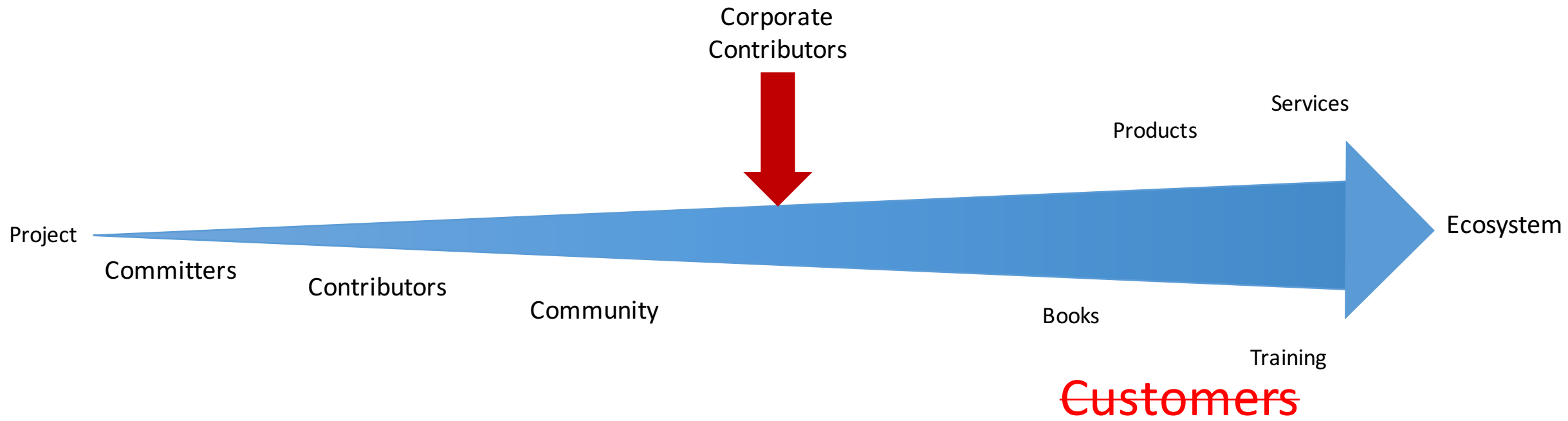
Encourage Corp Contributions



Building the Ecosystem







Questions & Comments

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