
Starting with Inner Source

Open Source Strategy Forum
London, 2018

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Daniel Izquierdo
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@Bitergia co-founder. Open and Inner Source advocate. Love data analytics. Python developer.

Bitergia co-founder

Software Development Analytics for
Open and Inner Source Projects

100% Open Source

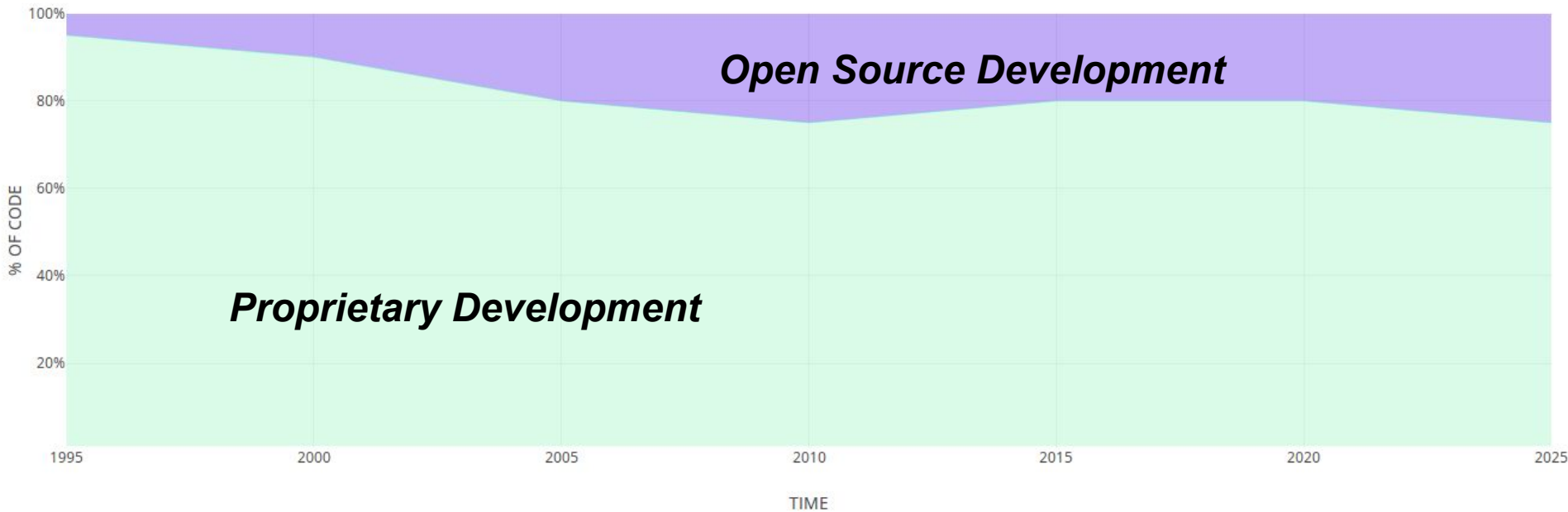


<https://innersourcecommons.org>



Community Health Analytics for OSS Projects
<https://chaoss.community>



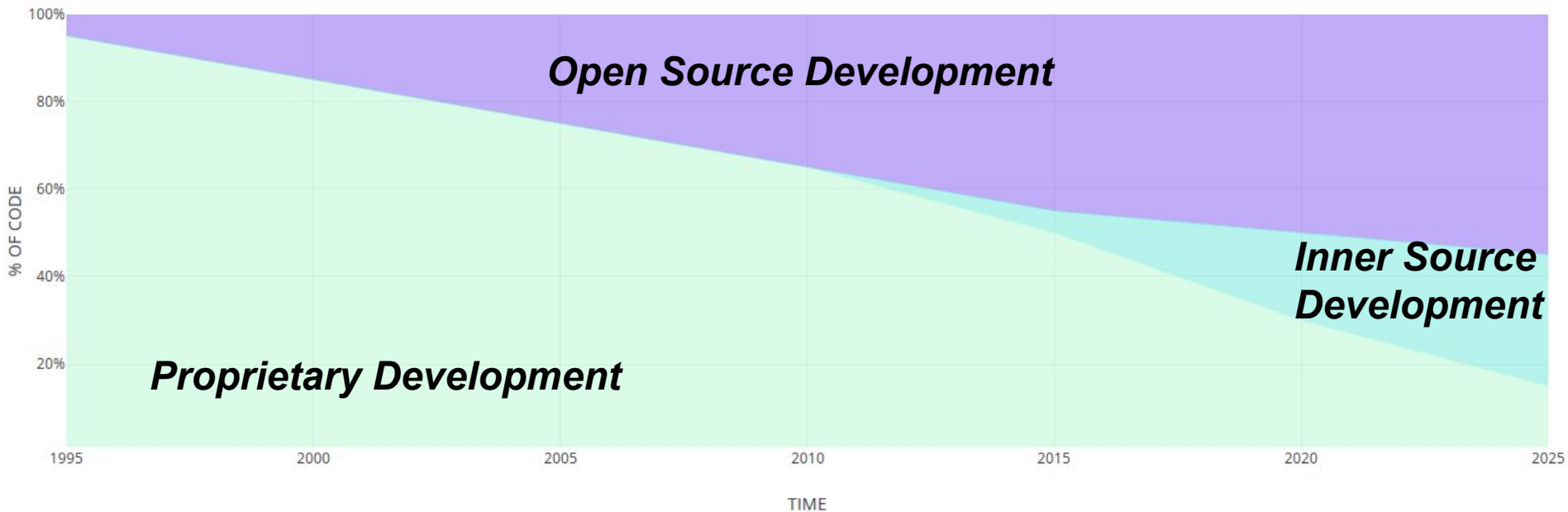


Specific
Context



1 Business
Value

3 Rest of the
Software, OS,
infra, libraries,
etc



What is the valuable
software for your business?

What is the valuable
software for your business?

*The rest can be open
sourced*

/org_development

But you should control your
stack!



But you should control your
stack!

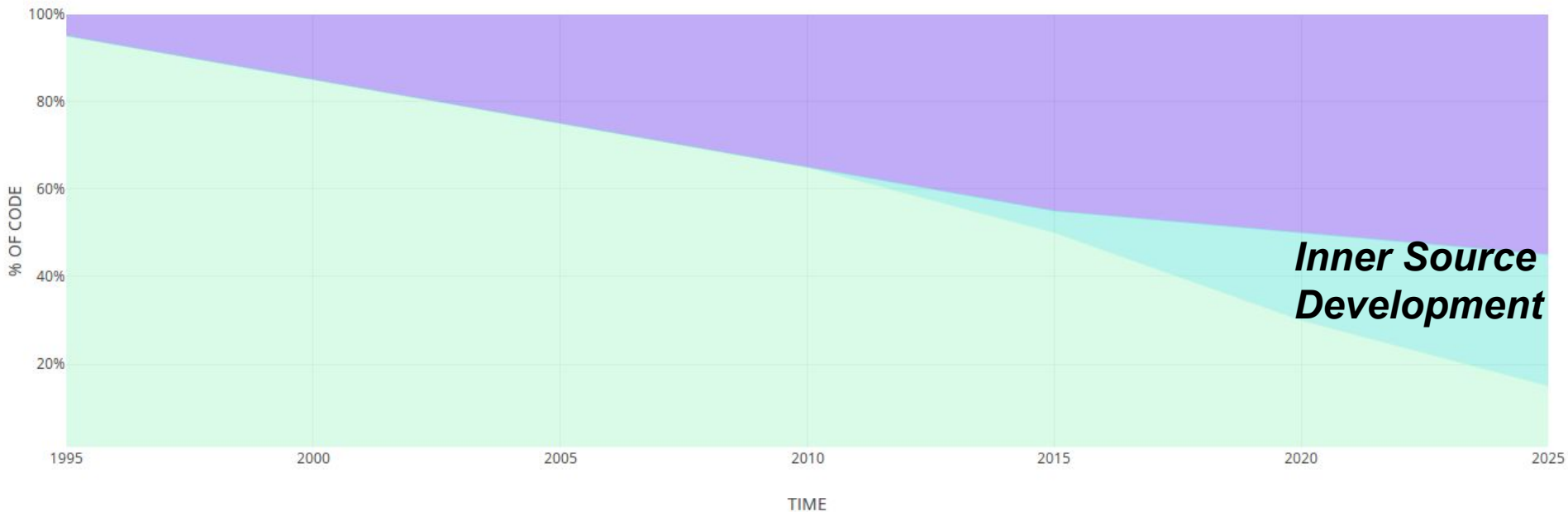
Think of Open Source Offices

This is not a talk about OSPOs or Open Source

More about OSS Offices, brand risk, and Inner Source
tomorrow at Danese's talk! 10:00 am.

"Getting the most out of OSS in a Regulated Industry"

But about Inner Source



“InnerSource takes the lessons learned from developing open source software and applies them to the way companies develop software internally”



/inner_source_why
/companies

↑ Code Quality

↓ Time to market

🚀 Innovation

↓ Dev & maintenance costs

↑ Engagement

/inner_source_why
/developers

↑ Skills (soft and hard)

↑ Dynamic environment

🚀 Innovation

↑ Solve problems

↑ Empowerment



/inner_source_how

Culture

Communication

Transparency

Collaboration

Community

Meritocracy

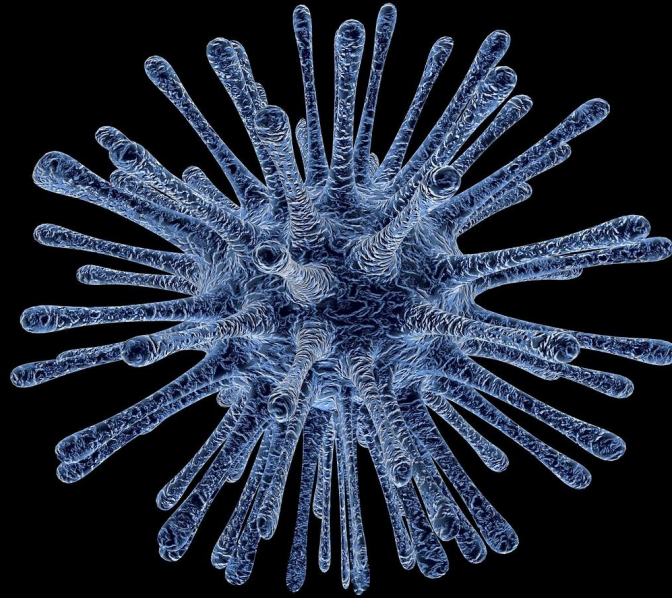


/first_steps

But this is Chaos!



Start small, PoC



/recommendations

Air Force, Ground Force



Metrics to help in the process

*E.g.: Are you
measuring how BUs
collaborate?*

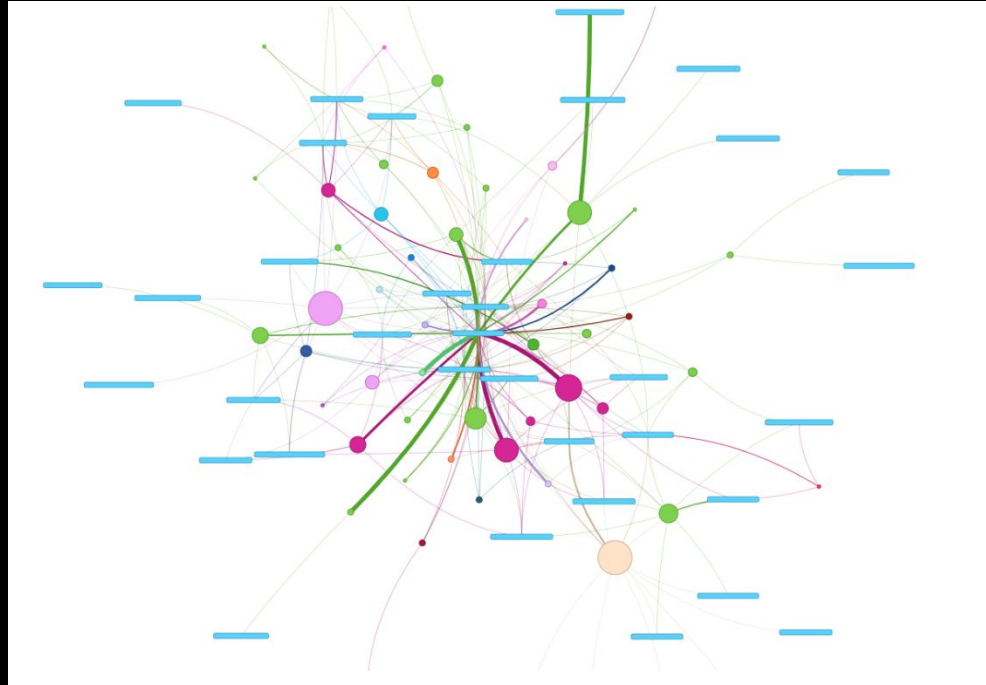


Chart produced by Bitergia using GrimoireLab

Metrics to help in the process

E.g.: Is the performance of your teams improving?



/data_sources



Source Code

Git, Baazar*, Mercurial*
(*exporting to git)



Tickets / issues

Bugzilla, GitHub Issues,
GitLab Issues, JIRA,
Launchpad, Phabricator
Maniphest, Redmine



Code Review

Gerrit, GitHub Pull
Requests, GitLab Merge
Requests



Continuous Integration

Jenkins



Mailing lists / Forums

Askbot, Discourse, Gmane,
Hyperkitty, mbox files,
NNTP, Piplmail, Stack
Exchange



Chat

IRC (Supybot), Slack,
Telegram



Downloads

Apache http logs



Wiki

Confluence, MediaWiki



Meetings

Meetup, Mozilla Reps
events



Others

crates.io, Docker Hub, RSS,
Twitter

Bitergia Analytics Supported Data Sources

/who_else



BOSCH

PayPal



NOKIA



PHILIPS

IBM

Bloomberg



InnerSource Commons

Build a **body of knowledge** of inner source

Understand, research and share **best practices**

Work in a **safe** environment for the industry

Chatham House Rule Applies

“When a meeting, or part thereof, is held under the Chatham House Rule, participants are free to use the information received, but neither the identity nor the affiliation of the speaker(s), nor that of any other participant, may be revealed.”

/commons



Some of the last summit topics

Cultural Change

Tax Management

Process Improvement

Use Cases

Metrics and monitoring

Patterns

InnerSource Commons

Learning Path

InnerSource Patterns

InnerSource Manifesto

Migrating to a Foundation

A bit more about patterns

Characterization of usual IS problems

Brainstorming with other companies

Bi-weekly meetings

A bit more about patterns

Problem

Context

Forces

Solution

Resulting
Context

Short description.
This describes
what the issues
and challenges
are.

A bit more about patterns

Problem

Context

Forces

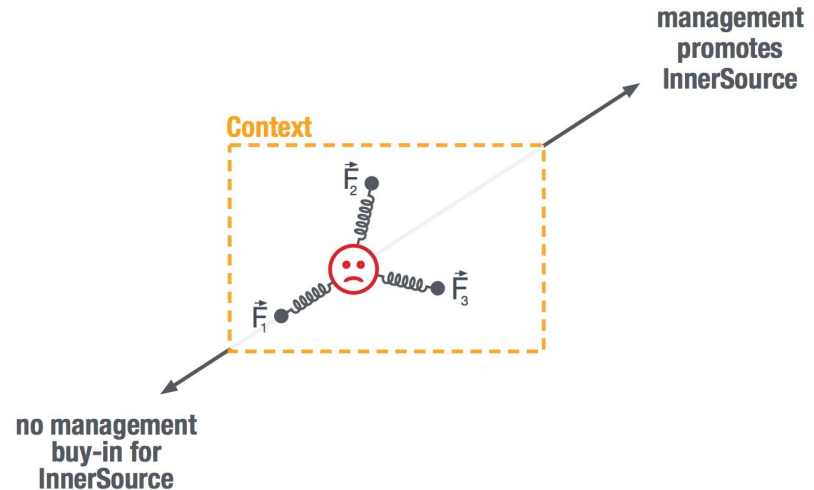
Solution

Resulting
Context

What are the pre-conditions of this problem?
This is unchangeable before the solution goes into place.



InnerSource Pattern Review Committee



A bit more about patterns

Problem

Context

Forces

Solution

Resulting
Context

What makes the
problem difficult?
These are the
constraints that
can be changed at
a cost.

A bit more about patterns

Problem

Context

Forces

Solution

Resulting
Context

Verified or potential solutions to the problem. This solution will change some of the forces.

A bit more about patterns

Problem

Context

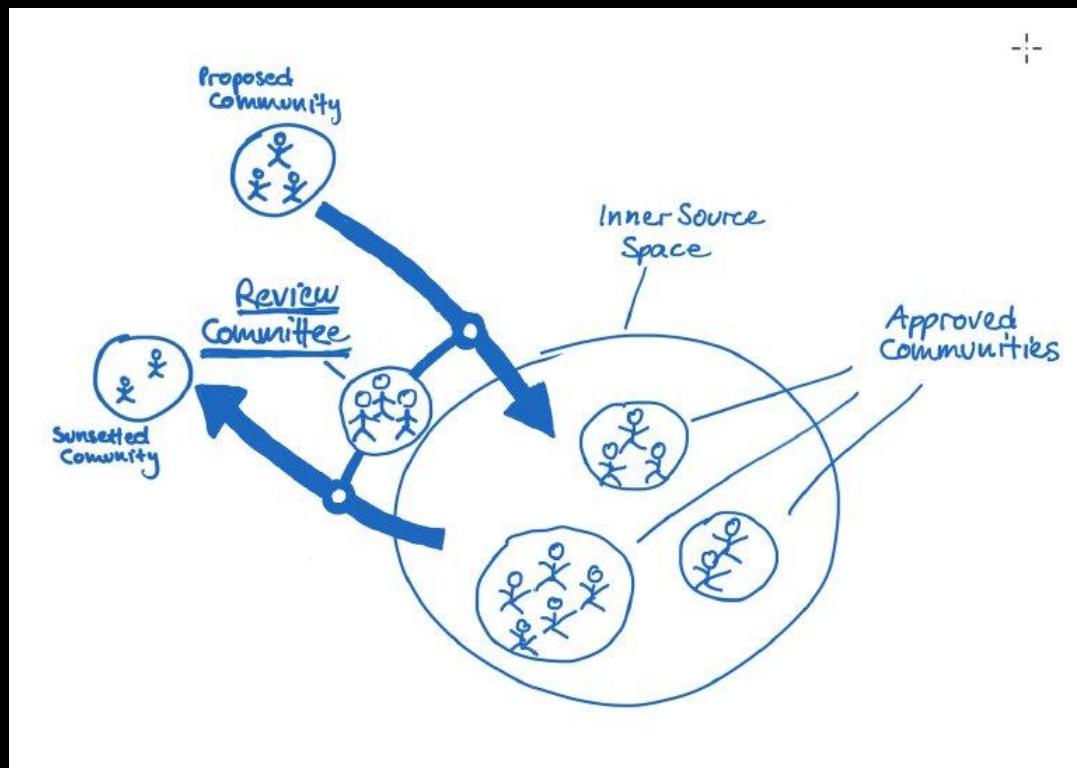
Forces

Solution

Resulting
Context

Situation after the
problem is solved.

Example: Review Committee



/commons

InnerSource Commons

Early April 2019

Galway, Ireland



InnerSource Commons

Slack channel (Chatham House Rule applies)

Mailing lists

GitHub (OSS project)

Software Development Analytics for your peace of mind

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Chief Data Officer at **Bitergia**

