Let's butcher Software Development Analytics

Linaro Connect 2020

Manrique López (@jsmanrique)
ARE WE ALL ALIGNED THAT OUR TOP PRIORITY IS DIGITAL TRANSFORMATION?

OF COURSE ABSOLUTELY 100%

SO WHAT EXACTLY DO WE MEAN BY DIGITAL TRANSFORMATION?

SORRY, I'M LATE FOR ANOTHER MEETING.
Since it's our top priority, what do we mean by digital transformation?

Zoom meetings

Using Slack

Digital-first, data-driven um...

Customer-centric um...

Don't forget agile

And something with the cloud

Making TikTok videos

Maybe we should start with what it doesn't mean.
Every company is becoming a software development company, somehow
Developers, developers, developers ...
“By 2022, over half of the code in 75% of new apps will be from external sources. The need to improve developer productivity is driving the use of open source and commercial code repositories.”
Organization’s Open Source Software Ecosystem
Organization's Open Source Software Ecosystem
Organization relationship with OSS
inbound

Consume open source projects
Consume open source projects

Contribute to open source projects

Release new open source projects
How does an open source project look like?

Mozilla & The Rebel Alliance (report.mozilla.community)
OSS Ecosystem

@jsmanrique
Consuming & contributing open source software without care
Legal - People - Engineering
How to manage this ecosystem?

todogroup.org

chaoss.community
“Without data, you are just a person with an opinion”

William Edwards Deming
Software Development Analytics
People loves data
Chats
- Slack
- Mattermost
- Telegram

Tickets/Issues
- GitHub
- GitLab
- Bugzilla
- Jira

Mailing lists
- Mailman
- Groups.io
- G Groups

Coding
- Git
- Mercurial
- Bazaar
- SVN

Events
- Meetup
- Eventbrite

Q&A Forums
- Askbot
- StackOverflow
- Discourse

Documentation
- Read the docs
- Confluence
- MediaWiki

Code Review
- Gerrit
- GitHub
- GitLab

@jsmanrique
What do I do with all these data?
What do they mean?
How do they help me?
Strategy without tactics is the slowest route to victory. Tactics without strategy is the noise before defeat.

Sun Tzu
Reporting
Provide consistent reporting mechanisms, including dashboards, reports, and even data APIs for custom integrations.

Strategy
Outline organization strategy around software development to achieve organization's business goals.

Customization
Deploy and operates an analytics platform, customized to gather the data needed to answer the questions and metrics defined.

Analysis
Define the data sources, questions and associated metrics to measure that provide the insights about goals status.
... one more thing!
Context knowledge matters!
Linaro use case

There is a huge amount of contributors affiliated to “Unknown” organization

Why?

Are data wrong?
Final remarks
Software development matters!

Your open source ecosystem matters. Take care of it!

Understanding your open source ecosystem helps!

There are a lot of data out there, but you need to deal with them with care

Strategy, tactics, and context knowledge are your best tools to manage your open source ecosystem
About Bitergia

Understand how the software that matters to you is being built!

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Let’s go for questions

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