Establishing OSPO Metrics

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OSPO OnRamp
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#opensource #business
Background
**OSPO++**: OSPO in universities, governments, and civic institutions

**OSPO Zone**: The OSPO Alliance’s platform for sharing and promoting world class materials on good governance for Open Source Program Offices.

**TODO Group**: open group of organizations who want to collaborate on practices, tools, and other ways to run successful and effective open source projects and programs

https://bitergia.com/ospo
Outdoors

OSPO

Indoors

https://bitergia.com/ospo
Outdoors

OSPO

Indoors

- Reputation
- Talent attraction
- Use modern tools
- Cost effective
- Many more...

Central place to organize OSS
Advice and training
Create workflows to safely (compliance) use and contribute back
Foster OSS culture
And some others :)

And some others :)
What is your business goal when building an OSPO? What are you trying to achieve?
Common Goals by the GGI Group

https://ospo.zone/ggi/

1- Usage
2- Trust
3- Culture / Community
4- Engagement / Support
5- Strategy / Governance
Common Goals by the TODO Group

https://todogroup.org/guides/measuring/

1- **Efficient** and **compliant use** of OSS

2- Increase developer **productivity**

3- Create and **grow** open source projects

4- Recruit and **retain** developers

5- **Promote OSS Culture**

6- **Align** OSS community interest and product interest
The OSPO Manager daily faces
Political background hat
Internal marketing hat
Building external reputation hat
Human resources hat
Training hat
Agent of change hat
Cultural change hat
Reporting hat
Fight against internal inertia
Recap

Intro to OSPO flavours
OSPO Goals
OSPO Manager Hats
Other internal stakeholders

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Intro to OSPO flavours

Different goals depending on the type of OSPO you are:

- **Academic institution**
- **Large corporation**
- **Medium size company**
OSPO Goals

The OSPO then may have different goals

Let's choose **Impact** and **Influence**
Intro to OSPO flavours

OSPO Goals

OSPO Manager Hats

Other internal stakeholders

Each of the hats have different ways of looking at metrics, and KPIs

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Intro to OSPO flavours
OSPO Goals
OSPO Manager Hats

Other internal stakeholders

- Community managers
- Developer advocates
- Business people
- Product teams
- Marketing

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Let’s discuss strategy and method

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Embed metrics in your daily planning and decision making process => Have a metrics strategy in place

Follow a reproducible method, and document it!

Use OSS tools for algorithms traceability

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Let’s discuss strategy and method

Embed metrics in your daily planning and decision making process => Have a metrics **strategy** in place

Follow a reproducible **method**, and document it!

Use **OSS tools** for algorithms traceability

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Strategy

- Plan
- Do
- Act
- Check

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Method

GOAL #1

Question #1
  - Metric #1
  - Metric #2

Question #2
  - Metric #3
  - Metric #1
GrimoireLab - *Free, libre, OSS* tools for software development analytics

Sigils / Use Cases -
https://chaoss.github.io/grimoirelab-sigils/

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Contributors Growth

This panel focuses on **Contributors Growth** in terms of number of people contributing to the several data sources of the project.

- **The big number** gives an overview of the total and unique contributors across all of the data sources in the selected timeperiod located at the top right section of the dashboard.
- **Top right evolutionary chart** shows the evolution of the active contributors over time (line) and the difference between a given slot of time and its predecessor. Periods of time where the growth has been positive are represented in green, while growth with negative growth are displayed in yellow.
- **Bottom right evolutionary chart** displays the number of contributors over time. Red line displays the average of the community in the timeframe of analysis. The bars represents how far that period of time is from the average. The value of each bar is the difference between the number of contributors in that slot of time and the average of contributors for that period of time.
- **Table** splits all of this information by data source. This gives the number of contributors.
Attraction and Retention Rate

**Summary**
- **Contributions**: 1,489
- **Authors**: 29

**Contributors Becoming Inactive**
- Last contribution sent between (6 and 12 months ago)
  - Oct 8th 2018, 10:51 to Apr 8th 2019, 10:51
  - Author: User 1
  - Last Contrib Date: Mar 19th 2019, 13:04
  - Contributions: 1
  - User 2
  - Last Contrib Date: Mar 4th 2019, 17:54
  - Contributions: 1
  - User 3
  - Last Contrib Date: Nov 6th 2018, 22:57
  - Contributions: 2
  - User 4
  - Last Contrib Date: Oct 14th 2018, 15:19
  - Contributions: 1

**Attracted Developers**

**Last Attracted Developers**
- **Author**: User 1
  - First Contrib Date: Jul 8th 2019, 16:35
  - Contributions: 1
- **Author**: User 2
  - First Contrib Date: May 17th 2019, 10:22
  - Contributions: 1
- **Author**: User 3
  - First Contrib Date: May 14th 2019, 10:21
  - Contributions: 1
- **Author**: User 4
  - First Contrib Date: May 3rd 2019, 13:28
  - Contributions: 1
- **Author**: User 5
  - First Contrib Date: Apr 8th 2019, 15:48
  - Contributions: 1
Software Lifecycle

This panel provides a quick view of the lifecycle of the top 25 git repositories by activity and authors for a given period of time.

**Definition**
- Active: at least 1 commit per month

**Charts**
- Evolution of the number of active repositories during selected period of time, and by team
- Top 25 git repositories by number of commits for selected period of time, showing level of activity by month
- Top 25 git repositories by number of active authors for selected period of time, showing level of active authors by month

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This dashboard focuses on Discourse activity, and active authors in different threads:

- Posts Created: Number of new posts by month 30/60/90 day rolling avg post/day. This calculates the numbers per day, as rolling averages are per day too. Metric says posts a post is either a question or an answer (this can be easily modified to count only one of them or to count them separately).
- Posts: Top 50 contributors in the last 30/60/90 days (excluding any automated bots).
- To filter, there is a filter on top of the dashboard.
- Links to Matplotlib are provided, whereas the latest is to allow setting profiles. In case there are unmerge profiles or bots that are not merged as such.
- There are 3 tables, one per each time interval.
Commercial Services for OSPOs

OSPOaaS by Bitergia
[Open Source Program Office as a Service]

Bitergia Analytics for OSPO metrics
[Consistent reporting, community & process insights, metrics in action]

https://bitergia.com/ospo

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Let’s go for questions

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