



DO OPEN SOURCE CONTRIBUTORS DO MORE THAN THEY SHOULD ?

*QGIS as a reference project to find sustainable ways to
rock!*



Régis Haubourg

French guy passionate with geospatial stuff

Open Source changed my life - litteraly

Former GIS data admin (water basin agency) - SQL saved my life

Former agronomic engineer - GIS turned into a passion

Open Source expert at Oslandia

QGIS & PostGIS fan

OSGEO French local chapter president

...slowly becoming a nerd

OSLANDIA

French company started in 2009

Open source and geospatial only

GIS - 3D - DATA/AI

OSLANDIA

15 collaborators

100% remote working

100% open source

horizontal and transparent governance

some QGIS and postGIS core committers..

OPEN SOURCE COMMUNITIES

QGIS

PostGIS

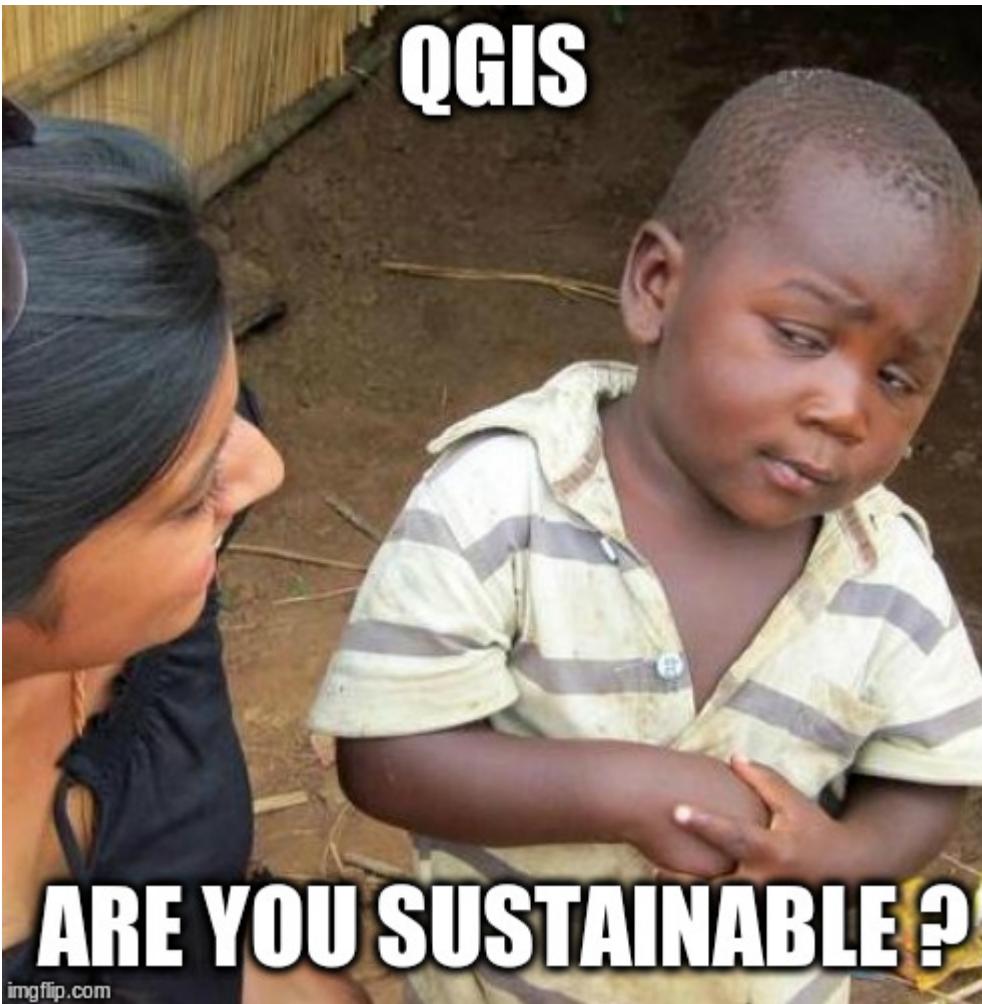
iTowns (3D web framework)

python, SQL, C++, javascript, data science



A reference Free software community project in the world

QGIS



ARE YOU SUSTAINABLE ?

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NO MORE A YOUNG CHILDREN





So what makes QGIS a success?

It's the people!

It's you as a user and
you as a contributor!

... and it's the Internet and
collaboration tools that we can use.

WHAT IS A HAPPY CONTRIBUTOR ?

Eat

Have a social life

Pay the rent

Raise kids

Buy a neat new 64 Go RAM to compile QGIS faster ;-)

..

Get stickers

DO NOT BURNOUT

HISTORY OF QGIS CONTRIBUTION

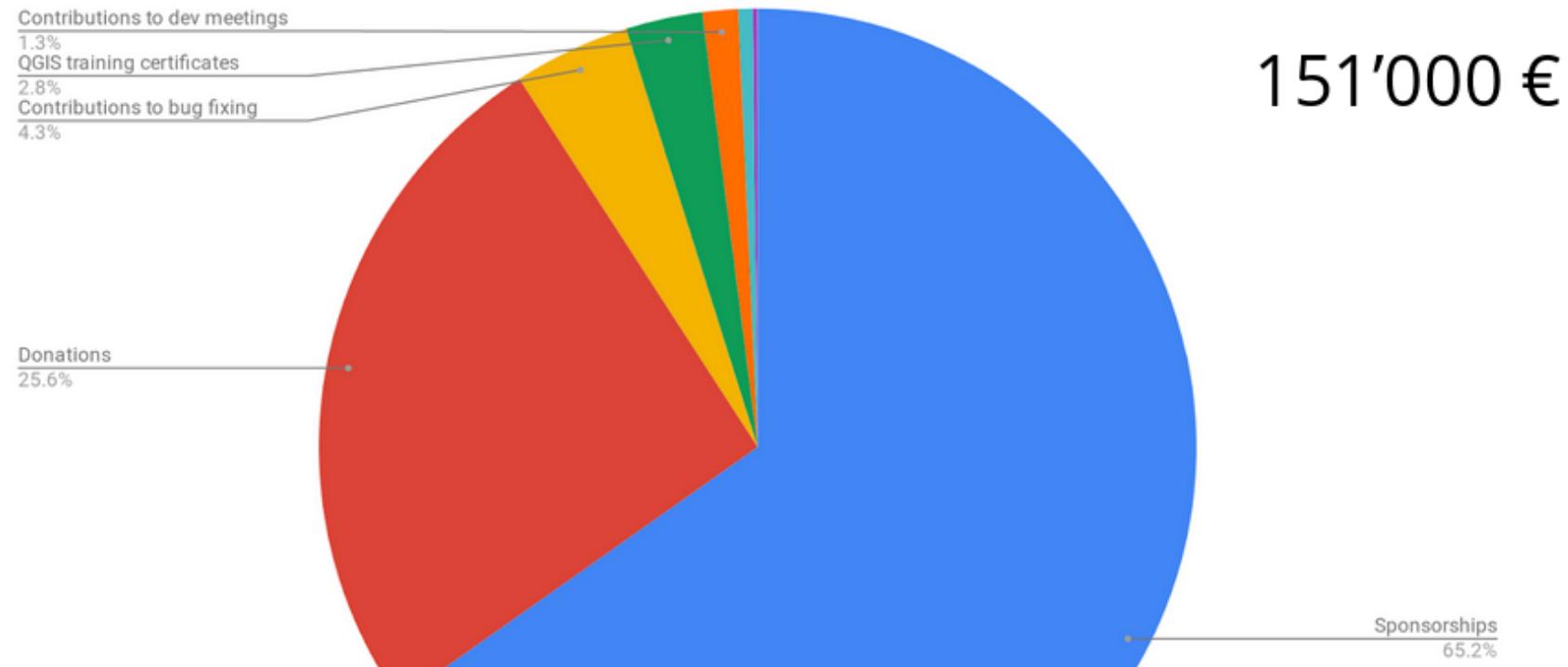
20020 - Gary Sherman releases 0.0.1

Paid services very early. Most started being paid
between 1.6 (2010) and 2.0 (2014)

Currently a whole commercial ecosystem exists in most
countries.

[https://www.qgis.org/en/site/forusers
/commercial_support.html](https://www.qgis.org/en/site/forusers/commercial_support.html)

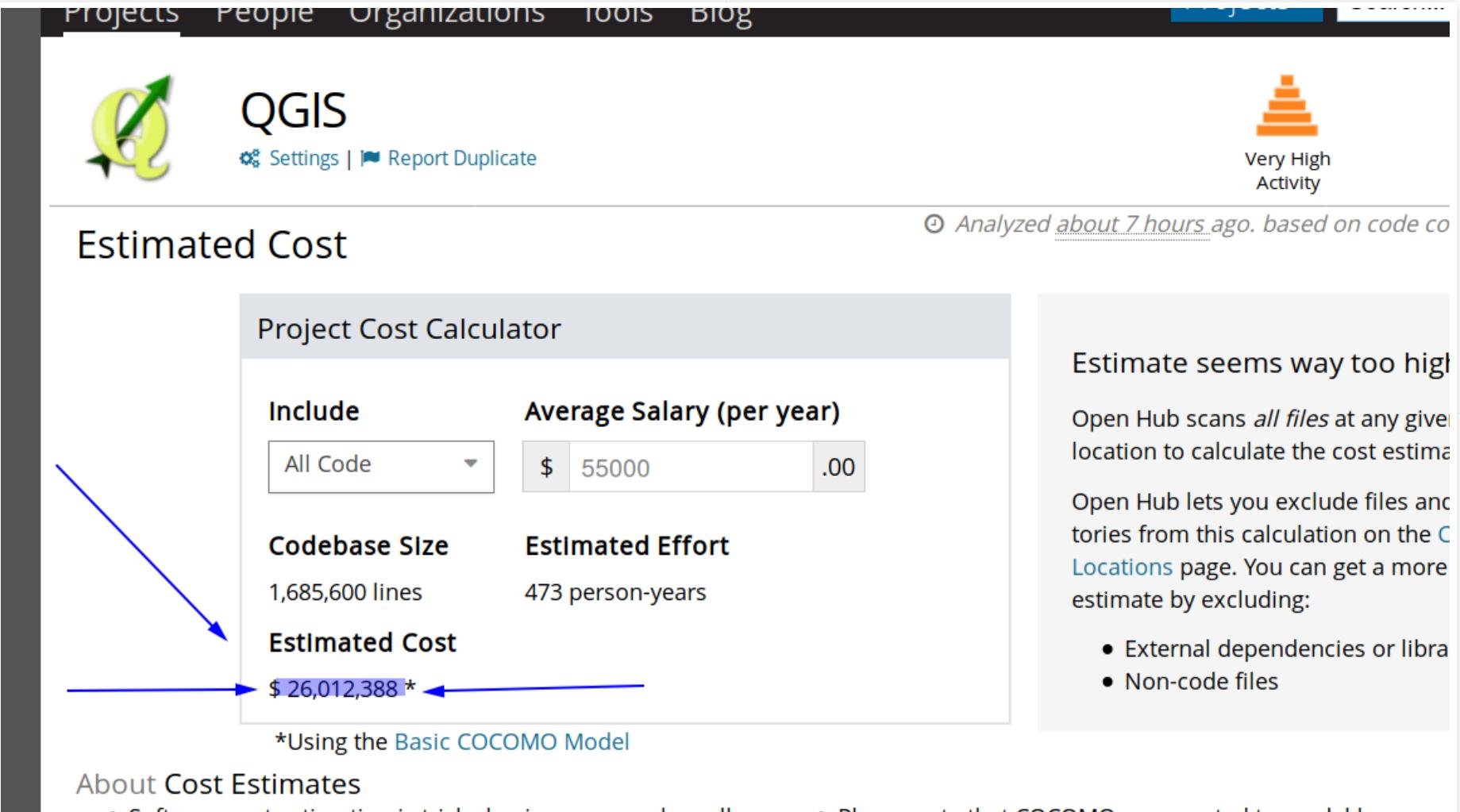
QGIS Income



Funds for QGIS.org

but that's only a fraction of it

26 MILLION DOLLARS !!



The screenshot shows the QGIS project page on the Open Hub platform. At the top, there are navigation links: Projects, People, Organizations, Tools, Blog. Below the header, the QGIS logo is displayed with a green 'Q' and a red arrow pointing upwards. To the right of the logo are 'Settings' and 'Report Duplicate' buttons. A 'Very High Activity' badge with an orange pyramid icon is also present. The main content area is titled 'Estimated Cost' and features a 'Project Cost Calculator'. The calculator includes fields for 'Include' (set to 'All Code'), 'Average Salary (per year)' (\$55,000), 'Codebase Size' (1,685,600 lines), 'Estimated Effort' (473 person-years), and 'Estimated Cost' (\$26,012,388). A blue arrow points from the 'Codebase Size' field down to the 'Estimated Cost' field. Another blue arrow points from the 'Estimated Cost' field back up towards the 'Codebase Size' field. Below the calculator, a note states '*Using the Basic COCOMO Model'. To the right of the calculator, a sidebar provides context about the high estimate and how to refine it by excluding specific file types.

Estimated Cost

Analyzed about 7 hours ago, based on code co

Project Cost Calculator

Include: All Code | Average Salary (per year): \$ 55000 .00

Codebase Size: 1,685,600 lines | Estimated Effort: 473 person-years

Estimated Cost: \$ 26,012,388 *

*Using the Basic COCOMO Model

Estimate seems way too high

Open Hub scans *all files* at any given location to calculate the cost estimate.

Open Hub lets you exclude files and directories from this calculation on the [C Locations](#) page. You can get a more estimate by excluding:

- External dependencies or libraries
- Non-code files

About Cost Estimates

- Software cost estimation is tricky business even when all
- Please note that COCOMO was created to model large

let's say 20% of it was funded, 5.6 Million dollars might

reflect the real transactions
(totally random estimate)

SPONSORS (2019)



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AERO ASAHI

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LIFA GIS - IT

Vorarlberg
unser Land

WIGeoGIS

**Spatial
Networks**

OPENGIS.ch

GIAP
GOSPODARCZY INSTYTUT
ANALIZ PRZESTRZENNYCH

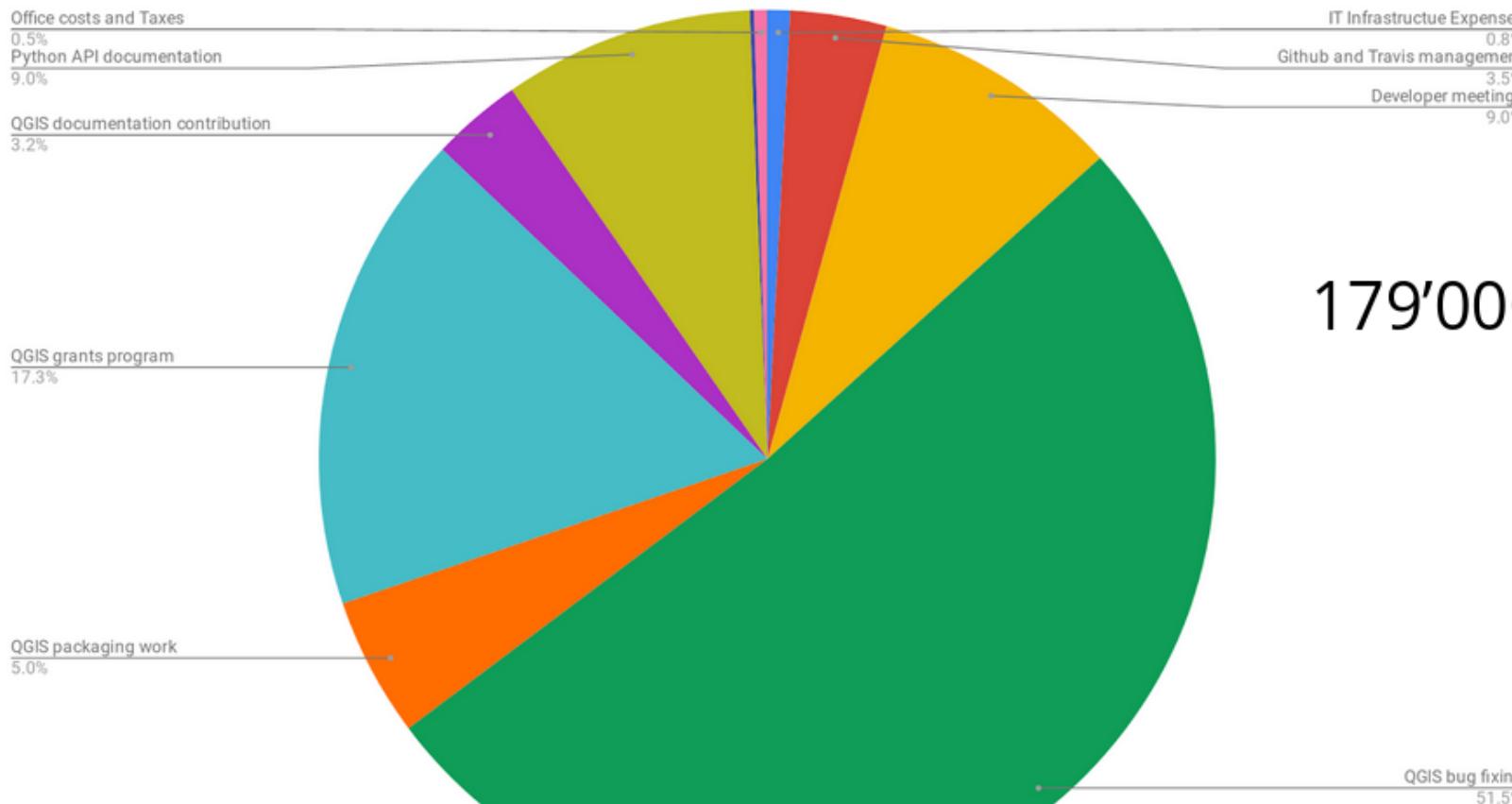
QGISde

SECON

OPW
The Office of Public Works
Oficjałna Wybrzeża Polski

EXPENSES OF QGIS.ORG BUDGET (2018)

QGIS Expenses



UNDERFUNDDED TASKS ?

- Packaging

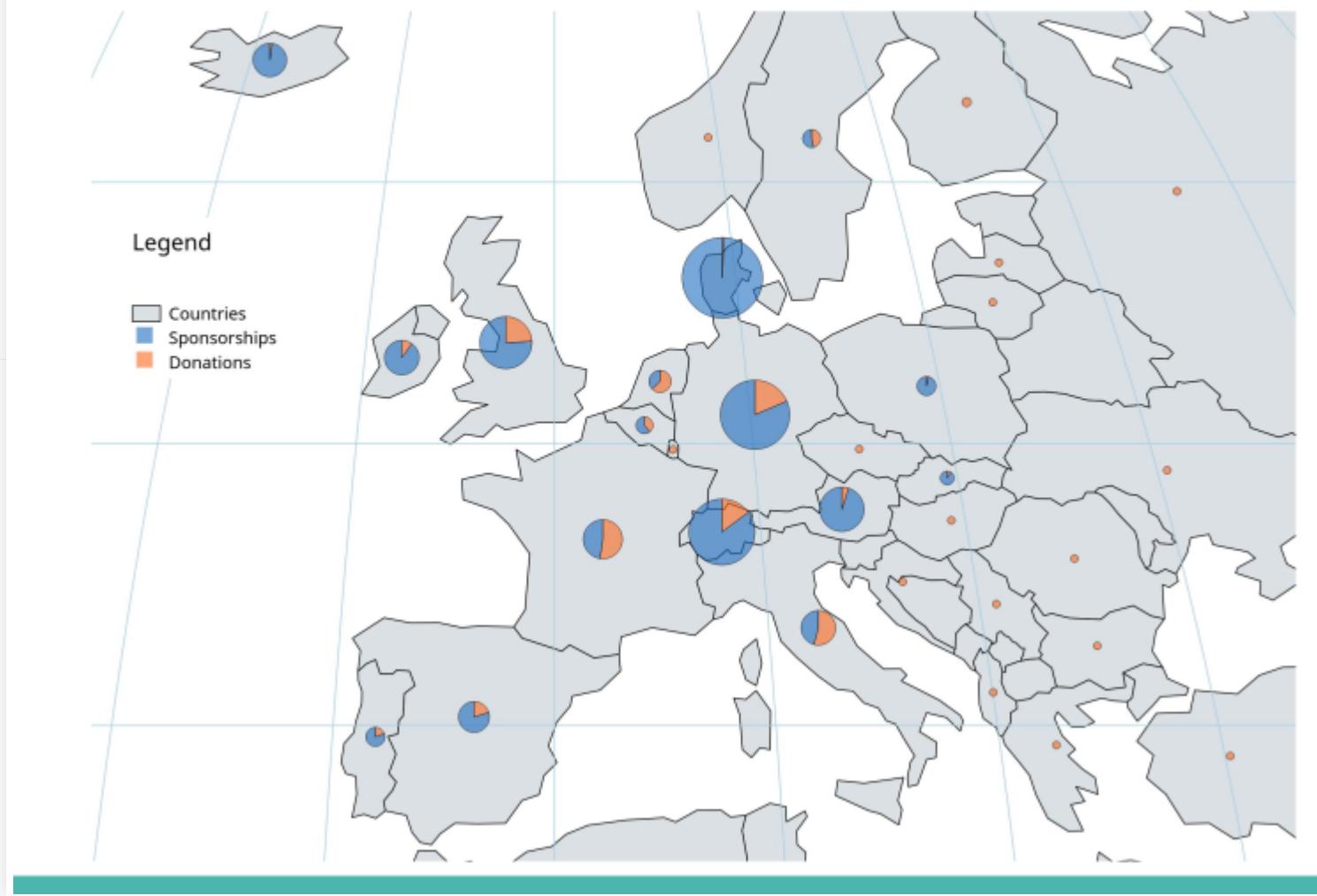
- Documentation

UNDERFUNDDED TASKS

- Communication Marketing
 - blog / maintain welcome page feed
 - explain (versions, LTR vs release, roadmap)
- Bug triage
- Quality Assessment (real testing during freeze periods)
- Code review

FRENCH SELF BASHING

Provenance des fonds



NEW TRENDS !

(in France at least)

ORANGE

CellPhone, optic Fiber, traditional communication,
Internet Provider

Embrassing open source totally - Top Bottom !

Long history with OW2 cluster.

Support contract with Oslandia shown as a model

Allowed:

- QGIS server refactor
- QGIS server OGC certification
- QGIS server perfs improvements
- Security audit and hardening

BIG CITIES

Lyon Métropole - migration to PostgreSQL & QGIS & support contracts

Grenoble Métropole - migration to PostgreSQL & QGIS & support contracts

WATER COMPANIES

Worldwide water distribution

Challenging its internal habits with Inner Source

Prototyping QGIS for desktop apps and QGIS server on
the cloud for web mapping

PUBLIC RESEARCH

Open source generation is taking the power
cooperation

centralized data and databases

wonderful mix of open data, open hardware and open
source



YOU ?

HOW MANY USE QGIS?

HOW MANY KNOW THE ACTUAL ROADMAP OF QGIS?

(fixed schedule / 4 months releases / 1 month minor
versions / 1 year LTR)

HOW MANY TEST QGIS AND REPORT ISSUES AND FEEDBACK DURING FREEZE PERIOD?

On your own real production use cases.

HOW MANY OF YOU HAVE BEEN BLOCKED BY AN UNFIXED BUG

HOW MANY HAVE SUPPORT CONTRACTS ?

HOW MANY HAVE SUBSРИBED TO A USER GROUP ?

HOW MANY HAVE TRIED TO SUBSCRIBE OR SPONSOR QGIS.ORG?

Sponsoring OSGEO chapter or local user group is a
valid YES

**HOW MANY OF YOU START COURSES
EXPLAINING THE ECONOMICS OF OUR
CONTRIBUTIVE MODEL ?**

HOW MANY OF YOU TOOK A FRACTION OF THE PROPRIETARY SUPPORT CONTRACTS AMOUNT INTO OPEN SOURCE CONTRIBUTION

(how many of you struggle to get back budgets, where buying licence is easier?)

HOW TO IMPROVE THIS?

SPONSORING & DONATIONS

Funding meetings, bug fix sprints, grant applications,
infrastructure

Spread the word, act in local chapters. Convince your
boss. And the boss above him.

LOCAL CHAPTER / LOCAL QGIS USER GROUP

Create one

Get money from subscriptions and events

Use a part of it for
sponsoring
grant application

Raise new contributors

Make it fun !

Raise baby contributors



CERTIFICATION PROGRAMS

- Certificate trainees
 - fund QGIS.org (already 10k € and >500 certificate issues)
 - explain contributive model to trainees
 - get more contribution from training providers

[http://changelog.qgis.org/en/qgis/certifyingorganisation
/list/](http://changelog.qgis.org/en/qgis/certifyingorganisation/list/)



fot. Jan Zych

DISCOVER QGIS

FOR USERS

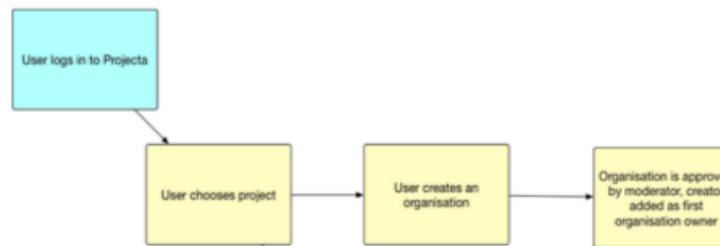
GET INVOLVED / DEVELOPMENT

[Write Documentation](#)[Translation](#)[Development](#)[Tests](#)[Daily Reports](#)[Plugins website](#)[Mailing lists](#)[Project Organisation](#)[Meetings](#)[Sustaining Membership Program](#)

Certification

The QGIS Certificate Program is designed to promote both community involvement in the QGIS project and quality education for QGIS software. As such the application process requires applicants to both detail their contributions to the QGIS project and make their training materials available for review. Contributions to the QGIS project include activities such as:

- Development/commits to QGIS
- Contributions to the QGIS documentation and training materials
- Translation of QGIS materials
- Authoring plugins
- Filing bug reports
- Financially supporting new feature development
- Financial contributions to and sponsorship of QGIS
- Involvement in your local QGIS User Group
- Publication of open QGIS course ware
- Authoring QGIS books



SUPPORT CONTRACTS

- Time to:
 - Time to understand issues
 - Time to prepare new features ideas
 - Time to help in deploying / configuring
- Fast
- Give credit, security and insurance to IT department / Decision makers

Projects Groups Activity Milestones Snippets 🔍

Search or jump to... 🔍 37 notifications 71 messages

Support-projects > Orange-support > Issue Boards

Search or filter results... Add list

Open (2)

- Formation avancée sur site QGIS / QGIS server #89
- Problèmes de performances liées au multithreading #92

To Do (2)

- QGIS Server 3.x WFS (Doing, ToDo, qgis_server) #32
- Test Intersection QGIS Desktop (ToDo) #85

Doing (3)

- Container zoo-project pour BIONIC (Doing) #80
- Résoudre des self-intersection part 2 (Doing, P1) #19
- QGIS Server 3.x WFS (Doing, ToDo, qgis_server) #32

Review (1)

- Difference d'affichage QGIS 2 - QGIS 3 (Review, qgis_server) #90

Closed (85)

- Dockerisation QGIS Server 3.x (Doing, P1) #34
- Intégration Continue QGIS Server (Doing) #81
- Certification OGC - WMS (Doing, qgis_server) #31
- [QGIS-Server] [WMS] Grosses pertes de performance sur des labels parallélisés aux itinéraires (P1, Review, qgis_server) #31

HOMEWORK DUTY

Energy can't be only on dev's side.

Fight to find budgets.

Fight to resist bureaucratic rules

Out of your comfort zone?

Dare, try.

Most people are true supporters but
most think there is a big corp underneath

Advertise the OSGEO model.

Make it serious and credible

IT. WORKS.

DO IT :)

Congratulations, you probably became a very efficient contributor at this stage!

QGIS ROCKS



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ANY QUESTIONS ?

Slides and sources available at :

[https://github.com/Oslandia/presentations//2019/foss4g
/qgis_and_sustainable_foss_r_haubourg/slides.md](https://github.com/Oslandia/presentations//2019/foss4g/qgis_and_sustainable_foss_r_haubourg/slides.md)