

Fiscal Data Package Review & Next Steps

GIFT - Open Knowledge partnership

PRESENTED BY

Open Knowledge



OPEN KNOWLEDGE

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Summary

Project Context

- From OpenSpending to OpenSpending Next
- Open Fiscal Data Package
- Principles

How did we include public participation into the design process ?

- Tools
- Examples
- Moving forward

OpenSpending

A project by Open Knowledge

OpenSpending

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It's our money!

By understanding how governments spend money **in our name** can we have a say in how that money will affect our own lives. The journey starts here.

76 countries

1086 datasets

28451263 entries

Featured Application

How much is that really? — See the stories behind the numbers in the news with the [Spending Stories application](#).



OPEN KNOWLEDGE

What is OpenSpending

OpenSpending is a community-driven project creating the world's largest and highest quality database of public finances

All as open data: <https://openspending.org>

What is OpenSpending

- **A tool / platform**

A user-friendly interface

A library of visualisation tools

An API

- **A participating Community**

Data Collectors, Data Wranglers, CSOs, Local OpenSpending projects

- **A Database**

A rich & comprehensive global database on Public Finances

Possibility to integrate data from different public sectors at different levels

Existing platform

Database + Visualisations

OpenSpending

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Available data sets

The database contains the following datasets:

PGN Paraguay

Presupuesto general del Paraguay del 2007 al 2012

Rodados MEc

lista de rodados adquiridos por el ministerio de educacion y cultura paraguay

Adjudicaciones por Entidades del 2013

Adjudicaciones por Entidades del 2013

Nomina de FP-UNA

Nomina de funcionarios de la FP-UNA

Contrataciones Planificadas con Recursos FONACIDE 2014

Contrataciones Planificadas Financiadas con Recursos del FONACIDE al 29/julio/2014

Salarios tres Poderes

Salarios de entidades de los tres poderes del Estado

Aguinaldos tres Poderes

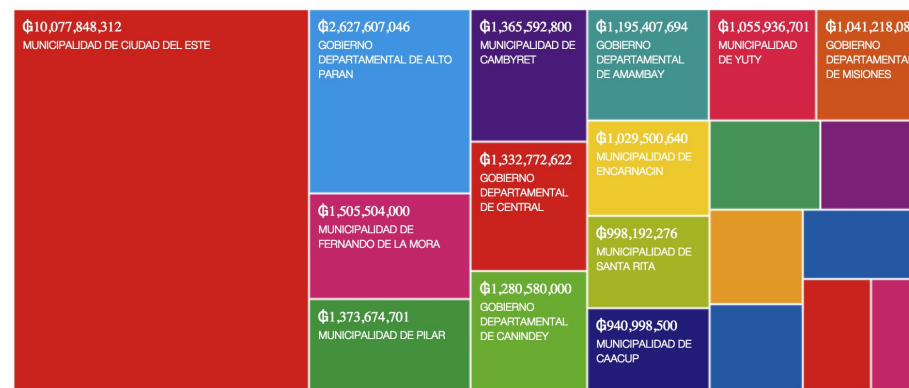
Aguinaldos de entidades pertenecientes a los tres poderes del Estado.

Contrataciones Planificadas con Recursos FONACIDE 2014

Search

About

Visualisations



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What runs OpenSpending ?

A solid core Fiscal Data Model and Structure

- What we know: data comes in lots of different shapes and sizes
- Having a standard structure for that data (or, at least, mapping that data to a common model) is essential to being able to **scale + automate**
 - Aggregations --> how much did we spend on defence? Which year?
 - Search in the databases
 - Visualisations
- This Data Model is **completely generic - Not tied-in to OpenSpending**

Fiscal Data Package

General Approach

1. The Fiscal Data Package serves two main purposes

- a. Standardizing the structure and the content of data so that tools and services can be built over it for visualization, analysis or comparison
- b. Driving data quality by providing a solid framework of publication

General Approach

2 - Trialling the specification with actual data and actual tools as we develop it

Iterative approach:

- 1 - Improving our prototype integrating suggestions and comments as we trial
- 2 - Updating the specification based on that feedback and learning
- 3 - Improving existing tools based on the specification (aggregation, visualization and comparison)

Fiscal Data Package and GIFT

Objectives

GIFT & Open Knowledge are working on a partnership to develop Fiscal Data Package as a **Fiscal Data Standard** to be used at a broader use, as a **global tool** for **publishing budget information in open data formats**. It will ensure :

- Usability and reusability of budget data by and for national and subnational government units
- Adaptability to developing country contexts
- World-wide acceptance of the data

How

1. Partnership with the World Bank and BOOST project

(BOOST approach: providing user-friendly platforms where all expenditure data can be easily accessed)

2. Open Knowledge provides technical assistance to run and supports pilots of the specification
3. GIFT is facilitating and coordinating the collaborative work of the World Bank's BOOST team and Open Knowledge

Including Public Participation

1. The code is Open Source and open to the public

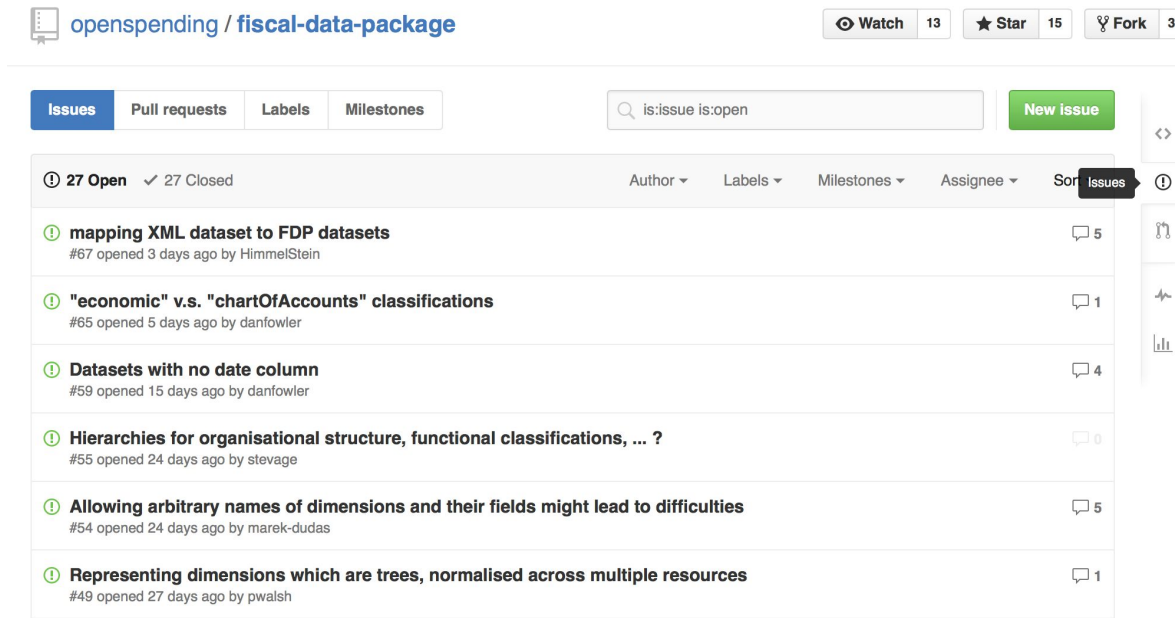
- The specification itself is hosted on GitHub
- Available for comments and suggestions
- Documentation website: <http://fiscal.dataprotocols.org>
- Providing specific and documented background information to ensure well-informed participation
- Open Knowledge team engaging in all discussions and issues raised

<https://github.com/openspending/fiscal-data-package/>



Include Public Participation

2. Anyone can raise an issue



The screenshot shows the GitHub repository page for `openspending / fiscal-data-package`. The repository has 13 watchers, 15 stars, and 3 forks. The **Issues** tab is selected, showing a search bar with the query `is:issue is:open` and a **New issue** button. Below the search bar, there are filters for **27 Open** and **27 Closed** issues. The issues are listed in a table with columns for **Author**, **Labels**, **Milestones**, **Assignee**, and **Sort**. The issues are:

- mapping XML dataset to FDP datasets** (#67) opened 3 days ago by HimmelStein (5 comments)
- "economic" v.s. "chartOfAccounts" classifications** (#65) opened 5 days ago by danfowler (1 comment)
- Datasets with no date column** (#59) opened 15 days ago by danfowler (4 comments)
- Hierarchies for organisational structure, functional classifications, ... ?** (#55) opened 24 days ago by stevage (0 comments)
- Allowing arbitrary names of dimensions and their fields might lead to difficulties** (#54) opened 24 days ago by marek-dudas (5 comments)
- Representing dimensions which are trees, normalised across multiple resources** (#49) opened 27 days ago by pwalsch (1 comment)

<https://github.com/openspending/fiscal-data-package/>

Include Public Participation

3. Conversations / Discussions on dedicated forum



Open Spending Data Structure: Ideas and Suggestions

OpenSpending



pwalsh

Jun 28 + Reply as linked Topic

Denormed functional classification

Yes ok, I get that this is common, and I checked out the [UK CRA data](#). The current draft of OSEP-04 can handle one level, or when the data is normalised, a node in a tree [see here](#). I guess to support this type of denormed hierarchy we will need to introduce both a dedicated new UX pattern for this in the data loader, and, a new pattern on the attribute group in OSDP. For example, what is currently this:

```
"function": {  
  "id": "budget_tree/id",  
  "title": "budget_tree/title",  
  "description": "budget_tree/summary",  
  "cofog": "budget_tree/cofog_code"  
}
```

In the case of denormed hierarchies (of any type, not just functional classification), might become:

```
"function": [  
  {  
    "id": "budget_tree/id-1",  
    "title": "budget_tree/title-1",  
    "description": "budget_tree/summary-1",  
    "cofog": "budget_tree/cofog_code-1"  
  },  
]
```

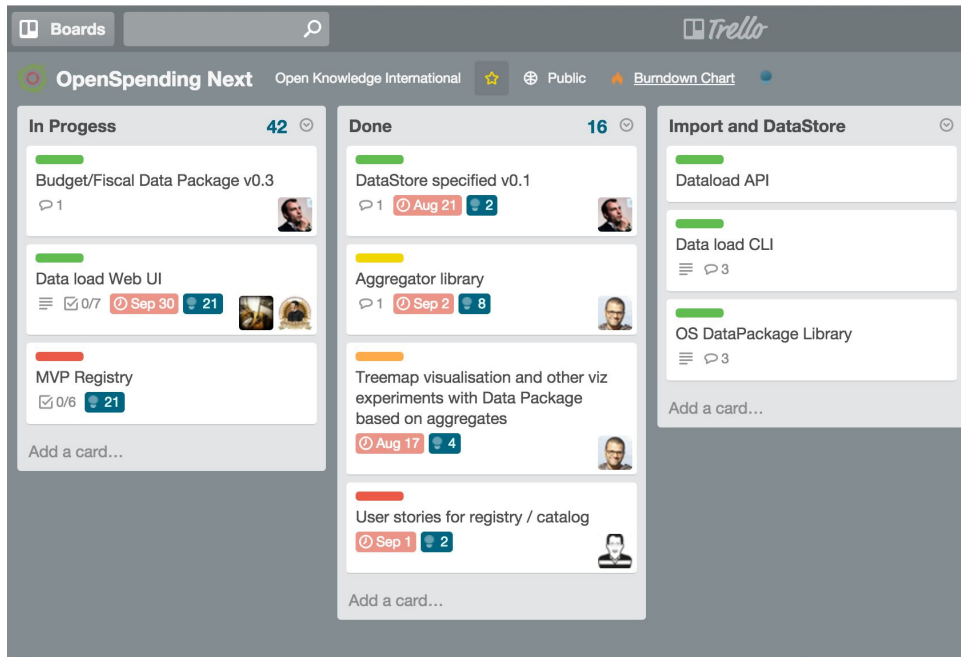
<https://discuss.okfn.org/c/openspending>



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Include Public Participation

3. Public roadmap published



<https://trello.com/b/BNXzXDEc/openspending-next>

Include Public Participation

4. Communication



OPENSENDING COMMUNITY



Get Involved

Glad to see you here!

This site is for enthusiastic doers, citizens and budget nerds from across the world. We care deeply about welcoming everyone regardless of skills and will do what we can to help you getting started!

Connect with the Community

There's lots of general and technical discussion happening on our [OpenSpending Forums](#) (also in [Portuguese!](#)). We also have an IRC channel on Freenode: [#openspending](#). For the full list of ways to get in touch, visit our [contact](#) page.

Contribute to the Fiscal Data Package Spec

We're hard at work on defining [Fiscal Data Package](#), a simple, open technical specification for describing government budget and spending data.

<http://community.openspending.org/next/>

Implement public participation

3 examples of implemented suggestions

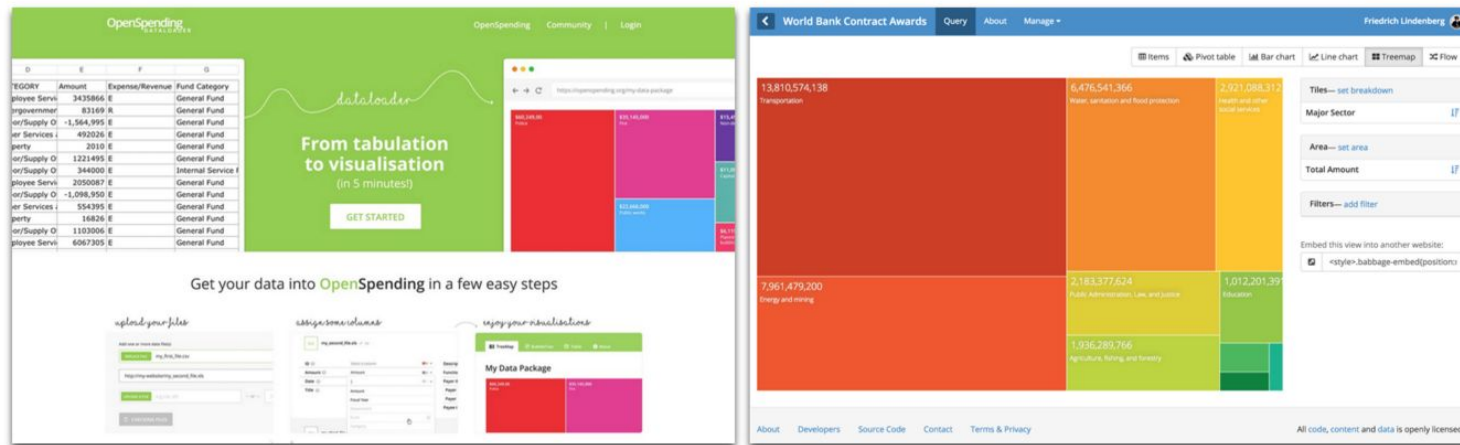
- 1 - The specification for **hierarchical budget data** was suggested by a community member
- 2 - Another community member contributed to a **refactoring** of the specification for measures and dimensions
- 3 - A new version of the specification of **Fiscal Date metadata** was suggested by a community member

Implement public participation

OpenSpending Next + SpenDB = <3

Written by Friedrich Lindenberg & Rufus Pollock.

This is a post by [Friedrich Lindenberg](#) and [Rufus Pollock](#). Friedrich and Rufus have both been major and ongoing contributors to the OpenSpending project. Friedrich was the creator of [OffenerHaushalt](#), the technical lead of OpenSpending 2011-2013, and the developer of [SpenDB](#). Rufus is Founder of [Open Knowledge](#) and original project lead on [WhereDoesMyMoneyGo](#) and OpenSpending and has continued to play an active role.



Implement public participation

... for the best !

- Make OpenSpending a meeting point for anyone interested in understanding how government manages and distributes public money.
- Combine components :



Lessons learned

- Encourage participatory culture through open accesses media
- Engage in all conversations and discussions
- Ensuring openness about the purpose, intended outcomes, process, and timelines of public participation.
- Involve final users and experienced budget data specialists
- Communicate regularly on updates

Iterations - General Approach

April 2015

March 2016

PROJECT DURATION: 1 YEAR



Our philosophy:

1. Agility, being iterative: like the spec, we strongly advocate agile, iterative approaches
2. Automation / One click action for the user
3. Aggregation, visualization, comparison

Building tools that support analysis and presentation are essential for our further development.



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Iteration 1



Initiation phase

- Developed the initial roadmap and presentation elements.
- Includes motivation for a Fiscal Budget data standard and a rough draft of the work plan.
- Assembled the initial development team
- Informal coalition building with potential partners who commit to refine, test, and comment on the standard-setting process.

Iteration 2



Development and trials phase

- Open Fiscal Data Package Specification finished
- Accelerate engagement with BOOST team to trial the spec in 3 countries:
Armenia + Paraguay + Moldova
- Apply spec in full to key sample BOOST datasets
- Initial Tool development > Aggregation and Sample visualization
- Open Fiscal Data Package creator

Create New Data Package

Step 1: Get started

Step 1
Get startedStep 2
Map ColumnsStep 3
Confirm

Name your Data Package

My Data Package

<https://openspending.org/my-data-package>

Add one or more data file(s)

REPLACE FILE

my_first_file.csv

http://my-website/my_second_file.xlsWe encountered some problems with this file. Click [here](#) for a breakdown of the issues.http://my-website/my_third_file.csv

UPLOAD A FILE

e.g csv, xls

— or —

<http://>

CHECKING FILES



Need Help? Check out the guides on our community site.

OPENSPPENDING COMMUNITY



TreeMap

BubbleTree

Table

About

My Data Package



My City, all governmental fund expenditures. Fiscal year 2015.

[Share](#)

Iteration 3



Tooling and Interface Design

- Code libraries for validating Fiscal Data Packages
- [Interactive app for creating Fiscal Data Packages](#)

Start from a CSV file and get a valid Fiscal Data Package

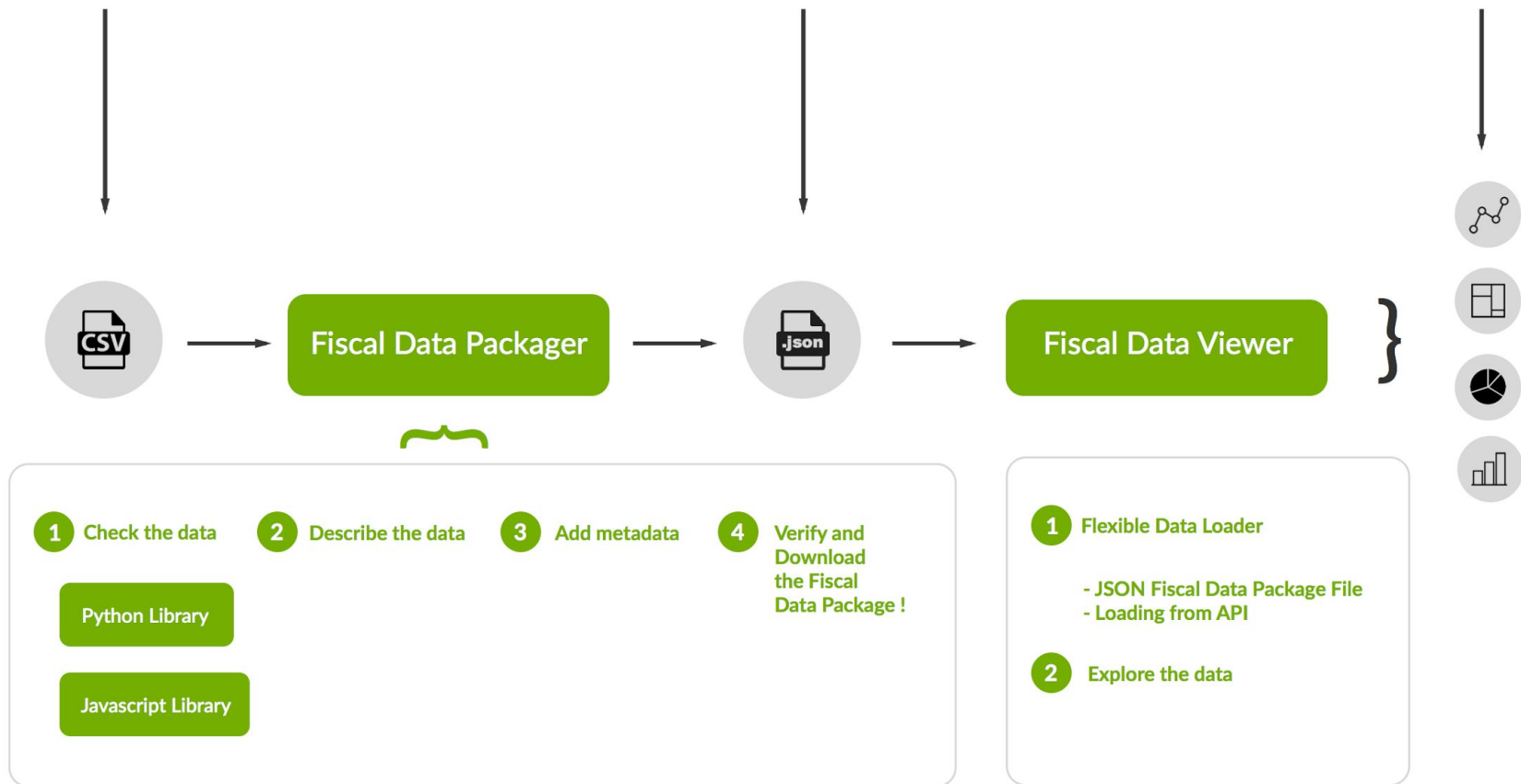
- [Interactive app for visualising Fiscal Data Packages](#)

Generate an interactive visualisation from a Fiscal Data Package

Any Budget File in csv format

Fiscal Data Package in Open Data format

Set of Visualisations



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[illegible]

Iteration 4



Tooling Extension

- Integration of the Viewer Interface Design
- Geomapping interface using Moldova dataset
- Integrate time series charts with interactive filters for dimensions

Ex

<http://db.offenerhaushalt.de/datasets/boost-rio-grande-do-sul>

OpenSpending Cameroon

<http://cameroon.openspending.org/en/>



Cameroon Budget Inquirer

[Home](#) | [About](#) | [Why Budget Transparency](#)




fr en


Explore how public money is raised and spent in Cameroon

★ [Send in your local council data](#)

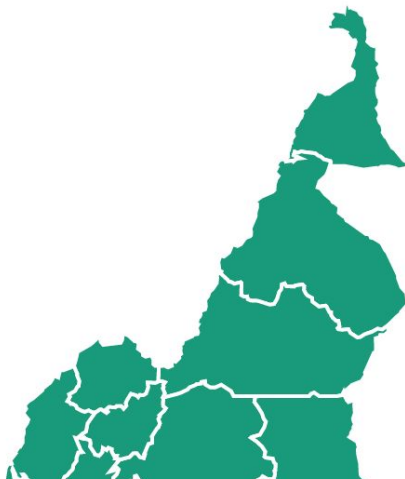
 What does
Cameroon invest in?
National Investment Budget

 What are regions
investing in?
North-West Investment Budget

 How do councils
spend their money?
Tignere Council Budget

 How do councils
manage their budgets?
Adamawa Transparency Index

Select a region on the map to see budget and survey information related to it.



National Level

[National Investment Budget](#) ▶

Region

How does my region spend its funds?

Select a region on the map to see budget and survey information related to it.

Iteration 5



Tooling Extension

- Pivot table interface for datasets - test and validate on large datasets
- Comparison Tool
- Web service to automatically pull data from BOOST into OpenSpending

Added value of the FDP

1. Compatible with **online platform** accessible from anywhere, anytime (SAAS)
 - No software to download / install
 - Works from any browser
 - Visualisations optimized for low internet connections
 - Visualisations based on web standards (HTML/CSS/ JS) embeddable easily on any website
2. Data published in an open format
 - CSV / JSON
 - No Unclear PDFs or XCEL files
3. A powerful API to build other applications on top of it
 - What about an online budget simulator using the budget data standard ?



Added value

4. Ability to work on improvements anytime on the existing tool

- Agility / Iterations
- Anyone can submit a feature request

5. Easy implementation

6. Easily replicable to build Fiscal Transparency Country platforms

7. Help promoting the Budget Data Standard on governments

Open Knowledge is involved in other Open Fiscal Projects and Transparency Advocacy

Guatemala > A donde van mis impuestos / Civil Society Budget Portal

National Budget : <http://www.dondevanmisimpuestos.org/>

¿A DÓNDE VAN MIS IMPUESTOS?

Metodología

Glosario

Formación Cívica

¿Quiénes Somos?

Google Drive

Conoce y analiza el presupuesto general de Guatemala



OpenBudgets.eu > European Platform to publish budget data for all European countries at national, regional and municipal level

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The core objectives of OpenBudgets.eu project are

1- A semantic data model

This will enable the integration of data from different public sectors at different levels.

2 - A library of visualisation tools

This library will enable stakeholders to visualise available data in different granularity and in different modalities (spatial, temporal, administrative).

3 - A library of data mining and comparative analysis tools

4 - A feedback and citizen engagement interface

As we're working with Participatory Budgeting pilots, why not moving forward to implement a Citizen Budget simulator ?

Next steps

Develop the Global Open Fiscal Data Package, engaging **more than 15 countries** in the next year

1. Have open budget data information published into this specification especially the budget data developed by BOOST (World Bank) in close to 20 countries;
2. Develop associated tools to support the generation, manipulation, analysis, and presentation of open budget data in this specification



Useful Links - recap

Fiscal Data Package Documentation :

<http://fiscal.dataprotocols.org/>

Fiscal Data Package repository

<https://github.com/openspending/fiscal-data-package>

Discussion Forum

<https://discuss.okfn.org/c/openspending>

Community website

<http://community.openspending.org/next/>

Twitter : **@openspending**

Thank you

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