



Photo Credit: [Andrea](#), Flickr

Social Impact of Open Data

by Sandra Moscoso, World Bank

[World Bank Group Open Finances](https://finances.worldbank.org), <https://finances.worldbank.org>

[World Bank Group's Media Development Program](#),

Social Impact

“The net effect of an activity on a community and the well-being of individuals and families.” – Centre for Social Impact (Australia)

National Research Council & Syracuse University

- Social Benefits (public research data)
 - improve political transparency
 - enhance education and research
 - support personal decision-making capabilities

World Wide Web Foundation, Tim Davies

- Research: “[Exploring the Emerging Impacts of Open Data in Developing Countries](#)”
 - improved governance
 - support citizens' rights,
 - promote more inclusive development



Education

Benefits in Education

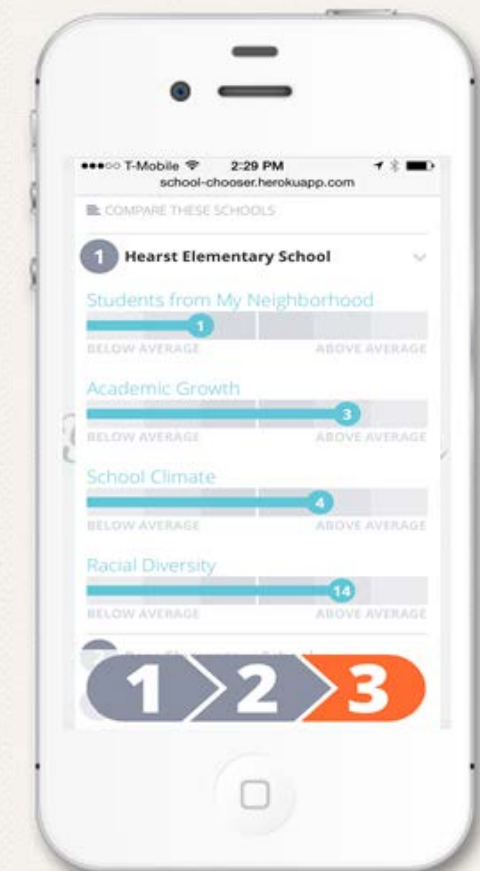
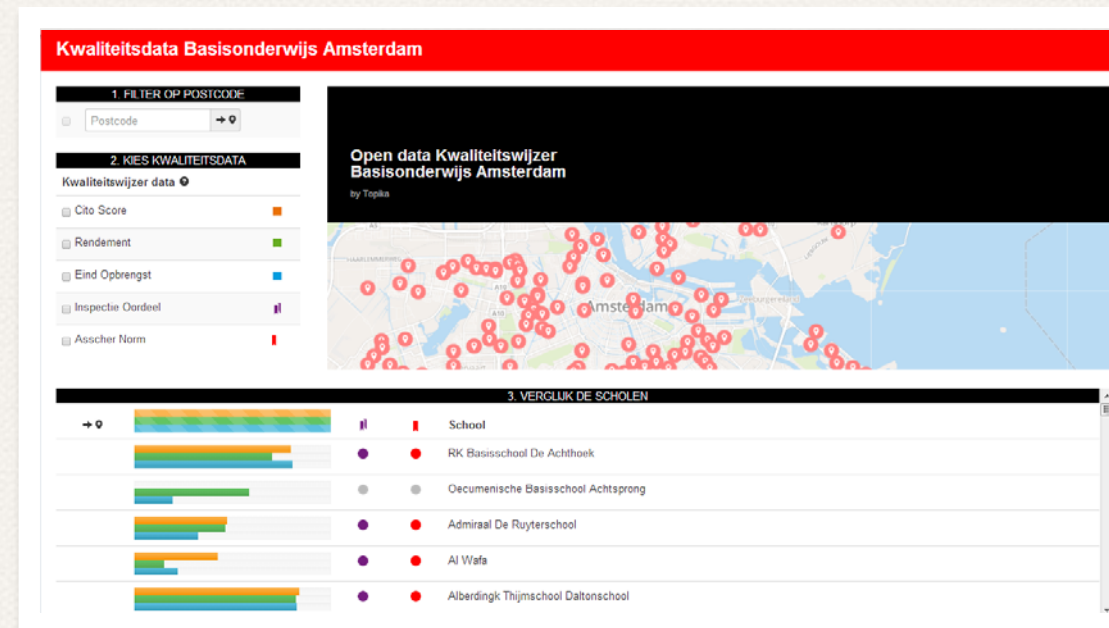
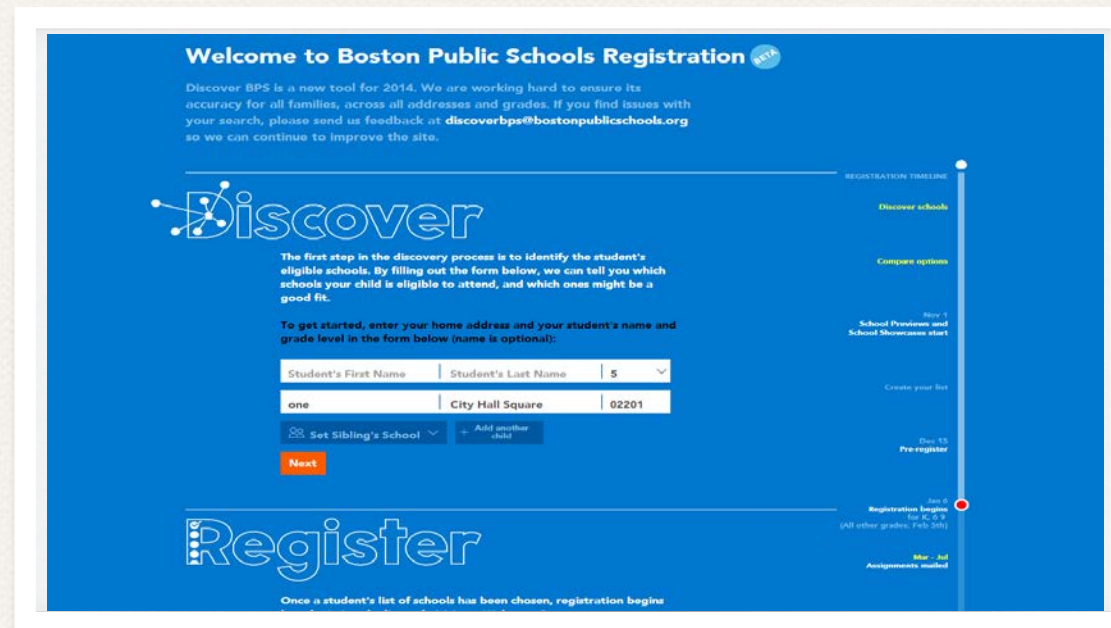
Community

- School choice, career choice
- Advocacy
- Resource sharing among educators
- Data literacy
- Budget/procurement transparency
- *Policy design*
- *Policy implementation*
- *Student-level education comparisons and analytics**
 - *Privacy constraints*
- *School and system-level administration**

Government/System

- Policy design
- Policy implementation
- Budget/procurement transparency
- Student-level education comparisons and analytics*
 - Privacy constraints
- School and system-level administration*
- Resource sharing among educators
- *Data literacy*
- *School choice, career choice*
- *Advocacy*

Where there is choice, there is angst

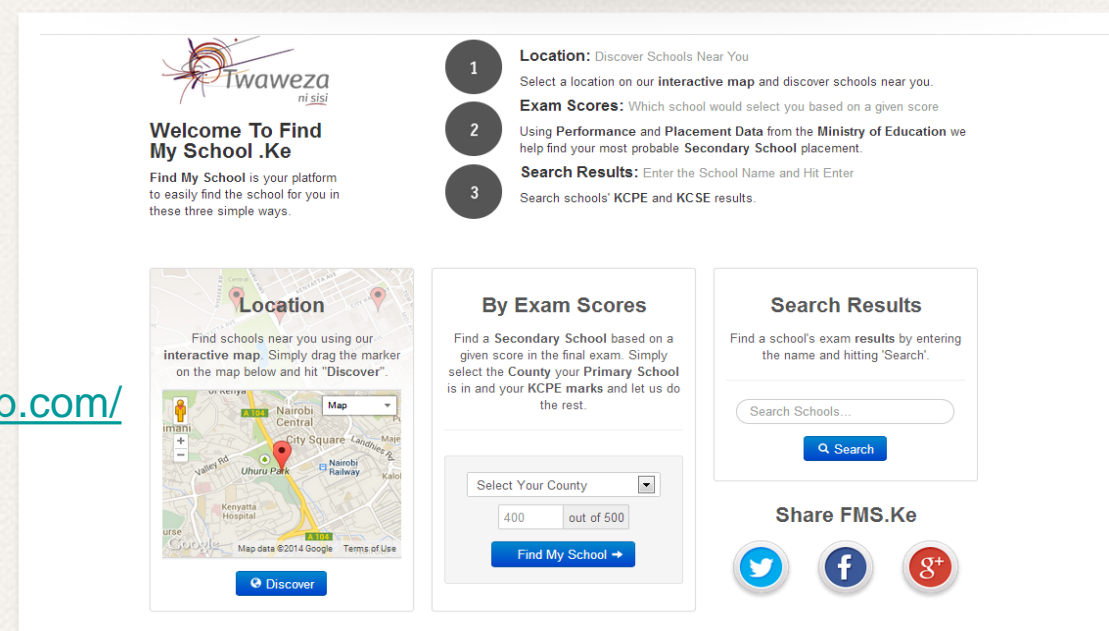


School choice...

- Boston (US): <http://www.discoverbps.org/>
- Holland: <http://schooltip.net/>
- Kenya: <http://findmyschool.co.ke/>
- Washington, DC (US): <http://school-chooser.herokuapp.com/>

And...

- Tanzania: <http://www.shule.info/>
- Chicago (US): <http://cpstiers.opencityapps.org/>
- Spain: <http://www.juntadeandalucia.es/>
- UK: <http://www.skillsroute.com/>
- Moldova: <http://afla.md/>
- New York City (US): <http://nyc-high-schools.findthebest.com/>

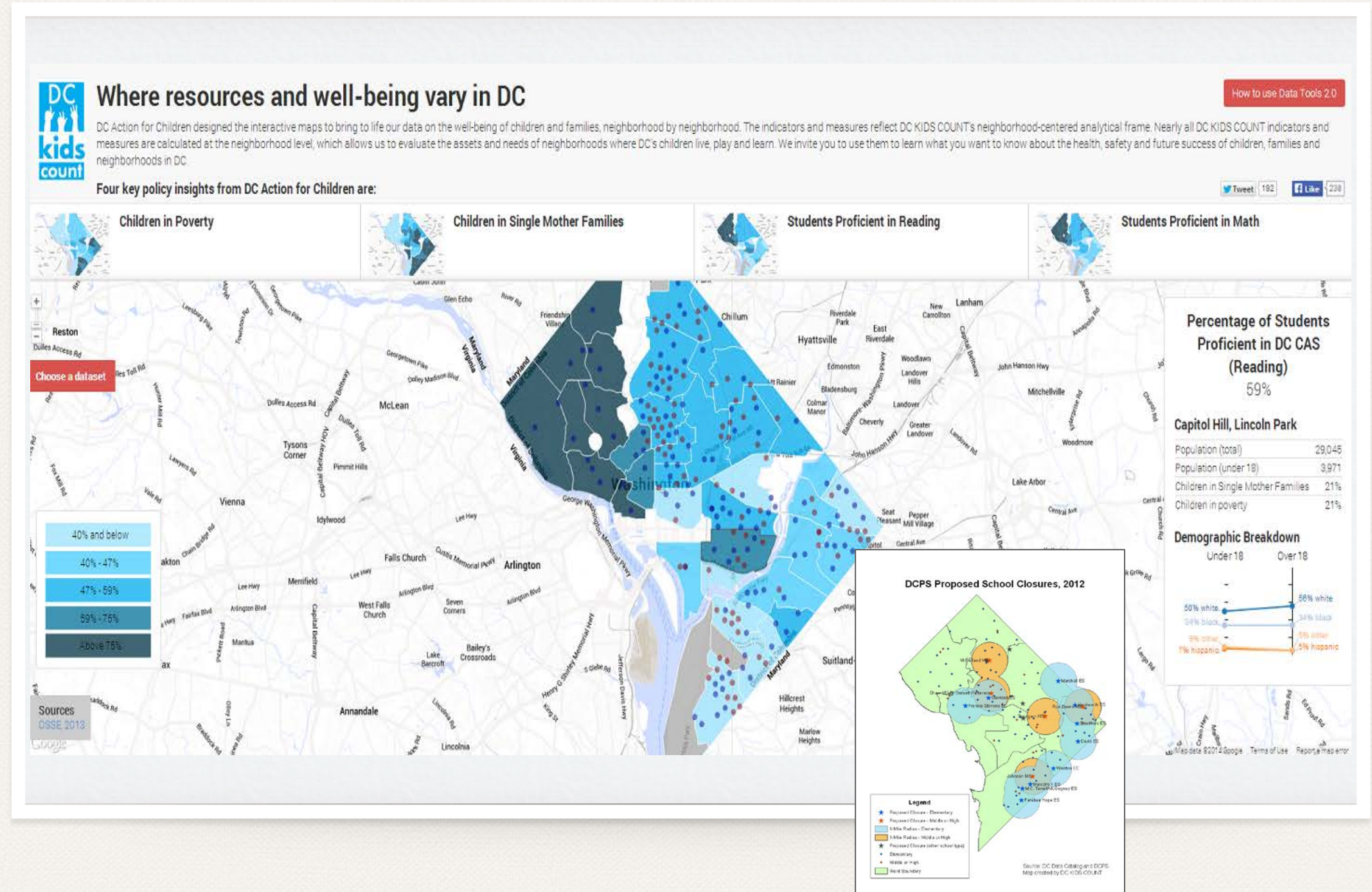


Advocacy

DC Action for Children

- Build tools and analyses used by DC Council, agencies, and NGOs to provide services for children and make policy decisions
- Organize a team of volunteers to create maps and visualizations that support advocacy efforts for NGOs and community organizations

<http://www.dcactionforchildren.org/>



Resource sharing among educators

Learning Registry

- 500 content contributors
- Paid and free content accessible to educators and caregivers
- Potential for greater impact relies on teachers accessing, promoting and expert curation, so best resources rise to top
- Long-term viability and sustainability rely on decentralized ownership by states, districts

The Learning Registry website features a clean, modern design. At the top left is the logo with the tagline "sharing what we know". A navigation bar includes links for HOME, PARTNERS, PUBLISHERS, DEVELOPERS, EDUCATORS, and NEWS & EVENTS. A counter in the top right corner displays "Currently 421,003 Learning resources registered". The main content area contains a descriptive paragraph about the registry's purpose. Below this is a diagram illustrating the flow from a "universe of digital resources" through "metadata" (including "Standard 3.2" and a star rating) to "tools & apps" and finally to "lessons" (exemplified by a "Geography" lesson with a map). A "data.csv" download button is visible at the bottom left of the diagram. On the right side, a "FEATURED RESOURCE" section highlights the "Pythagorean Theorem" from "Khan Academy", including a source link and a thumbnail image of the resource page. Below this is a "CONTRIBUTORS" section listing "ADL 3D Repository".

<http://learningregistry.org/>

Data Literacy

TuvaLabs

- Increasing demand for data scientists (across industries) – Burtchworks Study
- Projections of US shortage of 140-190K employees w/ deep analytical skills by – McKinsey Global Institute
- Enables teachers to bring relevant and engaging topics into their classrooms; critical local and community issues
- Used by hundreds of teachers (and their students) across 19 countries

<https://tuvalabs.com/>

Tuva LABS^β Find Resources Datasets Ask Support Search for datasets and activities Sign In Sign Up

Data Literacy Skills for a Brighter Future

Empower your students to think critically about data, ask meaningful questions, and communicate their conclusions.

Teacher Sign Up Student Sign Up

Enable Critical Thinking & Reasoning With Data
Enable your students to think critically about real data, ask meaningful questions, make evidence-based conclusions, and

Transition to the Common Core Standards
Conduct inquiry-based activities and lessons in Math, Science, and Social Studies topics aligned to the Common Core Content and

Bring Local & Global Issues Into the Classroom
Empower your students to acquire the knowledge, and skills to become active members of their own communities and

Policy design

DC's Boundary Review Process

- Citizen and stakeholder engagement to support city-wide policy change
- [Map](#) by Washington Post reflects changes to student assignment
- Our DC Schools
 - 50 pages of policy translated into a 7 question survey
 - 400 participants reached via face to face session; 4000 participants reached via ourdcschools.org
 - All data collected (except that which compromised privacy) was [published as open data](#) then [analyzed](#) by others

<http://ourdcschools.org/>

Home
Proposed School (Bancroft ES)
Proposed School Boundary
Current School (H D Cooke ES)
Current School Boundary

The Advisory Committee says, "Current boundary fails to encompass neighborhood barrier at Harvard St. Participation rate moderate at 47%; but building has little capacity available. Additional blocks added to the south absorb a bit of HD Cooke boundary where population growth is expected."

What's the big picture? The Washington Post created an [interactive map](#) illustrating all of the boundary changes for the entire city.

What do you think?

ourDCschools
student assignment unpacked.

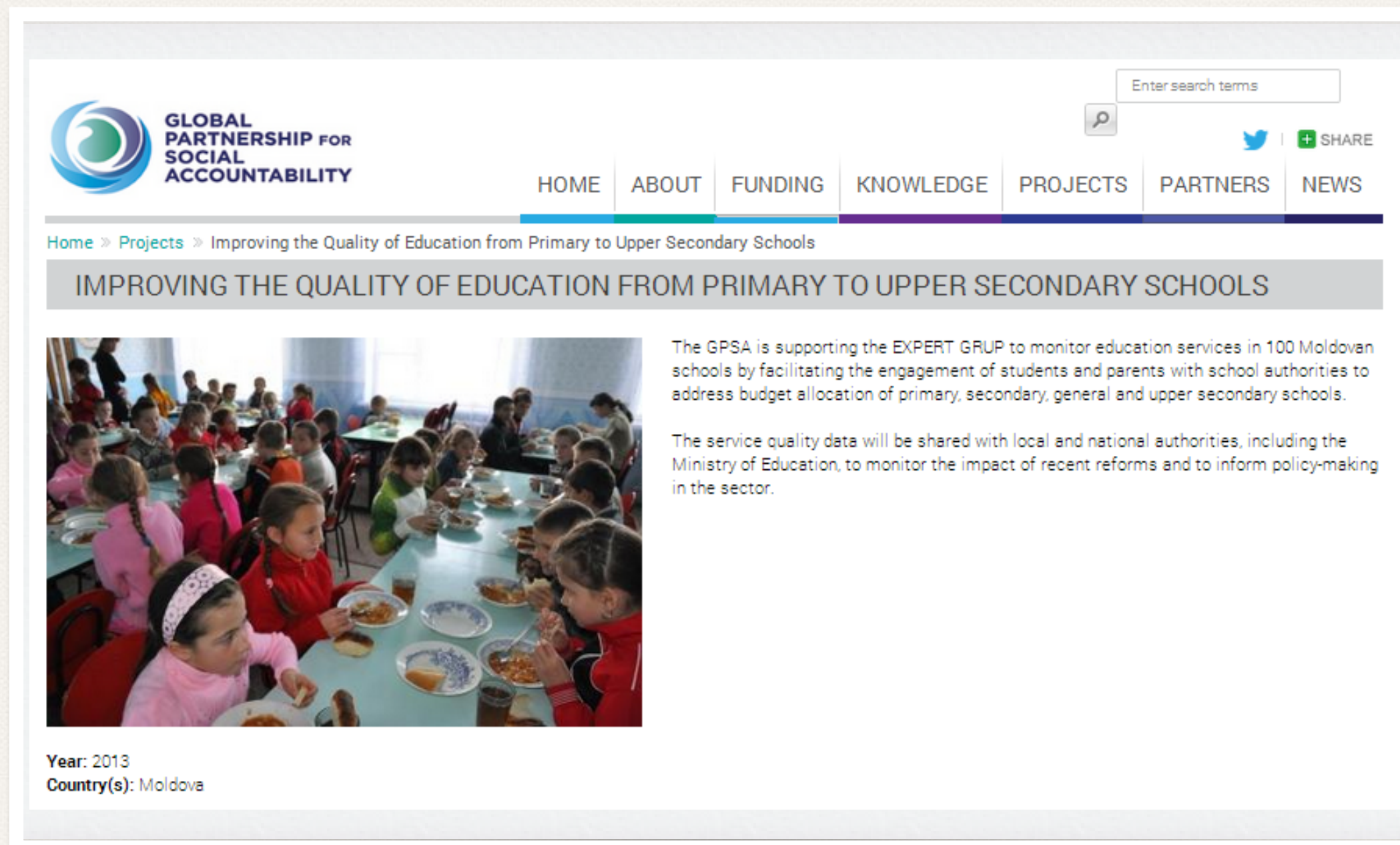
an initiative of
CODE FOR DC

Policy implementation

Education Reform Moldova

- Engagement of students and parents with school authorities to address **budget allocation** of primary, and secondary schools
- Monitor education services in 100 Moldovan schools
- Public hearings, community cards, independent budget analyses

<http://www.thegpsa.org/sa>



The screenshot displays the website for the Global Partnership for Social Accountability (GPSA). The header includes the GPSA logo, a search bar, and navigation links for HOME, ABOUT, FUNDING, KNOWLEDGE, PROJECTS, PARTNERS, and NEWS. The main content area features a breadcrumb trail: Home » Projects » Improving the Quality of Education from Primary to Upper Secondary Schools. Below this is a title bar for the project: IMPROVING THE QUALITY OF EDUCATION FROM PRIMARY TO UPPER SECONDARY SCHOOLS. A photograph shows a group of children sitting at long tables in a school cafeteria, eating. To the right of the photo, there is a text block describing the project: 'The GPSA is supporting the EXPERT GRUP to monitor education services in 100 Moldovan schools by facilitating the engagement of students and parents with school authorities to address budget allocation of primary, secondary, general and upper secondary schools. The service quality data will be shared with local and national authorities, including the Ministry of Education, to monitor the impact of recent reforms and to inform policy-making in the sector.' At the bottom left of the page, it states 'Year: 2013' and 'Country(s): Moldova'.



Social Impact in Development

Re-defining Development

Ecosystem Dependent

- Access to data
- Communities of problem 'experts', data experts, technologists, and journalists: 'Code for', Hacks/Hackers chapters, etc
- Thinking [beyond transparency and accountability](#)
- How is open data translating to actual solutions and benefits for people? (vs governments, institutions)



The screenshot shows a tweet from Sebastian Nader (@nadersebastian) posted on March 24, 2014, at 8:39 AM. The tweet text is: "5 ways entrepreneurs are fueling open data. blogs.worldbank.org/opendata/no-op ... via @worldbankdata lindo post @sandramoscoso lastima el "developing"..." Below the text are interaction icons for Reply, Retweet, Favorite, and More. A link to the World Bank article is included, with a preview of the article's content in Spanish: "No open data? No problem. 5 ways entrepreneurs are fueling open data... Nuevos métodos de recopilación de datos Open data is creating opportunities for governments to work more efficiently and effectively, for citizens to engage with government and take a more active..." A "View on web" link is also present. The tweet is marked as "Following" and has a "Flag media" option.

Uses of Open Data in Development

Survey, Research and Hangouts

World Bank and Inter-American Development Bank research.

- <http://blogs.worldbank.org/opendata/open-data-making-good-promise-turbo-boosted-development>

Collecting cases via online survey (to be made open)

- <http://bit.ly/OpenDataOps>

Series of Google Hangouts this summer, starting with Friday, July 25 @ 10:30 AM EST

- <https://plus.google.com/event/s/c9p4dfsth93jmh8olt9atglhhs0>

Google Trends

Interest over time. Web Search. Worldwide, 2004 - present.

■ "open data" ■ "international development"



Google™

[View full report in Google Trends](#)

Contact:

- Sam Lee, World Bank: @OpenNotion
- Antonio Moneo, Inter-American Development Bank: @AntonioMoneo

Promising Innovations

People as a platform

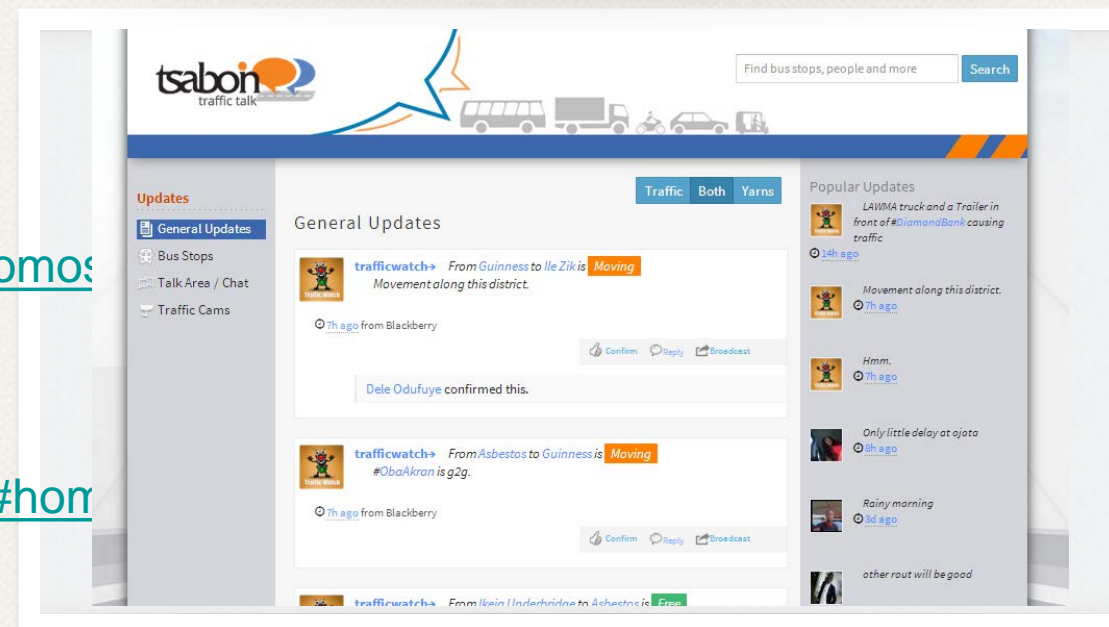
- DIY SmartCity – transportation
- Media as a social service
- Community-driven advocacy

DIY SmartCity - transportation

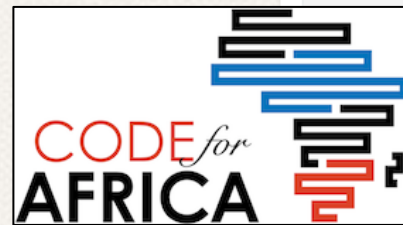


Collect Data,
Create infrastructure

- Dromos - Ecuador: <http://bumultimedia.com/dromos>
- YourBus - India: <http://www.yourbus.in/>
- Tsaboin - Nigeria: <https://www.tsaboin.com/>
- Prossess – Nigeria: <http://www.prossess.com/#home>

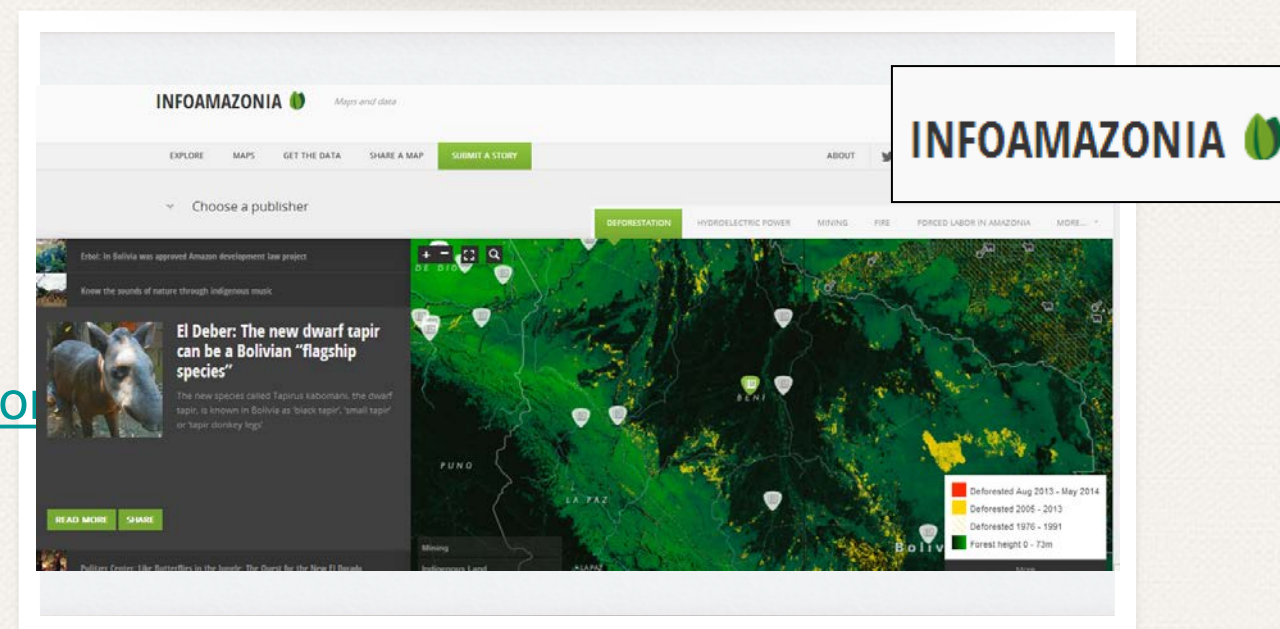


Media as a social service



Personalized and actionable news

- Malawi Election Information Centre: <http://malawivote2014.org/>
- Mutualistas - Uruguay: <http://mutualistas.datauy.org/>
- InfoAmazonia - Brazil: <http://infoamazonia.org/>



Community-driven advocacy



Follow The Money

#EducationinCrisis

#SaveBagega #NGFloods

Mapping Capital Expenditures in Federal Schools [2011 - 2013]

The screenshot shows a website header with social media icons (Facebook, Twitter, YouTube) and a navigation menu. The main content area features a photograph of a schoolyard with many children in white uniforms. Overlaid on the image is the text '#EducationinCrisis' and two hashtags: '#SaveBagega' and '#NGFloods'. Below the image, the title 'Mapping Capital Expenditures in Federal Schools [2011 - 2013]' is displayed.

FOR PEOPLE, FOR GOVERNMENTS, FOR COMMUNITIES

WHAT SHOULD YOUR MEDICINES COST?

Search for a medicine:

salbutamol

Matching products and/or ingredients: 35

Vari-Salbutamol 2Mg/5MI Syrup	R 22.46
Venteze	R 25.88

The screenshot shows a website header with the text 'FOR PEOPLE, FOR GOVERNMENTS, FOR COMMUNITIES' and a logo for the South African Consumer Education Centre (SACC). The main content area features a photograph of a man in a red tank top sitting at a table in a pharmacy. Overlaid on the image is a smartphone displaying a search for 'salbutamol' on the Medicine Price Registry website. The search results show two matching products: 'Vari-Salbutamol 2Mg/5MI Syrup' for R 22.46 and 'Venteze' for R 25.88.

Collect data, raise awareness

- Follow the Money - Nigeria:
<http://www.followthemoneyng.org/>
- Medicine Price Registry – South Africa:
<http://mpr.code4sa.org/>

Looking ahead

It's not about open data...

- It's about solving problems; it's about getting help from the broader community to get to the solutions; it's about helping ourselves
- Citizen engagement means nothing without transparency; need to include 'open' components as part of design of government, NGO, community, development, etc.
- Help the World Bank articulate how to measure the benefits of open data:
 - Share your work: <http://blogs.worldbank.org/opendata/open-data-making-good-promise-turbo-boosted-development>
 - Join the discussion: <http://blogs.worldbank.org/ic4d/open-data-goldmine-development?hootPostID=75d7ecf9d964987a0fe181857a318098>

- Thank you -

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