Open Data Impact In The Caribbean
- In Search of Evidence

By Yacine Khelladi
Exec. Director Fundación Taiguey – COI Founding member
Open Parliament Workshop

Asuncion, Paraguay
May 26-27th, 2016
Caribbean Open Institute

• regional initiative conceptualized by a community of Caribbean stakeholders and sponsored by the International Development Research Centre (IDRC) that seeks to facilitate the emergence of a Caribbean Knowledge Economy

• Three core pillars: **Open Data** - to foster the embracing of Open Data initiatives – **Research Communications** - promoting evidence-based policy making and **Impact** – new ways of planning, monitoring and evaluation in the information society

Open·Government·Data

“The proactive release of Government Data in a format that can be freely used, reused and redistributed by anyone for any purpose”
The Economic Opportunity of Open Data

$3 trillion
Approximate potential annual value enabled by open data in seven “domains”

USD 2.6 trillion per annum
1.1% GDP – G20
Post 2015 Data Revolution

“Transformative actions needed to respond to the demands of a complex development agenda” - undatarevolution.org

- **Data lifecycle**: efficiency+ thru production, collection, use
- **Data liberation**: transparency, accountability, equity
- **Capacity building**: data literacy, small & big data & analytics
- **Metrics**: new targets and indicators
Barriers to Open Data in the Caribbean

• Cultural
  – Limited access to high quality, locally relevant data
  – Data produced using public resources is often considered the private property of the organization which produced it
  – Cultural and institutional habits that forego the use of data, and other forms of evidence, for policy and decision making
  – Capacity-building efforts are required to effectively use new technologies to investigate, analyse, communicate and inform policy/decision-making

• Structural / Institutional
  – Small Island Developing States with limited scalability & resource endowments
  – Civil Society and Media Apathy towards Open Data, Governments slow to embrace
  – Competing Policy and Political Agenda Priorities for Scarce Resources
In Search of Evidence of Open Data Impact Potential

• Required To:
  – Identify Potential Value Impact Opportunities
  – Inform Policies & Approaches
  – Facilitate Targeted Interventions and Optimal Allocation Of Resources

• Mechanisms Used:
  – Engagement and Experimentation through CodeSprints & Fellowship Models
  – Capacity Building (intermediaries and consumers)
  – Economic Value Analysis in targeted domains
  – Sector Studies & Action Research
  – Community Building
## Economics of Caribbean Open Data

**eg. Tourism Levers/Drivers**

<table>
<thead>
<tr>
<th>Efficiency &amp; Effectiveness</th>
<th>Participation &amp; Collaboration</th>
<th>Transparency</th>
<th>New Services &amp; Businesses</th>
</tr>
</thead>
<tbody>
<tr>
<td>• Improved quality of service delivery in support services such as transportation, entertainment and merchandising. eg. Open-Data-enabled mobile Apps</td>
<td>• Increased linkages between tourism and other sectors such as Agriculture, Manufacturing, arts &amp; craft, self-employed service providers</td>
<td>• Increased transparency in the allocation and disposal of resources/funds for the development of the sector (i.e. Tourism Enhancement fund; JSIF – community-based tourism development</td>
<td>• Increased visibility and clientele for smaller hotel properties, attractions</td>
</tr>
<tr>
<td>• <strong>Enhanced tourism product information</strong> and diversity of choices for discriminating visitors with niche interests</td>
<td>• Empower Community Tourism interests and stakeholders with greater participation and collaboration in the development of the community tourism product; Open Data initiatives can impact positively on the visibility, inclusiveness and welfare of small operators</td>
<td>• Enhanced Market analysis and selective targeting through access to tourism origin data to stimulate Apps development, and enhance sector analysis and visualization</td>
<td>• Enable product development and market access for community-based tourism initiatives</td>
</tr>
<tr>
<td>• Enhanced Market analysis and selective targeting through access to tourism origin data to stimulate Apps development, and enhance sector analysis and visualization</td>
<td></td>
<td></td>
<td>• Innovation opportunities for software developers and other service entrepreneurs</td>
</tr>
</tbody>
</table>
Open Data Readiness Assessment in Caribbean

<table>
<thead>
<tr>
<th>DIMENSION</th>
<th>RATING</th>
</tr>
</thead>
<tbody>
<tr>
<td>Leadership</td>
<td>Yellow</td>
</tr>
<tr>
<td>Policy/Legal Framework</td>
<td>Yellow</td>
</tr>
<tr>
<td>Institutional Preparedness</td>
<td>Yellow/Red</td>
</tr>
<tr>
<td>Data within Government</td>
<td>Yellow</td>
</tr>
<tr>
<td>Demand for Data</td>
<td>Yellow/Red</td>
</tr>
<tr>
<td>Open Data Ecosystem</td>
<td>Green</td>
</tr>
<tr>
<td>Financing</td>
<td>Yellow</td>
</tr>
<tr>
<td>Technology &amp; Skills Infrastructure</td>
<td>Green/Yellow</td>
</tr>
</tbody>
</table>

Dominican Republic

Trinidad & Tobago

Haiti (soon)

Jamaica

Antigua & Barbuda

St. Lucia

Trinidad & Tobago
Emerging Insights to inform “Theories of Change”

• **Intermediaries** will play a significant role both as catalysts and enablers
• Greater impetus and resonance will derive from increased **efficiency of public service delivery, and innovation** leading transparency/accountability
• **Innovation fellowships** will provide an important mechanism for collaborative government-civil society co-creation in key developmental areas
• The value sustainability of the open data initiatives in the region will ultimately rely on the emergence of a **vibrant Caribbean open data ecosystem** of actors
• **Governments’ role** will require active participation on supply and demand sides of the Caribbean open data ecosystem
• **Multi-sector approaches** will drive the greatest economic returns on open data
• Scale limits and resource deficits will require a common set of technology platforms, tools, standards and code repositories for shared use i.e. the **Caribbean Digital Commons**
Current Open Data Research

Sector Mapping Studies in 5 Caribbean Countries
- Agriculture
- Fisheries / MPAs
- Tourism
- Education
- National Statistics

4 x Strategic Initiatives
- Towards a Data-Driven Agriculture Sector in Jamaica
- Open Data and Interactive Community Mapping
- Visualizing the Structure and Linkages in the Domestic Economy Using National Statistics
- Open Data and Improving Governance of Protected Areas (BIOPAMA Gateway)
- Establish the Caribbean School of Data

COI Action Research Program
- Funded under OD4D Network & Program
- Explore OGD Impact & Sustainability through regional case studies over 24 months

Build evidence of Open Data Impact Opportunities in the Caribbean
- Catalyst for collaboration and co-production of public service delivery
- Adoption of technical standards can contribute to the scaling up, sustainability and impact of open data initiatives
- Build capacities of data entrepreneurs and public sector
- Identification of key policy issues in open data environments
# Open Data Strategic Initiatives

## Towards an Agriculture Digital Services Model for Data-Driven Agriculture Sector in Jamaica

**Sector:** Agriculture  
**Target Impact:** Explore the potential of emergent best practice in government digital services to address challenges in data accessibility, quality and data gaps

## Open Data and Interactive Community Mapping: Empowering Local Community Tourism

**Sector:** Community Tourism  
**Target Impact:** effective engagement, capacity-building & empowerment of local community participants

## Visualizing the structure and linkages in the Jamaican economy using Official Statistics (Administrative Data)

**Sector:** National Statistics  
**Target Impact:** increase the accessibility, understandability & re-usability of national statistics

## Open Data and the BIOPAMA Gateway: Towards Improved Governance and Decision-Making of the Caribbean’s Protected Areas

**Sector:** Marine Protected Areas  
**Target Impact:** Greater alignment of data (biodiversity, livelihoods, governance) to enhance governance and decision-making affecting PAs

## Establish the Caribbean School of Data

**Sector:** All  
**Target Impact:** In general, building data literacy capacity will increase the impact of the various open data initiatives across sectors. The emphasis of this initiative will be on sustainability through established regional capacity-building institutions
DevCA - Developing the Caribbean

A Powerful Convening Platform for Caribbean Open Data
DevCA is a Multi-Country Open Data Conference & Codesprint

- Conference Sites: Jamaica, Trinidad, Dominican Republic
- Codesprint sites: Barbados, Guyana, Cuba, St.Kitts

Thematic Areas: Agriculture, Tourism, Education, Data Journalism, Census 2010, Consumer Prices, Elections

Conference website: http://developingcaribbean.org

Outcomes: Awareness, Advocacy, Engagement, Experimentation, Entrepreneurship
DevCA Engages with Caribbean Leaders…
DevCA Engages with International Experts…
DevCA Engages with Caribbean Academics…
DevCA Engages with Caribbean Technologists...
DevCA - Building The Caribbean Digital Commons
The Caribbean Digital Commons

*Imagining the Future Digital Caribbean*

- **Opencaribbean.org**: Open Caribbean Datasets for Entrepreneurs and Innovators
- **Caribbean School of Data**: Building Data literacy and Digital Competency across the Caribbean
- **DevCA**: A Platform (Open Space) for convening multiple stakeholders around Digital Services-enabled problem-solving
- **Caribbean Mobile Innovation Program**: Building the mobile Apps ecosystem
- **Caribbean FOSS Ecosystem**: Peer-Production model for Indigenous Solutions
- **Caribbean Open Forum**: communities of practice
Fundación Taigüey  
#DevCa2012: first OD event in Dominican Republic

• Seminar on OD, and hackaton on apps for National development strategy (END) using 2010 census data
#DevCa2013: UN- ECLAC study and Education Hackaton
#DevCa2016: Electoral Hackaton, live after 10 days with Participación Cuidadana
Hackaton Electoral #devca2016
<table>
<thead>
<tr>
<th>Demarcacion</th>
<th>Cargo</th>
<th>Posición</th>
<th>Nombres</th>
<th>Siglas</th>
<th>Sexo</th>
<th>Aliados</th>
</tr>
</thead>
<tbody>
<tr>
<td>Municipio : LA CENAGA</td>
<td>ALCALDE</td>
<td>1</td>
<td>ERIKA ODAMIRIS SANCHEZ FELIZ</td>
<td>AFD</td>
<td>F</td>
<td>PRLD</td>
</tr>
<tr>
<td>Municipio : LA CENAGA</td>
<td>ALCALDE</td>
<td>1</td>
<td>LUIS ENRIQUE ARBOLEDA GOMEZ</td>
<td>FNP</td>
<td>M</td>
<td></td>
</tr>
<tr>
<td>Municipio : LA CENAGA</td>
<td>ALCALDE</td>
<td>1</td>
<td>ISIDORO RELVIN FELIZ JIMENEZ</td>
<td>PDL</td>
<td>M</td>
<td>FRD, MODA, BIS, PCD, PPD, PPC, PAL, FASOVTE, FDI, FDP, PNV, PRI</td>
</tr>
<tr>
<td>Municipio : LA CENAGA</td>
<td>ALCALDE</td>
<td>1</td>
<td>FELIPE MEDINA DE LEON</td>
<td>PDC</td>
<td>M</td>
<td></td>
</tr>
<tr>
<td>Municipio : LA CENAGA</td>
<td>ALCALDE</td>
<td>1</td>
<td>CARLOS AMADO FELIZ SANTANA</td>
<td>PRM</td>
<td>M</td>
<td>FRSC, PHD, PUN, ECOC, FREnte AMPLIO</td>
</tr>
</tbody>
</table>

Showing 1 to 5 of 5 entries
Puedes denunciar cualquier acto irregular que observes en el proceso electoral.

También puedes denunciar un problema o incidente enviando mini mensaje al 849 655 8999, díos qué pasó y dónde fue. El equipo de Participación Ciudadana investigará el incidente.

Verifícate por minimensaje
Manda tu número de cédula completo a este número para saber tu recinto de votar

📞 849 655 8999
Realice aquí cualquier reporte de incidencia o denuncia. Díganos que pasó e investigaremos.
Usted puede opcionalmente dejar su número de teléfono para que el equipo de Participación Ciudadana lo llame para investigar su denuncia. Sus datos personales son confidenciales solo serán usados por el equipo de observación electoral de Participación Ciudadana.

<table>
<thead>
<tr>
<th>Municipio</th>
<th>Seleccionar...</th>
</tr>
</thead>
<tbody>
<tr>
<td>Comunidad o Barrio</td>
<td>Comunidad o Barrio</td>
</tr>
<tr>
<td>(Opcional) Recinto</td>
<td>Seleccionar...</td>
</tr>
<tr>
<td>(Opcional) Nombre Completo</td>
<td>Nombre Completo</td>
</tr>
</tbody>
</table>
Partidos haciendo proselitismo
Propaganda política en los recintos
Compra y/o venta de cédula
Oferta de dinero por votar
Personas controlando cédulas e introduciendo personas a los colegios
Reparto de dádivas
Distribución de bebidas alcohólicas recinto votación
Violencia o riñas
Robo de urna
Distribución de dinero
Twitter scan for hashtags -- > invite to the http://votchat.com/

VotChat:
¡Hola, buenas tardes! soy el robot inteligente de monitoreo electoral de Participación Ciudadana.

VotChat:
¡Empecemos! ¿Me cuentas tu reporte ó denuncia?

escribeme tu reporte...
¡Hola, buenas tardes!, soy el robot Vot.

VotChat:
¡Empecemos!, ¿Me cuentas tu reporte o denuncia?

Tu:
estan quemando uranas y actas

VotChat:
¡Gracias por informarnos!

VotChat:
¿Deseas abundar más en tu reporte?

escribeme tu reporte...
<table>
<thead>
<tr>
<th></th>
<th>entradas</th>
<th>Aprobadas</th>
<th>Rechazada</th>
<th>en proceso verificación</th>
<th>Inactiva</th>
<th>Pendiente asignar</th>
</tr>
</thead>
<tbody>
<tr>
<td>del web</td>
<td>392</td>
<td>113</td>
<td>27</td>
<td>134</td>
<td>6</td>
<td>4</td>
</tr>
<tr>
<td>del SMS</td>
<td>60</td>
<td>1</td>
<td>42</td>
<td>12</td>
<td>4</td>
<td>0</td>
</tr>
<tr>
<td>del bot chat</td>
<td>45</td>
<td>1</td>
<td>15</td>
<td>20</td>
<td>3</td>
<td>1</td>
</tr>
<tr>
<td>total</td>
<td>497</td>
<td>115</td>
<td>84</td>
<td>166</td>
<td>13</td>
<td>5</td>
</tr>
<tr>
<td>%</td>
<td>100%</td>
<td>23%</td>
<td>17%</td>
<td>33%</td>
<td>3%</td>
<td>1%</td>
</tr>
<tr>
<td>Country/Mention</td>
<td>Number</td>
<td>Verification Status</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>-------------------------</td>
<td>--------</td>
<td>------------------------------</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Nigeria 2015 (third year of Aggie)</td>
<td>249</td>
<td>33% verified</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Ghana 2012</td>
<td>358</td>
<td>Not verified</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Argentina Ojo el Voto</td>
<td>3606</td>
<td>Not verified</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>#DevCA2016 In Dominican Rep.</td>
<td>497</td>
<td>23% and more as we talk</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Gracias - Thank you

Yacine Khelladi – yacine@yacine.net
Fundación Taigüey– www.taiguey.org
Caribbean Open Institute www.caribbeanopeninstitute.org