



**OPEN DATA FOR DEVELOPMENT (OD4D)
ANNUAL REPORT 2017-18**

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Open Data for Development

Open Data for Development (OD4D) is the leading global partnership created to advance open data innovation and use around the world.

This annual report provides:

- An overview on the global context, trends and issues influencing the program;
- A summary of the results and activities supported by the OD4D program in 2017 according to the overarching program objectives;

How Open Data can be used for Development

Open data is data that is released online that can be freely used, reused and redistributed by anyone. Open data comes from many sources: governments, multi-lateral agencies, scientists, private sector, and civil society.

Open data is becoming a major driver for social change, innovation and development. When used effectively (as outlined in some of the examples in this report), this data has the potential to transform societies - contributing to increased transparency and accountability in governments, more innovative economies and public service delivery, and improved participation and engagement from citizens leading to more inclusive and sustainable development.

The Open Data for Development network

At the heart of the network is the Open Data for Development (OD4D) program, established in 2015 as a multi-donor initiative funded by the International Development Research Centre (IDRC), the World Bank (WB), Global Affairs Canada (GAC), and United Kingdom's Department for International Development (DFID), and now the Hewlett Foundation.

Through a coordinated program hosted at IDRC, OD4D leverages a global network of regional hubs, expert advisors and global initiatives to use open data in generating greater accountability and transparency, locally-driven innovations, and better delivery of key public services in areas such as gender equality, education and health. OD4D's network of partners who come from around the world are leading global thinking on open data, and using the knowledge to create impact on the ground by researching what works and what doesn't in opening and using data for social good, and provides support to governments and civic entrepreneurs in key issues such as open data policies and practices, privacy, standards, innovation, and skills development.



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Executive summary: The OD4D Programme in 2017-18

The Open Data for Development Programme continued to prioritise our 5 core pillars throughout the work with our network partners, with the ultimate aim of using open data in innovative ways to advance better development.

- **Catalyzing Action:** To help governments, entrepreneurs, and civil society advance a global action plan to harness open data for development;
- **Support to Governments:** To support developing country governments to plan, execute, and manage national open data initiatives;
- **Scale Effective Use:** To increase re-use of open data in developing countries by supporting appropriate data standards, guidelines, solution-driven applications, and demand-side capacity, helping to bring about social and economic innovation;
- **Monitor Impact:** To better understand the relationship between open data initiatives and socioeconomic development, informing the quality and reach of future open data initiatives; and
- **Build Institutional Capacity:** To build the institutional capacity and long-term sustainability of the OD4D network.

2017 represented an important turning point for the Open Data for Development Network. Following a largely positive network evaluation, OD4D began to integrate key learnings from the evaluation into the network structure. Additional focus was placed on building OD4D's regional network hubs as centres of excellence: demonstrating southern leadership of open data agendas, supporting context-specific open data use and discourse, and connecting with conversations about the "Data Revolution" at subnational, national, regional and international policy levels. This strategic shift allowed the network to better research and engage with important dialogues emerging around data for development (Ethics, Algorithms, and Privacy rights), to support relevant development priorities and sector-specific opportunities, and continue to act as conveners of stakeholders in government, civil society, academia and business.

With a renewed focus on the OD4D Network Hubs, we also engaged a network of advisors for the network. These advisors aimed to provide sector-specific advice, and explored important crossover areas, for example in terms of National Statistics, Open Cities, Data Governance, and Data and Gender. They acted as strategic representatives in some for a, and supported new learning models for building data literacy and technical capacity.

With a renewed focus on Gender, OD4D invested significant funds into further exploring how open data can support gender equality. A new set of investments which engages the OD4D network started in 2018, and work on combatting femicides with data in Latin America, data literacy in Haiti, and new innovations in Africa are slowly augmenting work in this area, with outcomes expected to be realised by 2018. The OD4D Network is also directly engaged in

building the evidence that will support a more Feminist Open Government, a key priority of the Canadian co-chair of the Open Government Partnership with Nathaniel Heller, which starts in September 2018.

The OD4D network also continued to support global efforts to measure and monitor open data. The last edition of the full Open Data Barometer, launched in 2017, provided a global overview and benchmarking of government open data. Also, the State of Open Data project began an open and consultative process to investigate the past ten years of open data, with over 32 chapters examining regional trends, sectors-specific discourse, and cross-data thematics, shared for consultation online and a final edition due in early 2019. And the network contributed to global activities around sharing new research and opportunities, aiming to use evidence

Finally, the programme had to contend with external forces relating to global strategy and shifting geopolitical headwinds. Some well-established funding partnerships came to an end, as OD4D reached the culmination of its initial programming cycle (2014-mid 2017). Meanwhile new ones began, such as with the welcome addition of the William and Flora Hewlett Foundation, which has targeted the establishment of our new hub in Francophone Africa (CAFDO).

Ultimately, releasing and using open data to spur the public interest is far from a universal trend, and visions of open by default are far from being realized in a number of sectors and countries. At the same time, in the almost eight years that OD4D partners have been engaged in this space, the infrastructure, capacity, and discourse has evolved and been adopted by new actors. Since its inception the OD4D network has supported over 15 governments through technical support, provided capacity building to 1000+, generated a significant amount of learning and policy uptake, and provided a number of opportunities to seed and scale open data innovation and use.

The next OD4D Action Plan, currently in the planning phase for 2018-2020, will ultimately take emerging new trends into account, re-emphasizing research and learning, knowledge translation for policy change, and ongoing capacity building for existing and new actors, and the need to collectively build context-specific agendas to spur ongoing political support and sustainable investments into the open data space.

i. Open Data Innovation in a Global Context

“Open data is only valuable insofar as it is relevant to the concerns of society, and actually being used to improve people’s lives” – Interim Technical report, Africa Open Data Network

As the field of open data has matured, discussions around the value of open data and understanding of the political will, drivers and capacities of government departments, National Statistics Offices, to supply of relevant and important data in via standards that facilitate its use and re-use through interoperability. While there is still a need for core skill building, now different models of sectoral collaboration are emerging to emphasize the potential uses of open data.

Now more than ever before, more diverse data from a variety of sources is being created and released, and this raises new opportunities for innovation towards the sustainable development goals, and also new opportunities for ethical, open sharing of data to serve the public interest in a variety of ways.

Much of the world's government data is still closed

The 2016 Open Data Barometer, published in 2017 and supported by the OD4D network, revealed an important finding – as many as 9 out of 10 government data sets are still closed. With emerging innovative sources of data, and multiple systems within countries generating and/or using data, it is important to think about how systems can talk to each other to facilitate improved data collection/use, taking into account the ethical and operational challenges of interoperability

The big questions: Big Data, Open Data, Ethics, AI and Algorithms

New data sources, such as private sector data from mobile phones and satellites, citizen-sourced data, as well as data from global NGOs, has major potential to fill in the existing data gaps, but techniques to validate and use this data are still under study. New mechanisms of analysis and decision-making such as Machine Learning and Artificial Intelligence benefit from data sharing and open data. A new and complex policy space is emerging that seeks to harness the power of data sharing and advanced analytics while ensuring privacy and rights. This conversation is moving beyond the technical and social aspects of open data to consider new legal and governance frameworks to manage the many sources of data for development.

Capacity is still a core challenge

Data literacy is but one of the many open data capacity gaps that continue to challenge the open data community. Technology gaps, human resource challenges, inadequate access to meaningful data, language restrictions, business model challenges all continue to be challenges that need to be overcome. That being said, this is an area that has seen significant progress and the emergence of many new communities.

ii. Open Data for Development in Action: 2017-18

Objective 1: Catalyzing Regional and Global Action around Open Data

1.1 Regional Hubs: building southern leadership and capacity in open data innovation

Throughout 2018, OD4D continued to focus on strengthening the six regional hubs as centre of excellence in open data that could convene, collaborate and support open data.

These are located in Latin America ([Latin America Open Data Initiative](#)), the Caribbean ([Caribbean Open Institute](#)), Africa ([Africa Open Data Network \(AODN\)](#)), the Middle East and North Africa (MENA) ([ODMENA](#) with Access to knowledge for Development), and Eastern Europe and Central Asia ([Open Data in East Europe and Central Asia](#)). Also, following a successful call, the Francophone Africa hub (Communauté Afrique Francophone des Données Ouvertes (CAFDO)).

Agenda-Setting: leading the regional community in open government data innovation

Our regional hubs actively supported convening and mobilizing diverse stakeholders in for important discussions in their regional communities through dozens of activities and events, including the following key regional conferences:

- The fifth [Condatos - Abrelatam](#) in Costa Rica in 2017 and
- The first [Conférence d'Afrique Francophone sur les Données Ouvertes \(CAFDO\)](#) in June 2017 in Burkina Faso
- The [Africa Open Data Conference in July 2017 in Accra](#)
- Participating in important forums like the World Data Forum

Policy and Advocacy: Integrating Open Data into the Global Agenda

- **Supporting open data policy in Costa Rica:** In partnership with OAS Trust, the Latin America Open Data Initiative regional hub assisted Costa Rican civil society and government to draft an open data policy, which was signed by the President of Costa Rica on April 27, 2017.
- **OD4D partner Open Data Watch supports National Statistical Offices opening their data:** The United Nations Statistical Commission's (UNSC) Friday Seminar in 2017 was on Open Data - a first for the commission, and a number of representatives outlined how they are using the Open Data Inventory. Following up on the results of the working

session, the UNSC has formally committed to addressing the practical questions of making data open and accessible in the context of National Statistical Systems.

- **Summit of the Americas:** ILDA brought together a number of stakeholders and drafted the Declaration in Advance of the Summit of the Americas to Heads of State outlining work and suggestions on transparency, open government, civic tech, open contracting, freedom of expression, gender equality, and the fulfillment of human rights in the Americas. In addition, the Open Data for Development-funded anti-corruption data package was a core reference/background for the discussions.

Objective 2: Support to Governments

Releasing open data is more than a technical endeavour – it often requires new ways of working and new kinds of skills to work in the open with a variety of groups within public services and outside of it. OD4D has consistently supported both political leaders as well as public service leaders through peer learning such as the Open Data Leaders Network, training, and technical support including policy advice, support towards implementing specific standards, and more.

Building Networks of Government Leaders

Building leaders within governments is key to help catalyze change, effectively implement open data policies, and to unlock data's value to society. Our use online training and discussion forums and strategic gatherings for peer-networks bring together government leaders that are implementing open data initiatives in their own countries around the world. Ultimately, more than 500 people to date have participated in these activities.

Technical Support to Governments

In 2017, OD4D worked with regional hubs and other partners to provide support directly to governments on sectoral initiatives, implementing new standards and guides, and more. Haiti, Costa Rica, Colombia, El Salvador, Sierra Leone, Chile, Uruguay, Jamaica, Guatemala, Indonesia, and Argentina benefited in 2017-2018.

In 2018, Open Data for Development Network established a thematic partnership to further advance open data across the Open Government Partnership. This partnership aims to increase support for transformative commitments by strengthening the capacity for more effective planning and implementation of open data initiatives, particularly in developing countries.

Objective 3: Scale open data use and innovation in developing countries

Scaling Innovations

OD4D continues to build on previous work that prioritized standards, interoperability, open source platforms, effective licensing, and action research that documents learning on scaling. In 2017, OD4D is targeting investments in sectors with significant potential for social and economic impact. These areas have include open procurement and contracting, health, new research into gender methodologies, data journalism, anti-corruption, urban mobility, mobilizing new technologies to measure air quality, investigating data and agriculture, investing in resilient cities, and testing evidence-based models to provide better health to refugees, and scaling successful technologies.

Training Civil Society and Data Users

In 2017, OD4D has been experimenting with new models to train data users. Partners have explored a variety of models to deliver support. In Haiti, the Caribbean Open Institute and School of Data piloted a training module 300 young women on data-related skills, aiming to support their increased access to employment. In MENA, support for data journalism training aimed to help journalists use data in new and effective ways, as well as civil society. In Latin America, Gov Camps and roundtables have investigated new data standards. In Africa, they are testing the impact of embedded fellows who help build capacity in organizations, and in country led focal points who support additional work.

Objective 4: Monitoring Impact to understand the relationship between open data and development

The state of open data project: is an open and collaborative stock-taking exercise short summary articles that take stock of the open data landscape in particular communities, across the range of stakeholder groups, across different regions, or in light of key cross-cutting issues. The final edition, due in early 2019, will produce a flagship publication to serve as a core reference and as a stimulus for policymakers, practitioners, and researchers. It will build on OD4D (Open Data for Development) measurement tools that already examine both supply and demand for open data, and research that supports a growing number of communities across regions and sectors.

Supporting research uptake: Aiming to address language gaps and policy uptake, ILDA has development RIGA ([Repositorio de Investigaciones Cuantitativa y Cualitativa sobre Innovaciones en Gobernanza](#)) to share Spanish language findings of open data research.

Measuring what works: OD4D is supporting a special edition of the Open Data Barometer focusing on Africa that is nearing completion by the end of 2018. Similarly, CAFDO is aiming to ensure contextual materials are available for French language speakers.

Individual research: white papers, peer reviewed publications, and learning is being captured on diverse subjects such as [AI](#), [Right to Information](#), open data and health, [combatting gender violence](#), [capacity building](#), sensor data, costing and scalable business models, [data journalism](#), pedagogy and more.

Open Data & Gender

OD4D has continued to prioritize support to innovation for gender equality and gender transformation. For instance, in Latin America, we have worked with the Organization of American States and governments in the region to help prevent and eliminate violence against women, catalysing actions to collect reliable data on domestic violence and women's homicides.

ODMENA research will focus on analyzing the status of data and its levels of accessibility within the agricultural sector in Sudan, with a particular focus on women in the sector and the extent to which data on and for women, has been collected, managed or used in studies on the sector.

In partnership with the Government of Canada and the Open Government Partnership created the Feminist Open Government Initiative (FOGO), which seeks to build more evidence on how technology-enabled open government can lead to better governance. Open government processes that include anti-corruption, participatory budgeting, and other transparency and accountability initiatives have struggled to fully include women and other historically excluded groups due to a variety of power asymmetries. A significant portion of the initial work and consultations are being led by the OD4D network.

While the challenges around focus and capacity still exist, the renewed focus has resulted in significantly more activity, and we anticipate will lead to stronger outcomes heading into 2019/2020.

iii. Challenges & Lessons learned

As a new phase of investments is completed, the Open Data for Development (OD4D) program will aim to build in stronger monitoring, evaluation and peer learning mechanisms into the projects for 2016-2020. OD4D will also draw strongly on the recommendations outline in the OD4D External Evaluation. These mechanisms will continue to include group calls, knowledge sharing, and efforts to build a broader community of practice – especially for people in the network who engage directly in developing countries.

Also, regional (and national) maturity and priorities differ significantly across the network, which can make collaboration more challenging. We are in the process of implementing a

learning agenda and peer support forum to formalize collaborations between the hubs and the advisors.

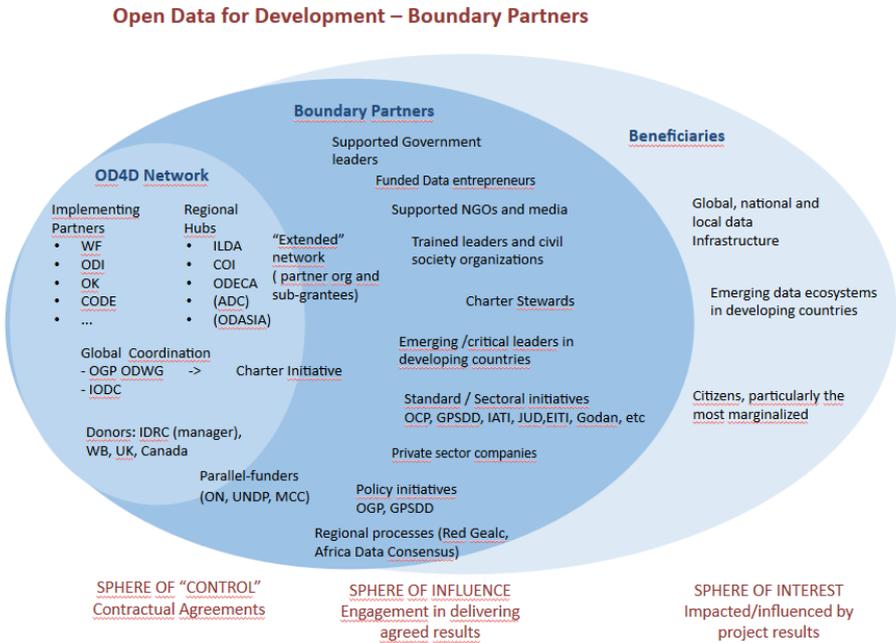
Finally, we will continue to advance an evidence-based agenda for change, including supporting monitoring that better documents outcomes. The need for ongoing emphasis on knowledge translation, documenting learning, and communicating strategically with intent to influence core stakeholders and policy audiences, both as a network, and as individual actors and organizations.

Annex A: The OD4D Program

The Open Data for Development (OD4D) program vision is to harness open data to empower women and men around the world to achieve their own development goals and actively participate in decisions affecting their lives.

OD4D is organized around the following structure: Regional Hubs, Global Initiatives, and Program Management. Through its coordinated support, the program leverages the capacity of the regional hubs and global initiatives to reach out to a global network that is benefiting citizens around the world.

The following infographic maps out the network of partners directly involved in delivering the Open Data for Development program (i.e. OD4D network), and the relevant boundary partners engaged in delivering results to the ultimate beneficiaries.



Regional Hubs

Open Data for Development (OD4D) currently works in many regions across the world, with much of this work being coordinated by our regional open data hubs. These hubs amplify the impact of open data in their respective regions, and are powered by a collaborating network of stakeholders from government, civil society and academia.

Latin America Open Data Initiative (ILDA)

Open Data for Development's (OD4D) work in Latin America is coordinated by the Latin America Open Data Initiative (ILDA in its Spanish acronym). Currently, ILDA is working with the aim of scaling open data initiatives that contribute to reducing corruption, improving health service delivery, increasing the resilience of cities, and reducing violence against women. ILDA is co-funded by Fundación Avina.

Learn more at: <http://idatosabiertos.org/>.

Caribbean Open Institute

OD4D's Caribbean work is coordinated by the Caribbean Open Institute (COI). The Caribbean Open Institute (COI) is a regional coalition of individuals and organizations that promotes open development approaches to inclusion, participation and innovation within the Caribbean, using open data as a catalyst. The World Bank and Google have also made direct contributions to COI activities.

Learn more at: <http://caribbeanopeninstitute.org/>.

Open Data in Eastern Europe and Central Asia (ODECA)

OD4D's work in Eastern Europe and Central Asia is coordinated by Open Data in Eastern Europe and Central Asia (ODECA) in Istanbul, Turkey. This hub is hosted by the UNDP Regional Centre for Europe and the CIS in Istanbul, Turkey. ODECA serves as a platform to support government representatives, civil society, and citizens to work with open data. In 2016, the Government of Slovakia became ODECA's major funder.

Learn more at: <http://www.odecanet.org/>.

Africa Open Data Network (AODN)

The Africa Open Data Network (AODN) is responsible for coordinating our work in Sub-Saharan Africa. The AODN aims to scale the development impact of open data initiatives in Africa through promoting the adoption of improved open data principles, best practices, policies, partnerships, and use. Hosted by the Local Development Research Initiative (LDRI)

in Kenya, the AODN emerges from collaborative processes which goes back to the establishment of the Africa Data Consensus. The AODN will be supported with additional capacity building and innovation-oriented activities, building on existing OD4D work in Africa, including efforts led by Open Knowledge International (OKI), the Open Data Institute (ODI) and the Web Foundation. .

Learn more at: <http://africaopendatanetwork.org/>.

Open Data Hub in the Middle East and North Africa

Work is coordinated by Access to Knowledge for Development (A2K4D) center at the American University in Cairo, Egypt. Their work aims to strengthen research and advocacy capacity of the open data community in the MENA region to help address the long-lasting development challenges. This work will also support innovation in different fields, as well as build stronger connections with international open data initiatives and partners.

African Francophone Open Data Community (CAFDO)

Open Burkina was selected to coordinate the African Francophone Open Data Community and act as a regional hub to coordinate around research, innovation, and capacity building in Francophone Africa. As of June 2018, activities have commenced with local representatives in 8 countries, including local capacity building, agenda building, and working with multi-stakeholder partners.

Contribution to Global Initiatives

Open Data for Development has worked with leading organizations in the open data field to advance global initiatives, ensure the inclusion of global voices, and to collaborate together around open data.

International Open Data Conference

OD4D has acted as co-host of the International Open Data Conference (IODC) in both 2015 and 2016, and soon in 2018, leading the development of the conference agenda and key pre-events. OD4D revitalized the conference as a key gathering for the open data community with a significant financial contribution to IODC in Ottawa in 2015. IODC 2016 in Madrid was principally funded by the Government of Spain.

Open Data Leaders Network

The Open Data Leaders Network (ODLN) was established through an OD4D grant to the Open Data Institute. In 2017, its main contribution is related to support from developing

country participants in the international network, while the OD4D nodes have led regionalization of the peer-networks.

School of Data

The School of Data initiative started in 2012, incubated by Open Knowledge International, and has had support from many donors, including particularly Hewlett, Hivos and Open Society Foundation (OSF). OD4D has supported the School of Data since 2014, and was crucial to provide fellowships and expand the network to developing countries. OD4D support also led to the formation of the School of Data Steering Committee in 2016, which has a significant participation of Southern partners.

Open Data Barometer

OD4D - and its predecessor, the Open Data in Developing Countries project - contributed to the Barometer since its first edition. Together with the Omydiar Network (ON), OD4D is a major contributor to the Open Data Barometer (ODB) in 2016. In addition to providing financial resources, the OD4D network – primarily our regional hubs – are the main contributors to the ODB regional analyses.

Open Data Index

OD4D has supported the improvement of the Open Data Index since 2014, including methodological improvements and alignment with other measurement tools. Our regional nodes helped to expand the reach and crowdsourced data collection which is essential to develop the Index.

Open Data Impact Map

In addition to the direct contribution to the development of the Open Data Impact Map platform, OD4D nodes are key regional supporters of the map, in particular through contributing use cases for the global platform.

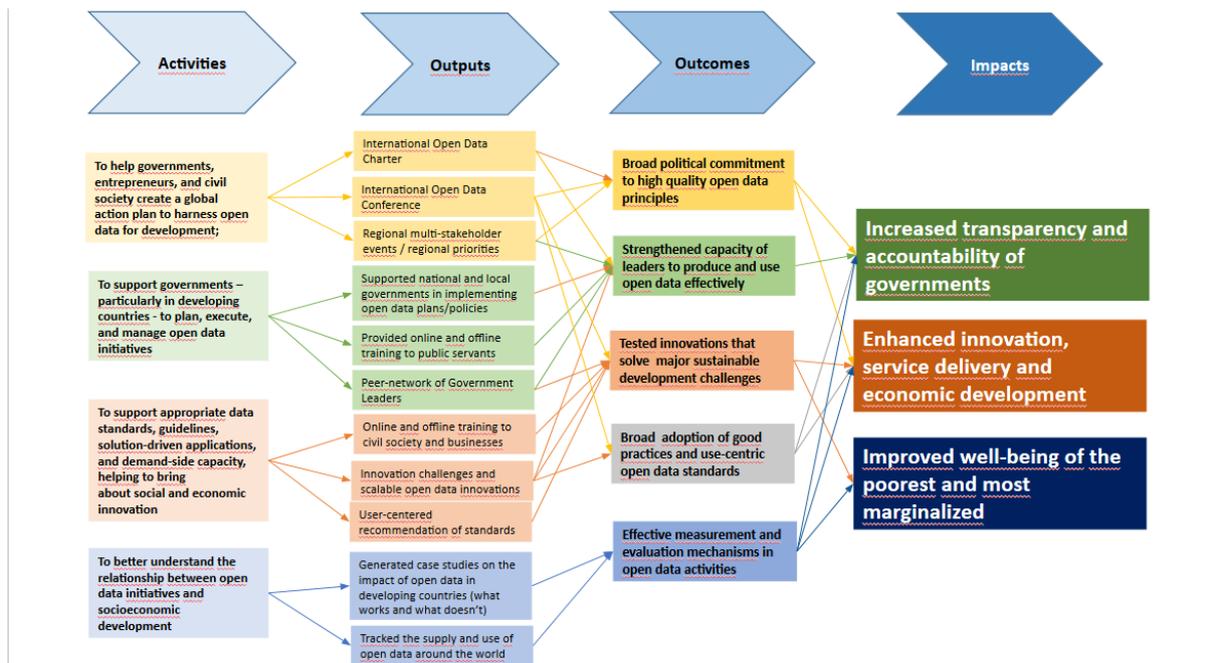
Open Data Charter

OD4D has funded the incubation of the Open Data Charter through the Open Government Partnership (OGP) Open Data Working Group (ODWG), the establishment of a group of lead Stewards at IODC, Ottawa and the consultations leading to its launch. Jointly investing with the Omidyar Network, OD4D has helped establish a secretariat and the OD4D network has contributed significantly to the development of its Resource Center. Members of the OD4D Network have been key stewards of the Open Data Charter, promoting a stronger commitment to open data principles around the world.

Program Management

The OD4D multi-donor program is hosted at the International Development Research Centre (IDRC). As host of the program, IDRC facilitates the overall coordination and grant management activities related to implementing grants, projects and activities. IDRC further facilitates the development, monitoring, management and evaluation of the projects. Each grant has its own set of deliverables as agreed upon in individual proposals.

IDRC’s management works through independent grants to advance in a coordinated Theory of Change (refer to the diagram below).



Annex B: Indicators Reporting Table

Results	Baseline (prior to 2015)	Expected	Achieved	Context
		Dec 2017	Dec 2017	
Consolidated OD4D multi-stakeholder regional initiatives	2	5	5	ILDA, COI, ODECA, Africa Open Data Network (AODN), Open Data in Middle East and North Africa (ODMENA)
Significant OD4D contributions to advance global sectorial efforts (e.g. agriculture, cities)	0	8	8	Agriculture (GODAN), Aid Data (IATI), Cities (Open Cities Summit), Procurement/Anti-corruption (Open Contracting), Elections (ODI), National Statistics (OpenDataWatch), Budgeting (OK)
Governments that receive significant support to improve the quality and implementation of open data plans	0	6	22	Tanzania, Macedonia, Burkina Faso (ODI), Serbia & Kyrgyzstan (ODECA), Liberia, Philippines (OGP ODWG), Peru, El Salvador (ILDA) Colombia, Costa Rica, Sierra Leone, Uruguay, Indonesia Haiti, Jamaica, Guatemala, Indonesia, Algeria, Morocco, Tunisia, Argentina
Public servants and civil society participants who have received online and offline training and peer support	0	500	128	
Supported platforms/apps that significantly scale impact in developing countries (at least 3 countries)	0	8	5 (+ 22 pilots)	Total at significant scale: ILDA: Atuservicio.uy, Data Modeling Oil Contracts, HarvestAPI, Cuidando do meu barrio 2.0, Burkina Faso Election Pilots/in progress: 2015 ILDA: Open Cities LAC OKFN: Municipality Compliance South Africa, The Philippines Disaster Preparedness Data Dashboard, Ghana FactChecker Dashboard, Social Audit & OpenSpending Malaysia 2016 ODI: Edo AgriHub, Crowdsourcing zip codes, open data in schools; petajakarta; vacseen, OKI: AfroLeadership, WEP data collection, Train journalists, PiMaa COI: HarvestAPI/ AgroCheck Mobile application, Data harvest system, virtual tour app ILDA: respiraciudad.org 2017: ILDA: Open Contracting, Femicide Data Standard, RIGA

				ODMENA: Developing Air Quality Heat Map in Cairo: A Citizen Centric Approach, Health SystemEye
Number of countries* tracked on the state of open data supply and use (Open Data Barometer)	50	85	115	ODB15 (*86) Open Data Barometer 2016: 92 countries ODB 2017: 115
Number of governments tracked on the state of open data supply and use (Open Data Index)			94	ODI15 (122 (governments at all levels)) ODI 2016: 122
High-quality evaluations and research on targeted open data initiatives	2	35	37	Includes 12 from Special issue on Open Data for Social Change and Sustainable Development
Financial sustainability - Direct and indirect funds to implement global and regional OD4D strategy (\$ million US)	6	12	16	Total Direct: 10 million + 1.6 million Total Indirect: 5 million