



Global Open Data
for Agriculture & Nutrition

What is GODAN? **Network, Action & Secretariat**

Martin Parr, GODAN Secretariat & CABI

04 October 2017



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Global Open Data
for Agriculture & Nutrition

Making agricultural and nutritional data
available, accessible, and usable

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Global Open Data for Agriculture & Nutrition (GODAN) supports global efforts to
improve the availability, accessibility, and usability of relevant agricultural and
nutritional data for application worldwide. See what is GODAN for more information.

GODAN featured in The African Technopolitan

SDG #2 aims to "end hunger, achieve food security, improve nutrition and promote
sustainable agriculture". The African Technopolitan Magazine, a publication run by the African Centre for
Technological Studies (ACTS) in Nairobi, Kenya. GODAN Aims to
Fill Critical Knowledge Gaps for SDG #2 – The African
Technopolitan, January 2016 Click here to access the PDF of the
African Technopolitan.



GODAN releases approved Inception Report

Following the recent 2016 Donor Steering Committee meeting held
in January 2016, the GODAN Secretariat has produced
the Inception Report for the Strategic Inception Report
which has been approved and released. See the links
below to read all aspects of the report.



Government of Rwanda joins GODAN network

GODAN is proud to announce a new partnership with the Government of
Rwanda's Ministry of Agriculture and Animal Resources. The Ministry's
vision to modernise agriculture and livestock to achieve food security is
complemented by the country's government current preparation of a draft national open data
policy. The focus of the Ministry, according to its website, is "to initiate, [...]



GODAN celebrates new milestone with over 200 partners

GODAN is pleased to announce several recent partnerships that
has increased its partnership network to over 200 members. New
partners include Netherlands-based Public Impact, SabiHub from
Nigeria and Tufts University's – INDEX Project in the US. (more...)



GODAN advocates that important datasets in agriculture and nutrition should be considered global public goods and made be available to everyone



What is Open Data?

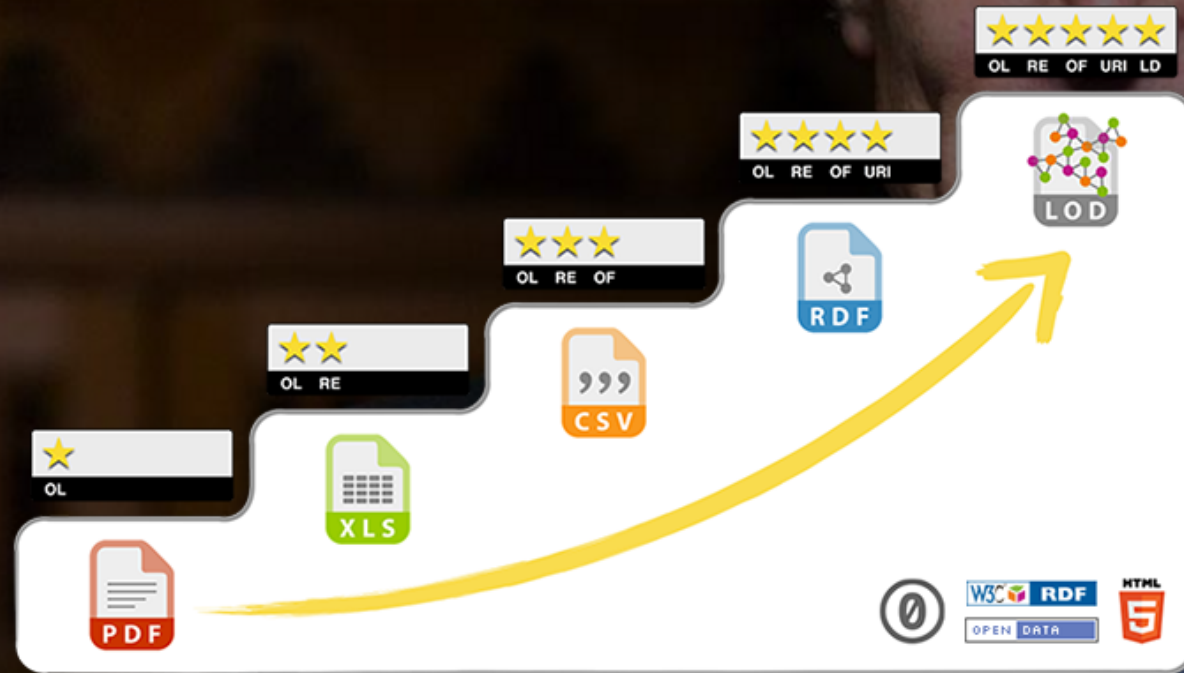
Data anyone can access, use and share

- Accessible (published on the web)
- Available (machine-readable format)
- Licensed to permit anyone to access, use and share it



5 ★ OPEN DATA

Tim Berners-Lee, the inventor of the Web and Linked Data initiator, suggested a 5-star deployment scheme for Open Data. Here, we give examples for each step of the stars and explain costs and benefits that come along with it.



A large, stylized number '8' logo. The top loop is light green with a dark red circle inside. The bottom loop is also light green and is empty. The number is positioned on the left side of the slide.

FAIR Principles

- Data should be **Findable**
- Data should be **Accessible**
- Data should be **Interoperable**
- Data should be **Re-usable**

Much data should be open (openly licenced).

All data should be FAIR (or moving to be FAIR) - clear licence, metadata, persistent, provenance, machine readable <http://www.nature.com/articles/sdata201618>



What is GODAN?

Supports global efforts to make data relevant to agriculture and nutrition **available, accessible, and usable for unrestricted use worldwide**

Voluntary association of public and private entities including donors, international organizations and businesses who have agreed to a joint Statement of Purpose



Our network



608 partners



Donors in the GODAN steering committee



- Germany a new addition to SC (to provide Secretariat post)
- China (CAAS) also to agree to provide position and will join SC in 2018
- DFID supports GODAN Action & GODAN Secretariat



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ACTION

Global Open Data
for Agriculture & Nutrition







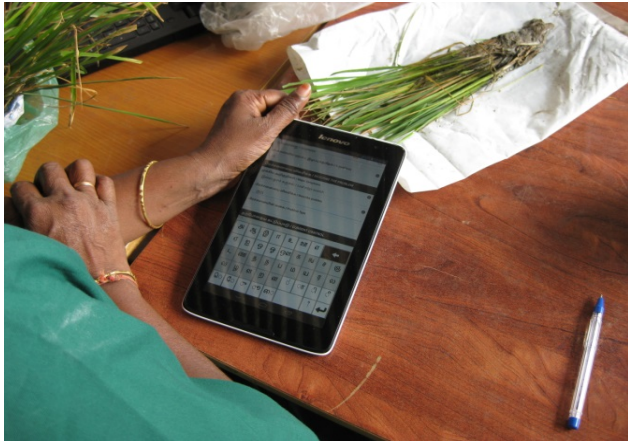
GODAN Action Mission

*Stakeholders benefit from improved and more effective use of open data for agriculture and nutrition by **engaging with it in a practical and knowledgeable manner***



What open data can achieve

- Organizational change through transparency
- Fostering innovation to benefit everyone
- More efficient and effective decision making

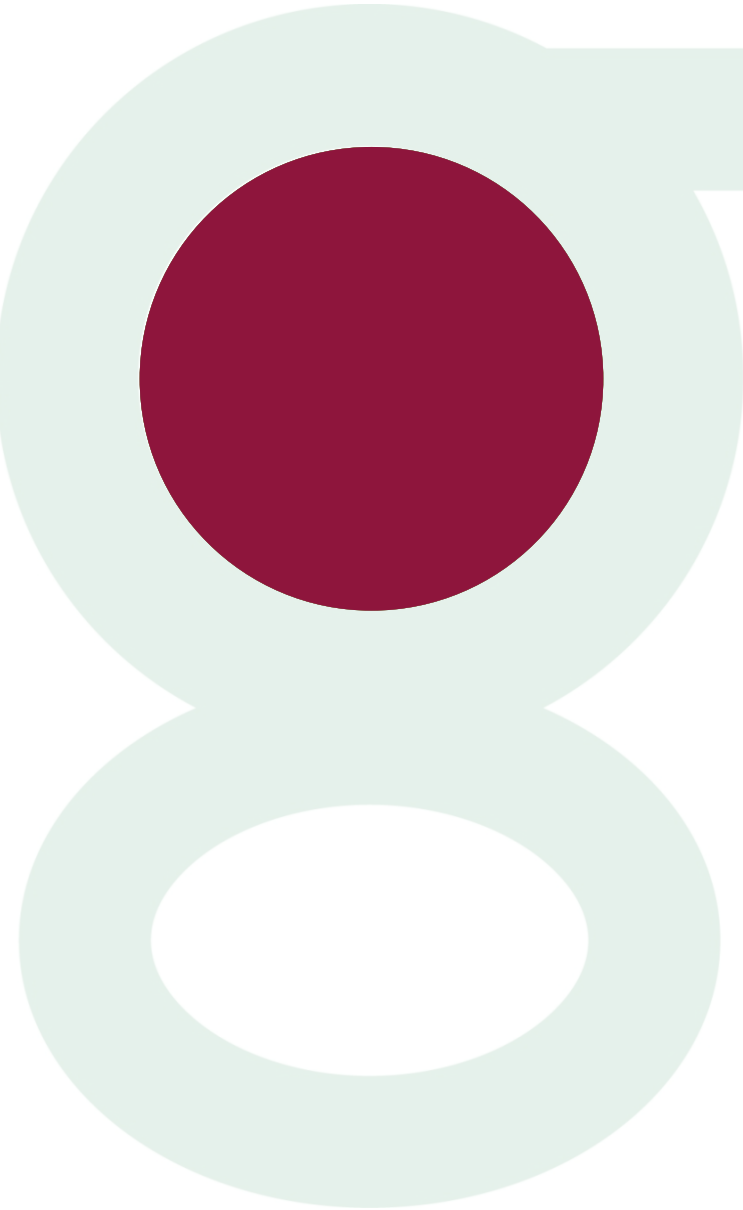


A large, stylized number '8' logo. The top loop is light green with a dark red circle inside. The bottom loop is also light green and open at the bottom. The text 'Why open data in agriculture and nutrition?' is written in a green, sans-serif font to the right of the logo.

Why open data in agriculture and nutrition?

- For climate smart agriculture
- For efficient pest management
- For efficient fertilizer use
- For avoiding price crises
- For informing consumers on food contamination
-The list could be cont'd





GODAN Action exists to:
facilitate use of standards by,
research the impacts for,
and **build the capacity of**
the network of actors

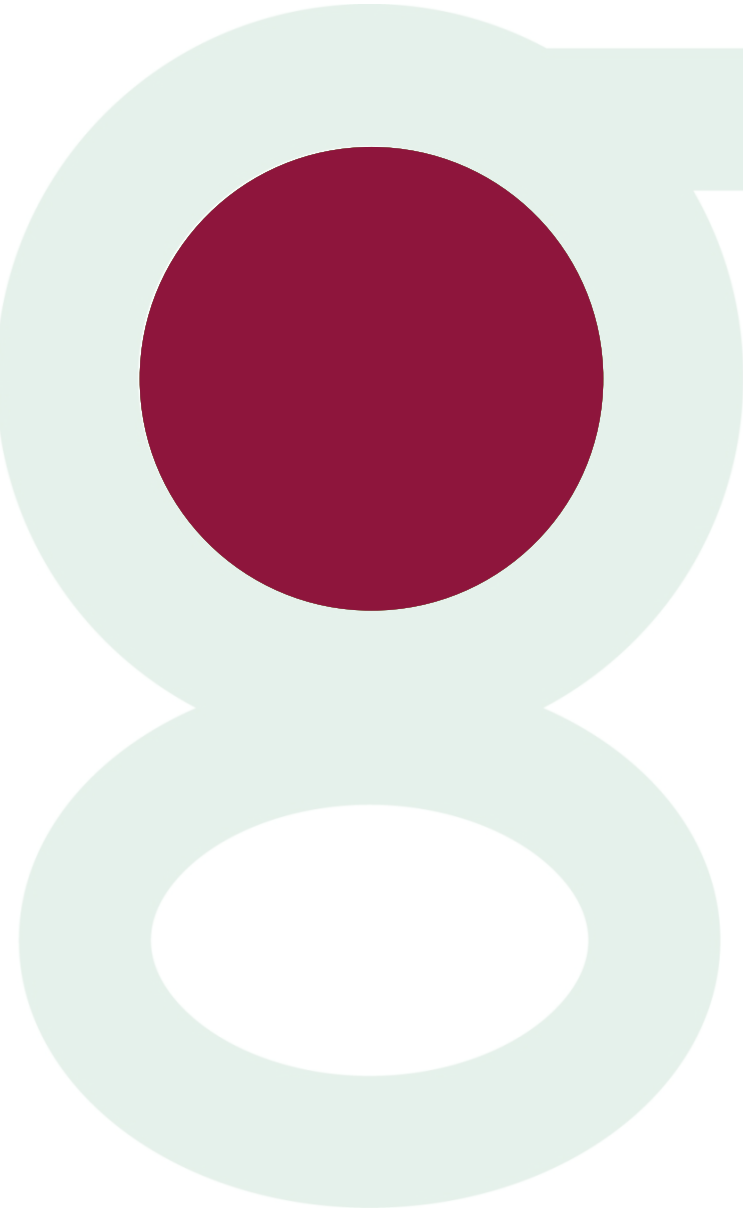




Activities

- **Improved interoperability of data** through providing improved **standards** and innovative services.
- by providing examples of **improved tools for impact assessment**, as well as by analysing barriers that hinder the full potential of open data initiatives and investments
- The development of tailored training courses will **increase the capacity of stakeholders** on how to use and handle open data





Starting with the problem

Open data as a solution

- **Climate and weather data:** open data as a catalyst for business development and capacity development
- **Support to land data sharing:** Localization and contextualized of relevant shared data sets to specific conditions
- **Global Nutrition report:** Data interoperability for searching in support of the report



GODAN Secretariat's Purpose

Convene – Equip – Empower







“Data is valuable in the entire food chain. It provides farmers with access to innovations in crop production, but also business models. **Data pierces entire food value chain, from soil to shop**”

- Sanjeev Krishnan (Seed 2 Growth)



“There is an asymmetry of capacity to analyse and gain financial benefit from open data. **If we are truly using data to improve food security, we have to ensure that the capacity is built in the developing world to make sure the data can be used in an equitable basis.**”

- Trevor Nicholls (CABI)



“**Open data should become part of the DNA of the African environment.**”

The Kenyan government is committed to championing the data revolution in Africa.”

- Willy Bett (Kenyan Ministry of Agriculture, Forestry and Fisheries)

#GODANsummit2016



“We have to move outside of the silos.

Collaboration is not a luxury, but a necessity. **Our company’s future success depends on our ability to use open data.**”

- Sarah Hull (Syngenta)

#GODANsummit2016



OPEN WATER





Challenges

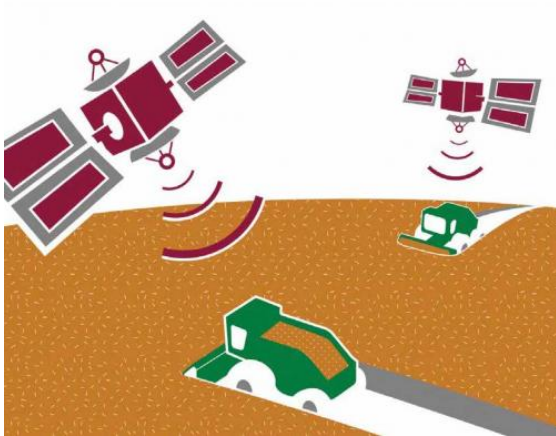
- “Open data is good only for the big players”
- “Open data will create more data monopolies and divides”
- “This research data is only meaningful in specific context [and only I understand that...]”
- “Somebody has to pay!”



Impact Matters for Development

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Responsible Data in Agriculture



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*Ownership of Open Data:
Governance Options for Agriculture and Nutrition*



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*A Global Data Ecosystem
for Agriculture and Food*



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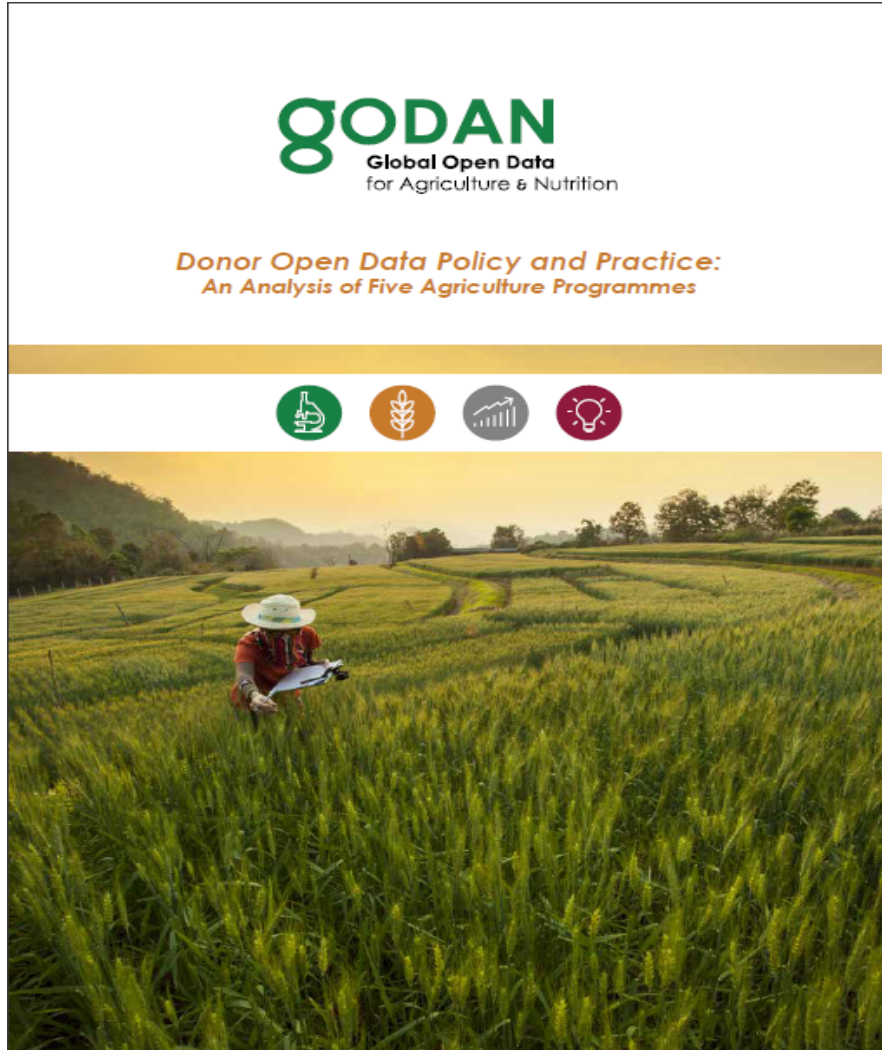
Success Stories Issue 1



<https://f1000research.com/gateways/godan/godan-reports>



Joint Donor Statement on Open Data Policy and Practice



Department
for International
Development



USAID
FROM THE AMERICAN PEOPLE

BILL & MELINDA
GATES foundation

Donors agree to:

- Participate in global funder dialogue
- Promote good open data practice among those receiving funding
- Efficiently and consistently engage with partners
- Promote appropriate guidelines and tools
- Document and track use of open data
- Responsibly use data



Global open data call to deliver world food security

By Mark Kinver
 Environment reporter, BBC News
 14 September 2016 | Science & Environment



Can data end hunger? US and world governments hope so

By James... Published September 16, 2016
 THE HUFFINGTON POST
 INFORM • INSPIRE • ENTERTAIN • EMPOWER
 ENTERTAINMENT WELLNESS WHAT'S WORKING VOICES VIDEO ALL SECTIONS
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THE BLOG
Using the Data Revolution to Solve the Major Crisis
 09/15/2016 11:50 am ET | Updated Sep 16, 2016
 Stephan B. Tanda
 The numbers are clear: today, just over 800 million people will go to bed hungry, while two billion are suffering from hidden hunger (receiving enough calories to survive, but not enough micronutrients to thrive). At the same time, nearly 40% of the global population is over-nourished, leading to overweight, obesity and a variety of non-communicable diseases, such as type-2 diabetes.

Hidden data: the new weapon that could beat hunger

By REUTERS
 PUBLISHED: 11:39, 13 September 2016 | UPDATED: 11:39, 13 September 2016
 Share

By Laurie Goering
 LONDON, Sept 13 (Thomson Reuters Foundation) - With a single smartphone app, you can now get a pretty accurate forecast of the weather anywhere in the world. That's largely thanks to a decision by science agencies, a decade ago, to put online their satellite data and make it available for free.
 "For hundreds of years, NOAA (the U.S. National Oceanic and Atmospheric Administration) has been collecting that data. But when it was made open and available, that's when the apps started appearing," said Jaime Adams, an international affairs adviser for the U.S. Department of Agriculture.
 Now science, computer and agricultural experts hope to achieve something similar for farming and food data.
 "We believe the solution to end world hunger lies in the unavailable data," said Adams.
 Work is underway to find and use that information.

Global Open Data for Agriculture and Nutrition (GODAN), a consortium of 340 organisations from 100 countries, will meet in New York City on 14-15 September to discuss how to use the data to end world hunger. At the summit, GODAN will announce a new initiative to help smallholder farmers in developing countries to feed more of the world's population.

2 **#GODANSummit2016**
 @SoilFeeding250, @ricemansam and 37 more are Tweeting about this

3 **Jay Z**
 13.2K Tweets

Nic Colgrove @CloudedNic · Sep 15
 Really enjoying the @drawnalism illustrations during the #GODANSummit2016. A great visual summary of conversations.



Statement by Ministers Responsible for Agriculture attending the GODAN Ministerial Conference Held at the Kenyatta International Convention Centre, Nairobi, Kenya on 15th June, 2017

Building resilience on Food Security and Nutrition through Open Data.

We, the Ministers for Agriculture and high level representatives of Governments, having met in Nairobi, Kenya, from 14 to 16 June 2017, with the full participation of private sector, academia and civil society, renew our commitment to the Sustainable Development Goals (SDGs) in pursuit of Ending hunger, achieving food security and improved nutrition, and promoting sustainable agriculture:

1. *Noting with appreciation, the request at the Global Open Data for Agriculture and Nutrition (GODAN) Summit in September 2016, to Kenya, to host a Ministerial Conference on Agriculture and Nutrition Data;*

2. *Expresses its profound gratitude to the Government and the people of Kenya for hosting the Ministerial Conference on Agriculture and Nutrition Data in Nairobi, Kenya, under the theme: Harnessing the Demographic Dividend through investment in Agriculture and Nutrition Data and for providing all the necessary support;*

3. *Recalling the report of the Secretary-General's High-Level Panel of Eminent Persons on the Post-2015 Development Agenda calling for a data revolution for sustainable development, with a new international initiative to improve the quality of statistics and make information available to citizens;*
4. *Recognizing that poverty eradication, changing unsustainable and promoting sustainable patterns of consumption and production and protecting and managing the natural resource base of economic and social development are the overarching objectives of and essential requirements for sustainable development;*
5. *Taking note of the Comprehensive Africa Agriculture Development Programme (CAADP) that has inspired and energized African Governments, African agricultural research institutions, farmers' associations and the private sector to increase investment, improve coordination and share knowledge on Agricultural Transformation;*
6. *Taking note of the Global Open Data for Agriculture & Nutrition (GODAN) as a network that supports public and private global efforts to make agriculture and nutrition data more available and easier to access by all;*
7. *Further recognizing the commitments voluntarily made by the Global Open Data for Agriculture and Nutrition Network at the GODAN Summit and throughout 2016 to implement concrete policies, plans, programmes, projects and actions to make agricultural related data more accurate, available and accessible for all.*
8. *Bearing in mind that open data policies in both public and private sectors should respect and work to balance openness with legitimate concerns in relation to privacy, security, community rights and commercial interests.*
9. *Acknowledging that open data can be a driver for agricultural transformation by making data available and accessible to smallholder farmers, giving the insights and services they need to improve productivity and build resilience;*
10. *Convinced that women and youth are majority of developing world's population and therefore require motivation and support for agri-business enterprises through resource mobilization, data, research and innovation;*
11. *Aware that women and youth are at the center of sustainable development and, in this regard, strive for an equitable and inclusive agriculture.*
12. *Fully Convinced that making data and statistics on agriculture and nutrition available, accessible and useful to smallholder farmers and intermediaries is essential to development of inclusive value chains, building resilience in farming communities and strengthening food and nutrition security;*
13. *Recognizing that data and innovation creates opportunities for people to influence their lives and future, participate in decision-making and amplify their concerns more than before.*
14. *Emphasizing that sustainable agriculture can only be achieved with a broad alliance of people, governments, civil society and the private sector, working together to secure a world that is food secure, without hunger and malnutrition.*
15. *Reaffirming the need to be guided by the purposes and principles of the Charter of the United Nations and the Fundamental Principles of Official Statistics.*
16. *Reaffirming our commitment to strengthen international cooperation to address the persistent challenges related to sustainable Agriculture, in developing countries.*





Empowering partners to make the move. Looking at making FAOSTAT open data



