



Global Open Data
for Agriculture & Nutrition

Presentation to the G20 Agricultural Chief Scientists

Johannes Keizer, GODAN Secretariat, FAO of the UN

Xi'an, 2016-05-30



<http://www.godan.info>

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

GODAN

Global Open Data
for Agriculture & Nutrition

Making agricultural and nutritional data
available, accessible, and usable

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Global Open Data for Agriculture and Nutrition (GODAN) works to support global efforts to make agricultural and nutritional data available, accessible, and usable for application worldwide. See [what is GODAN](#) for more information.

GODAN featured in The African Technopolitan

GODAN has been featured in the latest issue of 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 full PDF of the The African Technopolitan [...]



GODAN releases a 'Global Inception Report'

Following the recent 2016 Donor Steering Committee meeting held in Addis Ababa in June 2016, the GODAN Secretariat has released its first 'Global Inception Report'. The report outlines the Secretariat's initial findings and recommendations for the global open data initiative. The report has been approved and is now released. Please click on the links below to read all aspects of the report. (more...)



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 complimented 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 releases new files 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...)





What is GODAN?

An initiative that 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

Rapidly growing initiative, currently with over **270 partners** from non-governmental, international and private sector organizations and national governments





What is GODAN doing

- Advocacy
- Think Tank
- Knowledge Network



**More than 270
partners**



8 Donors in the GODAN steering group





Why Open Data?

- A world where knowledge creates power for the many, not the few
- A world where data frees us — to make informed choices about how we live, what we buy and who gets our vote
- A world where information and insights are accessible — and apparent — to everyone
- This is the world we choose

(Open Knowledge International <https://okfn.org/>)

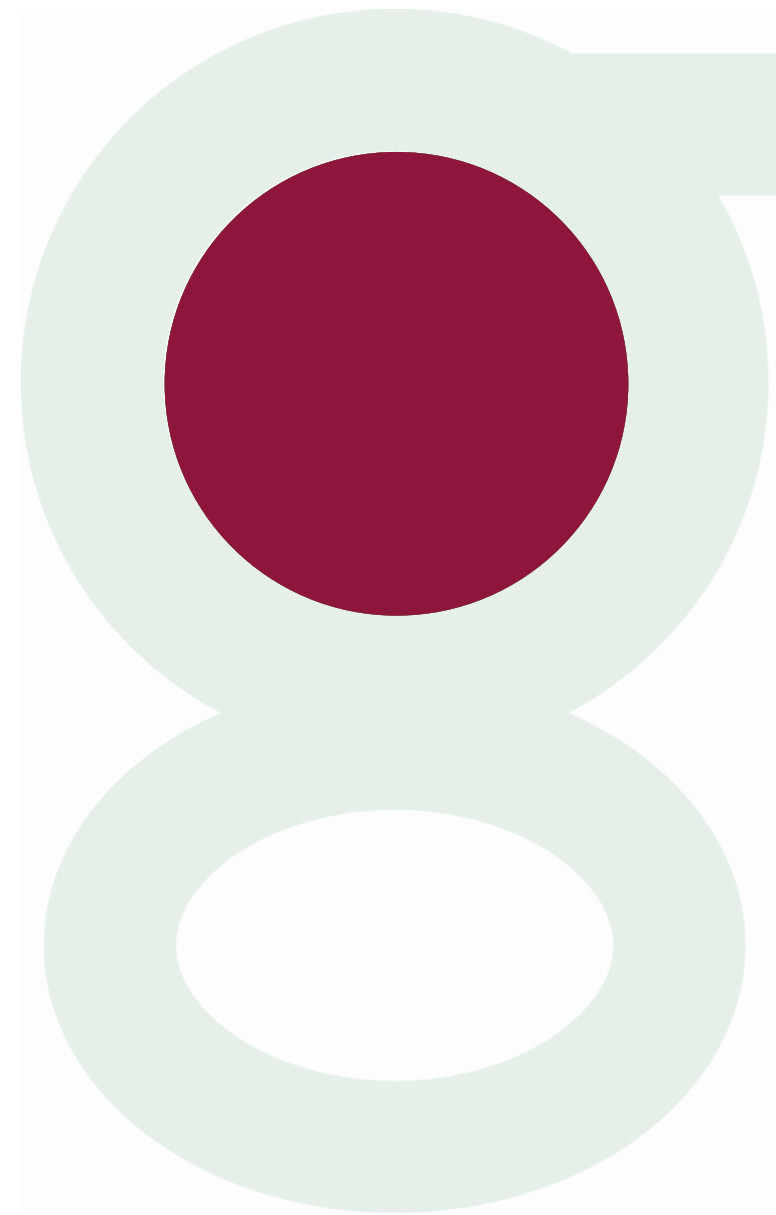




Why open data in agriculture and nutrition?

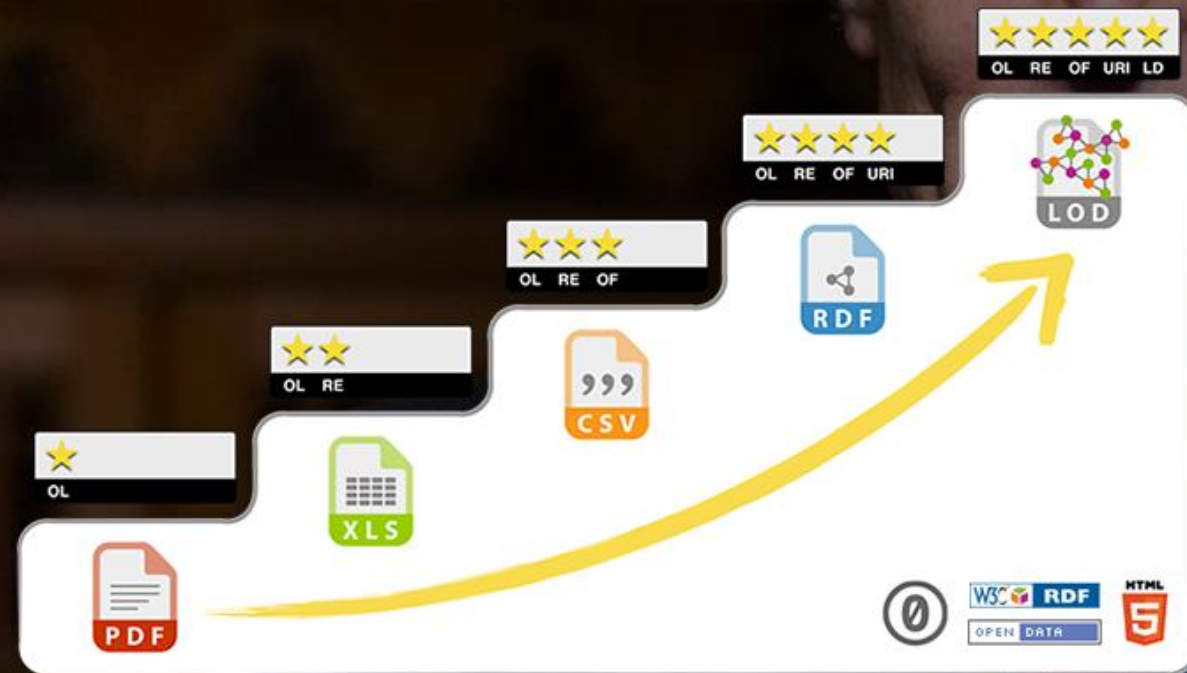
- For climate smart agriculture
- For efficient pest management
- For efficient fertilizer use
- For avoiding prices crises
- For informing consumers on food contamination
- For increasing knowledge on nutrition
-The list could be cont'd





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.





Bottom Line on Open Data

- Be accessible and curated
- Be available in a machine-readable format
- Have a licence that permits to access, use and share it





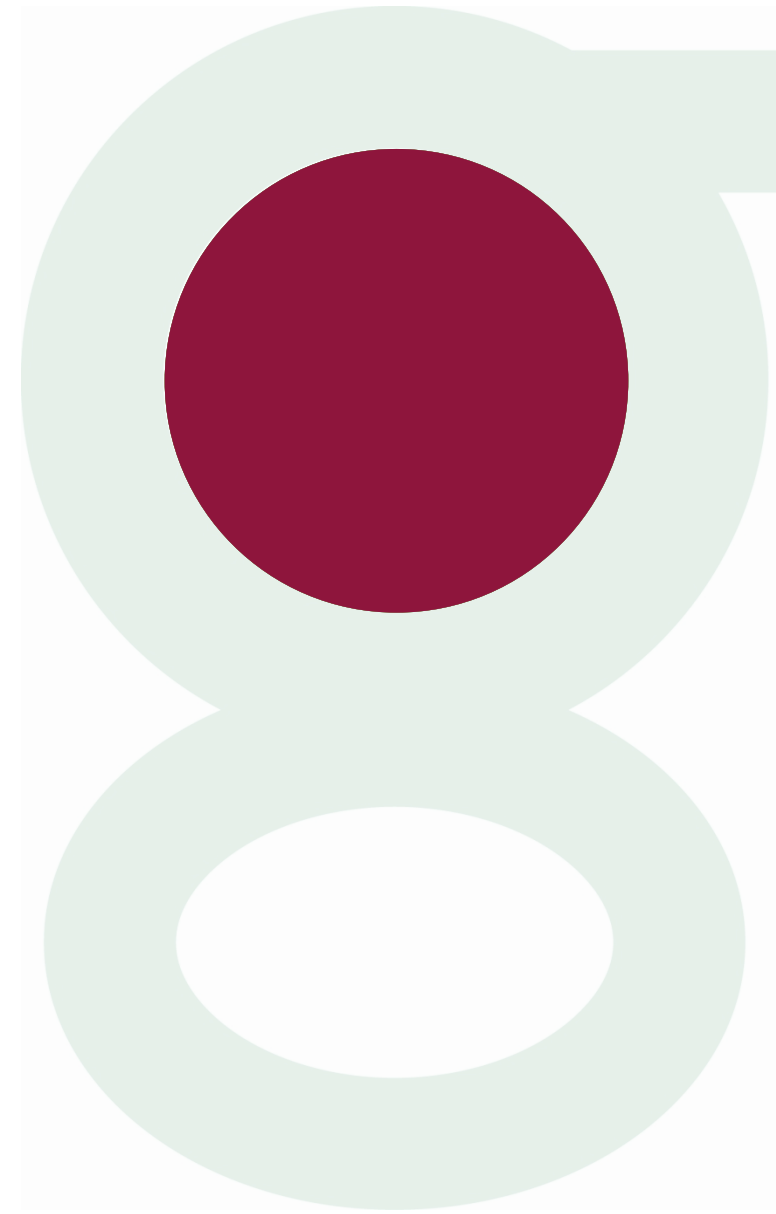
Challenges

- “Open data are good only for the big players”
- “Open data will create more data monopolies”
- “Research data are only in a specific context meaningful”



GODAN addresses the Issues

- Working group on data rights and responsibilities
- Working group on data infrastructure
- Working group on better technical, semantic and legal interoperability



Specific issues:

OPEN DATA IN SCIENCE

***If networked science is to reach its potential,
scientists will have to embrace and reward the open
sharing of all forms of scientific knowledge, not just
traditional journal publication.***

Networked science must be open science.'

Michael Nielsen (OKI)





The Data Deluge

“In the last five years, more scientific data has been generated than in the entire history of mankind. You can imagine what’s going to happen in the next five.”

**Winston Hide, associate professor of bioinformatics
Harvard School of Public Health.**

The promise of big data. HSPH News, Spring/Summer 2012



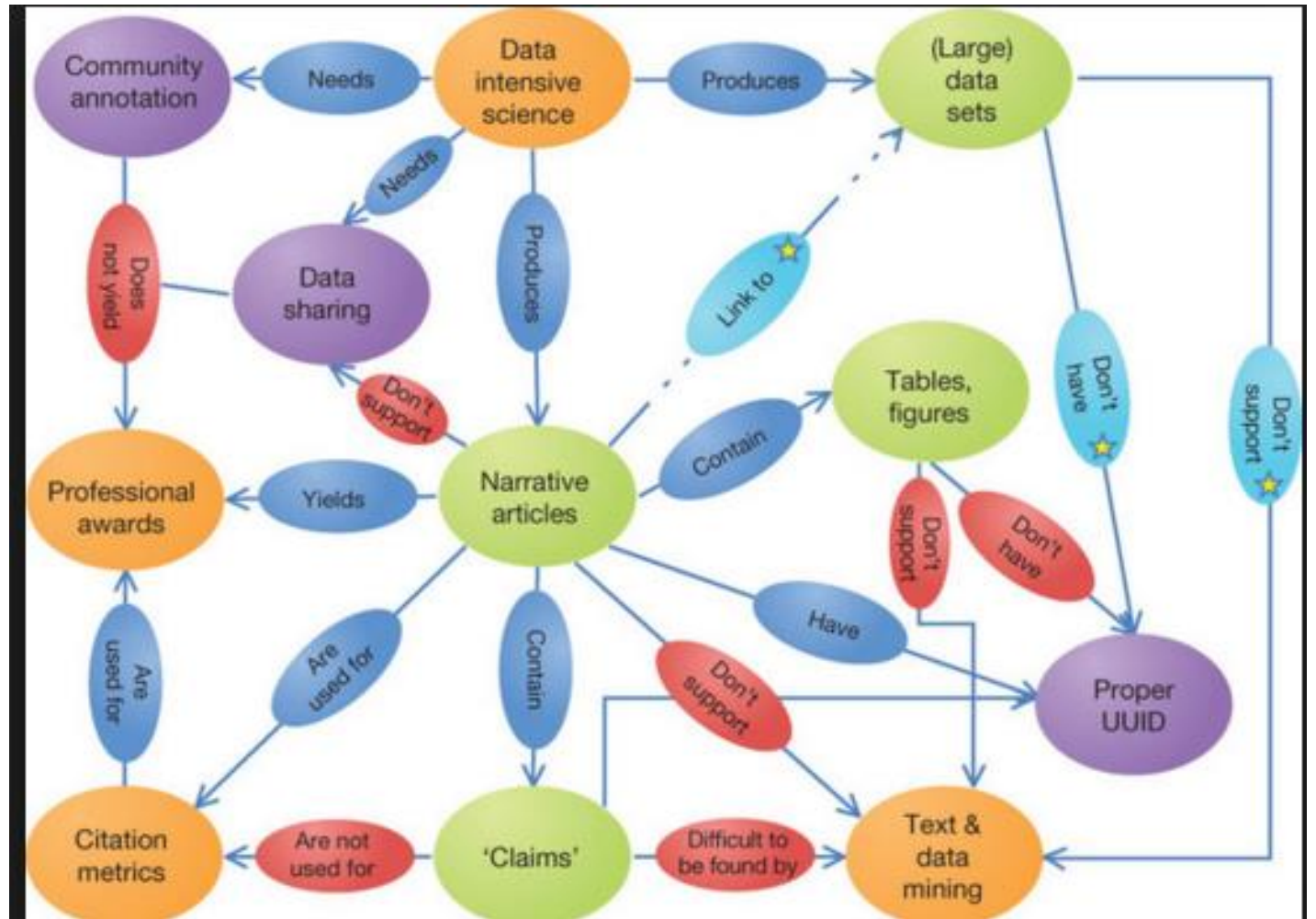


Specific Issues with Research Data

- Data gets lost
- Incentives, Responsibilities, Rights
- What aggregation level be public?
- Data is not equipped with metadata
- Data is not published in a machine-readable format
- Data comes always more from the field



Data Issues



<http://www.nature.com/ng/journal/v43/n4/full/ng0411-281.html>



Evidence for open data benefits



<https://www.mfarm.co.ke/>

<http://www.amis-outlook.org/>



<http://vam.wfp.org/>

<https://www.votomobile.org>



<https://esoko.com/about-us/our-story/>



<https://rfcx.org/>

<http://foodtrade.com/>



<http://agris.fao.org/>



<http://www.icow.co.ke/>



<http://agrinfo.co.tz/>



G20 and GODAN

India



Canada



Germany



Mexico



France



Italy



China

Australia

Argentina



UK



USA



Japan



Language that we would appreciate in the Communiqués

AgMin, para 11

... Such efforts could help narrow the gap between countries and improve the overall level of development of agricultural science and technology of the world. We take note of the importance of the Meeting of G20 Agricultural Chief Scientists (MACS) in supporting the G20 agenda of agriculture and food security. As such, we support the MACS [recognition of agricultural and nutrition data as a global public good, critical to addressing food security challenges and the importance of the Global Open Data for Agriculture and Nutrition \(GODAN\) initiative, which advocates making agricultural and nutritional data available, accessible and useable by stakeholders globally.](#)

MACS, para 10 (

... We encourage G20 members to participate in and recognize the importance of [open data networks, such as the AMIS, the Coherence in Information for Agricultural Research for Development \(CIARD\) and the Global Open Data for Agriculture and Nutrition \(GODAN\), and as such recognize agricultural and nutrition data as a global public good](#), critical to addressing food security challenges, to promote the sharing and application of data and information of global agricultural research and to encourage uptake of research results by the public and private sector



GODAN Summit

- New York, September 2016
- Participate in the GODAN Summit Challenge:
<http://www.godan.info/godan-summit-2016>



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www.godan.info