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 (OKF)
The Data Revolution: Path to global food security
André Laperrière, Executive Director
Kenya, ICT4D Conference 2016
What is open data?

Data that anyone can access, use and share:

- Readily available
- Useful/meaningful
- Interoperable
Why GODAN?

- **Demographics:** Tripling of the world population

- **Climate change:** Warmest years so far, natural catastrophes, agricultural zones changing

➢ **Technology costs** down, data availability unprecedented
Key: Integration-interoperability
270+ partners and growing...
Partner map
Obstacle 1: Make data available (right):
Response: Open Data Portals
Obstacle 2: Funding
Policies response (Dutch example)

- 2010: Digital Agenda for Europe
- 2013: Revision of Directive

- 2011: Digital Agenda NL
- 2012: member of Open Government Platform
- 2013: Open geodata breakthrough project
- 2015: Wet hergebruik van overheidsinformatie
- Under construction: NODA
3- Obstacle: Horizontal nomenclature integration
Response: Global Agricultural Concept Scheme (GACS)
Obstacle 4: Information gaps AND information overload
Response 4:
Vertical Data integration
Climate FieldView™ provides seamless data integration for a deeper understanding of your fields to help you make important operating decisions with confidence. Identify problems and take quick action to solve them with field data digitally displayed in real-time as you pass through the fields.

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<tr>
<th>Available in 2016</th>
<th>prime</th>
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<td>Field-Level Weather</td>
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(6) High tech data integration + modeling:

Climate FieldView Plus™

- Data connectivity — Field data, digitally displayed in real-time as they pass through the field, helps farmers identify problems and take quick action to solve them.
- Field Data Visualization — Easy-to-use digital maps help farmers compare critical farm data layers to understand yield-limiting factors.

Climate FieldView Drive™
Available in limited quantities for 2016 as an enabling hardware for Climate FieldView Plus™.

To order your Climate FieldView Drive, log in to your Climate FieldView account and select orders under the settings menu, or contact your dealer today!

- Automatically captures equipment data by easily connecting to the tractor’s CAN Diagnostic port and using Bluetooth to wirelessly map data onto your iPad® and Climate FieldView Plus™ software.
(7) Response: Simpler tech, limited modeling:
Response 8: **Low tech inputs & open data**
9: Keep it simple – and useful: ESOKO
From (open) data to impacts

Societal stakeholders (farmers, food-industry, policy-makers)

User Domain

Wisdom

Knowledge
info + application

Information
data + added meaning

(Open) Data
raw material

Interests (economic, social, environmental), values, preferences, trade-offs, risks, intangibles, ethics, ...

Options, Scenario’s, Impact Assessments, Decision Support Systems, Integrated models, ...

Data analysis and integration, Models, Artificial Intelligence, Linked Open Data, Semantic web technologies, ...

Databases, Satellites, Sensor networks, Social media, Citizen observations, ...

Source: Jacques Jansen, Wageningen UR
GODAN Summit

• New York, September 2016
• Submit your ideas to the GODAN Summit Challenge: http://www.godan.info/godan-summit-2016