Open Data for Agriculture: new opportunities for farmers

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Food security: today's priority

50 000 people die from **malnutrition** everyday.

- Need: 70% > food than available today

- **From** national security & commercial competition

- **To** world security & international collaboration
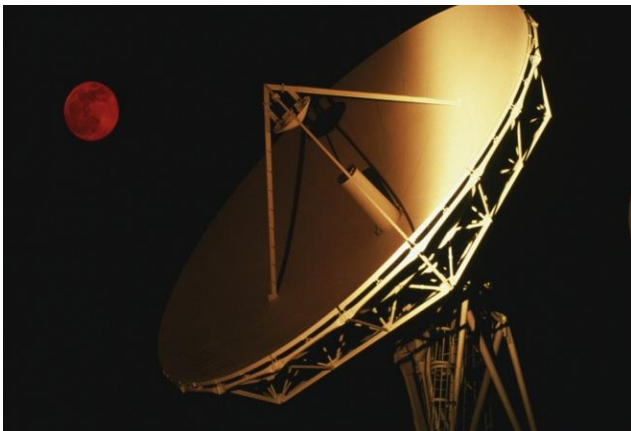
Effective action requires data

- **Farming** = 37% methane emissions
- **Increase productivity**
  - Water
  - Fertilizers
  - Improved inputs
  - Disease resistant crops

- **Maximize ODA impact** / avoid duplication

What is open data?

Data that anyone can **access**, **use** and **share**:

- Readily available to everyone

- Reliable

- Useful

- Has best practices, success stories

An open data example: satellite imagery

- Very broad coverage
- Cost effective

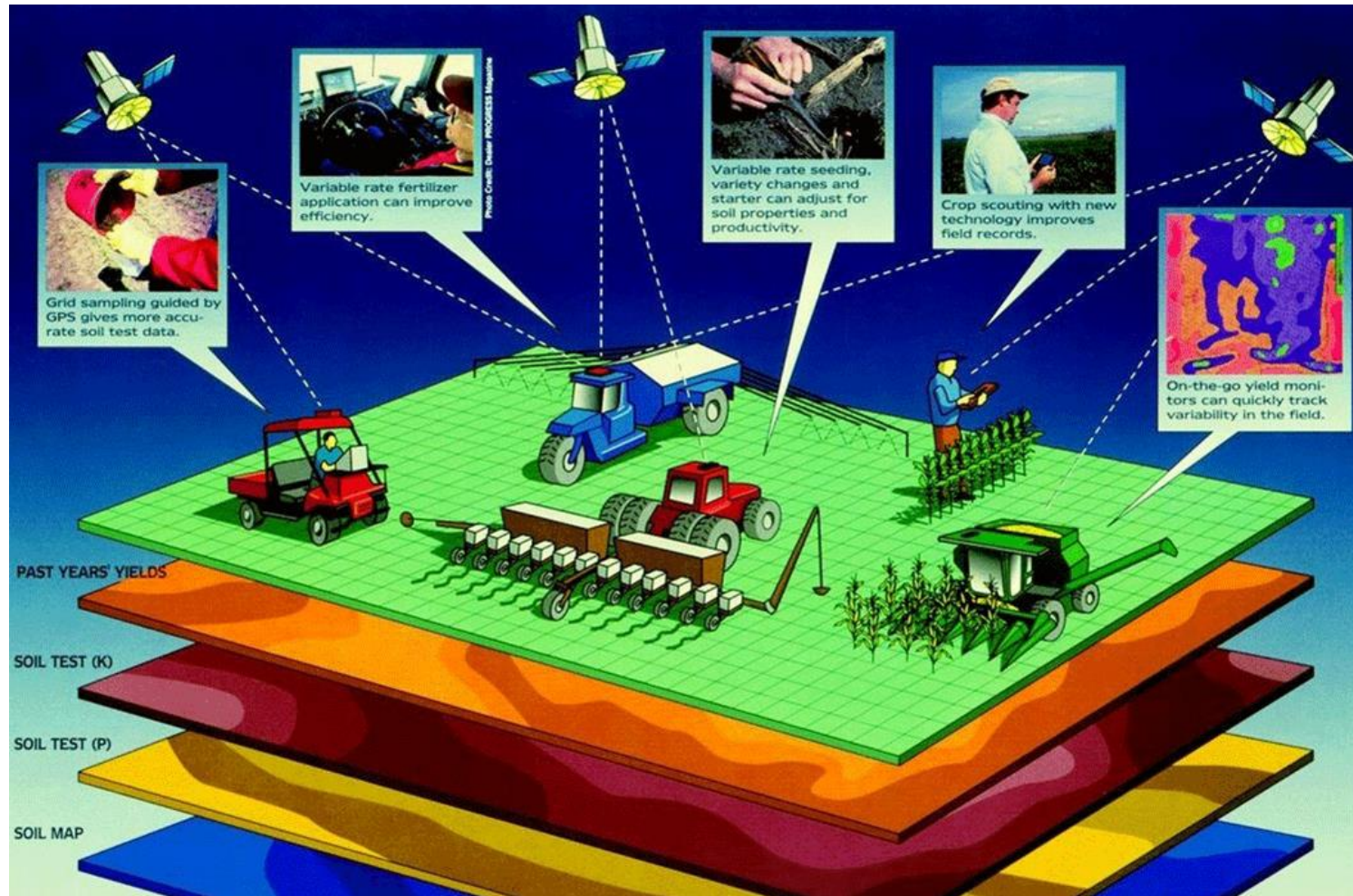# Responding to food security challenges ahead

- **Mitigation**:
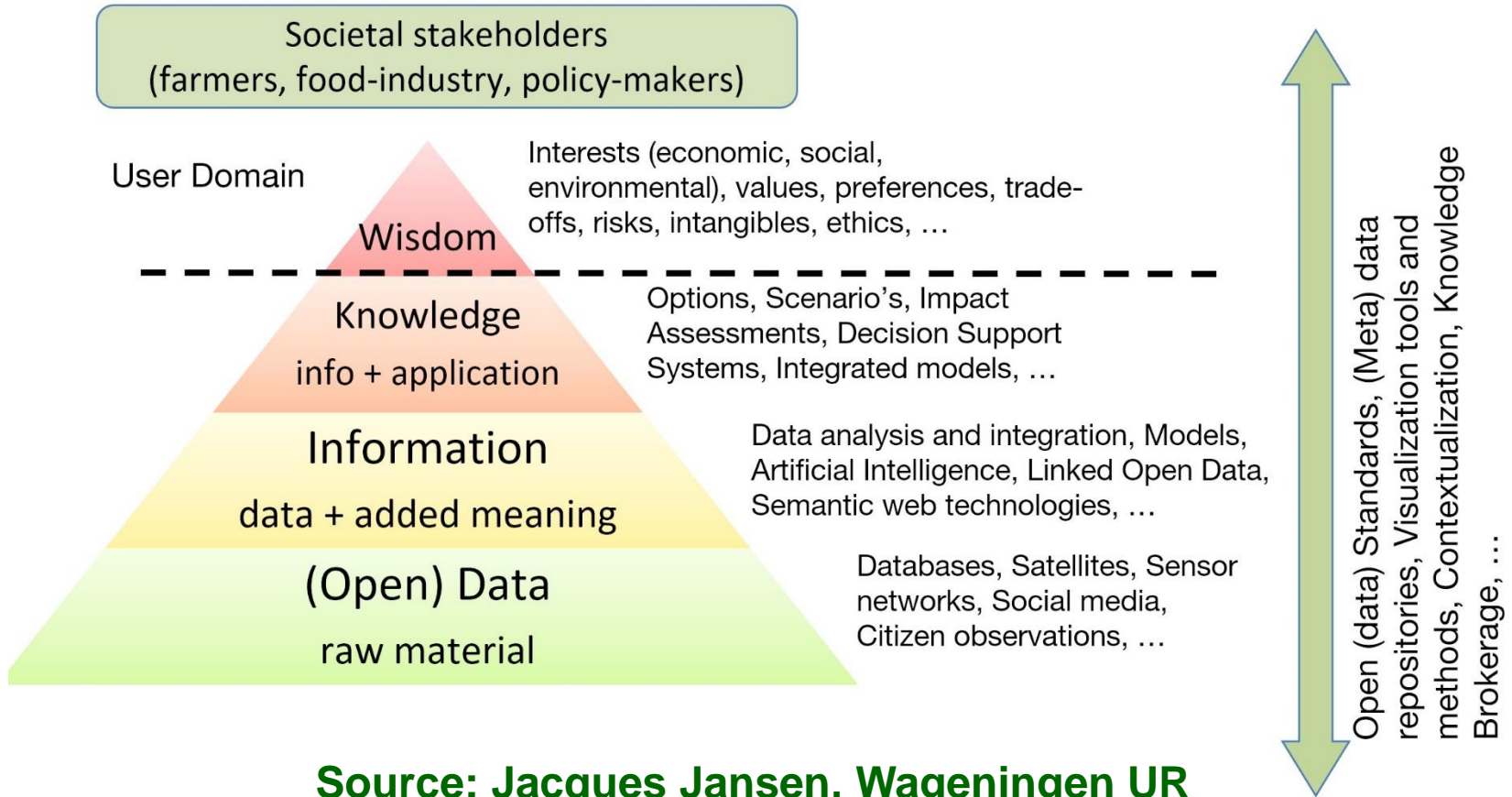
  Preventing / forecasting climatic catastrophes

- **Adaptation:**

  Adapting to climate change, improving productivity

Adaptation and productivity

From (open) data to impacts

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

User Domain

Wisdom

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

Knowledge
info + application

Options, Scenario's, Impact Assessments, Decision Support Systems, Integrated models, …

Information
data + added meaning

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

(Open) Data
raw material

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

Open (data) Standards, (Meta) data repositories, Visualization tools and methods, Contextualization, Knowledge Brokerage, …

Source: Jacques Jansen, Wageningen UR

GODAN
Global Open Data for Agriculture and Nutrition

GODAN has a rapidly growing membership base.

http://www.godan.info/partners/current-partners/

Partner map

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How can you help?

- Make data available

- Be an open data champion

- Host high level open data meetings

Please contact us to learn how to join our expanding network

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