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**Jeudi 17 Mars 2022**  
Salle de conférences Chambre  
National d'Agriculture (CNA)  
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# **Digital agriculture for Small Scale producers in developing countries**

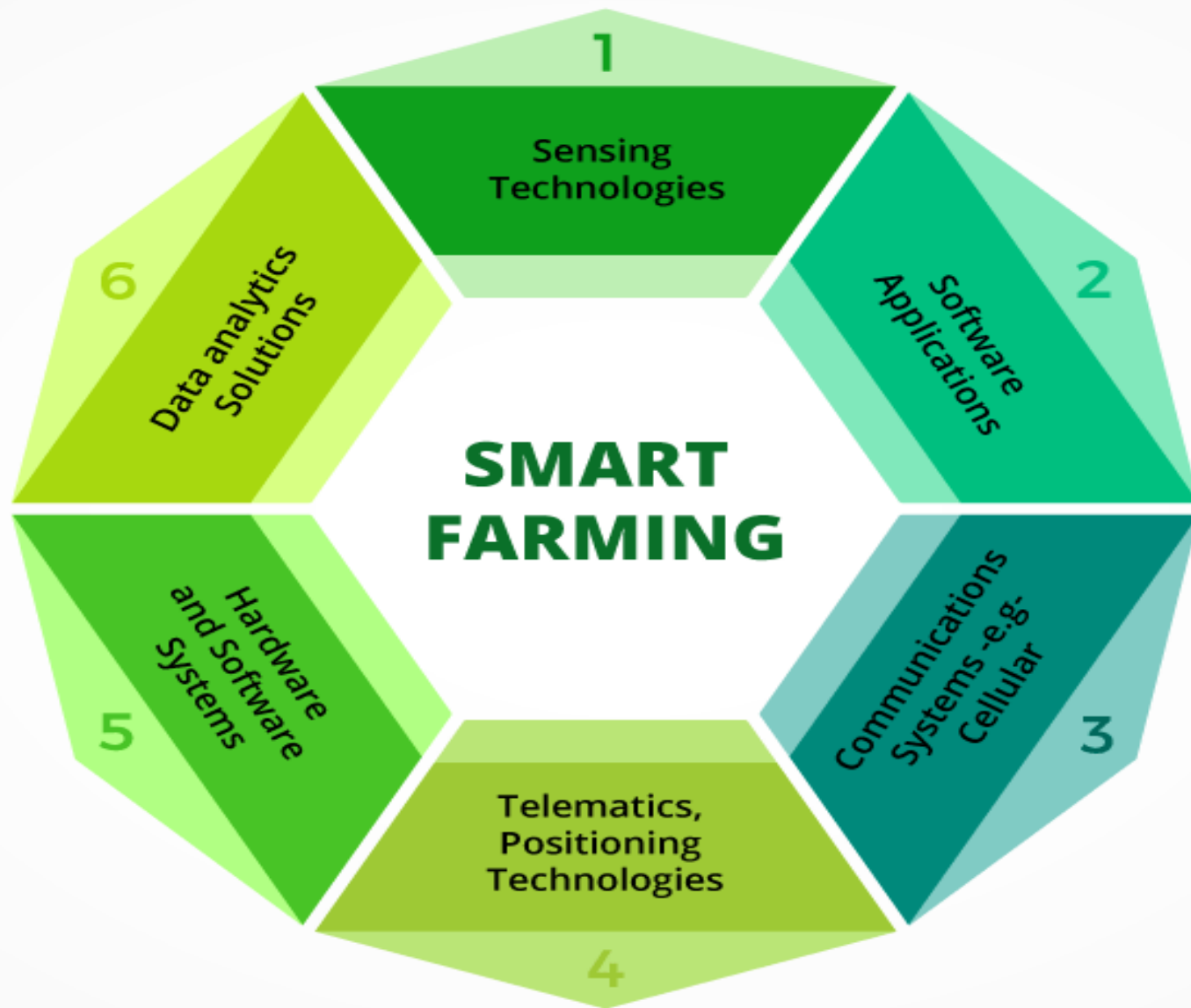
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**Fondation Filaha GRFI Member**

**17/03/2022**



# Digital agriculture for Small Scale Producers In developing countries

- In 2050 the world population will reach about 10 Billion people
- Global food production needs to increase by 70%
- LMICs\* are expected to have the highest population increase
- The agriculture sector is one of the primary employers in LMICs, employing more than 80% of the rural population in some countries.
- The majority of the world's farmers are smallholders, with 72% of the world's 570 million farms operating on less than 1 hectare
- smallholder farmers provide livelihoods for more than two billion people and produce about 80% of the food in sub-Saharan Africa and Asia.

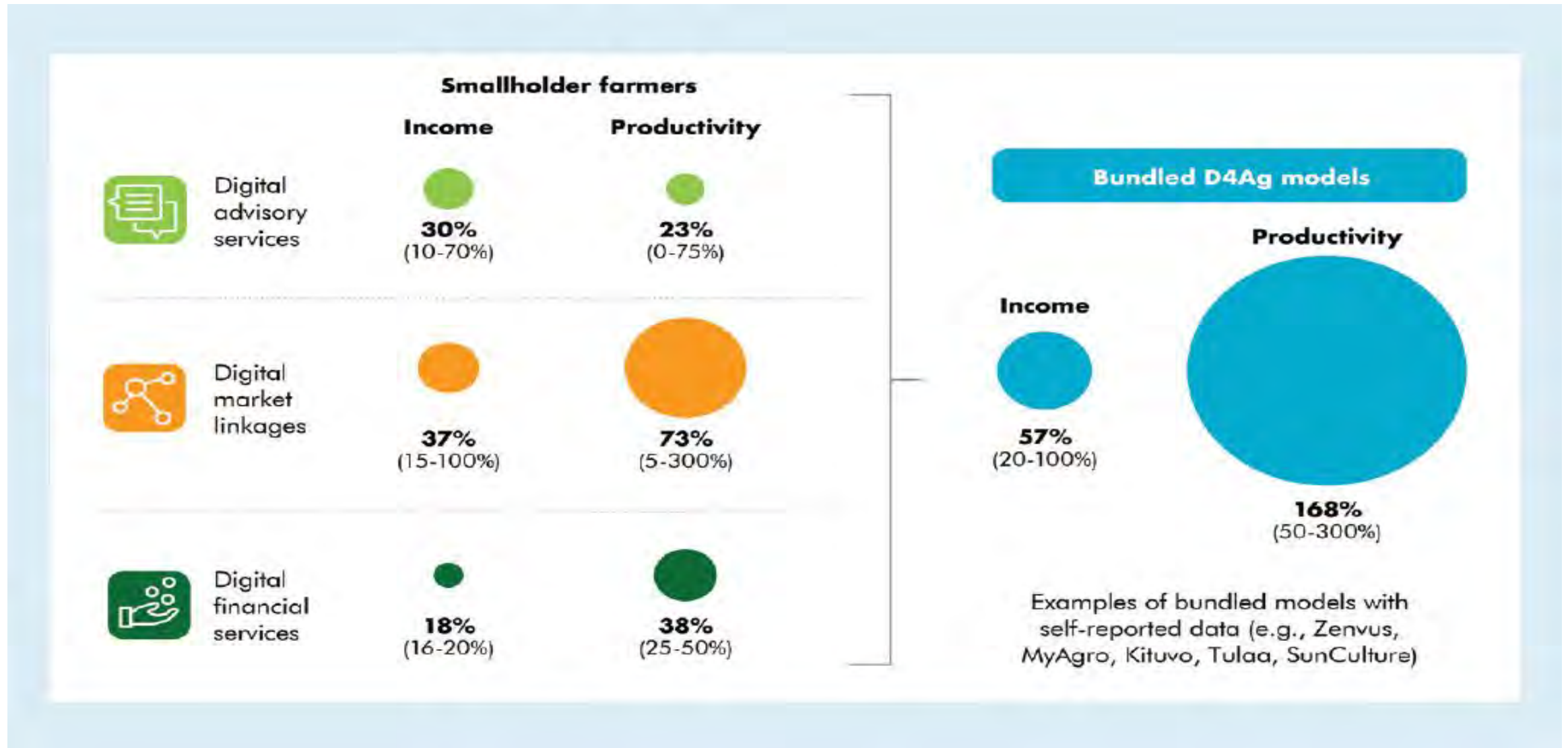
LMICs: Low and Medium income countries

Source: [ACM \(Association of Computing Machinery\)](#)

# Digital agriculture for Small Scale Producers in developing countries

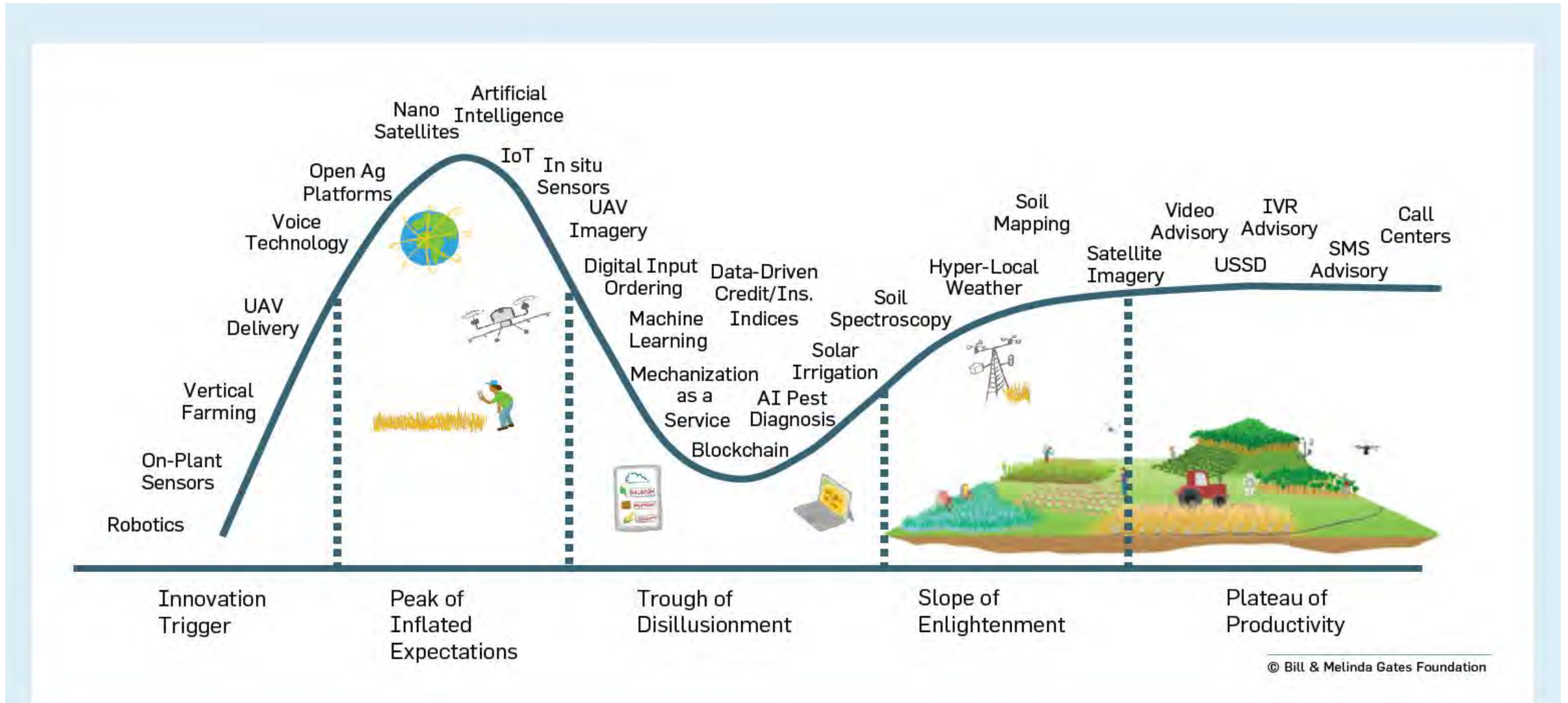
- **72% of the world's 570 million farms operate on less than 1 hectare.**
- **The average smallholder in sub-Saharan Africa lives on less than \$2 USD per day.**
- **Digital solutions can improve access to finance, advisory, insurance, and market services for millions of smallholders.**
- **Only 13% of SSPs in sub-Saharan Africa have registered for digital services and less than 5% are active.**
- **Innovations in connectivity, sensors, AI, digital infrastructure, and usability are needed to drive the adoption of digital agriculture for smallholder farmers.**

# Digital agriculture for Small Scale Producers in developing countries



Source: Digitalization of African agriculture report. CTA <https://www.cta.int>

# Digital agriculture for Small Scale Producers in developing countries



The Gartner Hype Curve

Source: [ACM \(Association of Computing Machinery\)](#)

# Conclusions

- For small scale producers focus should be on the late cycle of Gartner hype curve
- Financing should be prioritised through banks, insurance companies or government to gather data on most viable projects
- Digital market linkages should be privileged
- Bundled models are most efficient to increase productivity