

Phytobiomes Alliance Event

Framing Smallholder Digital Agriculture

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- **Background**
- **D4Ag Framework**
- **Ag. Data Infrastructure & Policy Implications**

I: Background



The Commonwealth

The Commonwealth Secretariat

An intergovernmental organisation that supports its 54 member countries to achieve the Commonwealth's aims of development, democracy and peace



The Commonwealth
Connectivity Agenda

The Commonwealth Connectivity Agenda (CCA)

Boosting trade and investment across the Commonwealth in the process grow intra-Commonwealth trade to US\$2 trillion by 2030, and expand investment



Physical Connectivity: Reducing physical barriers to trade



Digital Connectivity: Taking advantage of the opportunities presented by digital trade



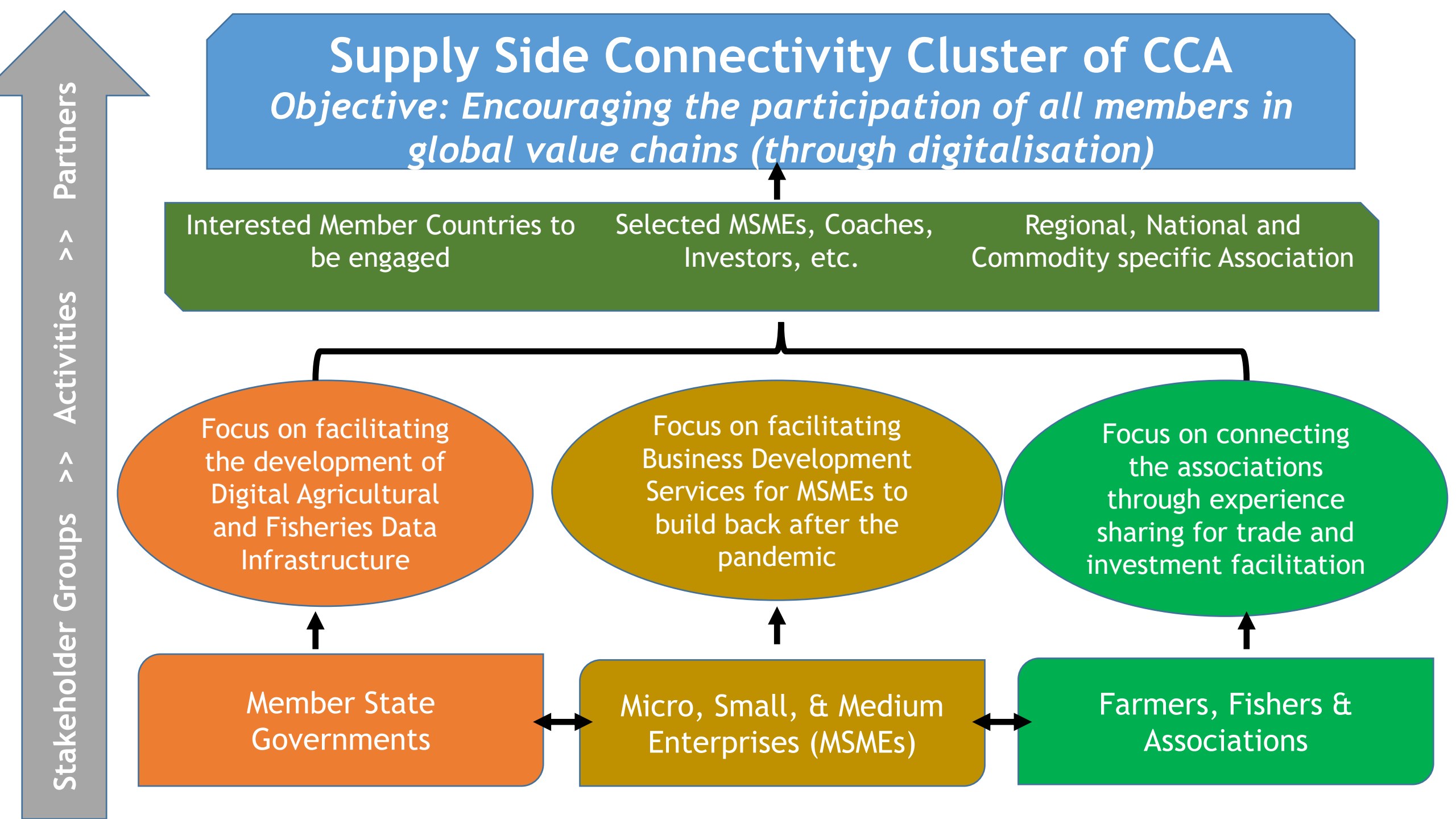
Regulatory Connectivity: Addressing the capacity deficit and improve the regulatory environment



Supply Side Connectivity: Encouraging participation in global value chains



Business to Business Connectivity: Exploring the role of private sector in promoting the blue and green economy



<https://www.cta.int/en/digitalisation-agriculture-africa>



Dalberg Advisors

Digitalisation for Agriculture (D4Ag)

The use of digital technologies, innovations, and data to transform business models and practices across the agricultural value chain and address bottlenecks in, among other things, productivity, postharvest handling, market access, finance, and supply chain management to achieve greater income for smallholder farmers, improve food and nutrition security, build climate resilience, and expand inclusion of youth and women (Tsan et al. 2019)



II: D4Ag Framework



The Commonwealth

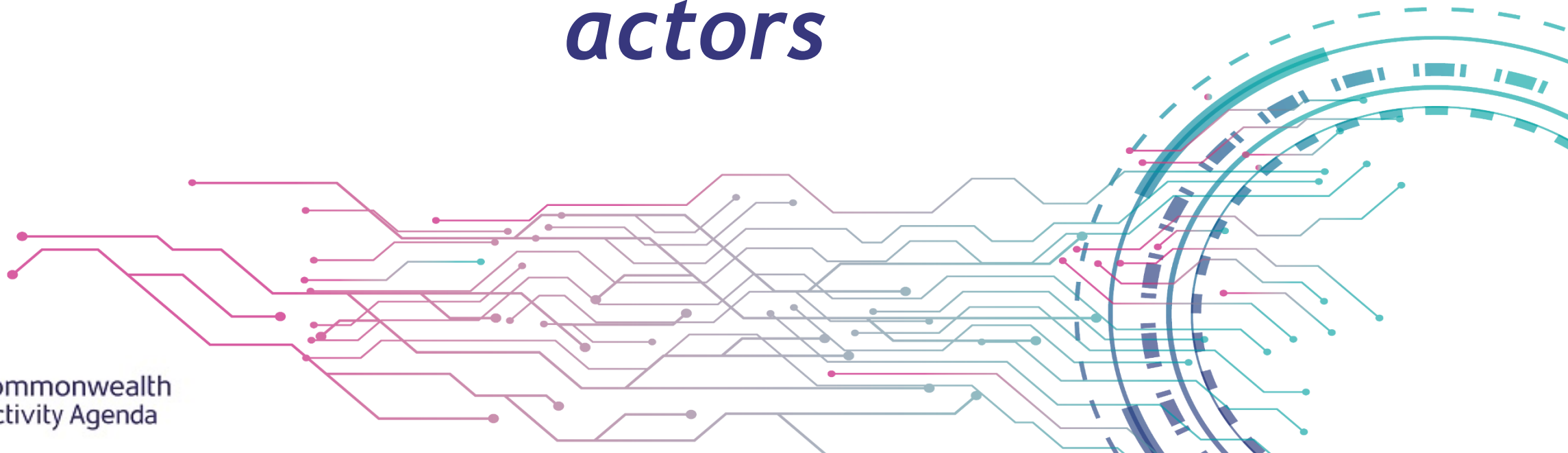
First Statement

Generic (digitalisation) - we should be able to customise and apply the framework to different sectors

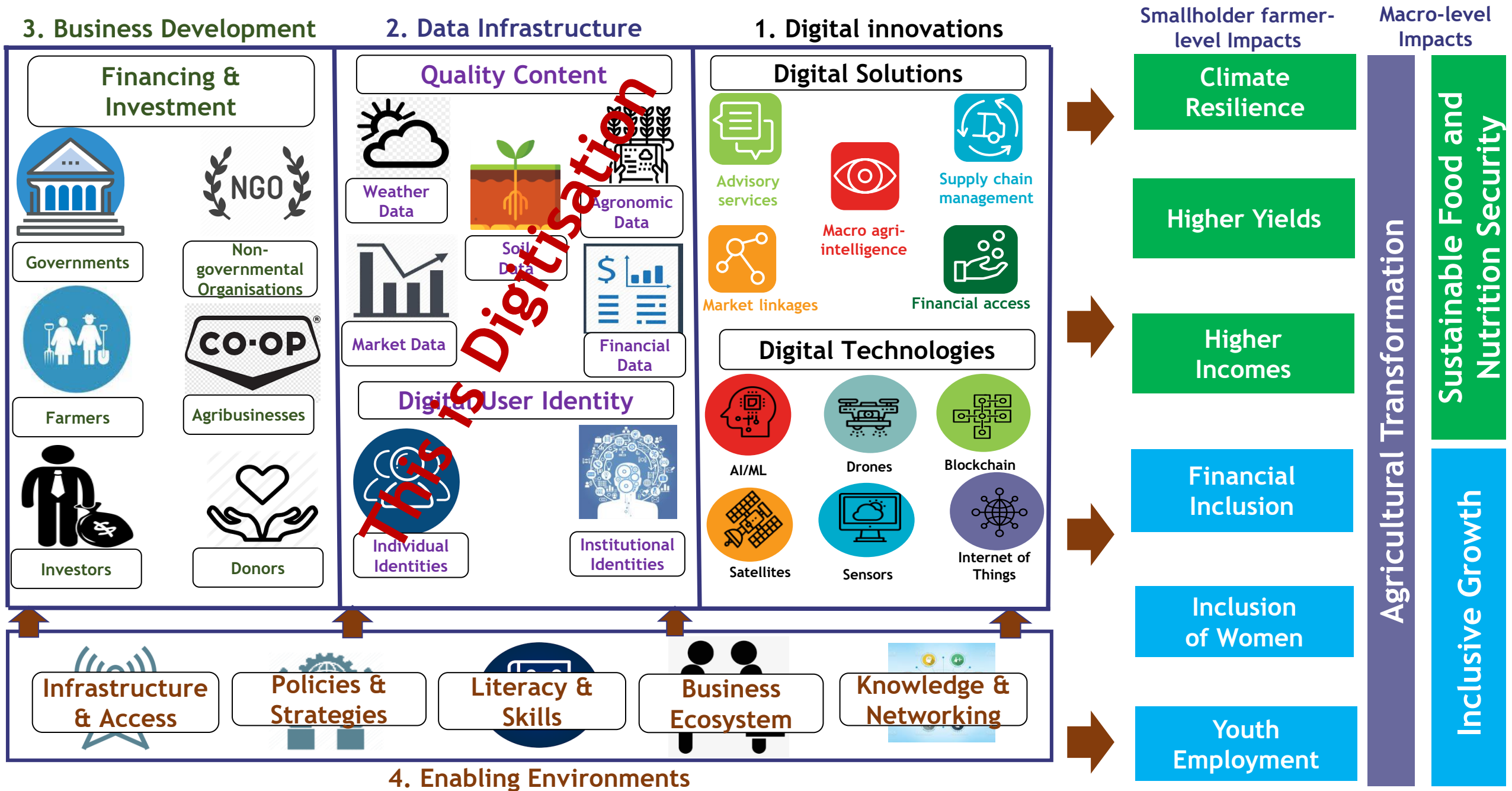


Second Statement

National context - the framework takes a macro approach to digital agriculture and goes beyond individual actors



Framing Digital Agriculture





***“Digital agriculture” is not the
same as “Digital Agricultural
Solutions”***

III.

Ag. Data Infrastructure & Policy Implications



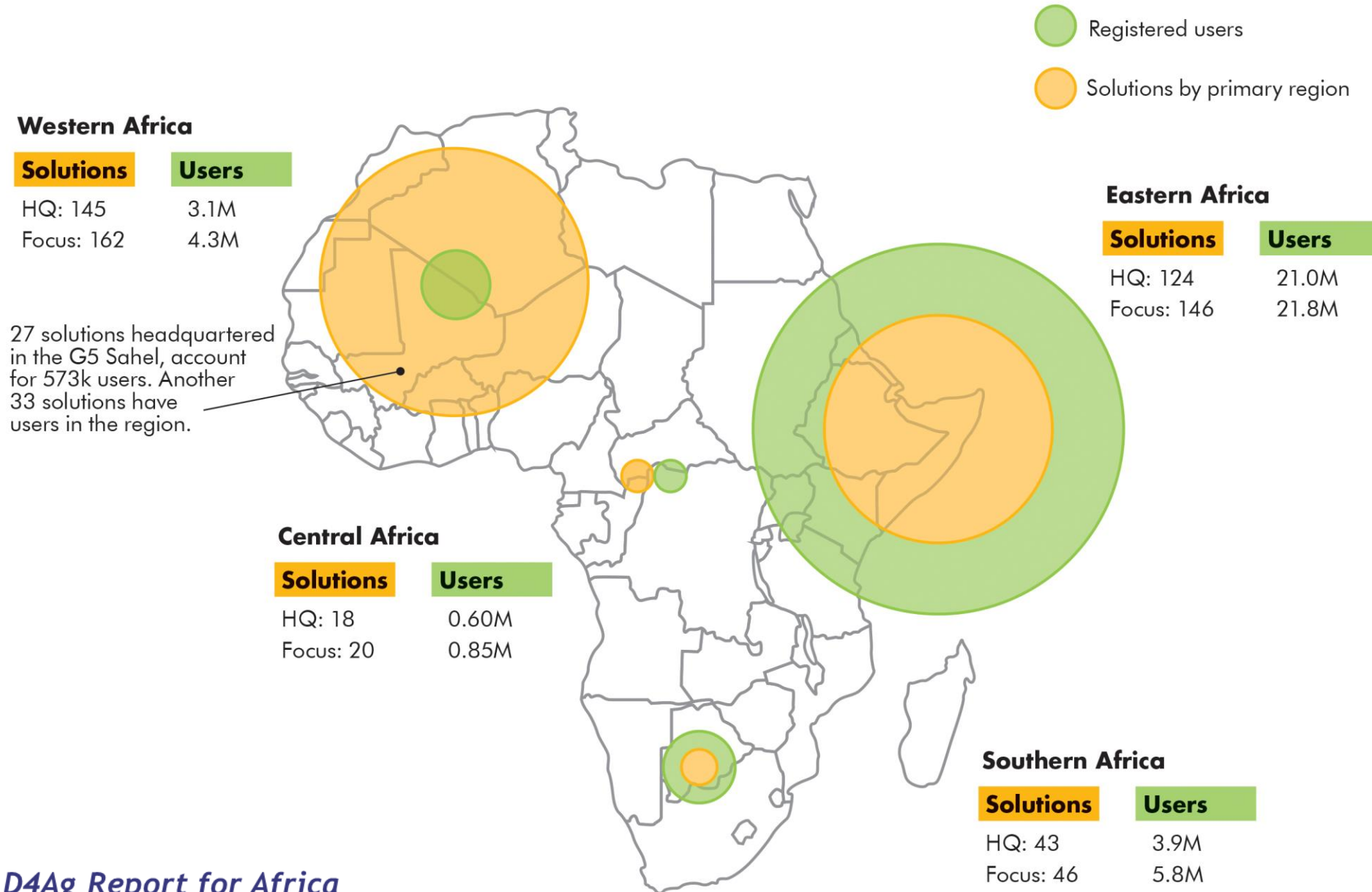
The Commonwealth

The Missing Middleware

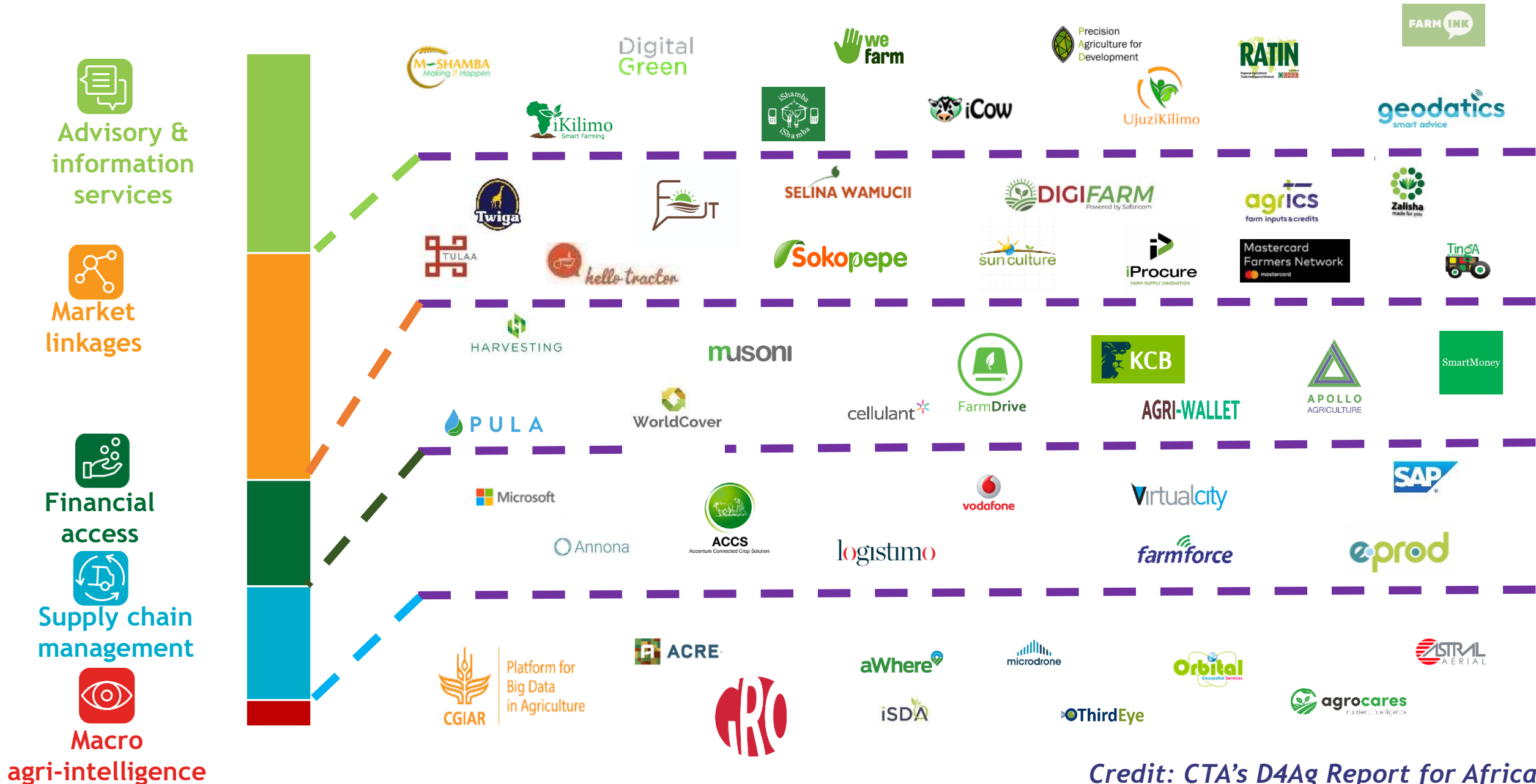
Invest in the missing middleware infrastructure.
Successful D4Ag solutions require access to a wide range of data (from remote sensing data to farmer-specific data) in order to deliver high-quality services to farmers



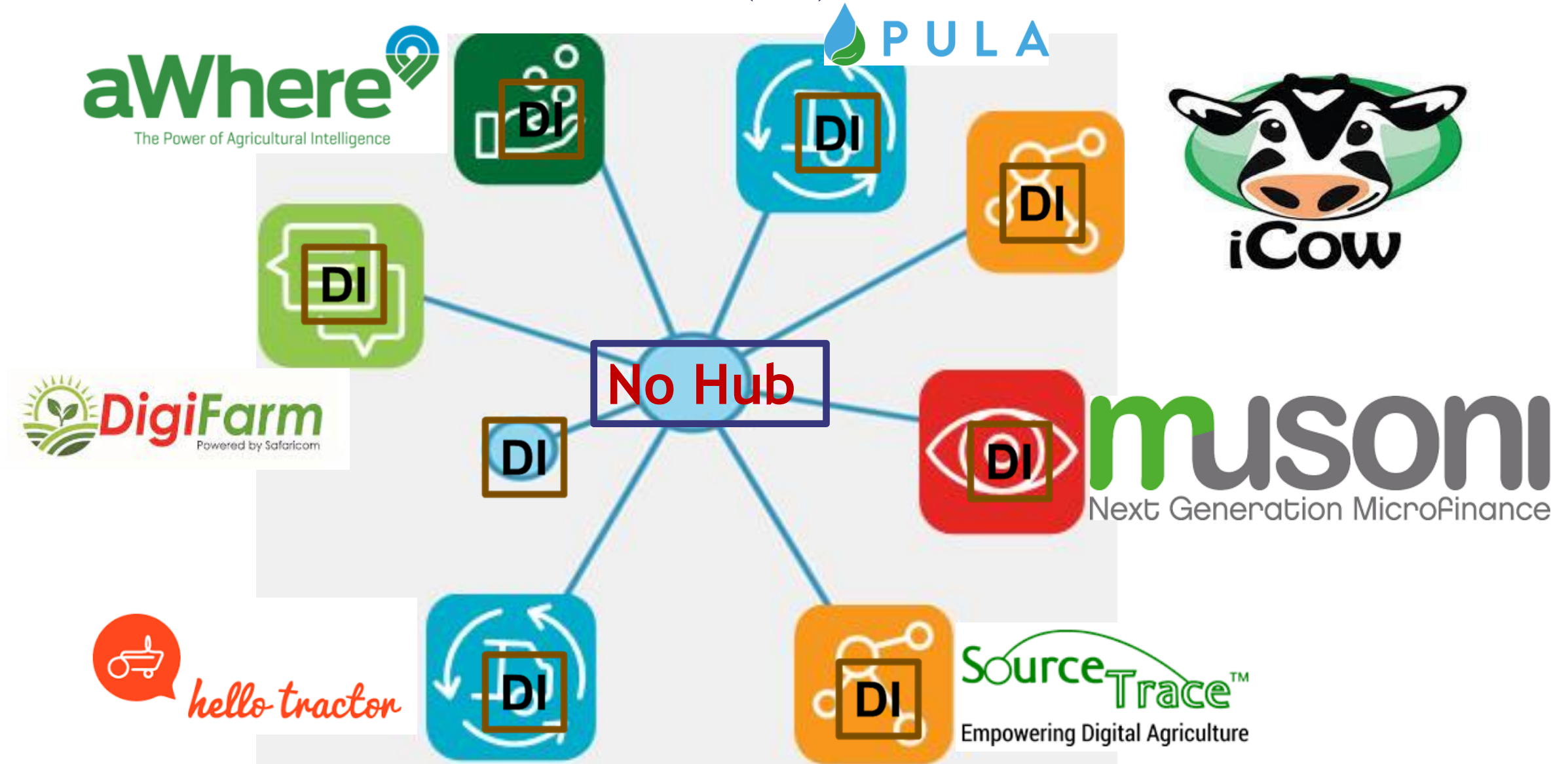
Digital Solutions & Users in Africa (2018)



Duplication Digital Solutions (Kenya, 2018)

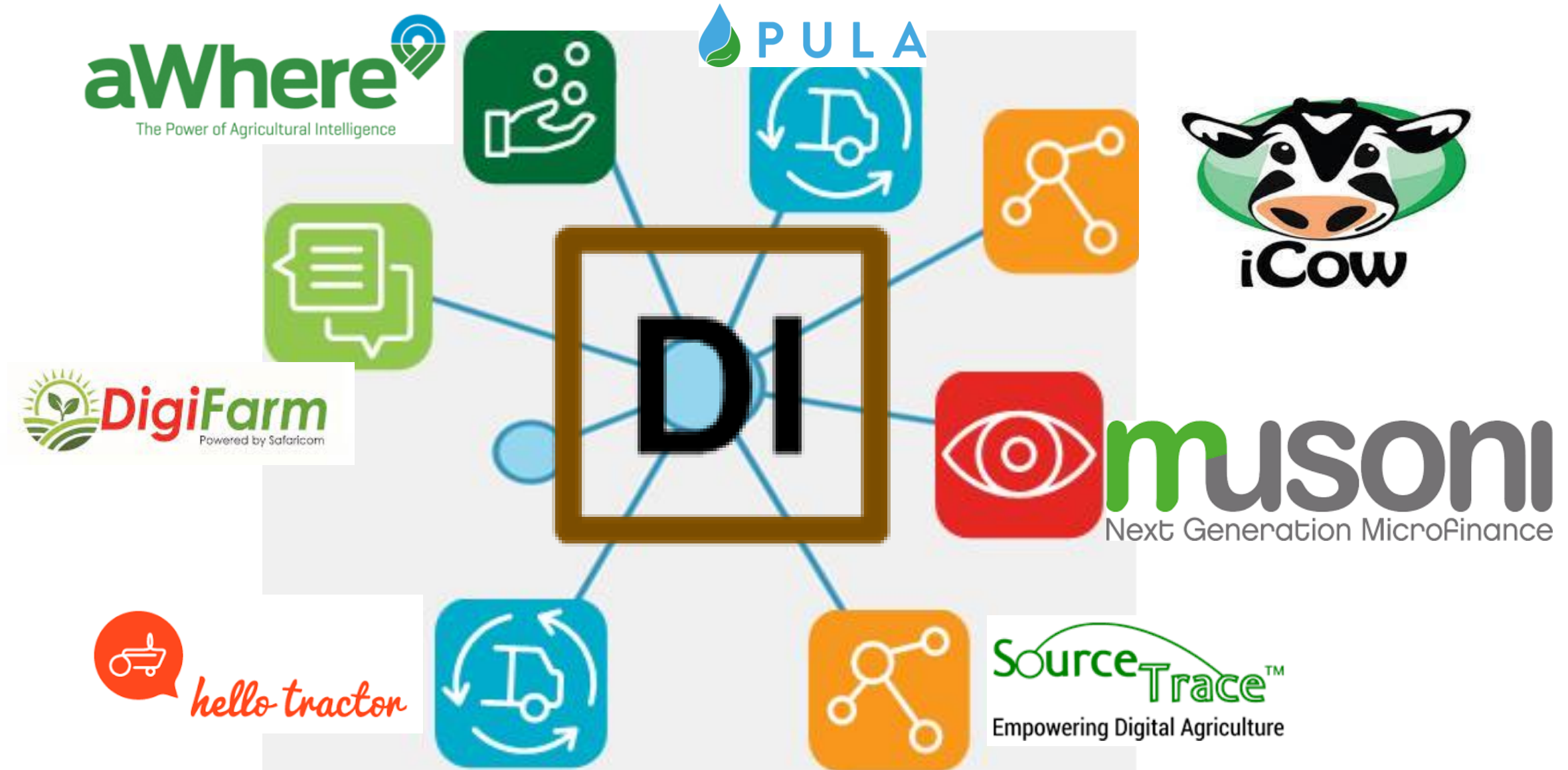


Data Infrastructure (DI) - current situation!



Multiple Spokes With No Hub

Data Infrastructure (DI) - alternative option!



National Hubs & Spokes

IV. Conclusion



The Commonwealth

D4Ag Framework



- The Commonwealth Secretariat welcomes interested partners to work and build the D4Ag framework
- **The Framework can be used to assess, track and compare the resilience of the agricultural sector through digitalisation at national level**
- Enable us to know countries that are **leading** in leveraging digitalisation in agricultural sector

Data Infrastructure & Smallholder Agriculture



Imagine what we can do, if we build, connect & sustain agricultural data infrastructure across countries/continents



The Commonwealth
Connectivity Agenda

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THANK YOU