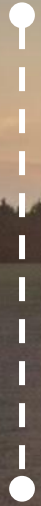# The OpenAgriNet Alliance (OAN)

A global coalition committed to revolutionizing agriculture with DPI

OpenAgriNet

Nearly one in 11 people around the world go to bed hungry each night, a crisis driven largely by climate change, conflict and chronic inequality

Globally, agricultural output growth is now at its lowest rate in six decades

OpenAgriNet

This pressure on the food system drives unsustainable agricultural practices, which in turn contribute to biodiversity loss

12 Mn
hectares of agricultural soils are lost globally through soil degradation every year

>80%
of the world's croplands will face increased agricultural water scarcity by 2050

24,000
species are at a risk of extinction due to unsustainable agri practices

Few Farms, Fewer Farmers

The number of farms around the world is dropping and is projected to fall from **616 million** in 2020 to **272 million** in 2100

Worldwide, the percentage of people who work in agriculture has dropped from **43%** in 1991 to **22%** in 2022

OpenAgriNet

This decline can be attributed to multiple challenges that farmers face such as....

Inefficient Supply Chains

Limited access to credit/financing

Limited access to farming machinery

Limited & Fragmented Market Access

Lack of Collaboration on Digital Agriculture

Looming Threat of Climate Change

Information Asymmetry

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To tackle this, countries are now investing in foundational **digital public infrastructure (DPI)** efforts to augment agricultural productivity
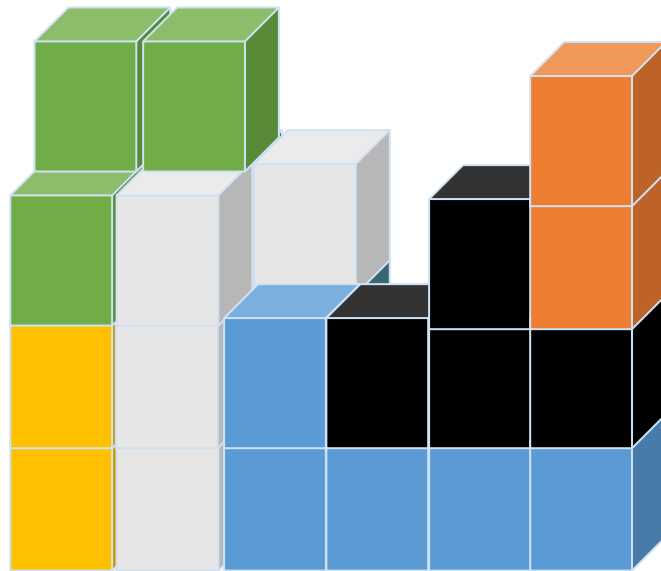
DPI will be a design fabric with a robust techno-policy-community backbone that addresses

Discoverability & access | **Trust** | **Data ownership** | **Context & Personalisation**

- Identity & Consent layer
- Discovery & Fulfilment Layer
- Payments Layer
- Digital Trust Layer
- AI & Personalisation Layer
- Assets Layer

Empowering existing and new private and public builders to innovate & create impact

Introducing OpenAgriNet Alliance – Supporting countries in leveraging DPI & AI models for a smarter, more resilient agricultural future

OpenAgriNet

The Open AgriNet Alliance

Global network of practitioners that will aid in;

1. *Creating* **"knowledge-commons"** *for Agri-data*
2. *Establishing the right foundational* **digital trust** *infrastructure*
3. *Articulating effective* **commercialization** *opportunities for farmers*

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Empower Small Holder Farmers

Inclusive Livelihood Opportunities

Climate-Resilient Agri-practices

Strengthened Agro-Research

Increased Market Opportunities

Seamless access to Agro-credit

Effecting the right response with OpenAgriNet (OAN)

A growing pool of 60+ organizations & 100+ practitioners in 5 continents are co-creating pathways

- DPI Led Pathways
- Smart AI Frameworks
- Observability & Policy instruments
- Community Co-creation of Digital Public Goods
- Operating playbooks for Agri-DPI networks

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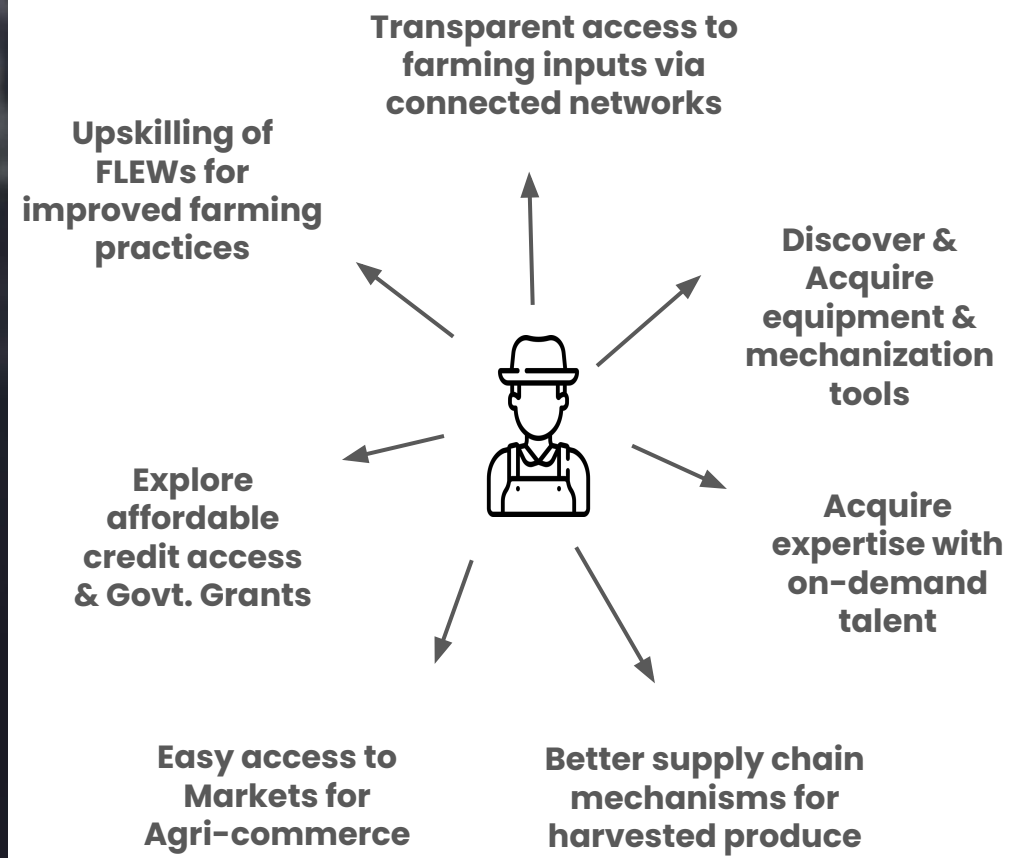# How will OAN empower the global agri-ecosystem?

Leverage building blocks such as....

Source-of Truth Registries
Discovery & Fulfilment Networks
Credentialing & Asset Tokenization
Decision Support Tools & Algos
Telemetry for Observability

Transparent access to farming inputs via connected networks

Upskilling of FLEWs for improved farming practices

Discover & Acquire equipment & mechanization tools

Explore affordable credit access & Govt. Grants

Acquire expertise with on-demand talent

Easy access to Markets for Agri-commerce

Better supply chain mechanisms for harvested produce

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OAN-based digital agriculture grids to unlock.....

Agri-information advisory & best practices

Upskilling opportunities for extension workers

Verified Data (people, land, commodities)

Agri-credit access, Govt. schemes

Agri-commerce & market access

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•...and more

National Strategy…. but Decentralization of Operations

- Define **"national commons"** - unified strategy and building blocks, with cooperative governance models

- Empower **local administrative units to define and own** their own agri-networks

- **Templatise** & promote the new model through **advocacy and branding**

- Low friction, high **scalability**

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Supporting DPI efforts in agriculture......

India

- Pan-country knowledge grids
- Agri-registries & Digital-trust tools
- Hyperlocal agri-pods
- Agri-fulfilment networks

Africa

- Agri-commerce networks
- Agri-registries & Digital-trust tools
- Rural agri-entrepreneurship opportunities

US & Europe

Open-source, interoperable networks empowering farmers:
- Commercialization pathways
- Knowledge sharing
- Marketplace access

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A peek into a DPI-led hyperlocal AgriPod

Community-led local open agriculture networks with the "farmer at the center"

Enables
Resource discovery & Transactions
across farmers, FPOs and other service providers

Reduces
Costs for service providers

Democratize
Access to services
for farmers, thus improving revenues

Increases
Creditworthiness of data
by incentivising end users to maintain data integrity

Enables
Observability and Transability
thus improving policy making, credit history of farmers

Pod-efforts underway in India

- Local agri communities (FPOs/ FPCs representing 100k+ farmers)
- Active service providers – Indian agritech startups)
- Strong agri infra, and
- Local universities

Early use-cases being tested

- Renting/ purchase of farm equipment and machinery
- Tailored advisory services
- Booking of aggregation/ storage centers and logistics
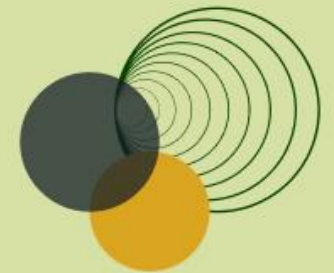
An OAN Toolkit is in the works…

To empower DPI implementers & Ag-techs with reference utilities…
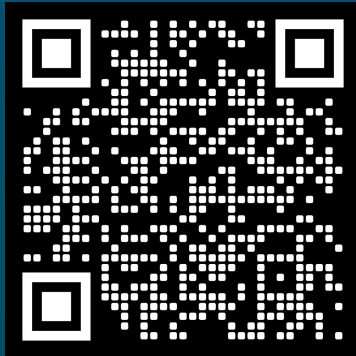
Open Data Sets

Tools and reference code

Specifications and standards

*From real-time data analytics, AI models and climate-smart advisory systems, OAN's repository of tools are being crafted to empower farmers, optimize operations, and enhance sustainability. .... **everything open-source!***

Thank You!