



Implemented by:

SASI Sustainable
Agricultural
Supply Chains
Initiative

LUNCHBREAK



Federal Ministry
for Economic Cooperation
and Development

4 April 2025, 12 – 1 pm

**Sustainable Agriculture for Forest
Ecosystems (SAFE)**

&

Digital Public Infrastructure

SASI Lunchbreak, April 4th 2025



SAFE in a nutshell

- **Objective:** Contribute to the conservation of forests and other ecosystems and to the sustainable management of agri-food systems
- **Duration**
01.01.2022 – 31.03.2028
- **Partner Countries**
Brazil, Burundi, Cameroon, DR Congo, Ecuador, Indonesia, Peru, Uganda, Vietnam, Zambia (plus additional activities in regional and global formats)
- **Value Chains**
Cocoa, Coffee, Palm Oil, Soy, Beef, Natural Rubber, Wood



Implementation at a glance



Global Topics



Digital Public Infrastructure

Supporting shared digital systems and standards that enable society-wide functions and services



Gender Equity and Social Inclusion

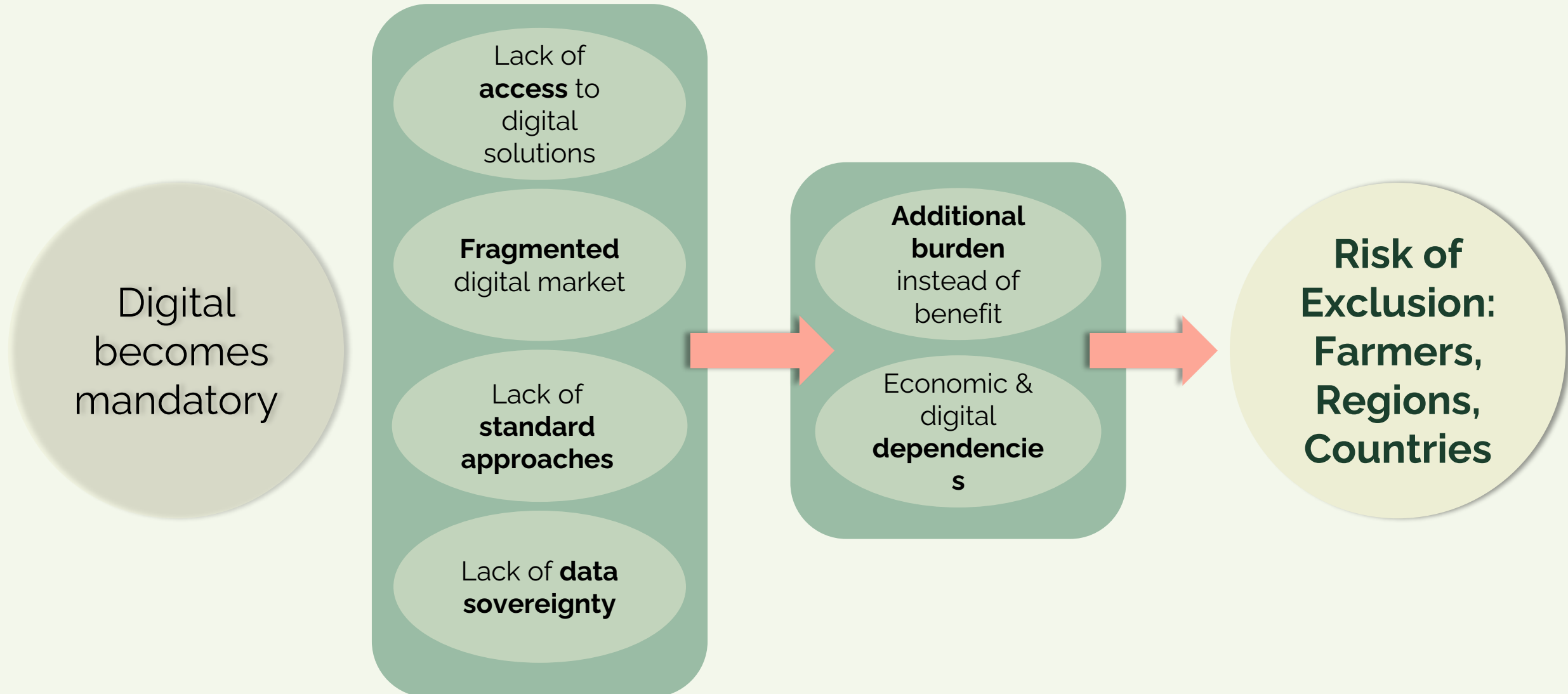
Accelerate solutions for marginalized communities and Training of Trainers in selected partner countries



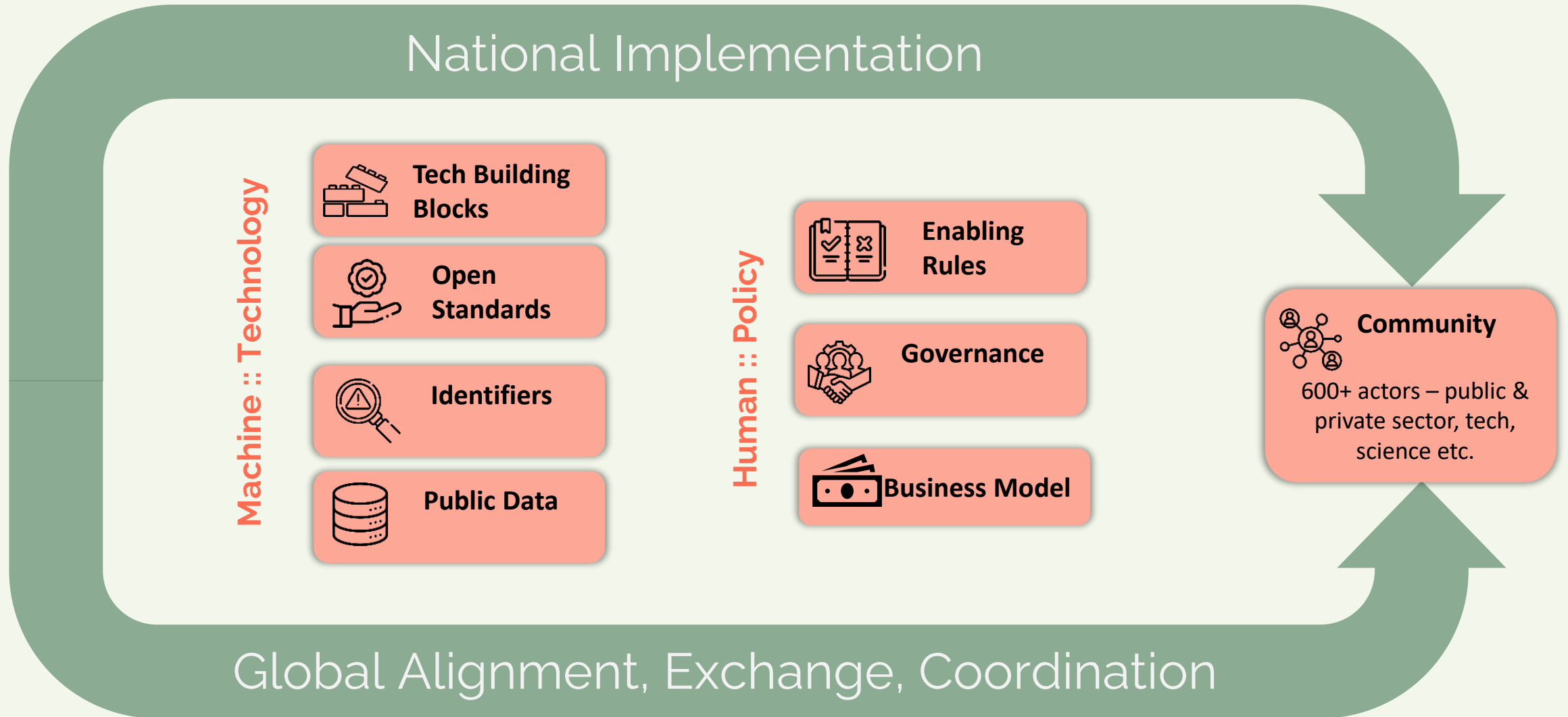
Green Financing

Mobilizing financial resources, particularly for vulnerable groups, and enhance gender-transformative financial frameworks to support sustainable investments

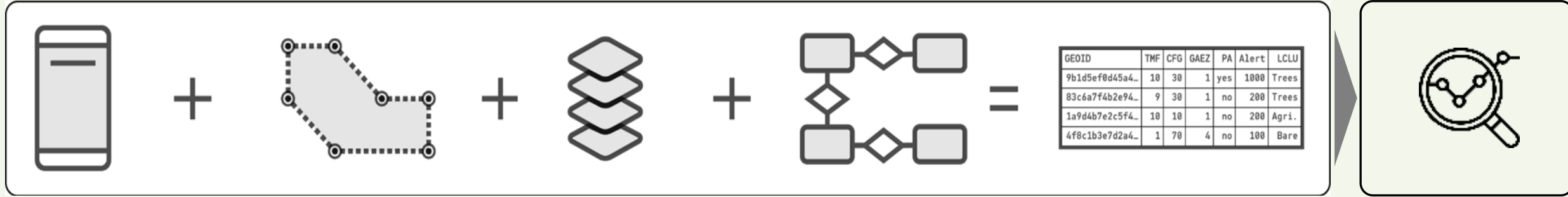
What drives us regarding digital approaches?



Towards DPI for Agriculture



Building Blocks towards DPI



Boundaries

- Field data
- Manual / AI-based
- Segmentation

Unique Geo-IDs

- GDSP compliant
- Anonymous
- Attribute-less

Public geodata

- Land cover (change)
- Biophysical
- Land use

Public models

- AI models
- Decision trees

Compliance support

- Standardized data
- Risk assessment at plot level

Traceability

- interoperable



TraceFoodChain



Thank you!

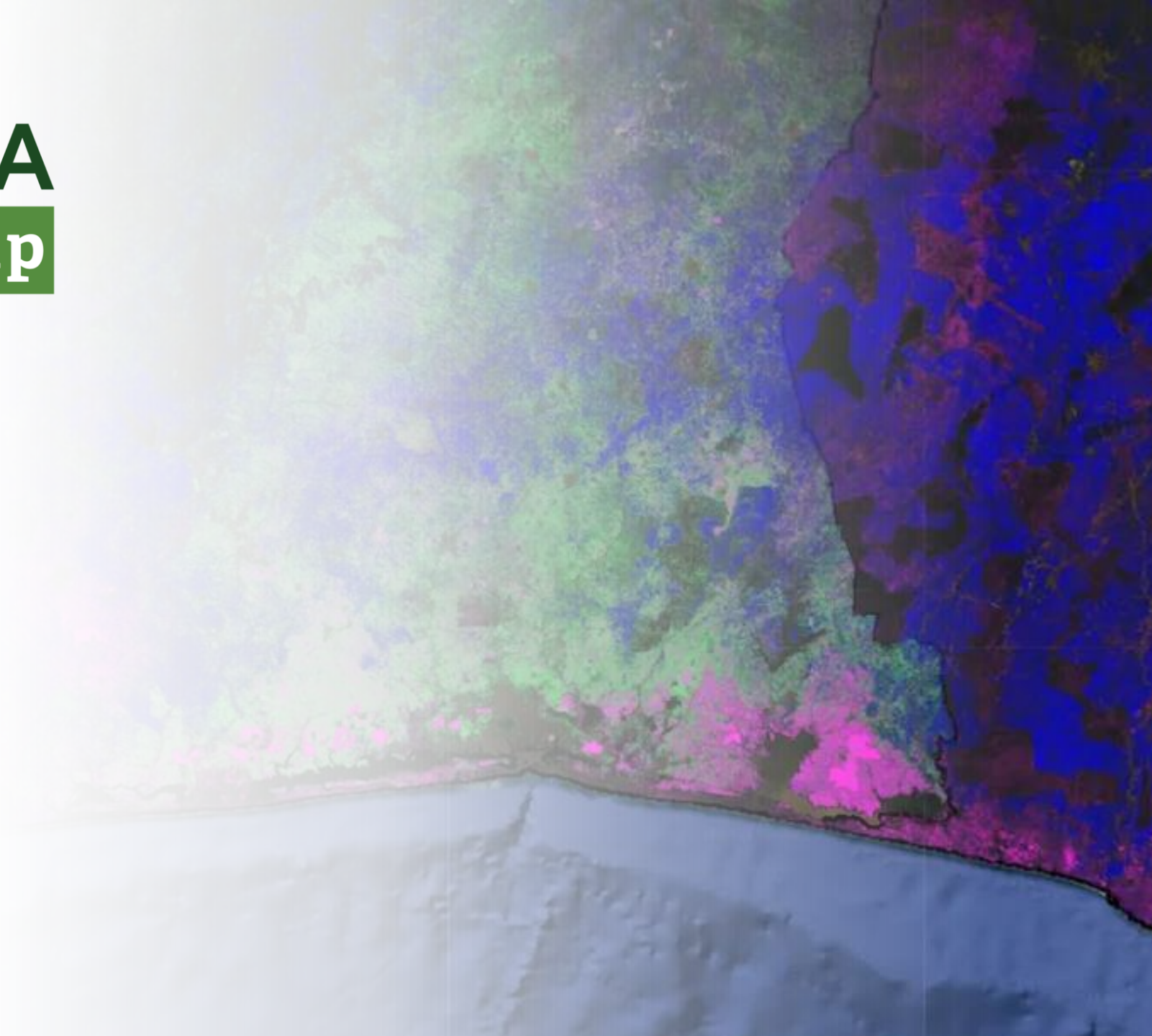


FOREST DATA

Partnership

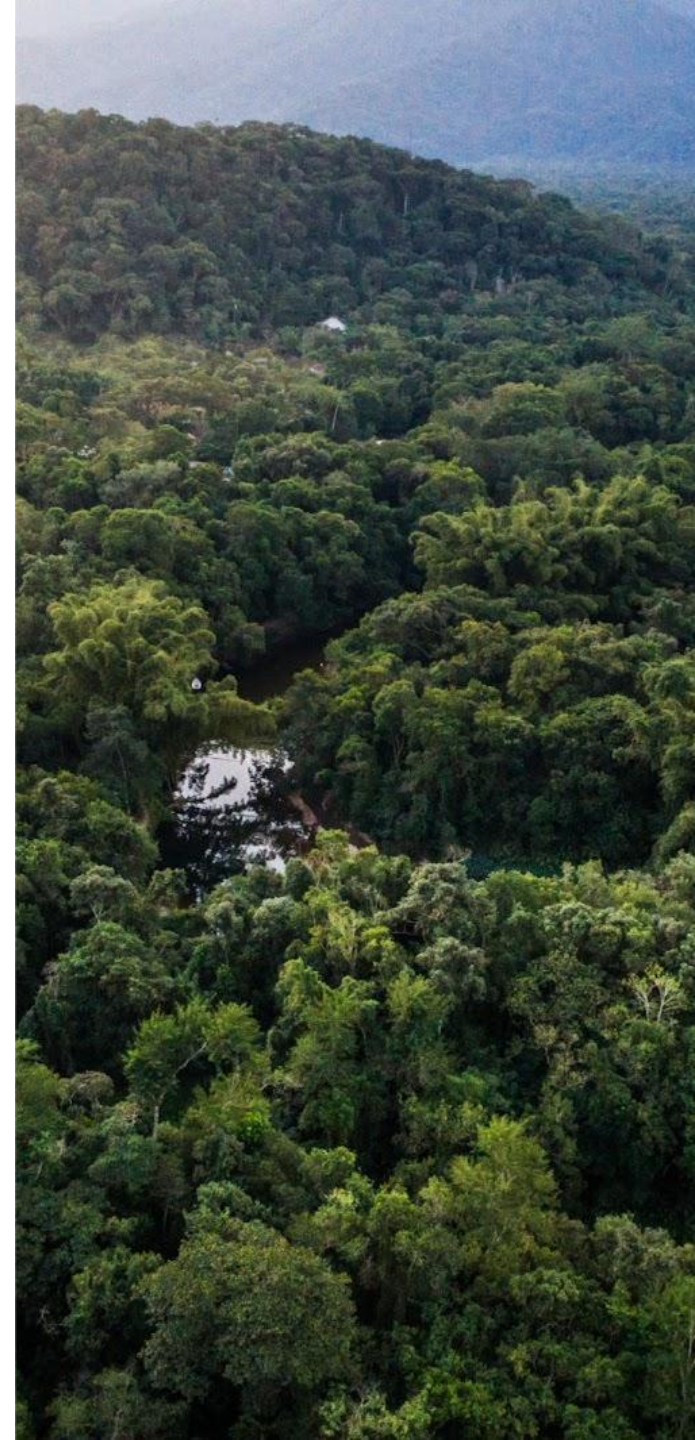
SASI Lunchbreak

April 4, 2025



FOREST DATA Partnership

Unites organizations, governments and private sector partners around **trusted, transparent geospatial data solutions** that enable credible monitoring, verification and disclosure of progress in reducing deforestation.



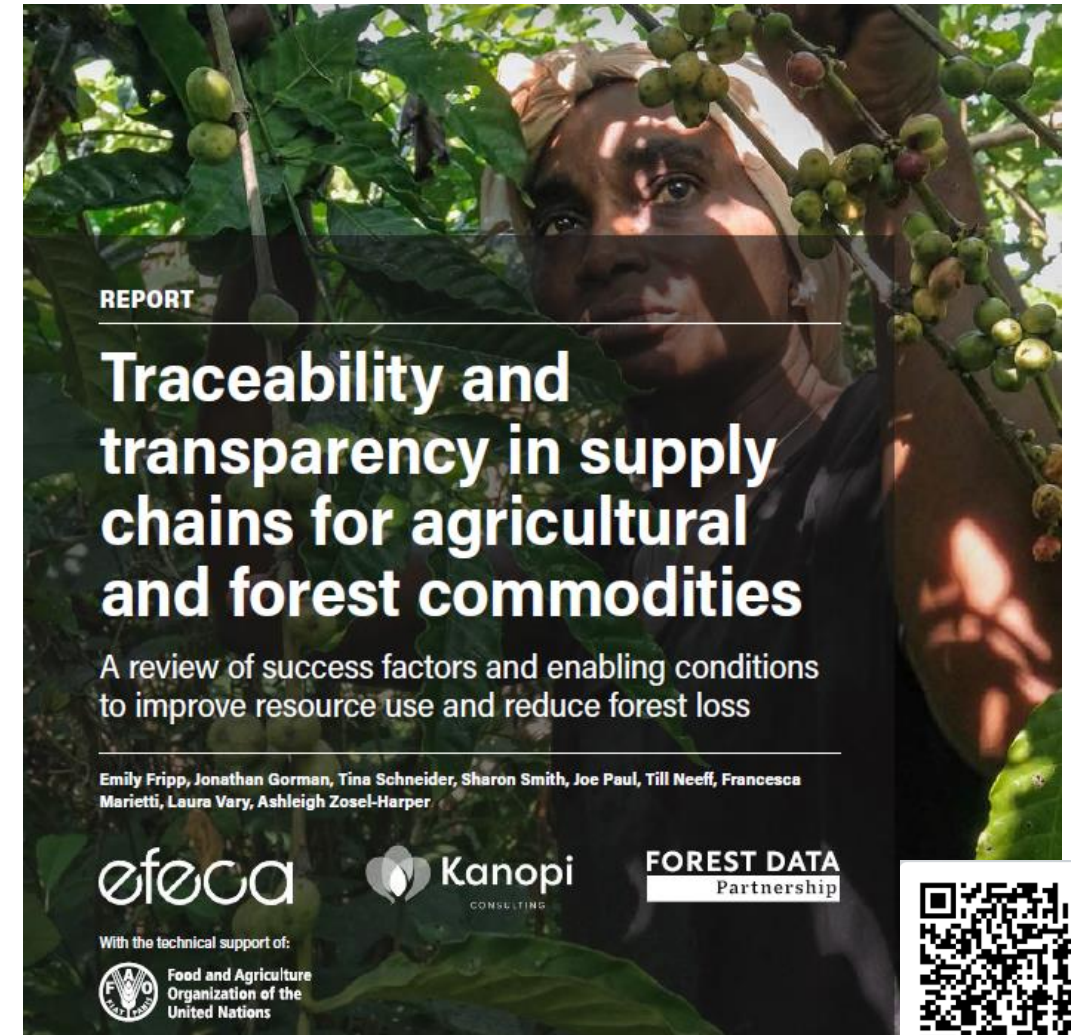
What are the
current
challenges?



Geolocations and Traceability



Forest & Land Monitoring



What does FDaP do?



Geolocations and Traceability

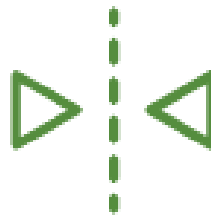


Forest & Land Monitoring

For each data challenge, we:



Engage partners
and stakeholders

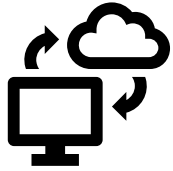


Align on
foundational
data gaps



Innovate
demand-driven
approaches

What does FDaP do?

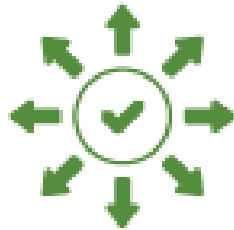


Data Solutions
(e.g., whisp, community models)



Non-data solutions
(e.g., reports, best practice guides)

For each innovative solution, we:

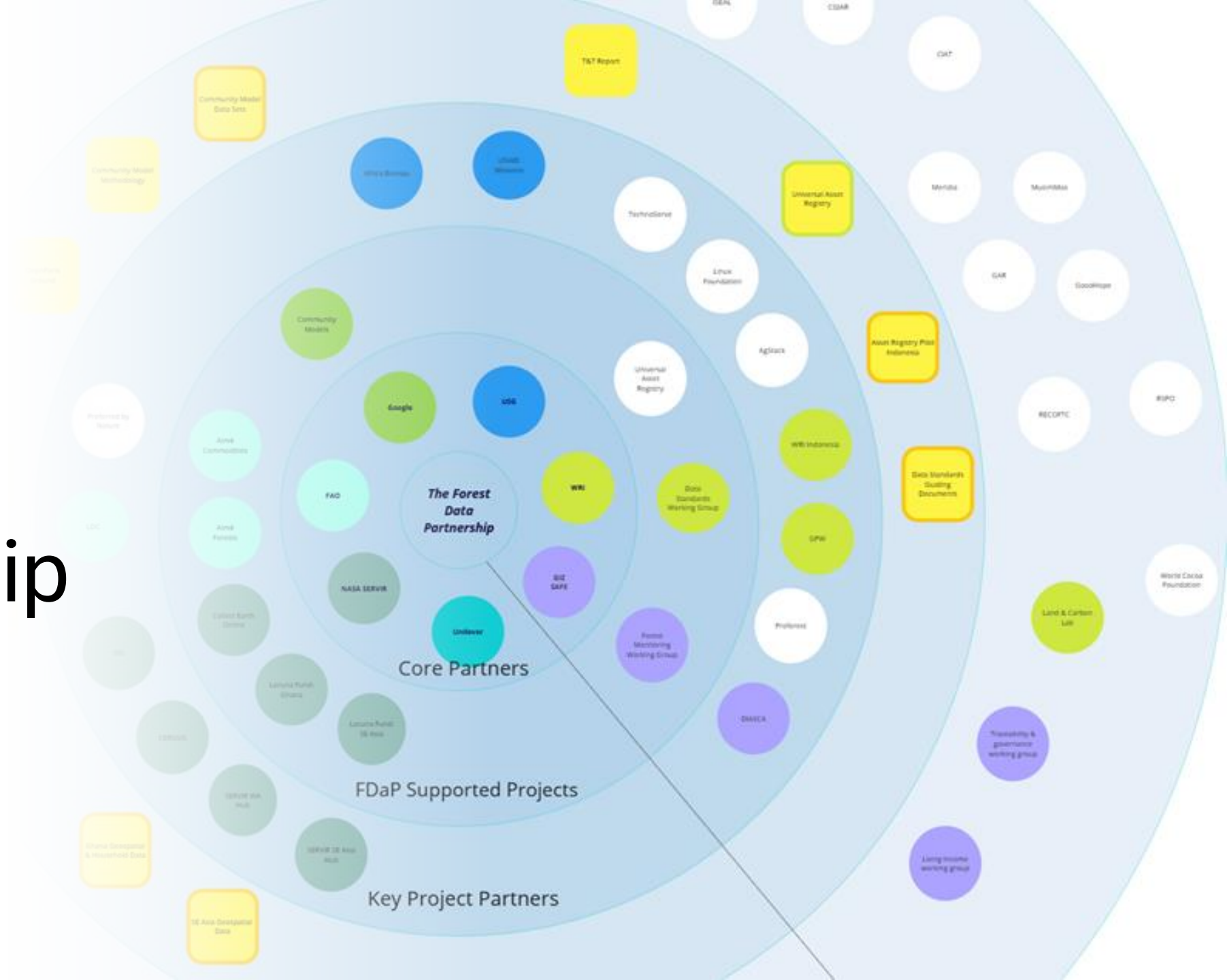


Deploy
data delivery
mechanisms



Assess
impact

The Partnership



Forest Data Partnership: Phase Two



Focus on key pieces of
work and innovations



Develop strategic
partnerships



Support future collaboration
and fundraising

Priority Workstreams



Data standards and
Governance



Convergence of
Evidence



Digital Public
Infrastructure

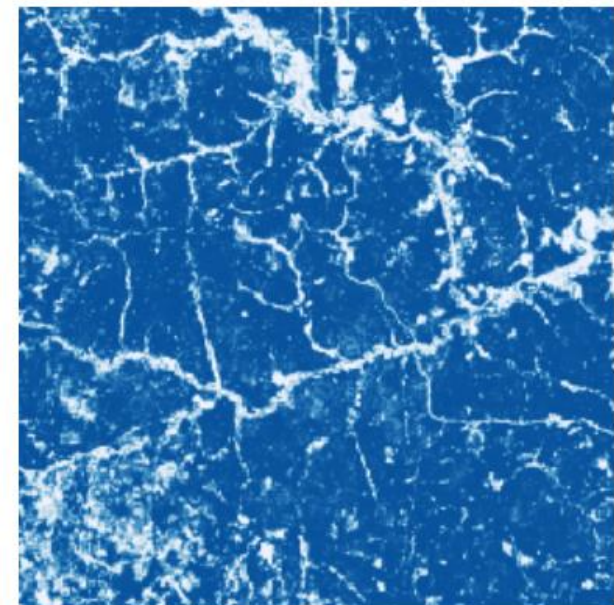


Community models
of forest risk
commodities

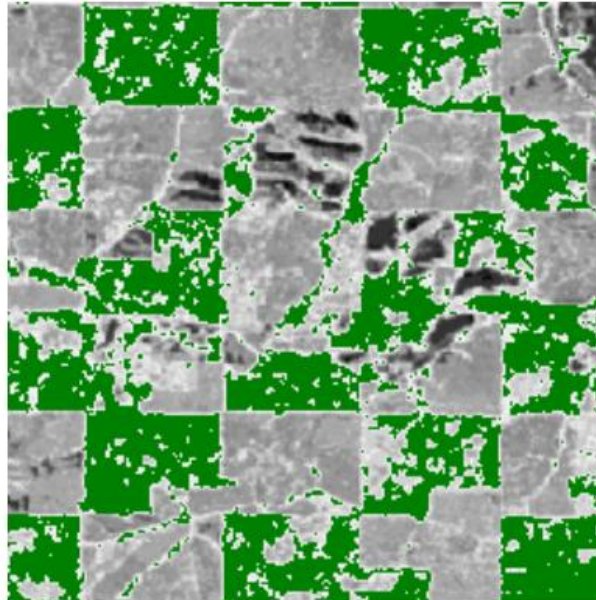
Community Learning Models



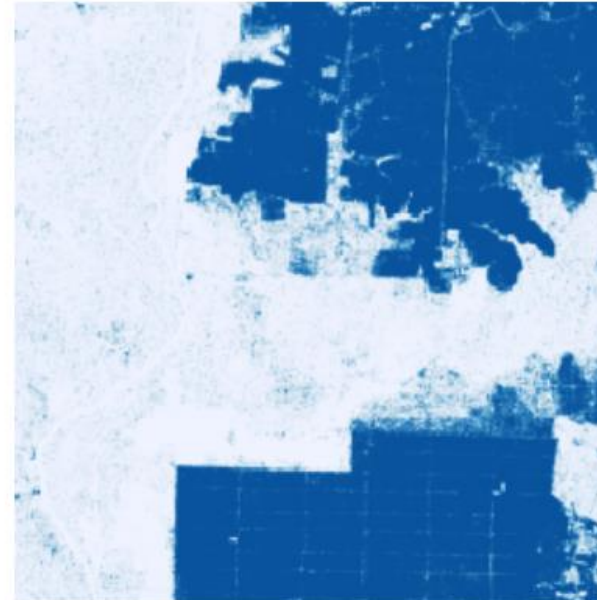
Cocoa Probability model 2024a



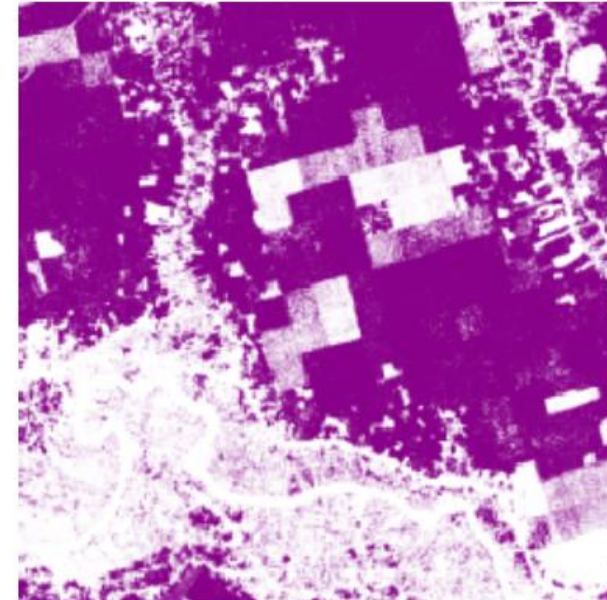
Forest Persistence v0



Palm Probability model 2024a



Rubber Tree Probability model 2024a



Convergence of evidence

- No single geospatial layer of information can prove compliance
- Convergence of evidence from multiple layers can support compliance claims
- National circumstances and datasets should be taken into account
- Robust, transparent and reproducible analysis requires public datasets and processes



Deforestation risk assessment workflow

GEOSPATIAL DATA PREPARATION

Tree cover / Forest

- EU JRC DD
- GLAD / ESA / JAXA
- National land cover/use map
- Add: ...

Commodities

- Palm mask
- Cocoa mask
- National commodity map
- Add: ...

Disturbance before 2020

- GLAD / TMF (change product)
- RADD alerts
- MODIS fires
- Add: ...

Disturbance after 2020

- GLAD / TMF (change product)
- RADD alerts
- MODIS fires
- Add: ...

ZONAL STATISTICS

- geo-spatial analysis of all overlapping data within the plot
- output as CSV



RISK ASSESSMENT



FOREST DATA Partnership



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**Data Standardization
and Interoperability**

**Data Authorship,
Management/Control,
Access**

**Data Consent
Processes**

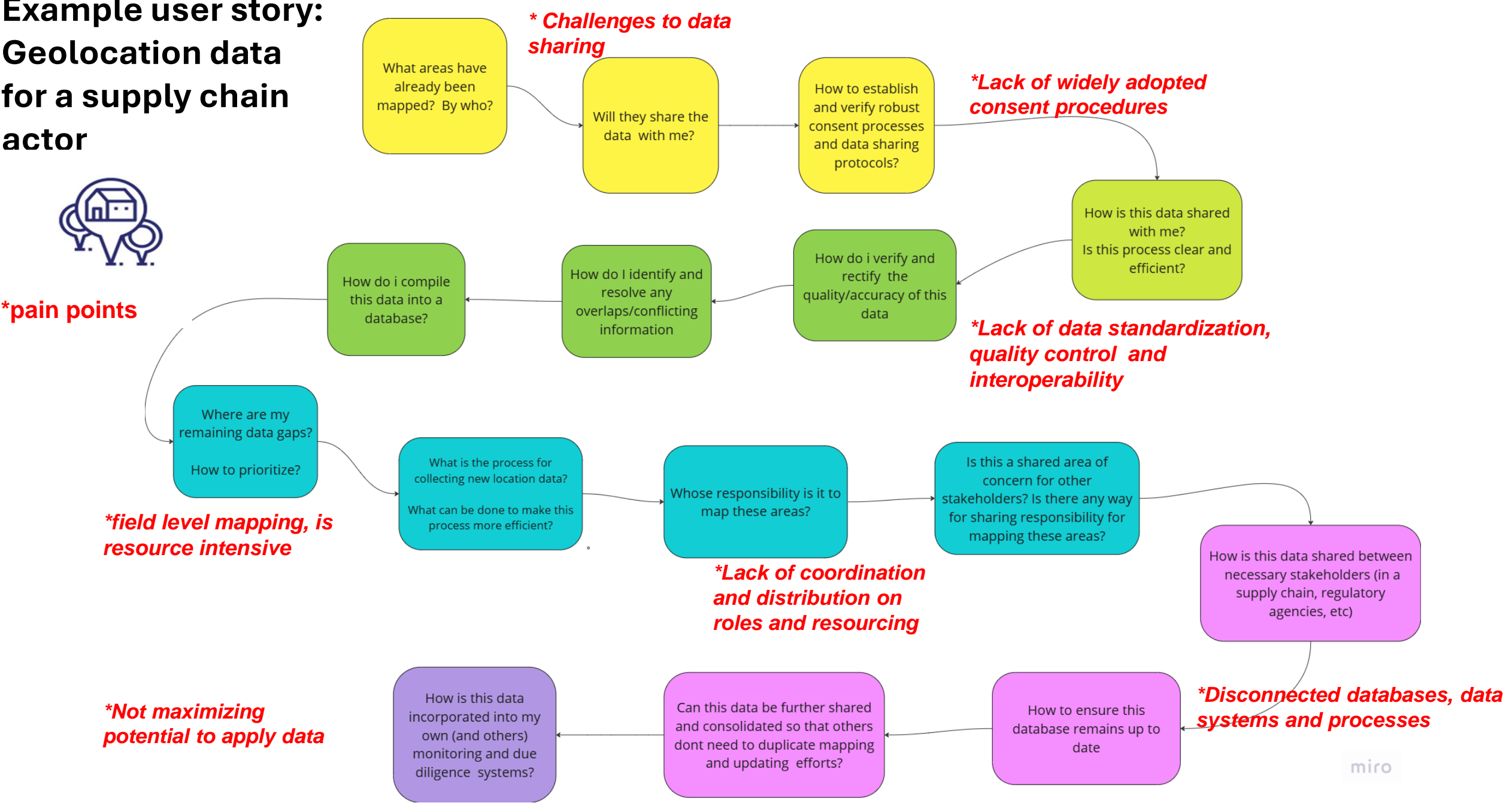
**Data Confidentiality
and Security**

**Collaborative Solutions
to Data Sharing**

Example user story: Geolocation data for a supply chain actor



***pain points**



Data Standards Working Group

Brings together subject area experts to co-develop and build consensus around **practical and implementable, published best practices and guidelines**

Seeks to collectively define scope, content, product outputs, communication and engagement approaches

AIM4Forests

FOREST DATA
Partnership

 **DIASCA**
Digital Integration of Agricultural
Supply Chains Alliance

Topic Areas & Scope

Data Standardization and Interoperability

Typology, attribute information, technical considerations of data collection, data quality and verification, long term maintenance

Data Authorship, Management/Control, Access

Related definitions, roles, structures; equitability and cost and profit-sharing, incentives and disincentives

Consent Processes

Consent in the context of data collection, management and sharing; defining best practices; iteration and cycles of learning on processes

Data Confidentiality and Security

Ethical considerations; commercial sensitivities; legal considerations; data security challenges

Collaborative Solutions to Data Sharing

Making the case for collective action, known solutions, known blockers, cases “against” collaboration

Geolocation data (static data, not volumes) / Cross-commodity* / Cross-geography*



Data
Standardization
and
Interoperability

- Standardized **data hierarchies**
- Government-recognized **classifications and validation** methods

Legality and
consent

- **Land Tenure & Policy** context & commodity-specific, complicating legal compliance
- **Consent in data sharing:** smallholders real and perceived risks and benefits; defining data access and governance remains a challenge

Collaborative
Solutions to Data
Sharing

- **Government-private sector-smallholder** alignment on mandates for data sharing and validation
- Harmonization on data collection and aggregation. Alignment for NDAs, sharing agreements
- **Public data access and quality**



Data
Standardization
and
Interoperability

- **Accurate** forest and plantation maps available
- Guidance for compliance with geolocation requirements

Legality and
consent

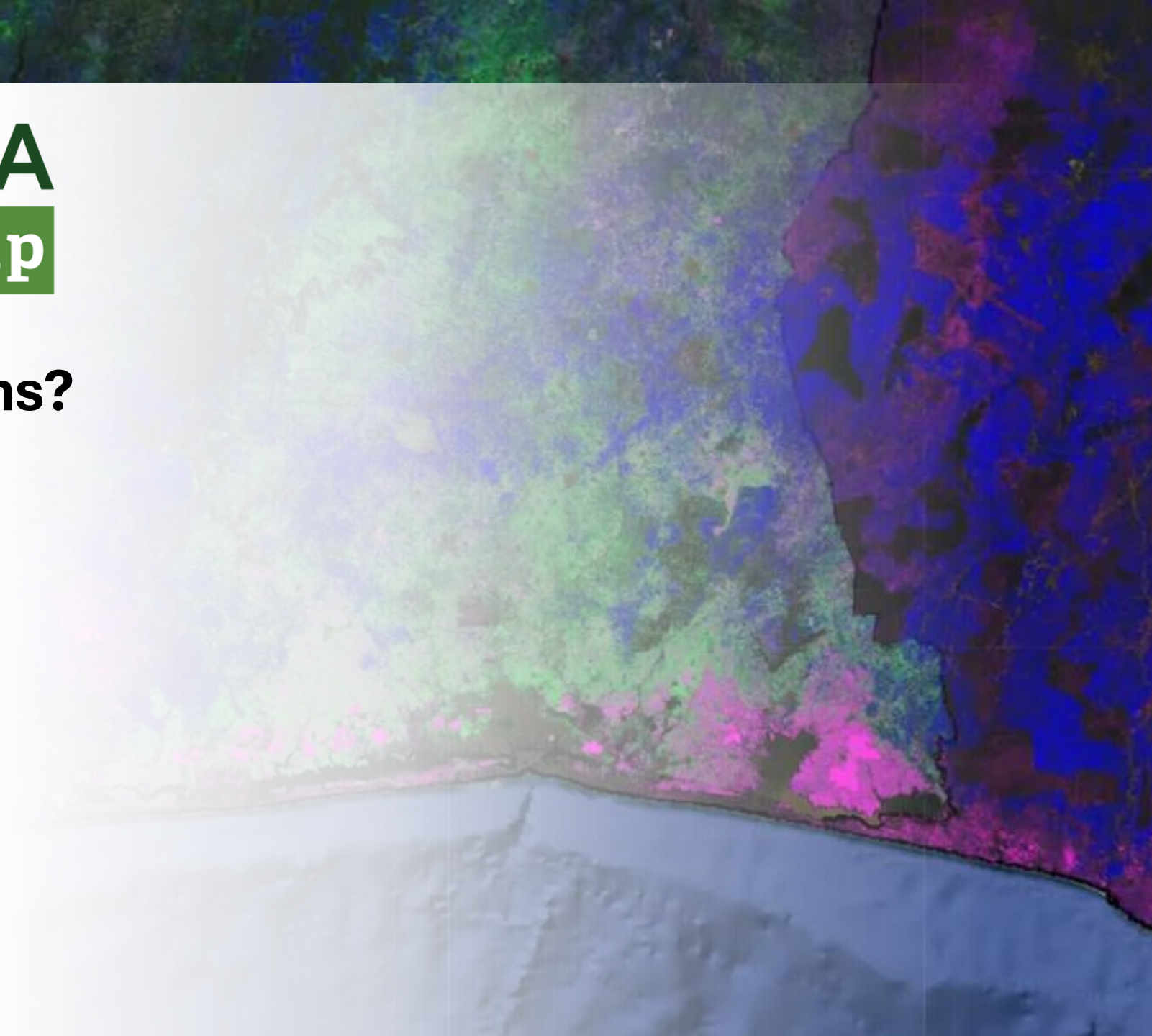
- **Legal compliance** difficult for farmers to prove legal production; land ownership and tenure considerations
- **Consent in data sharing**

Collaborative
Solutions to Data
Sharing

- **Government-private sector-smallholder** alignment on mandates for data sharing and validation
- **Country learnings:** different levels of success on country traceability models, use of platforms, blockchain, digital tools
- **Capacity building:** EUDR compliance (emphasis on geolocation)

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Thank you and Questions?



Data Standardization and Interoperability

- ❏ Standardization of typology and classes of information, boundary data, attributes
- ❏ Standardized procedures for collecting geolocation data
- ❏ Verification protocols/quality control
- ❏ Farmer training programs
- ❏ Jurisdictional traceability programs
- ❏ Regional data collection hubs

Data Authorship,
Management/Control,
Access

Consent Processes

Data Confidentiality
and Security

- ❏ Standard template of terms and conditions for geospatial data sharing
- ❏ Guidance for reviewing ethical, legal considerations for data sharing agreements and contracts
- ❏ Best practices based on examples of data sharing agreements
- ❏ Protocols (Integration of consent, authorized data access and secure sharing)
- ❏ Standard frameworks for land tenure classification

Collaborative Solutions for Data Sharing

- ❏ Recommendations on enabling conditions to enhance transparency, accountability and trust among supply chain actors in data landscape
- ❏ Successful models of cost sharing and incentives
- ❏ Processes and agreements to facilitate collective action for data sharing
- ❏ Interoperable data systems integrating public-private sector contributions & smallholder inclusion



Federal Ministry
for Economic Cooperation
and Development

Implemented by

giz Deutsche Gesellschaft
für Internationale
Zusammenarbeit (GIZ) GmbH

Thank you for joining !

See you at our next Lunchbreak in June.
The topic will be shared soon.