



2nd Round Table Meeting

31 Jan 23, 3-6 pm CET

INA Agenda



Time (CET)	Topic	Presenter / Host
3:00pm	Official Welcome	Silke Klöver, BMZ Andrea Burkhardt, INA / GIZ <i>Moderator: Leonhard Nima</i>
3:20pm	Setting the Scene	
	The new EU Deforestation Regulation - Implications for Traceability	Emanuele Pitto, European Commission, DG Environment
	Global perspectives – Spotlight on National Traceability Initiatives	Daniel Mbithi, Nairobi Coffee Exchange Michael Ekow Amoah, COCOBOD Ghana
4:00pm	Energy Break	
4:10pm	Status Quo & Progress Update DIASCA	Andreas Füßler, Niklas Kuhnert, GS1 Daniele Giovanucci, Liam Brody, COSA
4:45pm	Interactive Working Groups - Worldcafé	
	Group 1: Traceability	Niklas Kuhnert, GS1
	Group 2: Forest Monitoring	Liam Brody, COSA
	Group 3: Farmer Livelihoods & Income	Daniele Giovanucci, COSA
5:45pm	Summary & Outlook	Andreas Füßler, Niklas Kuhnert, GS1 Daniele Giovanucci, COSA Lars Kahnert, INA / GIZ
6:00pm	Closing & Networking	





Welcome by BMZ

Silke Klöver

Division 122 "Sustainable Agricultural Supply Chains, International Agricultural Policy, Agriculture, Rural Development, Innovation" German Federal Ministry for Economic Cooperation and Development (BMZ)





Welcome by GIZ / INA

Andrea Burkhardt

Head of Digitalisation Component, Initiative for Sustainable Agricultural Supply Chains (INA), GIZ





The new EU Deforestation Regulation – Implications for Traceability

Emanuele Pitto

International Relations Officer, European Commission, Directorate-General for Environment, F1 - Planetary Common Goods, Universal Values And Environmental Security



Regulation on deforestation- and forest degradation free supply chains



Context

- 420 million hectares of forest worldwide an area larger than the EU have been lost between 1990 and 2020 (FAO).
- A significant share of that forest loss is legal (Forest Trends.)
- Deforestation and forest degradation are important drivers of climate change (IPCC: 11% of GHG emissions) and biodiversity loss
- 90% of deforestation is provoked by the **expansion of agricultural land** (FAO), which is linked in particular to a series of commodities.
- The EU is a major consumer of commodities associated with deforestation and forest degradation.

Objectives of the Regulation

GENERAL

Minimise the EU's contribution to deforestation and forest degradation worldwide

(thus reducing global deforestation and forest degradation as well as greenhouse gas emissions and biodiversity loss)

Specific

Minimise risk that products from supply chains associated with deforestation / forest degradation are placed on the EU market or exported from it

Increase EU demand for and trade in legal and 'deforestation free' commodities and products



Legislative and implementation track

- November 2021: Commission proposal
- December 2022: Preliminary political agreement between EP and Council
- May-June 2023 (tentative): Entry into force
- December 2024 (tentative): Entry into application of obligations for operators (June 2025 for small enterprises)



Main elements [1]

- Mandatory due diligence rules for all operators that place the relevant products on the EU market or export them from the EU
 - Only products that are both deforestation-free and legal would be allowed on or exported from the EU market – need to be covered by a due diligence statement
 - Based on internationally-backed definitions (FAO)
 - Main obligations applicable to operators and non-SME traders
 - Strict traceability linking the commodity to the plot of land where it was produced
 - **Legality**: Products will need to be legal according to the laws of country of production, including applicable human and labour rights and free, prior and informed consent



Main elements [2]

- Commodities selected: Palm oil, soy, wood, cattle, cocoa, coffee, rubber and some derived products (e.g. chocolate, furniture, tyres, printed products)
- Non-discrimination: The Regulation applies both to domestically produced and imported commodities and derived products
- Progressive scope Initially covering selected commodities and derived products; to be updated regularly
- 'Cut-off date' of 31 December 2020: Aligned with UNSDG 15.2, aims to minimise disruption for smallholders and facilitate satellite monitoring



Main elements [3]

- Benchmarking system that will assign risk to countries or regions according to risk of deforestation – standard (by default), low and high
- Specific obligations for operators simplified due diligence for low-risk (still required to collect information, but not assess and mitigate risks)
- Minimum level of inspections for Member States authorities to perform (9%, 3% and 1%, depending on the level of risk)
- Review: Other wooded land (one year); other ecosystems, commodities, products and financial institutions (two years); others (five years)



Focus on traceability

- Operators to provide the **geolocation** of all plots of land where the product(s) were produced
- Definition of geolocation:

means "the geographical location of a plot of land described by means of latitude and longitude coordinates corresponding to at least one latitude and longitude point and using at least six decimal digits. For relevant commodities other than cattle, for plots of land of more than 4 hectares, the geographical location shall be provided using polygons, meaning sufficient latitude and longitude points to describe the perimeter of each plot of land."

Main elements [4]

Cooperation with partner countries:

- The Regulation is part of a broader set of policies laid out in the 2019 Communication on Stepping up EU Action to Protect and Restore the World's Forests
- Imports of the commodities and products covered EUR 85 billion / year
- No ban against any country or commodity
- The Commission will step up cooperation to ensure that EU partners are able to reap the benefits of new EU rules on deforestation
- The Commission will also intensify engagement with consumer countries such as China and USA as well as in international fora



Implementation tasks

- Information System: IT developments, Implementing Acts, up and running by the entry into application
- Benchmarking: Implementing act, running by the entry into application
- Guidelines: For operators and traders, for competent authorities, on certain definitions
- Review: Impact assessment and legislative proposal (when needed)
 - First review: Other wooded land (one year after entry into force, before entry into application)
 - Second review: Commodities, products, other ecosystems, financial institutions (two years after entry into force)
 - Third review: Smallholders, trade facilitation tools, degradation, circumvention, etc. (five years after entry into force)

Key takeaways

- The Regulation will have an impact on suppliers whether in the EU or abroad
- All relevant players need to get ready for application by the end of 2024 the fastest to adapt will enjoy a competitive advantage
- EU is ready to work closely with and support the partner countries' efforts to promote the transition to sustainable agricultural production, sustainable forest management and the development of transparent and sustainable supply chains.
- The Regulation is based on the following principles:
 - Transparency, accountability and sound scientific and methodological basis
 - Consistency with agreed international commitments, notably halting deforestation at the levels of December 2020 in line with SDG 15
 - Non-discrimination, as it equally treats domestic and imported commodities and products and covers both imports and exports.

Thank you!

Learn more here:

https://ec.europa.eu/environment/publications/proposal-regulation-deforestationfree-products en

https://data.consilium.europa.eu/doc/document/ST-16298-2022-INIT/en/pdf



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Global perspectives – Spotlight on National Traceability Initiatives

Daniel Mbithi

Chief Executive Officer, Nairobi Coffee Exchange

Michael Ekow Amoah

Deputy Director R&D, COCOBOD Ghana





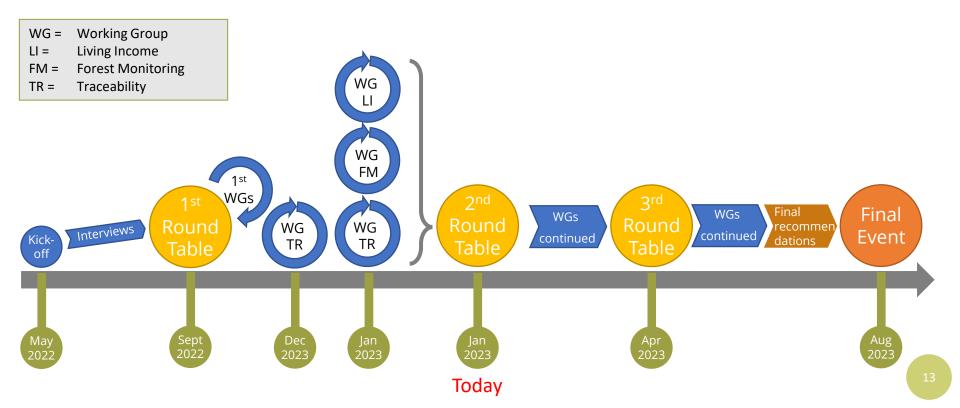
Status Quo & Progress Update DIASCA

Andreas Füßler
GS1 Germany
Niklas Kuhnert
GS1 Germany
Matthew Himmel
COSA
Liam Brody

COSA

INA Status Quo & Progress Update - Timeline -





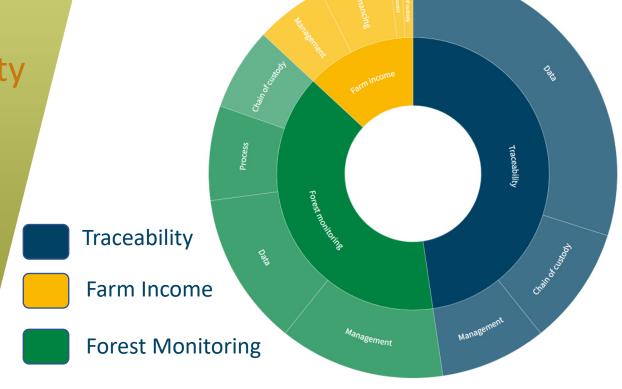
INA Status Quo & Progress Update







Research





Interoperability for Traceability Systems

Digital Integration of Agricultural Supply Chains Alliance (DIASCA)







The Collected Traceability Requirements

- Working Group 1 (Round Table 2022-09-07)
- Working Group 2 (2022-11-30)
- Working Group 3 (2023-01-16)

INA Traceability – WG 1 (Requested Characteristics)



- Identify and agree on global traceability attributes and data formats for established identification keys, common auto ID and information sharing. For interoperability reasons in multi-tier value networks one should build on existing standards.
- Start small in tracing complete supply chains to proof functionalities and improve trust. To achieve a
 relevant data amount and a substantial trust in data, the experts proposed a secure storage of data
 and their responsible dissemination by public or private services (e. g. trustee service, shared
 enterprise).
- A commitment of companies for data sharing is crucial which depends strongly on the benefits of conducting traceability for all stakeholders in a general trustworthy framework.

INA Traceability – WG 2 (Required Elements)



What needs to be identified:

- Actors
- Items
- Products
- Transport items

What basic Information do we need for traceability:

- The timestamp
- The location
- The Item / Product
- The Process Step

INA Traceability – WG 3 (Proposal+Discussion)



Proposal and Discussion on:

- Identification
 - Location
 - Products
 - Transport units
- Data Exchange



Global Language of Business for Seamless Communication



Identify:

Standards for Identification

Vocabulary

- worldwide unique

Capture:

Standards for Barcodes & EPC/RFID

Font

- commonly known

Share:

Standards for Data Exchange

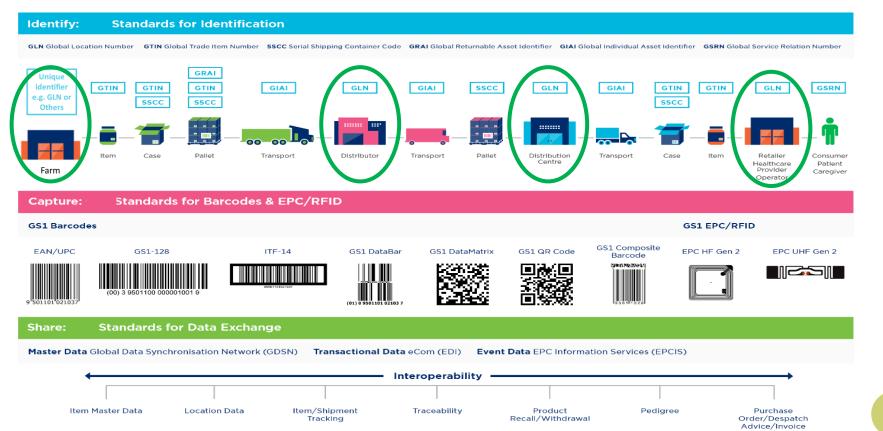
Grammar

- valid across systems

INA

Identification: GLN (Global Location Number) and Others





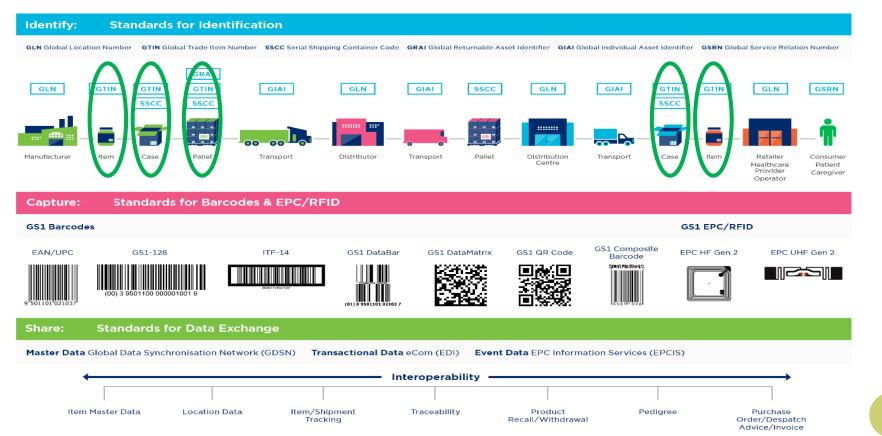
INA Identification of the Location





INA Identification: GTIN (Global Trade Item Number)





INA Global Trade Item Number (GTIN)



How to use GTINs

Global Trade Item Numbers (GTINs) uniquely identify products.

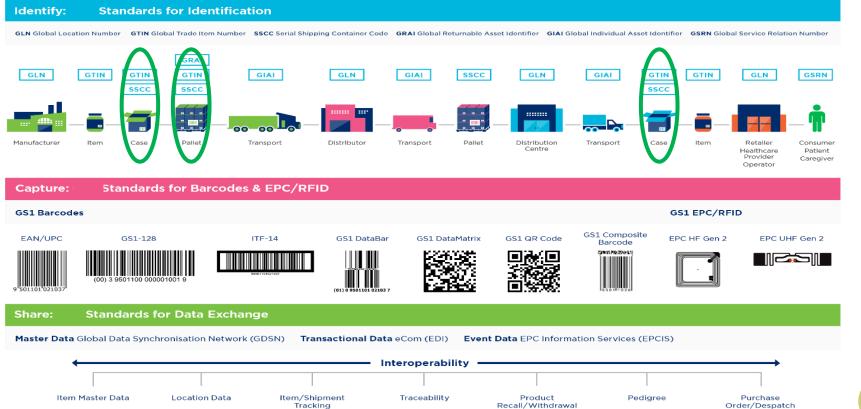
This information is embedded into a barcode, which can also hold extended product data, such as batch/lot number, enabling you to identify products, cases and pallets wherever they are in the supply chain.

Benefits

Standards optimise business processes, form brand loyalty and build the foundation for an efficient supply chain. The ability to uniquely identify products, cases and pallets globally also enables accurate and precise recalls, should they occur.

INA Identification: SSCC (Serial Shipping Container Code)





Advice/Invoice

INA Serial Shipping Container Code (SSCC)



How to use SSCCs

Global Trade Item Numbers (GTINs) and Serial Shipping Container Codes (SSCCs) are used to identify pallets and enable tracking of shipments. SSCCs are encoded into bar codes or EPC/RFID tags.

Benefits

Standards **improve visibility** in **product movement** and will help **verify the flow of goods** – both inbound and outbound.

INA

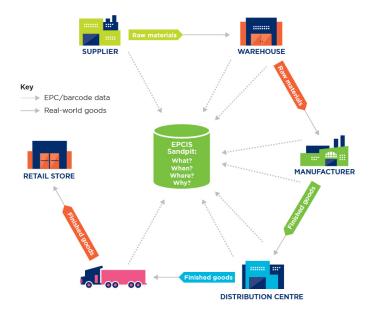
Share: EPCIS (Electronic Product Code Information Services)





INA EPCIS (centralized / decentralized)





PHYSICAL EVENT DATA WITH EPCIS

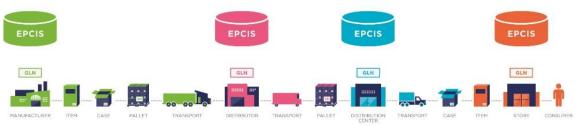
 WHAT GOES INTO EPCIS

 WHAT GTIN (5391234567892)

 WHERE GLN (5391234000009)

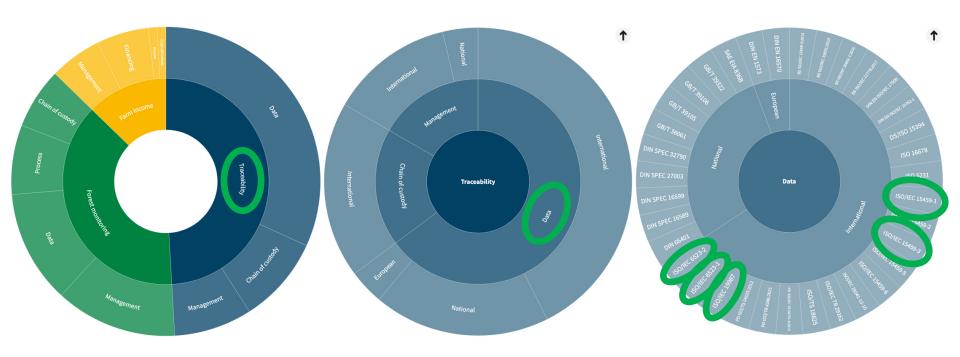
 WHEN Date & Time Stamp (2009-10-27 10:00:00)

 WHY Business Step (receiving)



INA Standards in Traceability Landscape by DIN







Interoperability of Sustainability Data A Blueprint for Better Supply Chain Data





The definition

Data Interoperability is the set of requirements for data systems or software applications to <u>access</u>, accurately <u>exchange</u>, <u>validate</u>, and make <u>use</u> of similar or related information.



Partnerships Benefit from Interoperability to Accelerate Impact

















An interoperability standard

must facilitate diverse data and rationales without sacrificing clarity or key details.

Therefore, the standard must provide wide-reaching categorization and taxonomy while permitting auditable addenda to be attached to tracking events, entities, and data elements.



Focal Areas

DIASCA will initially focus on:

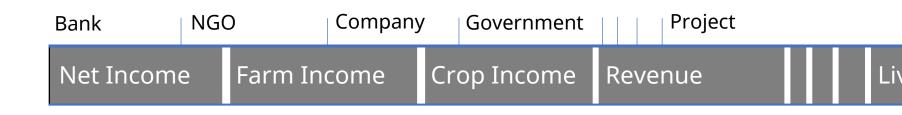
- Farmer Livelihood & Income (coordinated by COSA)
- Forest Monitoring (coordinated by COSA)
- **Traceability** (coordinated by GS1)

If you or your colleagues are interested in participating, let us know ASAP





If you gather, analyze, and structure data about the same topics but in different ways, it is impossible to compare, learn, and improve"

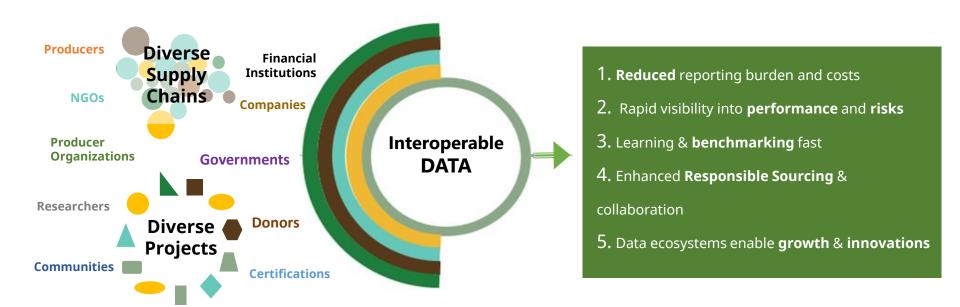


Data Interoperability provides considerable value





Interoperability Benefits: From contradictory to coherent





The 10 Step Process:

Building on tested principles and the experience of a high-level International Technical Advisory Panel



























3 Domains of interoperability

1. Semantic

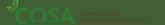
Definition of what is being measured with detailed taxonomy, meaning, and purpose of the indicators & metrics

2. Syntactic

Rules for how data is processed, arranged or coded, and reported

3. Structural

Format for how data is secured to be cross-functional and transmitted



Aligned with International & Normative References

- ✓ CITES Convention
- ✓ Convention on Biological Diversity
- ▼ FAO Rome Declaration on World Food Security
- **√** FAO GAP
- ✓ Global Compact UN
- ✓ Global Forum on Responsible Business Conduct
- ✓ IFC Performance Standards on Environmental & Social Sustainability
- ✓ ILO Core 8 Conventions
- ✓ International Covenant on Economic, Social and Cultural Rights
- ✓ International Plant Protection Convention
- ✓ OECD Agri-Environmental Indicators

- ✓ OECD-FAO Guidance: Responsible Agricultural Supply Chains
- ✓ Ramsar Convention on Wetlands
- ✓ Rio Declarations
- Stockholm Convention on Persistent Organic Pollutants
- ✓ Sustainable Development Goals
- ✓ UN Guiding Principles on Business and Human Rights
- ✓ UN Framework Convention on Climate Change
- ✓ Universal Declaration of Human Rights
- ▼ Winnipeg Principles
- ✓ WHO Guidelines for Water Quality
- ✓ and others…









The International Covenant on Economic, Social and Cultural Rights

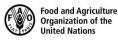














International Plant Protection Convention











International Technical Advisory Panel

Targeting and sampling

Data sources

Demographic Identifiers DEI

Methods

SMARTer Survey Creation

Data collection methods and data types

Validation approaches, rigor, quality

Archetypes to segment and identify drivers

Compliance vs. Sustainability Performance

Comparability factors and Aggregation

Governance, privacy, security



Basic Indicator Description

& Technical Representation

CALCULATION

FIELDS

DESCRIPTION

FIELDS		
5		

Description		
Data Subject		
Metric		
Unit		
Report Frequency or Timing		
Disaggregation & Segmentation		
Scientific Rationale		
Alignment to Goals or Reporting		
Benchmarking		
Performance Standard		
Limitations and Assumptions		
Calculation: NUMERATOR		
Calculation: DENOMINATOR		
Data Source		
Validations		
Subject of analysis		
Exclusion / Inclusion Criteria		
women = 0 totalFarmers = 0		

Indicator Name

Indicator ID/Code

Element/ Theme

Description

for farmer in farmers

if (farmer.frmGender = "FEMALE") then {

if (farmer trainings Attended > 0) then women 1 = 1

```
% of participants that complete trainings who are women
Expressed as percent of total people attending
Annually, can be updated as needed
Data can disaggregate by regional or municipal level to reduce naming duplications and determine target or focal areas.
Gender, Age, Education levels.
IFPRI, WEAI, US D.oL. FAO Gender Handbook. BMGF Gender
SDG 8; 8.1; 8.24
GRI v. 4 Section
ILO Core Principles, WEAI, IWCA, Oxfam Gender Index
Value of 0.5 indicates that the gender gap is close to zero (gender equity)
Detail any limitations of the synthesized approach
For each training conducted, the number of participants who are women
    For each training conducted, the total number of participants
Producer Database held by co-op, trader, exporter, or NGO:
FarmGender (Gender of farmer)
```

FarmGender: two options are valid-- "male" or "female" TrainingsAttended: a positive integer

Women's Participation in Training

Women attending and completing trainings

TrainingsAttended (Number of trainings attended)

Supply chain, program/project, PO or community level

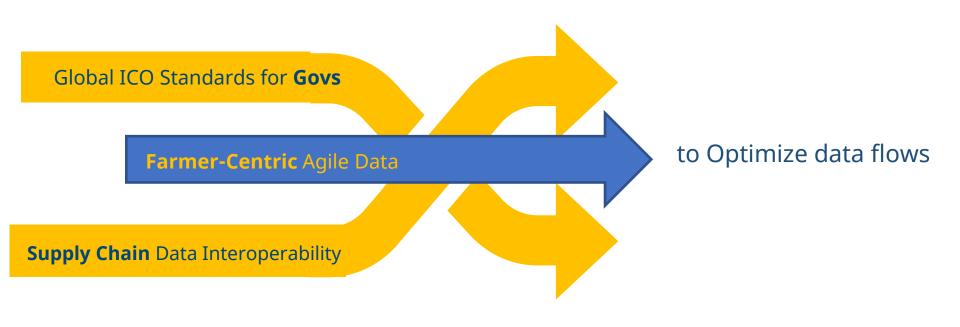
Farmers where frmGender is "FEMALE"
Farmers where trainingsAttended is greater than 0

Number X.X

Social/Gender



Solving from a **systemic** perspective = 3 elements







Next Steps

Now: Adding Data Scientists and Experts

Mid-February: Launch Reference Project Rwanda Collaboration

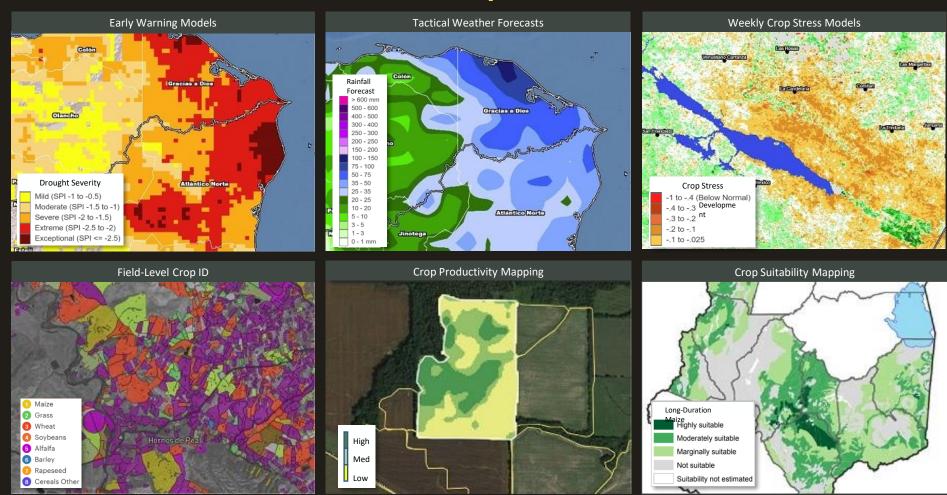
First Mondays: International Technical Advisory Panel 0900 – 1030 ET / 1500-1630 CET

Submit to: SC@ theCOSA.org



Deforestation as a Blueprint

What is Geospatial Data?







GEOSPATIAL DATA...

"...is information that describes **objects**, **events**, or other features with a **location** on or near the surface of the **earth**."

-IBM





Our Objective

The objective of the DIASCA workstream on geospatial data is to establish an interoperable data standard for monitoring deforestation.





Our Journey To Date

1st GLOBAL ROUNDTABLE

September 2022

Expert Interviews

September-December 2022

Geospatial Technical Advisory Panel Expert Survey

December 2023

Geospatial/Deforestation Income Technical Advisory Panel January 2023

2nd GLOBAL ROUNDTABLE

Today - January 2023





Progress We've Made

Semantic

October 2022 - February 2023

Syntactic

December 2022 - February 2023

Structural

Focus: February – May 2023

Adoption

Focus: March 2023 and beyond





Next Steps

Submit to: LB@ theCOSA.org

Now, Adding Data Scientists and Data Structuring Experts to TAP – Reach Out!

Mid-February, Launch Reference Project: Rwanda Collaboration (NAEB)

Late February, ITAP Monthly Meeting: Focus on Structure (doodle poll to follow)



diasca@giz.de

http://diasca.org

Im Auftrag des:



Durchgeführt von:





