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Assessing the Quantum Leap in Ag. Data: A Blueprint for Transformation

Challenge: Incompatible individual solutions





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
- \checkmark 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 OBAL FORUM



COMMITTEE ON WORLD FOOD

Convention on **Biological Diversity**

Stockholm Conventi

SECURITY





International **Plant Protection** Convention











SHARE: INTERFACE STANDARDS FOR ELECTRONIC COMMERCE

MASTER DATA Global Data Synchronization Network[™] (GDSN[®]) TRANSACTIONAL DATA Electronic Data Interchange (EDI) PHYSICAL EVENT DATA EPC Information Services (EPCIS)





A solution defined:

Data Interoperability is the capacity of different

information systems, devices, or applications to access,

exchange, validate, and integrate or use data, to provide timely

portability of shared information.



Bundesministerium für wirtschaftliche Zusammenarbeit und Entwicklung



Initiative für nachhaltige Agranieferketten











BILL& MELINDA GATES foundation











4 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 with fidelity

4. Governance

Sovereignty, Privacy, Security



Semantic example

Basic Indicator Description & Technical Representation

CALCULATION

SAMPLE

DESCRIPTION FIELDS	Indicator Name	Women's Participation in Training
	Indicator ID/Code	Number X.X
	Element / Theme	Social/ Gender
	Description	Women attending and completing trainings in specified topic areas for specified times
	Data Subject	Capacity building; Gender Inclusion, Empowerment
	Metric	% of participants that complete trainings who are women and correlation to key outcomes (yield, income, efficiency, decision-making
	Unit	Expressed as percent of total people attending
	Report Frequency or Timing	Annually, can be updated as needed
	Disaggregation & Segmentation	Data can disaggregate by regional or municipal level to reduce naming duplications and determine target or focal areas. Gender. Age, Education levels,
	Scientific Rationale	IFPRI, WEAI, US D.oL. FAO Gender Handbook. BMGF Gender Program
	Alignment to Goals or Reporting	SDG 8; 8.1; 8.24 GRI v. 4 Section
	Benchmarking	WEAI, IWCA, ILO Core Principles; Oxfam Gender Index
	Performance Standard	Value of 0.5 indicates that the gender gap is close to zero (gender equity)
	Limitations and Assumptions	Detail any limitations of the synthesized approach
FIELDS	Calculation: NUMERATOR	For each training conducted, the number of participants who are women
	Calculation: DENOMINATOR	For each training conducted, the total number of participants
	Data Source	Producer Database held by co-op, trader, exporter, or NGO: FarmGender (Gender of farmer) TrainingsAttended (Number of trainings attended)
	Validations	FarmGender: two options are valid "male" or "female" TrainingsAttended: a positive integer
	Subject of analysis	Supply chain, program/ project, PO or community level
	Exclusion / Inclusion Criteria	Includes: Farmers where frmGender is "FEMALE" Farmers where trainingsAttended is greater than 0
CODING	women = 0 totalFarmers = 0	
	for farmer in farmers { if (farmer frmGender = "EFMALE") then {	
	if (farmer.trainingsAttended > 0) then women += 1	
	totalFarmers += 1	
	print women/tetalEarmare	



Solving from a systems perspective in 3 dimensions



Thank You

