Interoperability in Action: Workshop #4

Social Protection Information System Interacting with Farmer Registry

Digital Convergence
USP2030

Veronika Wodsak
Social Protection Policy Specialist
International Labour Organization (ILO)

Agenda

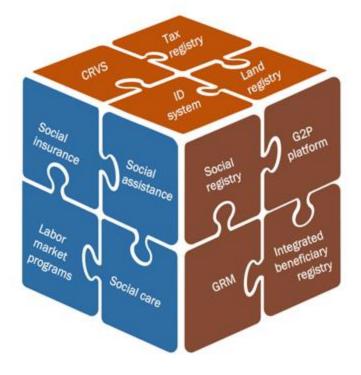|	
12:00–12:10	**Welcome & Context Setting**
12:10–12:40	**Integration of SP-MIS, Farmer Registry (Presentation & Demonstration)**
12:40–13:30	**Lightning talks (Angola, India, Kenya, Lebanon and FAO)**
13:30–13:50	**Open Discussion**
13:50–14:00	**Conclusion**

Digital
Convergence
USP2030

The Digital Convergence Initiative (DCI)

A joint effort by USP2030 members and non-members, governments, development partners and private sector towards creating a harmonized and interoperable digital ecosystem for social protection

Building consensus-based standards for interoperability to

- **foster an ecosystem for innovation** by ICT solution providers to build products that are interoperable, easy to use, integrate, maintain and scale

- **reduce time and costs** of developing solutions at the country/program level

- enable programs and countries to **mix and match different components** from different suppliers

- **ensure that systems are future-proof by design**, regardless of current levels of policy and information systems maturity

Interoperability in Action

Workshops series by DCI to demonstrate live interoperability of SP-MIS with other systems for effective and efficient delivery of Social Protection (SP) programs.

Deep dive into one interface showcasing SP system interaction with other systems (like payment, CRVS, ID, Farmer Registry)

- share the understanding of process workflow, data elements, and technical APIs that are required for interoperability.
- create awareness on the benefits of interoperability through use-cases
- demonstrate live the interoperability using digital public goods for some use cases
- hear from the stakeholders and subject matter experts on the topic

Interoperability in Action – Past workshops
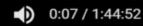
Steering Committee - Digital Convergence Initiative
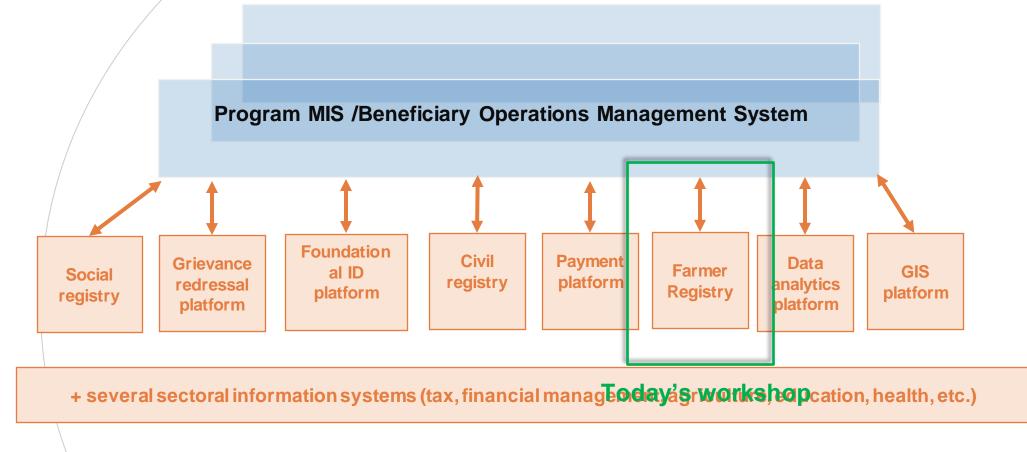
Systems at Play for SP Program Delivery

Anita Mittal

Senior Advisor, Digital Convergence Initiative,
GIZ

Farmer registries and social protection information systems :
Harnessing interoperability to improve outcomes for rural populations
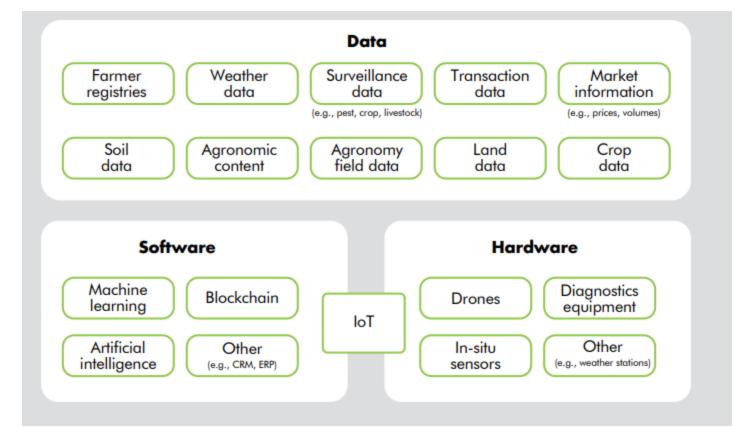
- Increasing use of **farmer registries –**for supporting the development and delivery of tailored and differentiated programs to small-scale food producers and vulnerable rural populations.

- Increasing use of **Social protection systems** (social registry, MIS, and integrated beneficiary registry) for delivery of social protection to the poor and the vulnerable.

- Recent experiences across a range of countries highlight how the two information systems serving the agricultural and social protection sectors can 'speak' to each other to maximise mutual benefits and enable better support to smallholder farmers and other groups.

FAO and GIZ recently published a paper on

"Farmer registries and social protection information systems -Harnessing interoperability to improve outcomes for rural populations "

Farmer registry and related systems

Data

| Farmer registries | Weather data | Surveillance data (e.g., pest, crop, livestock) | Transaction data | Market information (e.g., prices, volumes) |
| Soil data | Agronomic content | Agronomy field data | Land data | Crop data |

Software

| Machine learning | Blockchain |
| Artificial intelligence | Other (e.g., CRM, ERP) |

IoT

Hardware

| Drones | Diagnostics equipment |
| In-situ sensors | Other (e.g., weather stations) |

Type of data collected and managed - ranges widely but may include:

a) *Demographic and basic socio-economic data on farmers and their households*: *Land and livestock holding data*:

b) land parcel ownership, rental and use; permits/access rights (e.g. for fishing); animal/livestock ownership; machinery ownership; access to irrigation; where possible (via satellite imagery etc) information on land degradation, crop condition monitoring and yield forecasting.

Digital Convergence USP2030

Farmer Registry interoperability with Social Protection systems
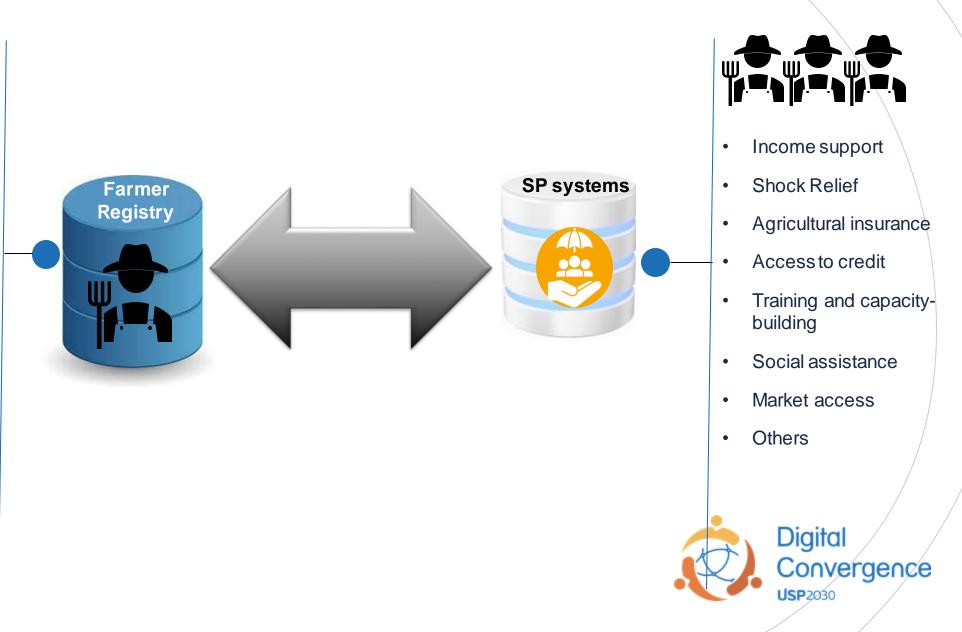
Social protection delivery to farmers leveraging interoperability

- Demographic and basic socio-economic data on farmers and their households:
  - ❏ Age / Education / Occupation / Livelihood / Disability status / Income

- Land and livestock holding data:
  - ❏ Land parcel ownership, rental, and use / Permits (e.g., for fishing) / Animal / livestock ownership /crop condition monitoring)

Farmer Registry

SP systems

- Income support
- Shock Relief
- Agricultural insurance
- Access to credit
- Training and capacity-building
- Social assistance
- Market access
- Others

Digital Convergence
USP2030

Country Briefs

Lebanon

In the absence of a national social registry, the farmer registry, by identifying farmers and fishers in need complements Ministry of Social Affairs efforts to enhance this population group's access to social safety nets

Brazil

1. Farmer registry linkage with Cadastro Único social registry to determine poverty status.

2. Interoperability between Brazil's National Social Security Institute and farmer registries enables small land owners to prove a reduced contributory time to qualify for age-based retirement

Chile

National Institute for Agricultural Development (INDAP)) pulls social protection data from Social information Registry to inform eligibility for its 18 different programmes by linking data to its farmer registry

India (Karnataka state)

Farmer Registry data – in conjunction with other information systems sharing data including Kutumba (SP info system) were used to determine automatic eligibility of farmers' children for scholarships.

Farmer registry can leverage payment systems and other system integrations via Kutumba

Interoperability in Action: The Team

Komal Malhotra

Rajdeep Randhava

Dhananjay Chauhan

Lena Blind

Krishan Bhardwaj

Parth Dandavate

Apoorva Sharma

Shiffali Singla

Preet Pal Singh

Diya Gouchwal

USP2030

Use Case Discussion

1 Farmer Shock Relief Program

2 Farmer e-Voucher Issuance Program

3 Farmer Child Scholarship Program
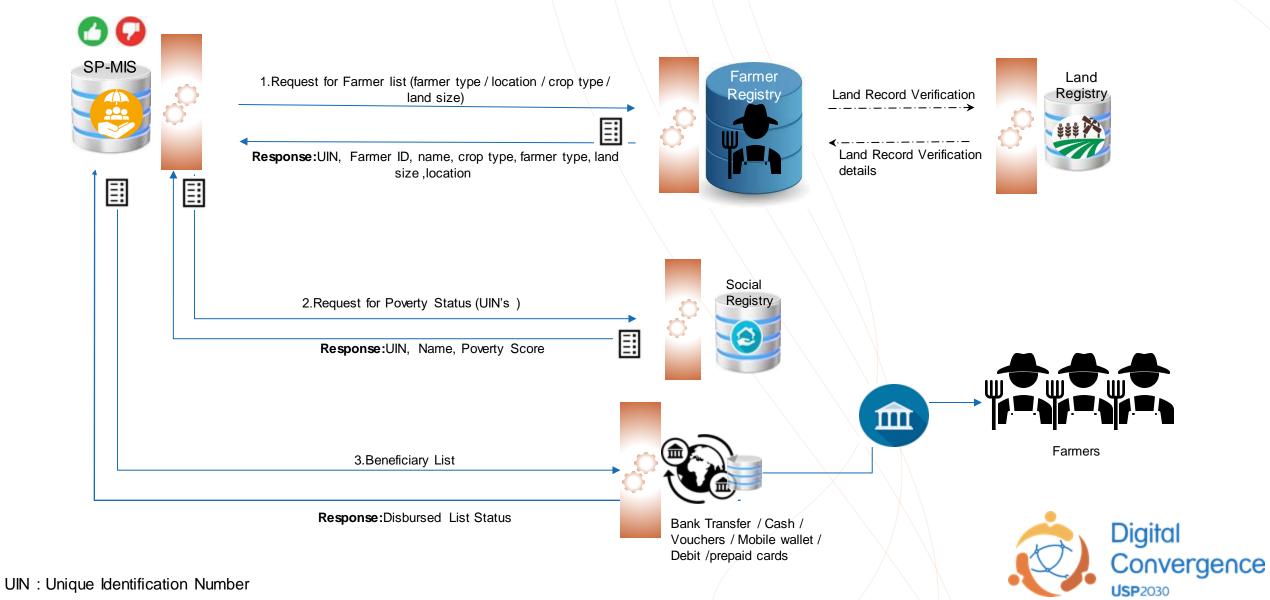
1 Farmer Shock Relief Program

Farmer Shock Relief Program

SP-MIS

Farmer Registry

Land Registry

1.Request for Farmer list (farmer type / location / crop type / land size)

Response:UIN, Farmer ID, name, crop type, farmer type, land size ,location

Land Record Verification

Land Record Verification details

Social Registry

2.Request for Poverty Status (UIN's)

Response:UIN, Name, Poverty Score

Farmers

3.Beneficiary List

Response:Disbursed List Status

Bank Transfer / Cash / Vouchers / Mobile wallet / Debit /prepaid cards

UIN : Unique Identification Number

References Studied: India, Philippines, Ethiopia, Brazil, Belize, Colombia

Digital Convergence USP2030

Sandbox Environment

Sandbox Environment

SP-MIS System
(Farmer Shock Relief Program)

API Gateway (Spring Cloud Gateway)

Farmer Registry adapter

Sends search request and receive list of farmers

Farmer Registry

Sends ID Number and receives details for Eligibility check

Social-Registry adapter

Social Registry

Sends ID Number and transaction details for disbursement

mojaloop

Digital Convergence
USP2030

Demonstration

2 Farmer e-Voucher Issuance Program
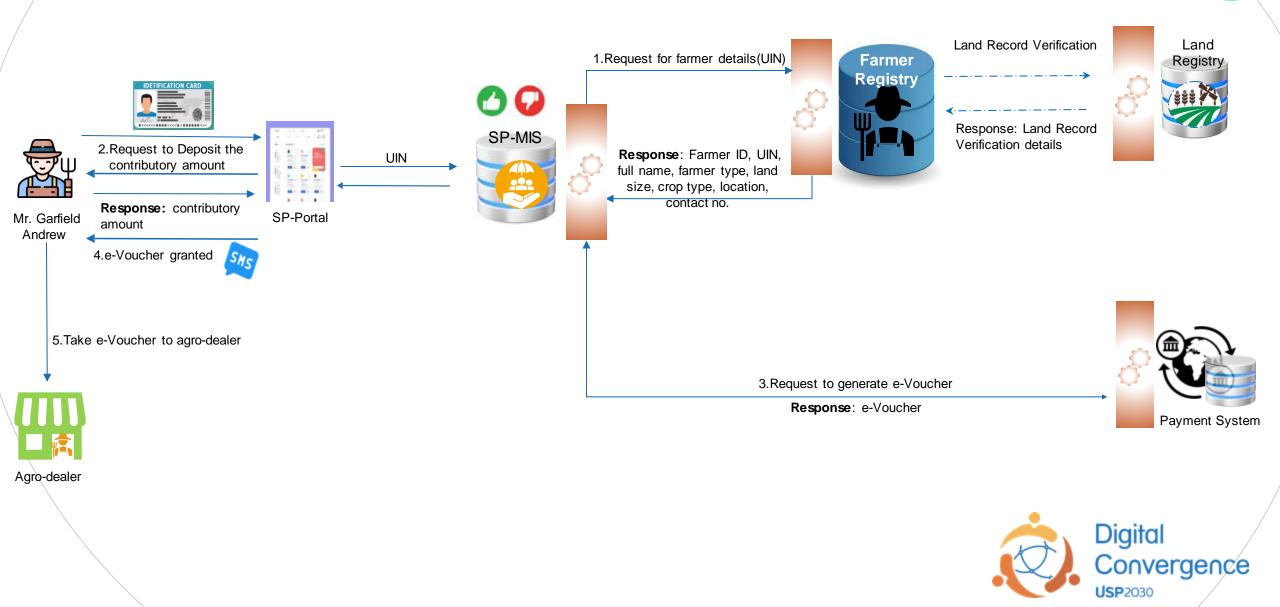
Farmer e-Voucher Issuance Program

Country referred which include e-voucher program for farmers - Zimbabwe, Malawi, Zambia, Uganda, Kenya, Tanzania and others
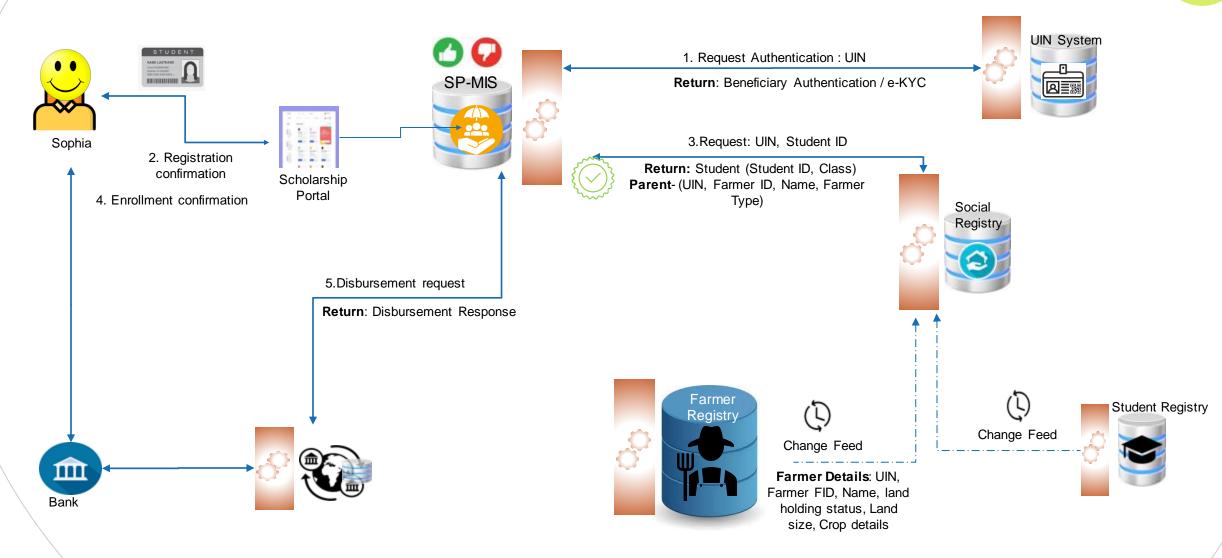
Demonstration

3 Farmer Child Scholarship Program

Farmer Child Scholarship Program

UIN System

1. Request Authentication : UIN

Return: Beneficiary Authentication / e-KYC

SP-MIS

3. Request: UIN, Student ID

Return: Student (Student ID, Class)
Parent- (UIN, Farmer ID, Name, Farmer Type)

Sophia

2. Registration confirmation

Scholarship Portal

4. Enrollment confirmation

Social Registry

5. Disbursement request

Return: Disbursement Response

Bank

Farmer Registry

Change Feed

Change Feed

Student Registry

Farmer Details: UIN, Farmer FID, Name, land holding status, Land size, Crop details

UIN: Unique Identification Number

Reference studied : India

Standards

Data Standards, Code Directories and APIs

Sample Data Standards and Code Directories

Name	Cardinality	Type	Code Directory
Identifier type	0..1	Code	
Identifier value	0..1	string	
Person Name	0..*	HumanName	
Contact Number	0..*	ContactPoint	
Gender	0..1	Code	CD04
Occupation	0..1	Code	CD99
Land Information	0..*	LandInfo	
Location	0..*	Address	
Farmer Type	0..1	Code	
		Code	CD10
…… More to the list			

Farmer Type (Code Directory)

Crop Type(Code Directory)

Crop Type (Code Directory)		
Code Directory	**Name**	**Values**
CD10	Crop Type	Food Crops Feed Crops Fiber Crops Oil Crops Ornamental Crops Industrial Crops

Farmer Type(Code Directory)		
Code Directory	**Name**	**Values**
CD08	Farmer Type	Marginal Small Medium Large Sharecropper Tenant Owner landless

Convergence
USP 2030

Farmer Registry - Search API

URL	{host}/v1/search	Method	POST
Headers	Authorization: Bearer (JWT Access Token)	Content-Type	application/json

Request

```
{
"transaction_id": "0c96614c-7255-4774-b109-cd53ee851769",
"filtergroups": [
  {
    "groupid": "A",
    "fields": [
      {
        "fieldname": "croptype",
        "operator": "equals",
        "value": "foodcrop",
        "nextfieldoperator": "and"
      },{
        "fieldname": "region",
        "operator": "equals",
        "value": "south-east",
        "nextfieldoperator": ""
      } ]
  } ],
"sortby":
  { "fieldname": "name.first_name", "order": "asc" },
"pagination": { "page_size": 10,   "page_number": 5  }
}
```

Requirements

Crop type=foodcrop

region=south-east

Response

```
{
"success": "true",
"return_message": "Data retrive successfully",
"transaction_id": "",
"data": [
    {
        "identifier": [
            { "type": "NATIONAL_ID", "value": "345678912"},
            { "type": "FARMER_ID", "value": "IN-DL-23-000456"}
        ],
        "name": {
            "suffix": "",
            "first_name": "Rosy",
            "last_name": "Lee",
            "middle_name": "",
            "prefix": ""
        },
        "region": "south-east",
        "farmer_type": "small",
        "crop_type": "foodcrop"
    }]
}
```

e-Voucher Creation Request - API

URL	{host}/evoucher/generate	Method	POST
Headers	Authorization: Bearer (JWT Access Token) with other headers	Content-Type	application/json

Request

```
{
    "request_id":"0c96614c-7255-4774-b109-cd53ee851769"
    "beneficiary_id": "34569818",
    "program_id": "evoucher_123",
    "issuer_id": "evoucher_issuer",
    "requested_at": "2023-04-23T15:20:00",
    "payment_system": "Moja_payment",
    "amount": " 2000",
    "currency": " ",
    "expiration_date": "2023-07-27"
}
```

Response

```
{
    "beneficiary_id": "34569818",
    "program_id": "evoucher_123",
    "evoucher_number": "75839380039548",
    "issuer_id": "evoucher_issuer",
    "generated_at": "2023-04-23T15:21:00",
    "payment_system": "Moja_payment",
    "status":"generated",
    "amount": "2000",
    "currency": " ",
    "expiration_date": "2023-07-27 "
}
```

e-Voucher Issuance to Farmer - API

URL	{host}/evoucher/issue	Method	POST
Headers	Authorization: Bearer (JWT Access Token)	**Content-Type**	application/json

Request	Response

{
"evoucher_number":"75839380039548",
"beneficiary_id": "34569818",
"program_id": "evoucher_123",
"issuer_id": "evoucher_issuer",
"issued_at": "2023-04-23T15:55:00",
"payment_system": "Moja_payment",
"expiration_date": "2023-07-27"
}
	{
	
	"issuance_id":"12400021".
	"evoucher_number":"75839380039548",
	"status":"success"
	"response_message":"evoucher issued"
	
	}

Country Inputs: Angola

Country Inputs: Angola

Izabela Leao
Senior Rural Development Specialist
Agriculture & Food Global Practice
World Bank
Washington DC

Emma Monsalve
Social Protection Specialist
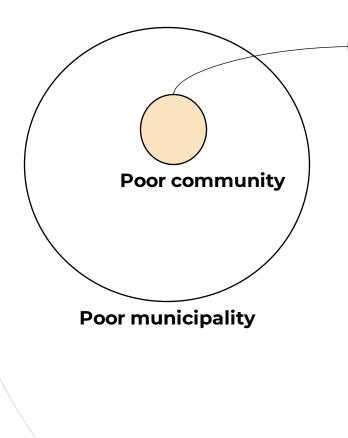World Bank
Angola

Digital Convergence
USP2030

Country Context

- **Growth:** Angola is the third largest economy in Africa and first largest oil producer. Economic growth in Angola has accelerated since 2021, thanks to high oil prices and increasing dynamism in non-oil sectors.

- **Agriculture:** the fifth largest sector in Angola, provides 46% of the country's employment, and contributed an estimated 8.5% to GDP in 2021. The agriculture and fisheries sector provides the main source of income to 90% of the 10.7 million Angolans living in rural areas. About 33% of agricultural households are headed by women, who are responsible for 70% of traditional subsistence agriculture and 24% of commercial agriculture.

- **Poverty:** Poverty rate (at $2.15 per day) is 32.7%. The number of people living in poverty has continued to grow annually and is expected to exceed 11.7 million people in 2023.

- **Human capital:** The 2020 Angola Human Capital Index (HCI) stands at 0.36, the same level as in 2017. This is below the average for SSA Countries, which is 0.40.

About Kwenda* Registry (Integrated Social Protection Information System)

Poor community

Poor municipality

House-to-house registration of all households

- Identification (biodata, biometrics);
- GPS coordinates
- Housing conditions, access to services, names and demographic details on all household members
- Types of vulnerabilities (chronic illness, etc.)
- Literacy/ education
- Livelihoods and employment

Registry (Sistema de Informação Integrado de Protecção Social, SIIPs)

- Managed by FAS-IDL in Ministry of Territorial Administration

- Coverage: 1 million rural households

- Linked to integrated social action program database (SIGAS) in the Ministry of Social Action, Family and Empowerment of Women (MASFAMU)

Kwenda (IBRD US$320 million and US$100 million from GoA: provides cash transfers to poor and vulnerable households while establishing the key building blocks of a comprehensive social assistance program.

Digital Convergence
USP2030

About Angola's National Producers' Registry System (Registro Nacional do Produtor Agropecuário – RNPA)

(to be established under the Angola Smallholder Agricultural Transformation Project* in 2023)

On-farm Registration of Interested Producers

Small Producers in Selected Municipalities

- Identification (biodata, biometrics);
- Assignment of a NFC Producer Card with unique ID;
- Housing and Farm GPS coordinates;
- Farming activities;
- Link with SEGI;
- Link with RNIA;
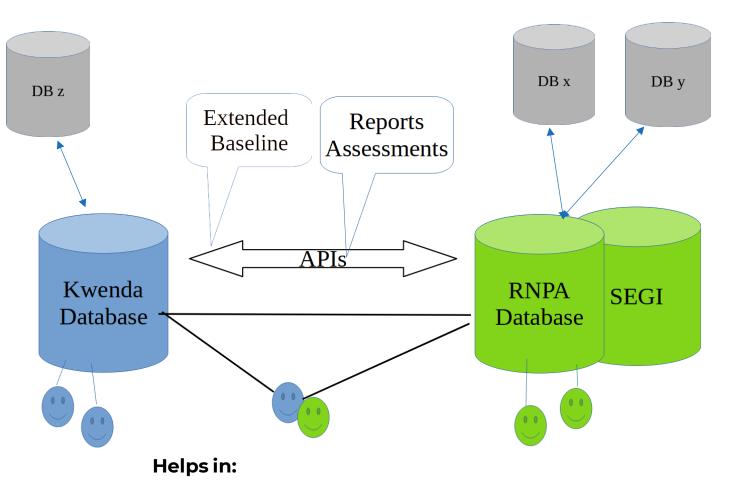- Exchange with other GoA databases (including other WB-projects).

Cartão Nacional de Produtor

Dados de identificação

Localização do

NIU: **123456789**

A informação não deve expôr o titular a discriminação, perfil ou exclusão social.

Angola Smallholder Agricultural Transformation Project (IBRD US$300 million: aims at increasing agricultural productivity and at promoting climate resilience for smallholder farmers.

Digital Convergence USP2030

Interoperability with the SP systems

Linking IDs

Database Relational Table		
Kwenda	RNPA	Nat. ID
1834343	64334543	6HG684
7643738	84836222	
8473636	66842531	7JR8732
3273828	65463829	8U3994E

Puts in relation the various databases and compensates the absence of national ID though does not replace it.

Helps in:

targeting beneficiaries;
reducing identity frauds;
increasing impacts;
providing enhanced baselines;
creating bridges between DBs.

Digital Convergence USP2030

Country Inputs: India

Government of Karnataka, India

Annapurna K.
Programme Director
Kutumba

Shakeel Ahmed
Project Director
FRUITS

Country Context

- India is a Agriculture predominant country
  - ≈ 60% of working population is engaged in Agriculture sector

- Farmers are engaged in multifarious activities like
  - Agriculture
  - Horticulture
  - Sericulture (silk rearing)
  - Animal Husbandry and fisheries

- In the federated system, Agriculture is state subject

- Both Union Government and state government implement several programmes to promote agriculture and support farmers.
  - Have established specialised department
  - Farmers need to visit each department to get the benefits & services
  - A unified IT system helps both government and the farmers

FRUITS – Farmer Registry

FRUITS
(Farmer Registration and Unified beneficiary InformaTion System)
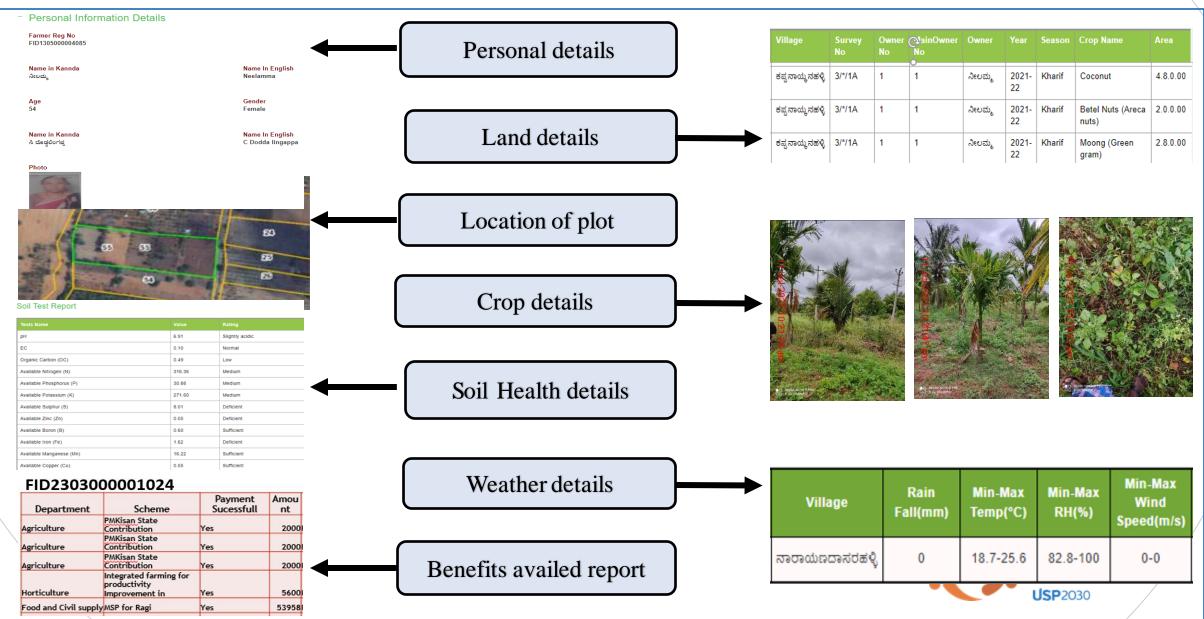
Registration based on Aadhaar

Unique Farmer ID (FID) for each Farmer
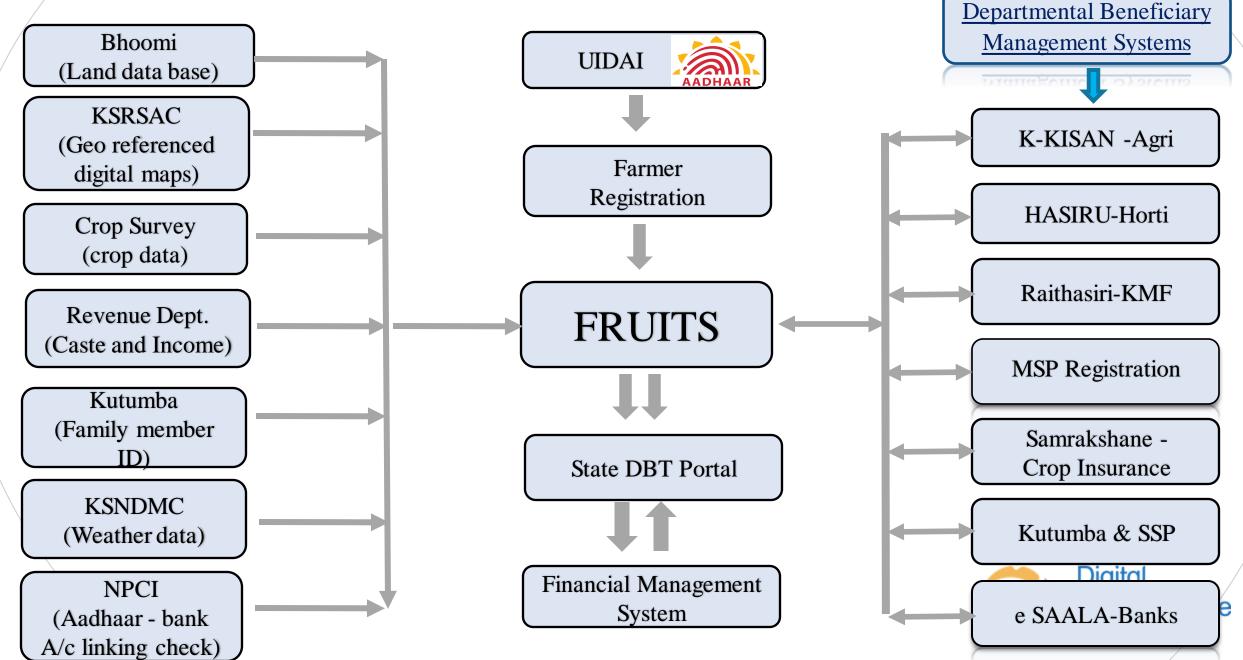
All attributes of farmer attached to FID

Land Owning and Landless Farmers

FRUITS – What it contains?

Personal Information Details

Farmer Reg No
FID1305000004085

Name in Kannda	Name In English
ನೀಲಮ್ಮ	Neelamma
Age	Gender
54	Female
Name in Kannda	Name In English
ಸಿ ದೊಡ್ಡಲಿಂಗಪ್ಪ	C Dodda lingappa

Photo

Soil Test Report

Tests Name	Value	Rating
pH	6.91	Slightly acidic
EC	0.10	Normal
Organic Carbon (OC)	0.49	Low
Available Nitrogen (N)	316.36	Medium
Available Phosphorus (P)	30.88	Medium
Available Potassium (K)	271.60	Medium
Available Sulphur (S)	8.01	Deficient
Available Zinc (Zn)	0.05	Deficient
Available Boron (B)	0.60	Sufficient
Available Iron (Fe)	1.82	Deficient
Available Manganese (Mn)	16.22	Sufficient
Available Copper (Cu)	0.55	Sufficient

FID2303000001024

Department	Scheme	Payment Sucessfull	Amount
Agriculture	PMKisan State Contribution	Yes	2000
Agriculture	PMKisan State Contribution	Yes	2000
Agriculture	PMKisan State Contribution	Yes	2000
Horticulture	Integrated farming for productivity Improvement in	Yes	5600
Food and Civil supply	MSP for Ragi	Yes	53958

Personal details

Land details

Location of plot

Crop details

Soil Health details

Weather details

Benefits availed report

Village	Survey No	Owner No	MainOwner No	Owner	Year	Season	Crop Name	Area
ಕಪ್ಪನಾಯ್ಯನಹಳ್ಳಿ	3/*/1A	1	1	ನೀಲಮ್ಮ	2021-22	Kharif	Coconut	4.8.0.00
ಕಪ್ಪನಾಯ್ಯನಹಳ್ಳಿ	3/*/1A	1	1	ನೀಲಮ್ಮ	2021-22	Kharif	Betel Nuts (Areca nuts)	2.0.0.00
ಕಪ್ಪನಾಯ್ಯನಹಳ್ಳಿ	3/*/1A	1	1	ನೀಲಮ್ಮ	2021-22	Kharif	Moong (Green gram)	2.8.0.00

Village	Rain Fall(mm)	Min-Max Temp(°C)	Min-Max RH(%)	Min-Max Wind Speed(m/s)
ನಾರಾಯಣದಾಸರಹಳ್ಳಿ	0	18.7-25.6	82.8-100	0-0

USP2030

FRUITS - Framework

Use Cases -
Entitlement based assistance Covid related relief

- Farmers affected due to Covid-19 related lockdown - Selected crops

- No application or documents sought.
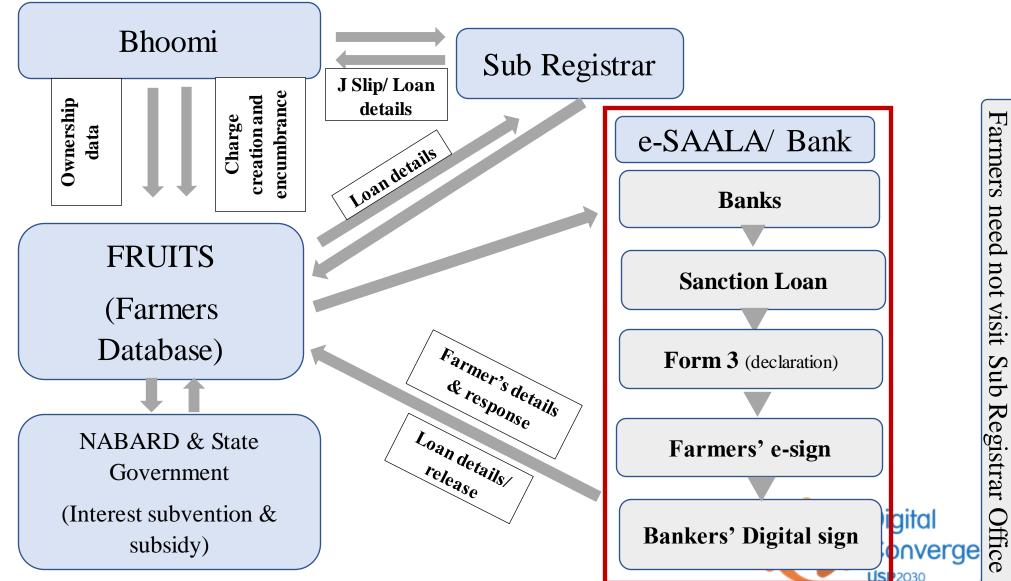
- Requirement of budget arrived at in hours.

- List of farmers generated in FRUITS based on Crop Survey data

- List made available to concerned departments' IT applications.

- Payment based on Aadhaar - DBT

- > 11 Lakh beneficiaries – ₹ 555 crores

Flower Growers List

Flower Growing Farmer List

SNo	Farmer ID	Name	Caste	Crop	Objection Status	Process
1	FID2005000003981	M S RAJANNA	Others	Rose (Gulab)	No	Process
2	FID2005000007089	MUNISHAMAPPA	SC	Rose (Gulab)	No	Process
3	FID2005000000149	Girijamma	Others	Rose (Gulab)	No	Process
4	FID2005000000149	Girijamma	Others	Rose (Gulab)	No	Process
5	FID2005000003981	M S RAJANNA	Others	Rose (Gulab)	No	Process

Processing in departmental application (HASIRU)

Personal Details

Farmer ID:
FID2006000004838

Father Name:
CHIKKAMUNISHAMAPPA

Caste:
8T

Farmer Type:
Margin Farmer

Name:
ANIL KUMAR

Father Name In I
ಚಿಕ್ಕಮುನಿಶಾಮಪ್ಪ,

Specially Abled:
No

Mobile Number:
8663367121

RTC Owner Data

☐ ALL	District	Taluk	Hobli	Village	Survey No	Owner	Crop	Crop Surv
☐ .	ಬೆಂಗಳೂರು ನಗರ	ಯಲಹಂಕ	ಜಾಲ	ಮೇಡಿಹಳ್ಳಿ	35/*13	ಸಿ. ಆನಿಲ್ ಕುಮಾರ್.	ಗುಲಾಬಿ	0.10.4.00

Scheme Details

Scheme
Comprehensive Horticulture Development

Component
Incentives to Flower Growing Farmers

Assistance Amount:
Rs. 2562.00

Reject Reason

Crop Details

District	Taluk
ಬೆಂಗಳೂರು ನಗರ	ಬೆಂ

Crop Details of each Plot

Agriculture Credit – Using FRUITS
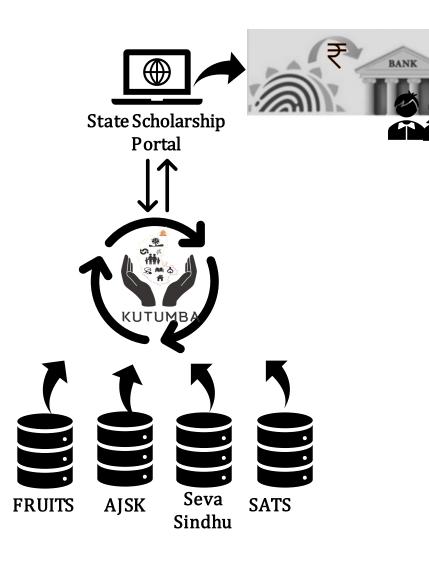
Scholarship Programs using Kutumba and FRUITS

State Scholarship Portal

BANK

KUTUMBA

FRUITS AJSK Seva Sindhu SATS

Vidya Nidhi

Educational Assistance to children belonging to families engaged in Agriculture & Allied Activities

1. Raita Vidya Nidhi - children belonging to farming families
2. Scholarship to children of agricultural labourers
3. Scholarship to children of families engaged in fishing.
4. Scholarship to children of families engaged in livestock/dairying

1+ million students benefitted till date

Digital Convergence
USP2030

Country Inputs: Kenya
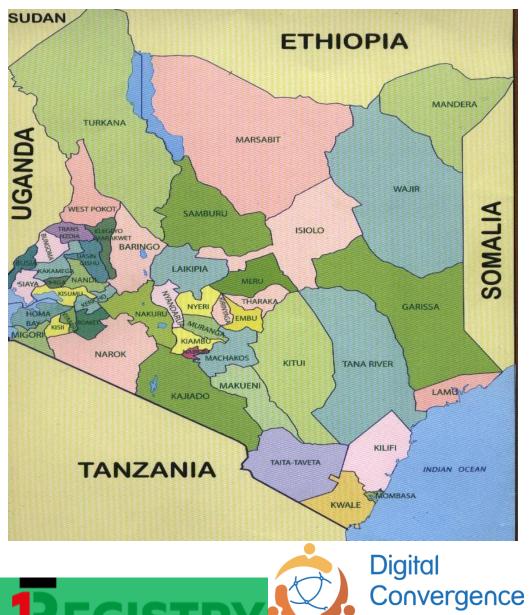
Stefanie Bitengo
Programme Coordinator
National Social Protection Secretariat of Kenya

Country Context - Kenya's Enhanced Single Registry (ESR)

- Size in Kilometres² - 580,367

- Population: 47,564,296 (Male 23,548,05, Female 24,014,716 & Intersex 1,524)

- National Poverty rate: 36.6% (KIHBS, 2015/16)
    - ✓ Urban poverty rate: 29.4%
    - ✓ Rural Poverty rate: 40.1%
    - ✓ Extremely poor: 8.6%
    - ✓ National food poverty level: 32% (14.5m)

- Ginni coefficient: 0.445 from (*0.485 in 2005*)

About The ESR

What **?**

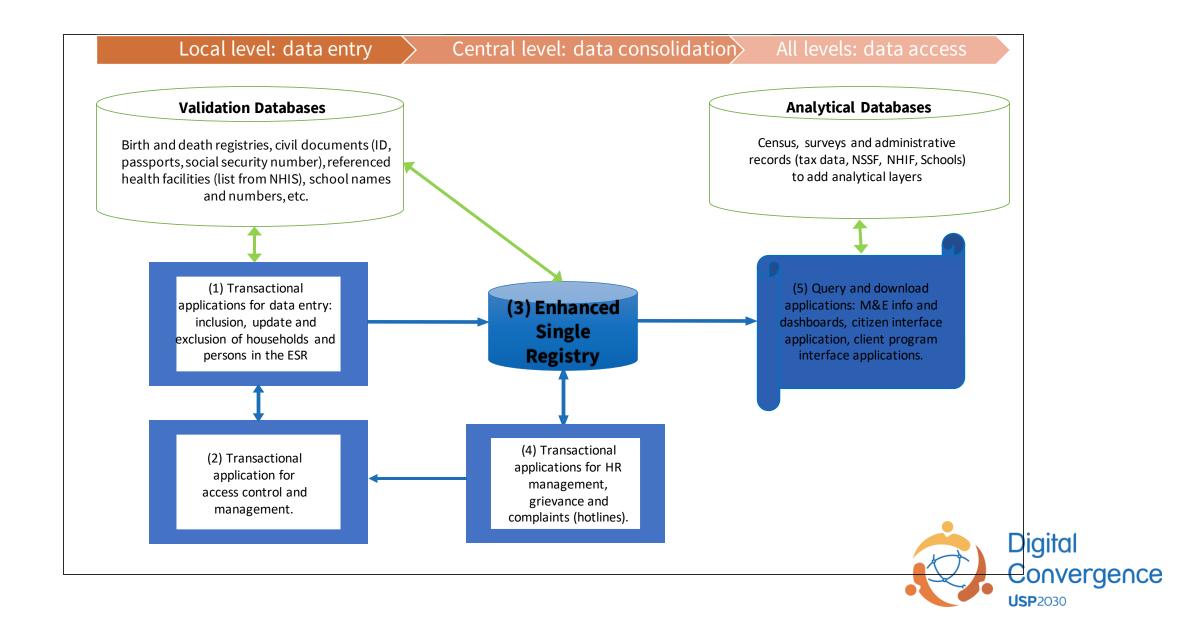- *A* socio-economic database of vulnerable households in Kenya
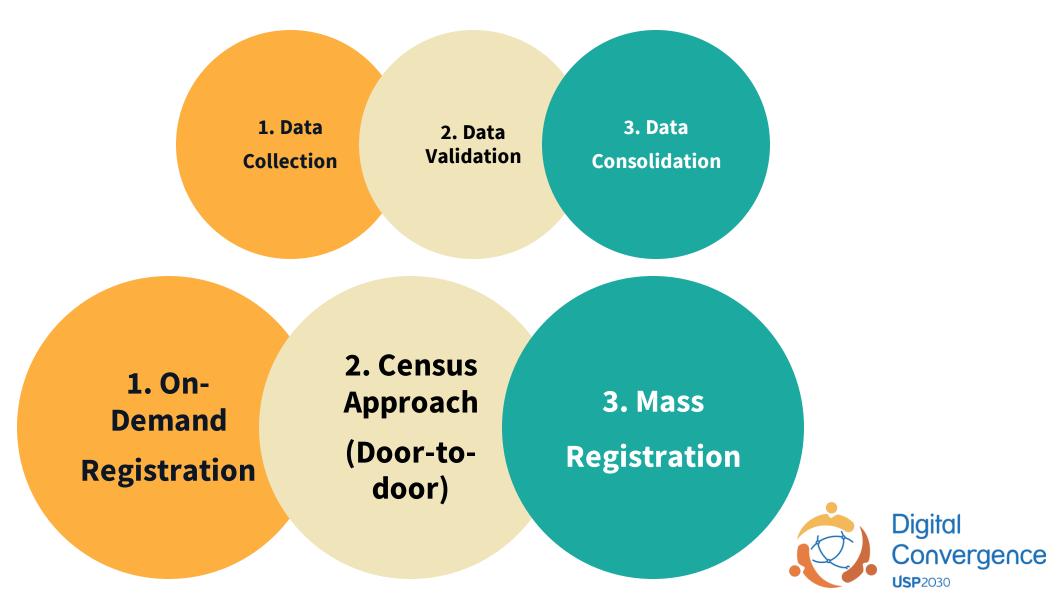
*Why the ESR***?**

– Help develop policies and programs to harmonize and broaden social protection coverage

- Enhance SP relevance & responsiveness to pro-poor & shock responsive programing

- Promote inclusion of vulnerable &marginalized populations along the lifecycle
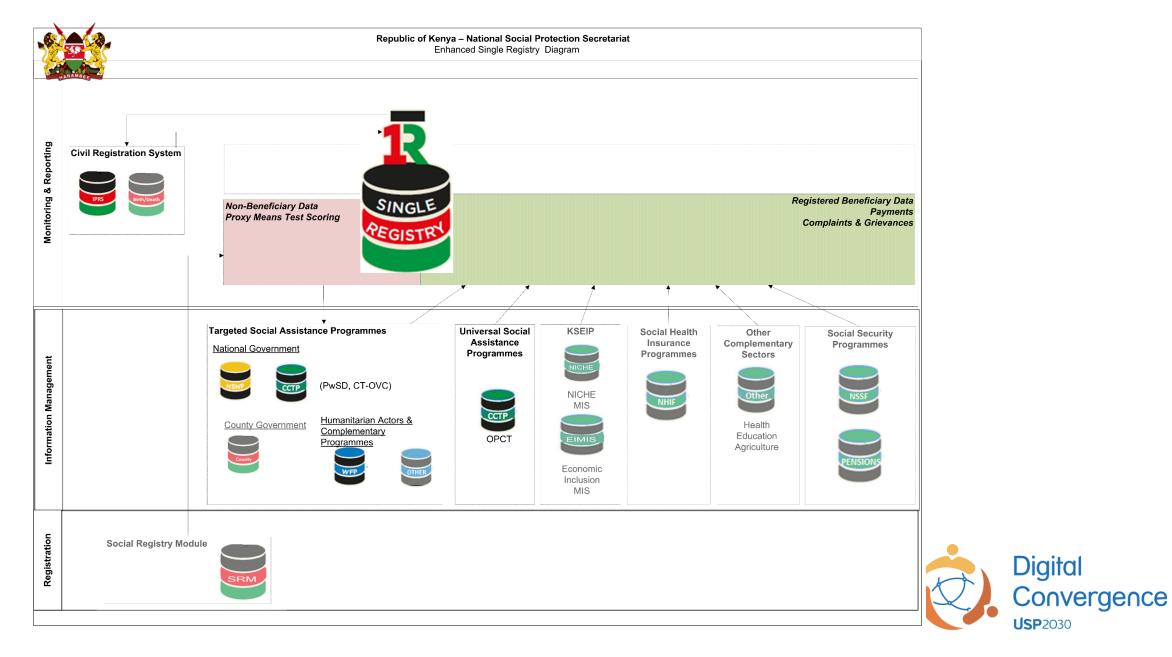
Digital
Convergence
USP2030

Interoperability with Farmer Registry - Potential in the ESR

- Contains rich and updated data on actual and potential beneficiaries (IBR& SR)
  (Uses a Harmonized data collection tool - the HTT)

- Promotes data sharing & complementarity with client programmes

- Supports data validation and protection while enabling updates through linkages with other data bases (currently linked to IPRS and NHIF MIS)

- Promotes robust monitoring& reporting in SP sector

Digital
Convergence
USP2030

Enhanced SR Diagram

Republic of Kenya – National Social Protection Secretariat
Enhanced Single Registry Diagram

Country Inputs: Lebanon
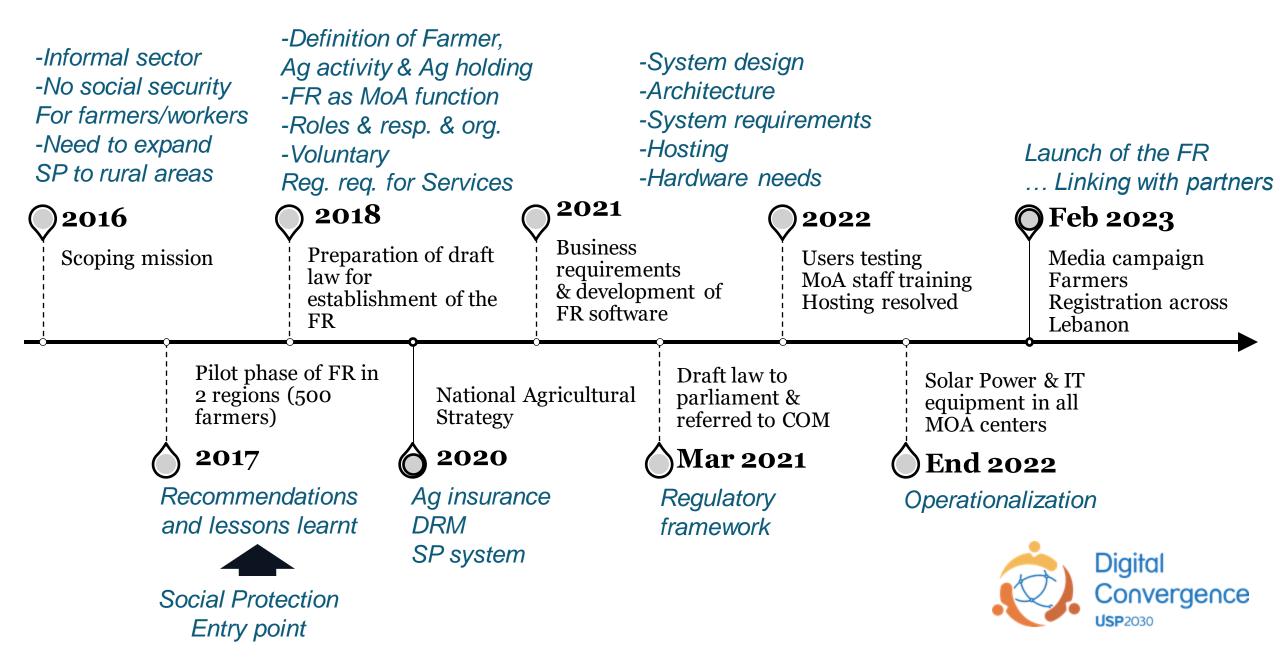
Dany Lichaa El Khoury
Project Manager
FAO

Why Farmers' Registry in Lebanon?

- Building block in the formalization of the sector: Farming as a profession
- Reliable source of information
- Easy tool to record, control and update data
- Agriculture policies
- Agricultural sector management
- Expand Social Protection coverage of farmers
- Transparent and fair distribution of support / subsidies
- Shock and emergency response tool
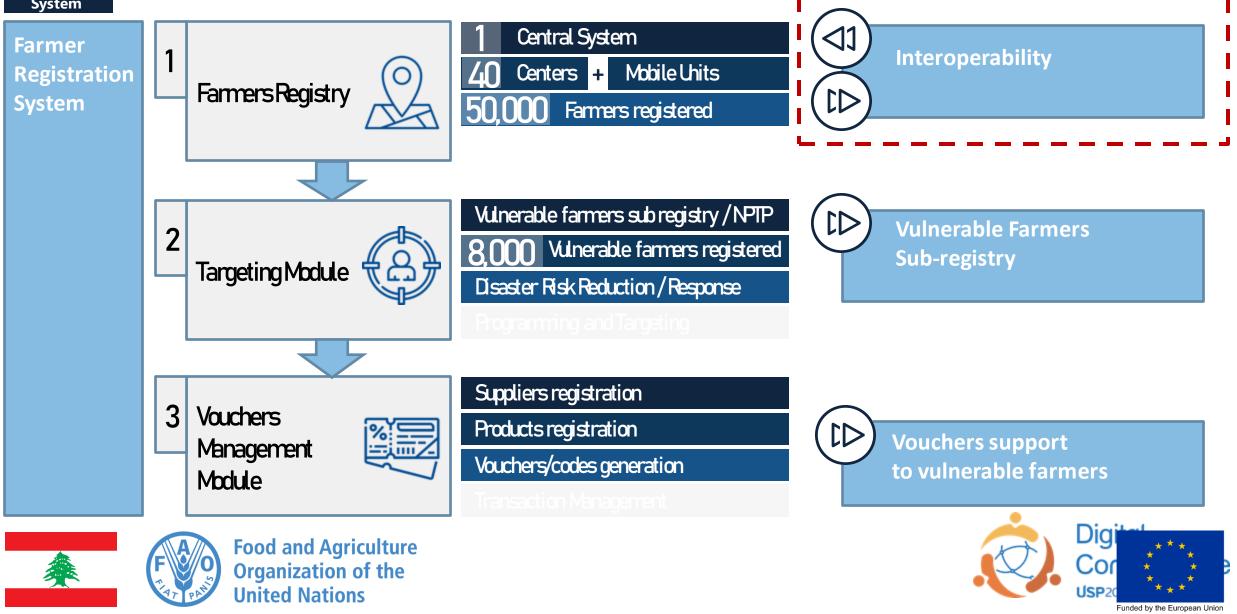- Social safety nets and insurance
- Etc.

Farmers Registry Establishment Journey

-Informal sector
-No social security
For farmers/workers
-Need to expand
SP to rural areas

-Definition of Farmer,
Ag activity & Ag holding
-FR as MoA function
-Roles & resp. & org.
-Voluntary
Reg. req. for Services

-System design
-Architecture
-System requirements
-Hosting
-Hardware needs

Launch of the FR
… Linking with partners

2016

Scoping mission

2018

Preparation of draft
law for
establishment of the
FR

2021

Business
requirements
& development of
FR software

2022

Users testing
MoA staff training
Hosting resolved

Feb 2023

Media campaign
Farmers
Registration across
Lebanon

Pilot phase of FR in
2 regions (500
farmers)

National Agricultural
Strategy

Draft law to
parliament &
referred to COM

Solar Power & IT
equipment in all
MOA centers

2017

Recommendations
and lessons learnt

2020

Ag insurance
DRM
SP system

Mar 2021

Regulatory
framework

End 2022

Operationalization

Social Protection
Entry point

Digital
Convergence
USP2030

1. Support System

ADEQUATE AGRICULTURE PRODUCTION SUPPORT SYSTEMS FOR VULNERABLE FARM COMMUNITIES ROLLED OUT AND GOOD AGRICULTURE PRACTICES SUPPORTED AND DEVELOPED

Farmer Registration System

1 Farmers Registry

- 1 Central System
- 40 Centers + Mobile Units
- 50,000 Farmers registered

Interoperability

2 Targeting Module

- Vulnerable farmers sub registry / NPTP
- 8,000 Vulnerable farmers registered
- Disaster Risk Reduction / Response
- Programming and Targeting

Vulnerable Farmers Sub-registry

3 Vouchers Management Module

- Suppliers registration
- Products registration
- Vouchers/codes generation
- Transaction Management

Vouchers support to vulnerable farmers

Food and Agriculture Organization of the United Nations

Digital Com USP2

Funded by the European Union

Governorate

Caza

Village

Longitude

Latitude

Go

Select Section

+

Ain Ouagreh

Saadic Adous

Adous

Haouch El Dahab حوش الذهب

Haouch Tall Safiyeh

- ☑ Parcels*
- ☑ البلدات
- ☑ الأقضية
- ☑ المحافظات
- ☑ Google Satellite & Roads
- ☑ Google Maps - Stree

Name*

Block Numbe

Description

Land Cover Cl

--Select--

☐ Is Rented

☐ Is Irrigated

Total Parcel A

200

Remaing Area

200

الجمهورية اللبنانية

وزارة الزراعة

اسم المستخدم

اسم المستخدم

كلمة المرور

كلمة المرور

🔒 اعادة تعيين كلمة مرور

تسجيل الدخول

Farmer Informaion

Address

Optional Contacts

Family Information

Loan

Livelihood

Farm

Animal

Animals

PoulTry

Bees

Fish

Parcel

Machines

Livelihood

| undefined |

Ownership of bank account *

Yes

Access to electricity

Both

Ownership of household vehicle*

Yes

Total number of children (<14) *

2

Number of children not attending school*

Number of rooms excluding kitchen and toilet *

7

Legal ownership of the dwelling where they live*

Yes

Total number of members in the household*

4

Total number of elderly household members (>65)*

0

Female-headed household?*

Personal Information

Farmer Information

Address

Optional Contacts

Family Information

Loan

Livelihood

Farm

Animal

Animals

PoulTry

Bees

Fish

Parcel

Machines

Attachments

Map

Basic Information

Personal Information

FirstName*	Middle Name*	Last Name*
علي	ممحد	صالح

Mother First Name*	Mother Last Name*
	.

First Name in English	Middle Name in English	Last Name in English
Ali	Mohammad	Saleh

Mother First Name in English	Mother Last Name in English
Kamla	Said

Extra Information

Identification Number	Email	Record Number*
0000019	a.saleh@lde.com.lb	1520325

Phone Number*	Martial Status*	Gender*
71393156	Married	Male

Landline*	Person Type*	Nationality*
0766532	Employee	Lebanese

Farmers Registry Business Requirements

- Dashboard
- Farmer pre-registration
- Basic farmer data
  - personal details
  - contact information...
- Farm data registration
  - farm assets
  - Workers...
- Land & parcel identification (GIS)
- Farmers' livelihood data
  - Household
  - Socio-economic...
- Farmers targeting / sub-registry
- Voucher scheme management

Functionalities

- Farmer registration certificate
- Farmer ID
- Data Import Export
- Powerful search engine
- Dynamic reporting tool
- Integration w/ existing MoA apps
- System administration
- Audit records / Log management / Security Strong authentication
- Online / offline / local registration

Targeting and R-MPI
Rural Multi-dimensional Poverty Index

Defining relevant dimensions and indicators

Indicators are variables used to measure vulnerability; dimensions are categories used to group the indicators.

1. **"Core dimensions of vulnerability"** such as level of education and living conditions.

2. **vulnerability conditions in rural settings**

Defining deprivation cutoffs for each indicator

Thresholds indicating the **minimum level reached in an indicator** in order to be considered non-deprived in that particular indicator.

Thresholds are then used to construct **binary deprivation scores (0=non-deprived, 1=deprived)** for each indicator

Assigning a weight to each indicator

Lebanon follows the standard practice of assigning equal weights to each dimension, in turn, **each indicator is equally weighted within each dimension**.

Producing a deprivation score

This score is defined as the **sum of the weighted deprivations** suffered by the unit of identification.

Dimension	Indicator	Deprivations	Weight
Health	Health insurance	Deprived if no household member benefits from health insurance	1/8
	Disability	Deprived if any household member suffers from a severe disability	1/8
Education	Enrollment	Deprived if any child aged 14 and below is not enrolled in school	1/8
	Highest level of education attained	Deprived if household head has not completed secondary education	1/8
Living standards	Ownership of dwelling	Deprived if household does not own dwelling of residence	1/16
	Car ownership	Deprived if household does not own a car	1/16
	Access to backup electricity	Deprived if household does not have access to backup electricity	1/16
	Over-crowding	Deprived if there are more than 2 people per room (excl. kitchen WC)	1/16
Rural livelihoods and resources	Dependency ratio	Deprived if there are more than 2 dependents for every household member of working age	1/24
	Unemployment	Deprived if any household member aged 15 and above is unemployed	1/24
	Ownership of high-value mechanical equipment	Deprived if household does not own high-value mechanical equipment	1/24
	Access to road within X km	Deprived if household does not have access to road within X km	1/24
	Part of producer organization or economic group	Deprived if not part of producer organization or economic group	1/24
	Production capacity	Deprived if production capacity is less than X	1/24

Global Perspective: FAO

Marco Knowles
Senior Social Protection Officer and Team Leader
Food and Agriculture Organization of the UN

Interoperable farmer and social registries, WHY?

"In diversity there is beauty and there is strength." – Maya Angelou
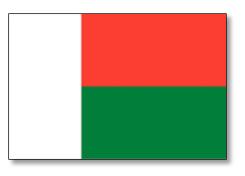
Interoperable farmer and social registries at work

Open Discussion

Closing & Way Forward: with reflections from Madagascar

Mampionona Amboarasoa
Agriculture Economist
Madagascar, World Bank

Way Forward

Interoperability in Action : Workshops	Standards Formulation Committees	More Interoperability interfaces

Standards for Process, Data and APIs :

- Interoperability of SP systems with Disability Registry
- Interoperability of SP systems with Social Registry

- SP-MIS and CRVS interoperability

- SP-MIS and Payment interoperability

- SP-MIS and National ID interoperability

- SP-MIS and Farmer Registry

- SP-MIS with Integrated Beneficiary Registry

Digital
Convergence
USP2030

Support the Initiative

- **Support** the process of **consensus building and harmonization of standards**.

- **Spread awareness** about the initiative

- **Promote** adoption of **standards and other outputs**

- **Adopt the standards and other outputs** in your SP projects and share **feedback**

Participate in working groups

Group 1 : Payment layer interoperability

Group 2 : CRVS layer interoperability

Group 3 : Identification layer interoperability

Levels of participation

Level 1: Share existing materials

Level 2: Review outputs

Level 3: Join group discussions and validation workshops

Level 4: Drafting standards and guidelines alongside facilitators

Connect with Convergence Initiative

www.spdci.org

socialprotection-convergence.discourse.group

social-protection-convergence-initiative

@sp_convergence

@sp_dci