

Talking Interoperability

In Focus | Colombia



Digital
Convergence
USP2030

Opening



Rim Nour

Technical Expert in Social Transfers , Social Protection
ILO



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Agenda

12:00–12:10

Welcome

12:10–13:00

Presentation

13:00–13:30

Discussion

13:30–13:55

Audience Q&A

13:55–14:00

Closing remarks



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Housekeeping rules

- Ask your questions in the Q&A box
- Share any comments or resources in the chat
- Simultaneous interpretation is available
Select the language in the interpretation icon on control bar
- Session will be recorded



To: Everyone ▾



Your text can be seen by panelists and other attendees



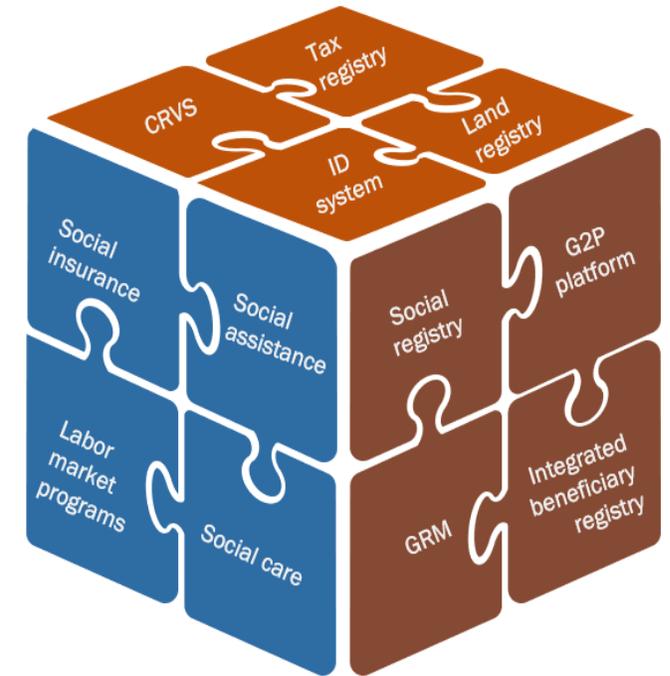
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The Digital Convergence Initiative (DCI)

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



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Talking interoperability

A monthly dialogue series by the DCI to facilitate in-depth technical conversations around integrated and interoperable SP information systems across countries

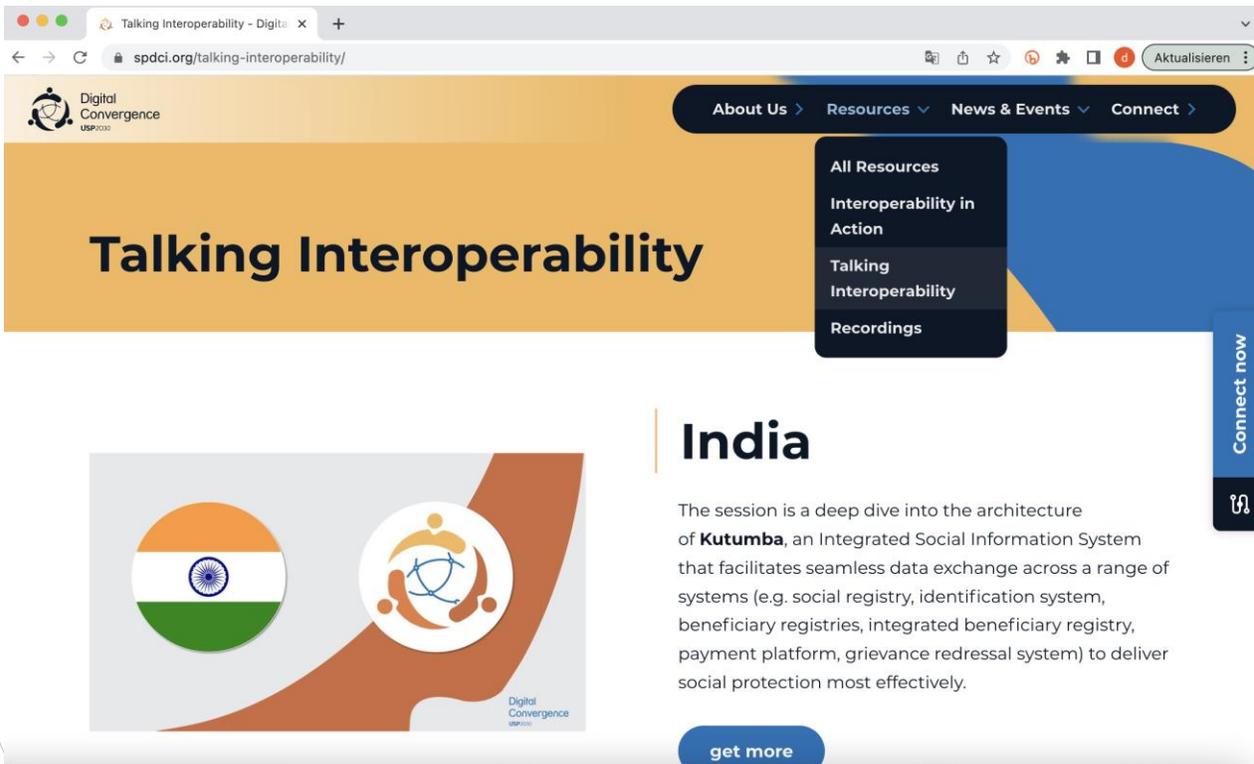
Deep dive into one country-level system per session to...

- share the technical nuts and bolts of how agencies have designed their social protection information systems for interoperability
- understand how agencies have tackled the major challenges to interoperability.
- brainstorm potential solutions to remaining bottlenecks



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Recordings of past sessions available



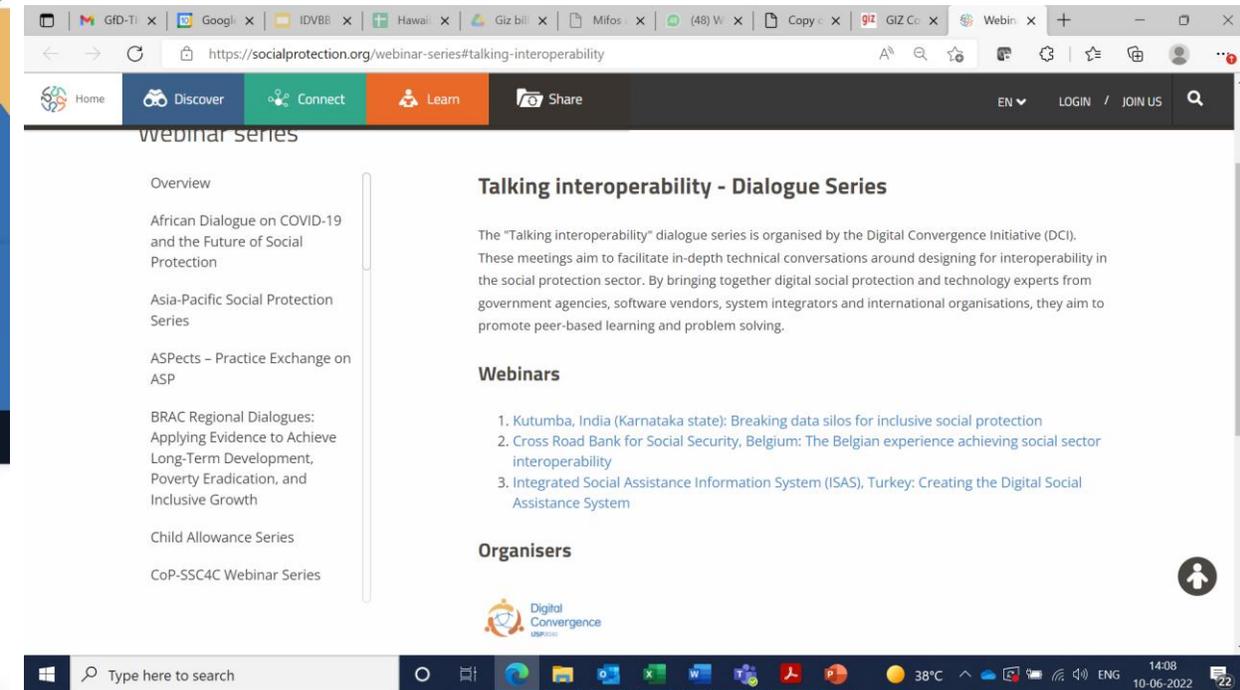
The screenshot shows the website spdc.org/talking-interoperability/. The header includes the Digital Convergence USP2030 logo and navigation links: About Us, Resources, News & Events, and Connect. A dropdown menu is open under 'Resources', showing 'All Resources', 'Interoperability in Action', 'Talking Interoperability', and 'Recordings'. The main heading is 'Talking Interoperability'. Below it, there is a section for 'India' featuring the Indian flag and a graphic of hands holding a globe. The text describes the 'Kutumba' session as a deep dive into the architecture of an Integrated Social Information System. A 'get more' button is at the bottom.

Talking Interoperability

India

The session is a deep dive into the architecture of **Kutumba**, an Integrated Social Information System that facilitates seamless data exchange across a range of systems (e.g. social registry, identification system, beneficiary registries, integrated beneficiary registry, payment platform, grievance redressal system) to deliver social protection most effectively.

[get more](#)



The screenshot shows the page <https://socialprotection.org/webinar-series#talking-interoperability>. The page title is 'Webinar Series'. It features a list of webinar topics on the left and a detailed description of the 'Talking interoperability - Dialogue Series' on the right. The dialogue series is organized by the Digital Convergence Initiative (DCI) and aims to facilitate technical conversations around designing for interoperability in the social protection sector. Below the dialogue series, there is a list of 'Webinars' and 'Organisers'.

Webinar Series

- Overview
- African Dialogue on COVID-19 and the Future of Social Protection
- Asia-Pacific Social Protection Series
- ASPECTS – Practice Exchange on ASP
- BRAC Regional Dialogues: Applying Evidence to Achieve Long-Term Development, Poverty Eradication, and Inclusive Growth
- Child Allowance Series
- CoP-SSC4C Webinar Series

Talking interoperability - Dialogue Series

The "Talking interoperability" dialogue series is organised by the Digital Convergence Initiative (DCI). These meetings aim to facilitate in-depth technical conversations around designing for interoperability in the social protection sector. By bringing together digital social protection and technology experts from government agencies, software vendors, system integrators and international organisations, they aim to promote peer-based learning and problem solving.

Webinars

- Kutumba, India (Karnataka state): Breaking data silos for inclusive social protection
- Cross Road Bank for Social Security, Belgium: The Belgian experience achieving social sector interoperability
- Integrated Social Assistance Information System (ISAS), Turkey: Creating the Digital Social Assistance System

Organisers

Digital Convergence USP2030

[Past Events – Talking Interoperability](#)

[Webinar Series - sp.org](#)

Introductions

Presenter



German David Briceño Villalobos
Deputy Director of Poverty
and Targeting at the
National Planning
Department
Colombia

Discussants



Silété Devo
Director General
Agence Nationale
d'Identification (ANID)
Togo



Aarushi Gupta
Research Manager
Digital Futures Lab

Moderator



Matteo Morgandi
Co-Global Lead for Labor
and Skills
World Bank



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COLOMBIA: SOCIAL HOUSEHOLD REGISTRY

German David Briceño Villalobos

Deputy Director of Poverty and Targeting
National Planning Department of Colombia
July, 2023



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Context

Context of poverty and social protection in Colombia

- **Population: 52 Million people/ 17 Million households**
- **Poverty Level: 39.3% live below the poverty line**
- **Social Protection System: 51 social programs in 9 sectors**

Social expenditure by sector

Sectors	Year 2019	Year 2020	Year 2021	Year 2022
Total Social Expenditure (Colombian Pesos)	139.973.633.917.366	195.477.761.765.269	75.067.944.835.209	79.950.217.601.678
Social Expenditure as % of GDP	13,20%	19,60%	6,30%	5,50%
Sectoral participation in social spending in Colombia				
Sectors	Year 2019	Year 2020	Year 2021	Year 2022
Agriculture and Rural Development	0,03%	0,02%	0,05%	0,22%
Health and Social Protection	15,35%	12,16%	33,94%	36,72%
Mining and Energy	1,43%	0,96%	4,05%	2,74%
Education	22,05%	16,94%	47,06%	47,30%
Information and Communication Technologies	0,23%	0,20%	0,52%	0,53%
Commerce, Industry and Tourism	0,01%	0,00%	0,00%	0,00%
Work	2,20%	1,73%	4,99%	5,33%
Housing, City and Territory	57,46%	66,87%	6,10%	4,07%
Social Inclusion and Reconciliation	1,23%	1,13%	3,29%	3,08%

Overview of information systems in Colombia

Common Digital Infrastructure

Information System	State (Caption below)	Responsible institution	Percentage of population covered (ND=Data not available)
Common Identification System		Registry and Migration Colombia	100%
Social Registry		DNP	100%
Common payment platform		DPS	ND
Complaint Resolution Platform		Each entity has one	ND
Integrated beneficiary registration		DNP	100%
Civil Registration System		Registry and Migration Colombia	100%

Active

In development

Unavailable

Overview of information systems in Colombia

Other sectoral/programmatic registers

Information System	State (Caption below)	Responsible institution	Percentage of population covered (ND=Data not available)
Tax information system		DIAN	ND
Social security MIS (formal sector)		Ministry of Health	100%
Invalidity Register		Ministry of Health	ND
Land registration		IGAC and Municipalities	ND

Active

In development

Unavailable

Evolution of information systems at the international level

1

A significant number of countries are moving towards the construction of Social Registries
For example: Brazil, Chile, Indonesia, Kenya and Turkey

2

Targeting from a hybrid model, for an adequate classification of households (Hybrid income RA and PMT)

Resource Checking

- Income and wealth information
- Ex: Australia, Canada, Japan, New Zealand, United Kingdom
-

Approach to resources

- It assigns a score that approximates income capacity or standard of living from relevant variables. Ex: Colombia
-

Hybrid model

An important part of the information on the socioeconomic conditions of households can be verified through external sources and records, and another part of the information needs to be estimated. Ex: Chile, Brazil, Central Asian countries

Develop the Universal Income Registry

Phase I

- Sisbén I
- Sisbén II
- Sisbén III
- Sisbén IV
- Improvement in the quality of administrative records

Phase II Interoperable Information Systems

- Social Household Registry
-

Phase III Revenue Record (2023 onwards)

Universal Income Registry (article 70 of Law 2294 of 2023

Hybrid model with income and socioeconomic information from **administrative records and self-declaration**

Challenges:

- Identify the quality of revenue streams
- Design mechanisms for declaration by households (e.g. Single Windows)

Integration of bases and interoperability, efficient use of administrative records, and verification processes to self-declared information.

Introduction to the Social Household Registry (RSH)

Structure of RSH information

Identification

Characterization

Offer

Verification



DNP responsible for the creation, administration and implementation of the Social Household Registry.

28 National databases

- 6 identification,
- 7 to complement the characterization of Sisbén
- 16 of social programs

1.863 Bases territoriales en proceso

- Work with 32 governorates, 30 capitals and 1,007 municipalities

+55 million records

2 Consultation modules for entities and citizens

General Description RSH

- **Release Year:** 2023
- **Number of Households Covered:** 17 million households
- **Percentage of population covered :**100%
- **Tamaño de la base de datos:** 55 million people
(including migrants)
-
-

Business SP Processes

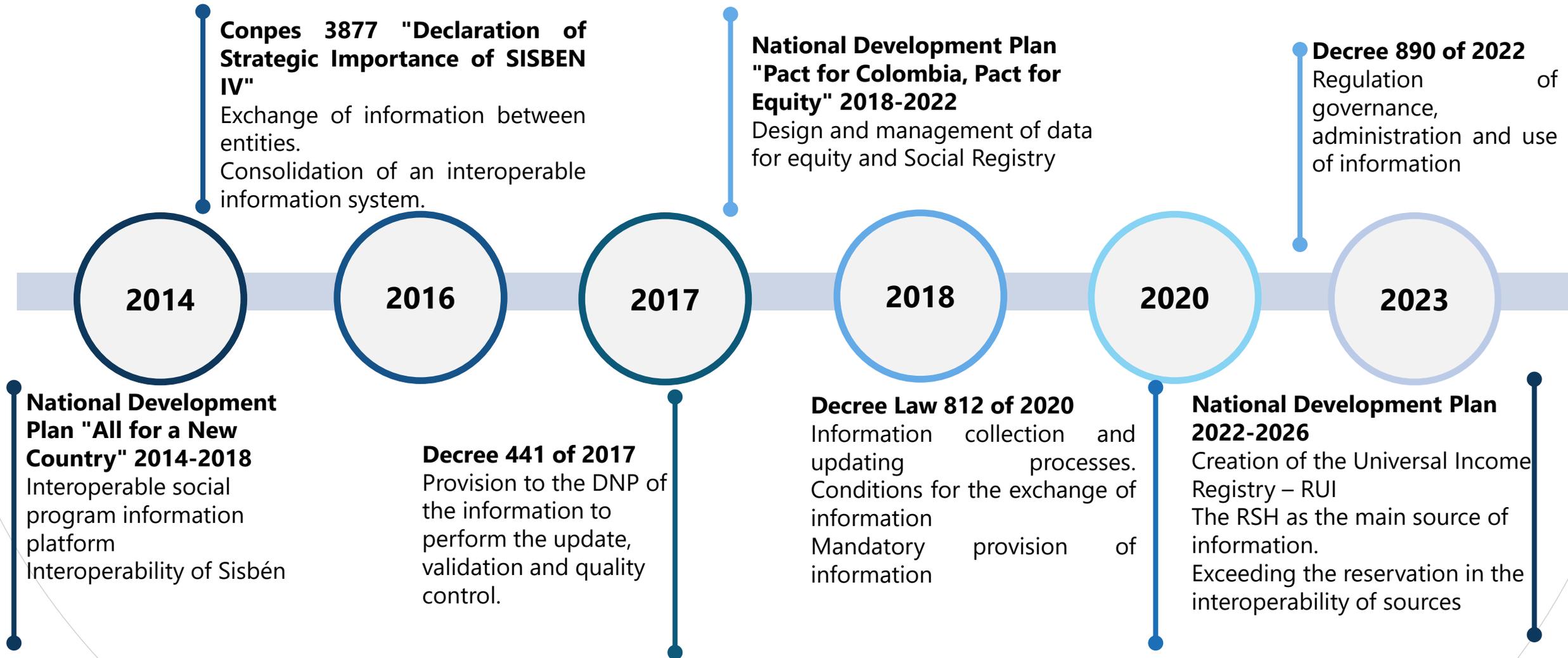


Technological features

- UI
 - Windows, Microsoft .NET Framework 4.8 MVC, JQuery, HTML y CSS (OSS)
- Backend
 - Windows Server, Microsoft .NET Framework 4.8 MVC C# (OSS)
- Data
 - Microsoft SQL Server 2019 (OSS)

Property of the National Planning Department

RSH Policy Development and Guidelines



Interoperability capabilities

Why is it necessary to move towards an RSH?

Poor quality of information, loss of efficiency of the targeting instrument and in the allocation of expenditure



Outdated information and absence of mechanisms to maintain the dynamism of information



Distortion and ease of manipulation of information.



Ineffective mechanisms for debugging, quality control, monitoring, updating and verification.



There is no traceability of the social offer received by households (Duplication of supply)



Multiplicity of procedures carried out by citizens before different entities that require the same information

Potential benefits derived from RSH

- **Articulation of national and territorial supply and** identify concurrences, duplicities, complementarities
- Effectiveness of household accompaniment mechanisms
- Increased responsiveness in times of crisis.
 - Planning Information
- Identification of gaps between population needs and supply

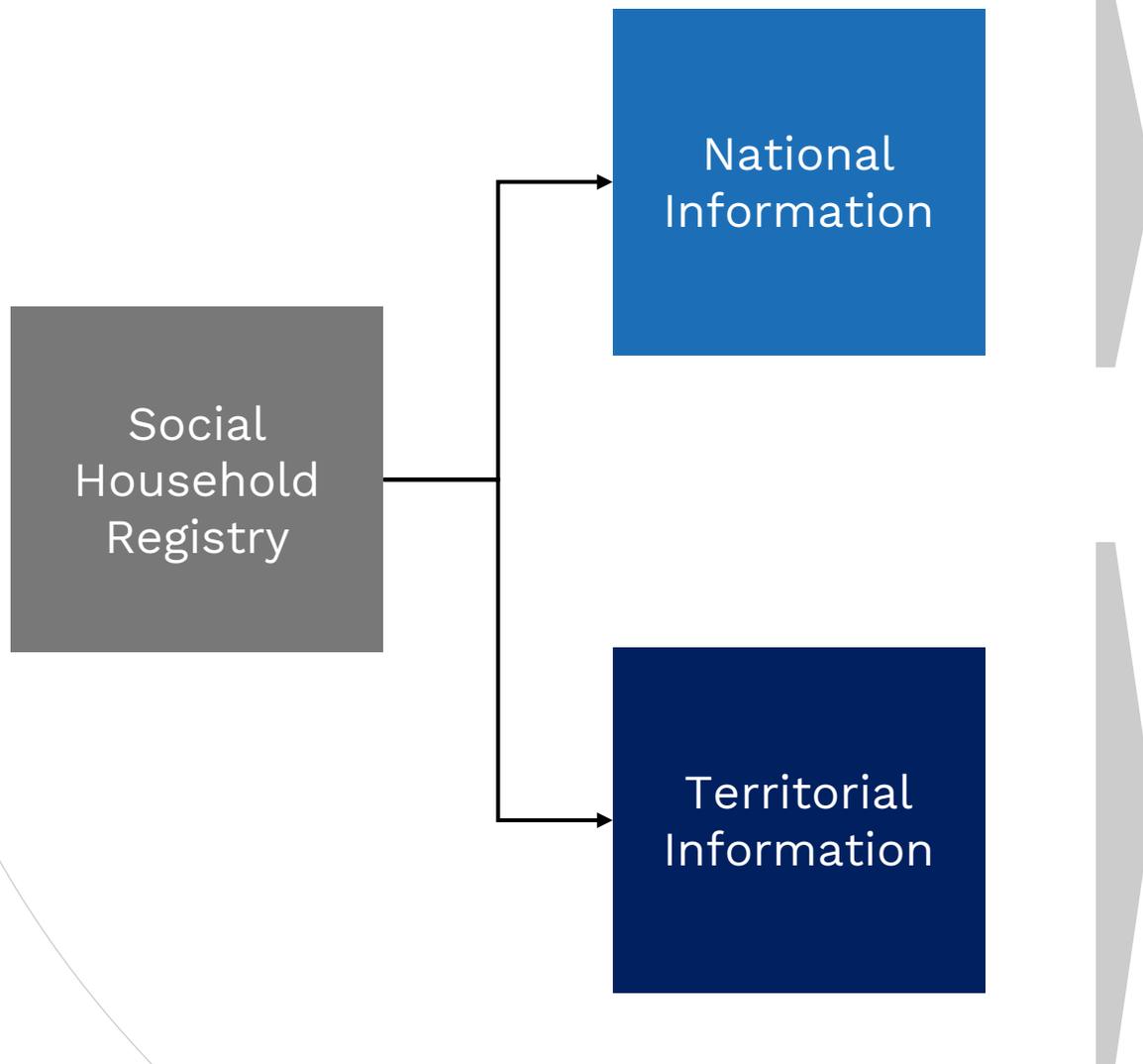


- Better quality, completeness and updating of information
- Reduction of errors in supply targeting
- More dynamic information system with up-to-date information

- Monitoring of subsidies and evaluation of the **progressivity and incidence of aid and subsidies**
- Monitoring the evolution of household living conditions

- Greater State-Citizen Closeness
- Reduce procedures for the user

Sources of information included in the RSH



- **28 Databases**

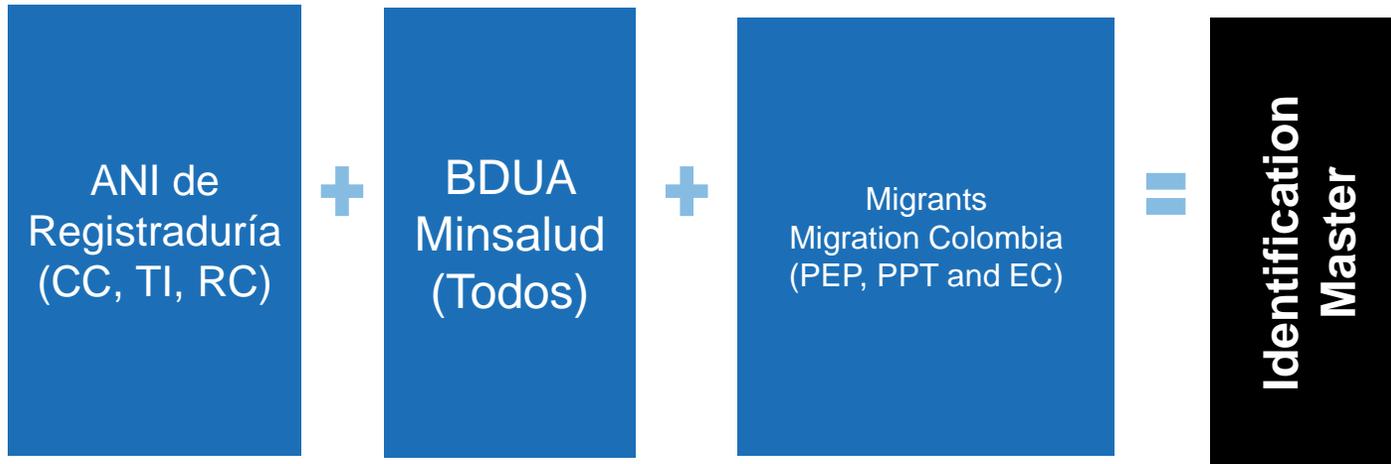
- 6 for identification
- 8 to complement the characterization of Sisbén
- 14 of social programs

- **Work with 32 governorates, 32 capitals and 1,007 other municipalities**

- 3.867 identified data sources

- 758 Caribbean
- 968 Central East
- 166 South Central
- 1273 Coffee Axis
- 363 Plain
- 339 Pacific

RSH architecture



✓ Interface of the ID master with:

- Sisbén IV
- Access to social programs
- Characterization of population victim of the conflict, in condition of disability, ethnicity, poverty, educational level.
- Income information from Administrative Records and access to property

✓ Technological exchange

- VPN – Virtual Private Network site to site
- Batch
- Web service
- Xroad
- FTP

✓ Information quality validation and verification processes

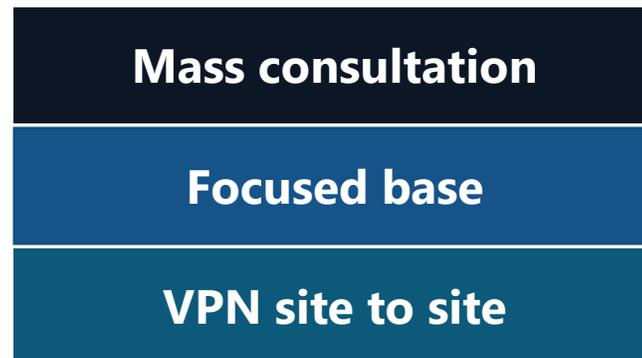
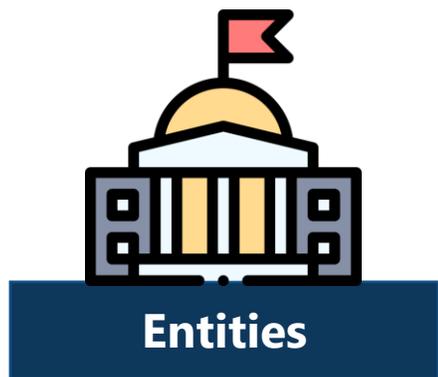
- Algorithm for crossing information with minimum basic identification fields
- Data dictionary, Operating Manual, Minimum quality criteria in the sources of information to be part of the registry.

✓ Protection of personal data

- From the information collected, the creation of brands is processed to securely dispose of the information of interest for the targeting processes.
- Exchange agreements are signed to ensure the confidentiality and protection of information

Definition and management of interoperability interfaces

Access only for user-defined
by entity



- Support the nation-territory articulation
- Strengthen the identification and selection of beneficiaries
- Facilitate the use of information for targeting in a secure manner.



- Provide useful information securely
- Facilitate the aggregate consultation of articulated information
- Responding to common requests against social policy data

Definition and management of interoperability interfaces



GOV.CO



Bienvenido al Registro Social de hogares

¡Tu información en un solo lugar!
Aquí encontrarás tu información almacenada por las distintas entidades del Estado asociada a los beneficios que has recibido a través de los programas sociales



Módulo para Entidades



Las entidades nacionales y territoriales pueden acceder a la información consolidada de personas, de acuerdo con sus programas sociales.

INGRESAR

Estadísticas Generales



Dirigido al público en general. Este módulo contiene reportes estadísticos derivados de la información consolidada en el RSH.

INGRESAR



Perfil de Entidad

Ingresar con tu usuario y contraseña asignados

Inicia sesión como entidad

Usuario

Contraseña

Departamento Nacional de Planeación

Sede principal

Dirección: Calle 26 # 13-19, Piso 1º - Edificio ENTerritorio / Bogotá D.C., Colombia
Código postal: 110311



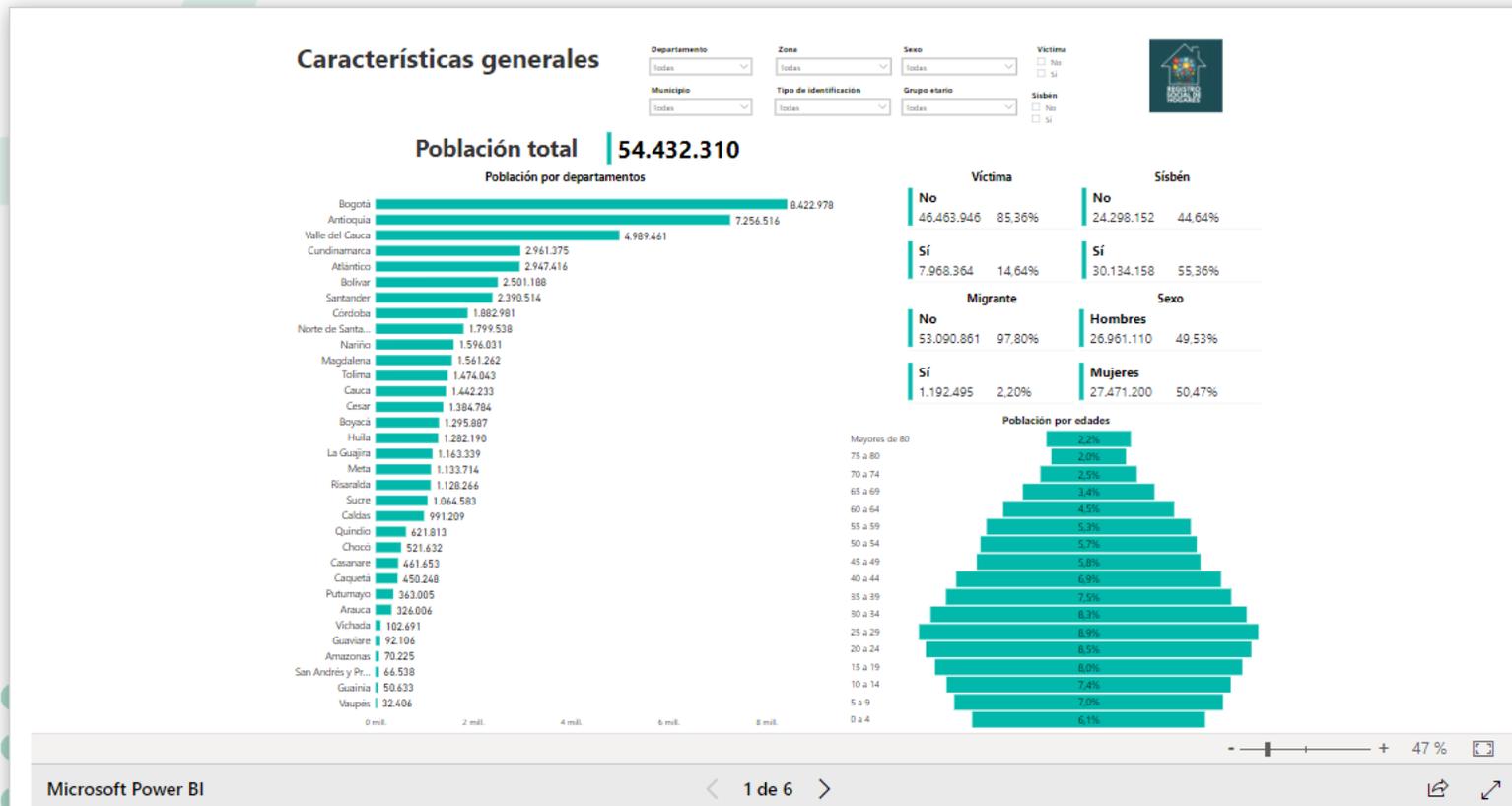
Definition and management of interoperability interfaces



DEPARTAMENTO NACIONAL DE PLANEACIÓN

[Mapa del sitio](#)

Módulo de estadísticas generales



Challenges and the way forward

Key interoperability challenges and how they were overcome

Challenge	Solution
Legal reserve for sensitive information of the population	An article was included in the Law of the National Development Plan 2022-2026 that allows the exchange of information without reservation for the RSH
Multiple data integration mechanisms and limitation to bulk queries for 55 million records	Technological adaptation and advice to entities to improve their interoperability processes
Low-quality information in administrative records	Improve protocols for ID validation and provide feedback during exchange
Territorial use and capacity building	Territorial deployment for the signing of exchange agreements and validation of quality of records. Accompaniment to territories to promote the culture of information and publicize the tool.

Stages of development and uses of the Social Registry

Stage I Entities



- Use of Information
- Strengthen the nation-territory articulation
- Facilitate targeting
- Provide inputs for follow-up interventions

Stage II Citizenry



- Information Inquiry
- Carrying out procedures for updating and/or rectification of information
- Use in the family accompaniment strategy
- Raise awareness of the importance of the availability of current and truthful information

Stage III Service Integration (One-stop shop)



- Adequacy of processes for the collection of information and access to social offer
- Use in the family accompaniment strategy
- Articulation in aid schemes (social subsidies, transport, and public services).

2023-2024

2024-2026

The background is a solid blue color with several abstract, light blue shapes and wavy lines. On the left side, there are large, overlapping, semi-transparent shapes that resemble stylized human profiles or organic forms. On the right side, there are several thin, white, wavy lines that curve across the space, creating a sense of movement and depth.

Discussion Audience Q&A

Closing



Lena Blind

Junior Advisor for Digital Social Protection,
Team Member DCI
GIZ



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Updates from other workstreams - DCI

Interoperability in Action Workshops

- Interoperability of **SP systems** with **Integrated Beneficiary Registry (August 24)**

(<https://www.socialprotection.org>)

Standards Committees

Standards for Process, Data and APIs :

- SP-MIS and **CRVS** interoperability



Digital Convergence USP2030

Standards Committee for the Interoperability of CRVS and Social Protection Information Systems

Co-Chairs		Facilitators				
 UNICEF	 Chile	 GIZ	 GIZ			
 Rwanda	 CDP	 CORE-MIS	 GIZ	 OpenCRVS	 OpenGIS	 openMIS
 OpenGIS	 Vital Strategies	 Independent Experts	 World Bank	 WCC	 Heise	 iGATE Foundation

Kickoff June 7th, 2023

Interoperability with SP system workstreams

- CRVS System
- Payment system
- Identification system
- Farmer Registry
- Disability Registry
- Social Registry
- Integrated Beneficiary Registry

Support the Initiative

Your input matters

- **Contribute your expertise** to our workstreams
- **Support** the process of **consensus building and harmonization of standards.**
- **Spread awareness** about the initiative
- **Adopt the standards and other outputs** in your SP projects and share **feedback**



Forms of participation

- **Share existing materials**
- **Review** outputs
- **Join** group **discussions** and workshops
- **Submit your draft standards** to DCI for consensus building through DCI standards committee.
- **Join the Standard Committees**



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Connect with Convergence Initiative



www.spdci.org



socialprotection-convergence.discourse.group



social-protection-convergence-initiative



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Thank you

Make sure to answer our survey which will appear on your browser, and join us for the next sessions!

+ know more and
become a member of



socialprotection.org