



Modernization of Official Statistics in Latin America and Collaboration Projects in the Region

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Content

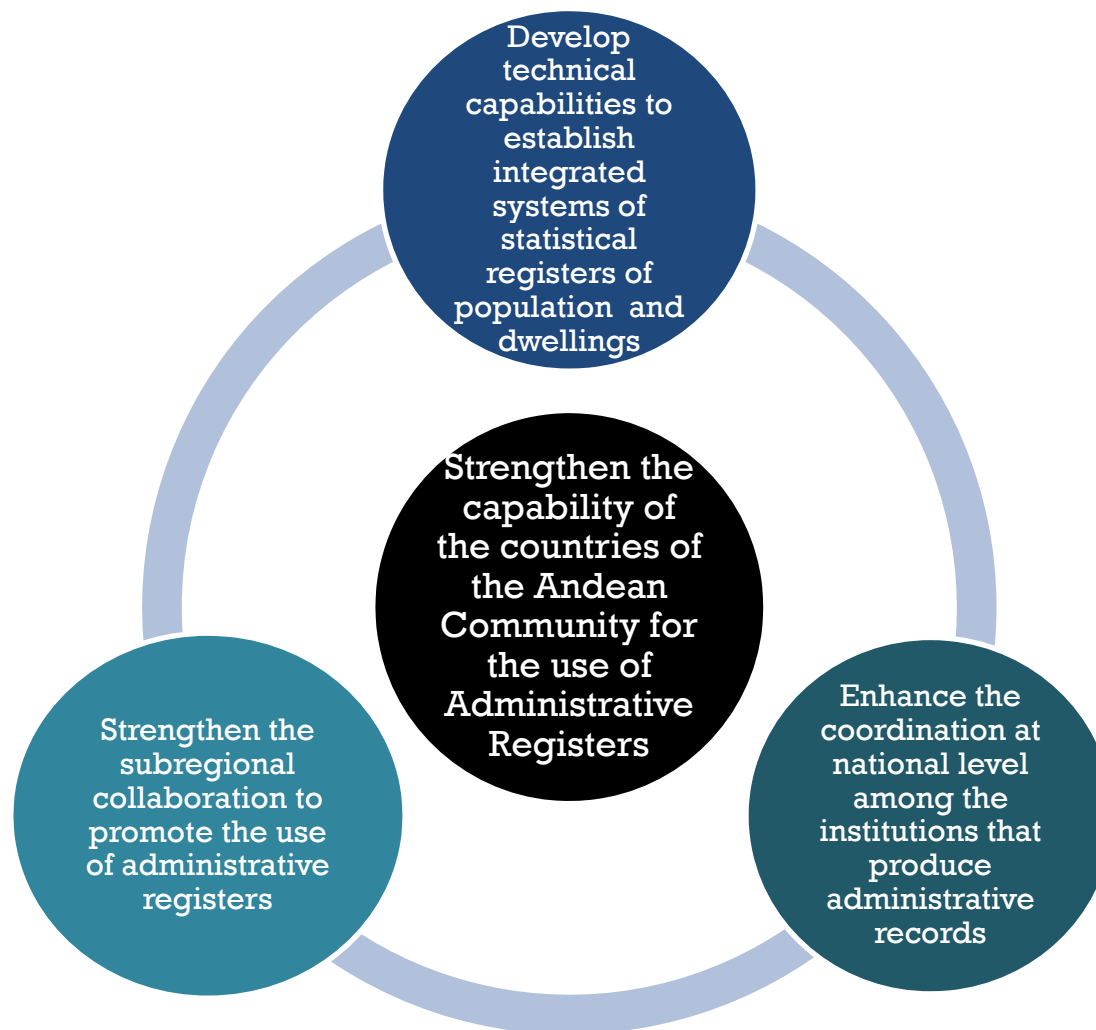
- Sub Regional Collaboration Projects of Regional Public Goods through administrative data in the Andean Community (CAN).
 - Outputs and Innovations reached through the Project of Regional Public Goods.
 - Summary of the current status and improvement of the use of Administrative Registers (AR) in the CAN.
 - Experience of Ecuador
 - Regional Collaboration in the Statistical Conference of the Americas of the ECLAC - Working Group for Administrative Data.
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Subregional Statistics of Population and Dwellings through the use of administrative data in the Andean Community.

- This project begins in 2014 and it is financed by the Inter - American Development Bank.
 - Through this project the countries of the CAN (Colombia, Bolivia, Perú and Ecuador) have been exchanging experiences and working on the development of adequate mechanisms for the use and treatment of administrative registers.
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Subregional Statistics of Population and Dwellings through the use of administrative data in the Andean Community.

Objectives:



Outputs and Innovations reached through the Project of Regional Public Goods

Diagnosis of administrative registers of population and cadastres in the countries of the Andean Community.



Conceptual and Methodological Model for the design of the Regional Integrated System of Statistical Registers of Population and Dwellings.



Characterization and prioritization of administrative registers by Perú and Bolivia and support for the Census Pilot in Ecuador and Colombia.



Creation of technical capacity through advice, training and adoption of new technologies for the storage and processing of administrative registers.



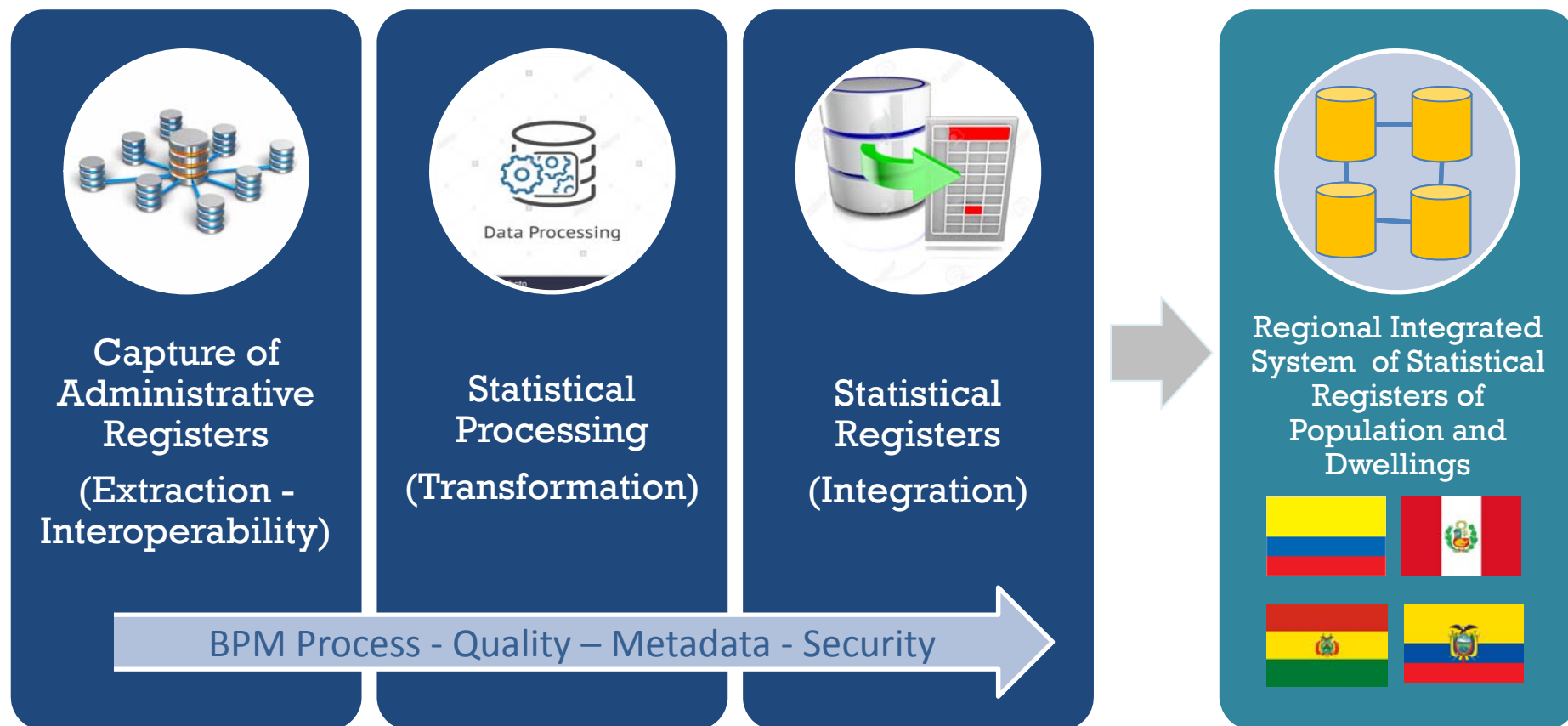
Summary of the current status of the use of Administrative Register (AR) in the CAN.

- Three of the four CAN members have decentralized cadastres at the municipal level.
- The NSO of Bolivia and Perú are in the process of characterization and prioritization of the AR. Bolivia is immersed in a modernization project to improve NSO management based on the use of AR.
- Perú and Ecuador are working on a Residency Registry. Moreover, the four countries have identified the Electrical Energy Registry as an important tool to locate the residency of the population due to its wide coverage.
- Ecuador and Colombia have carried out pilot projects in the islands of San Andrés and Galápagos.

Work proposal to improve Administrative Registers and sharing Statistics Registers in the CAN.

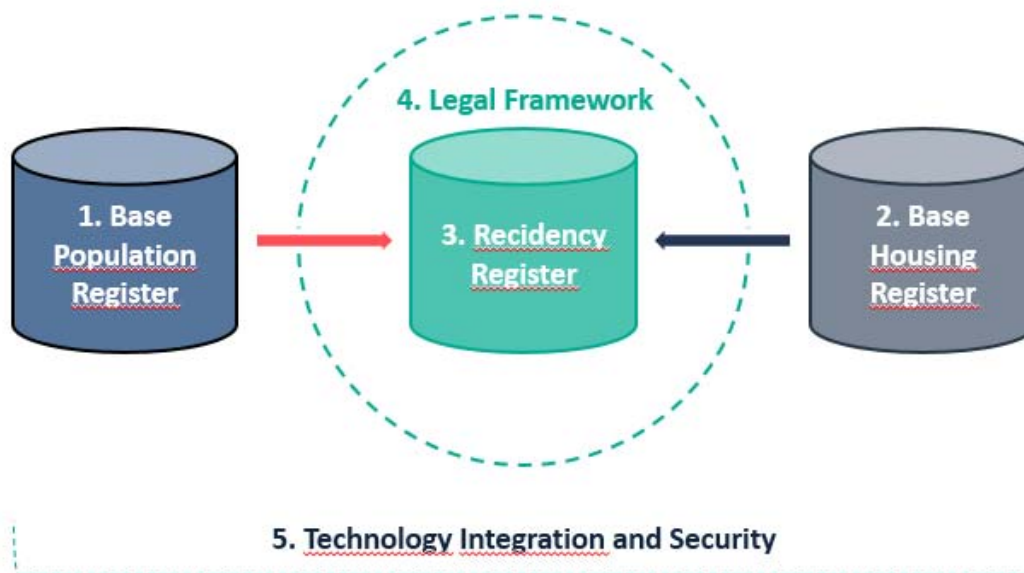
- Work on a set of good practices to adopt a common model based on the four base registers (Population, Activities, Cadastres, Enterprises) as well as adopt or define standards for the processing of administrative registers.
- Implement a common statistical production architecture (CSPA) and continue with adaptation of reference models such as GSBPM, GAMSO, GSIM, which many of the countries have already done so.
- Participate in the strategies of Electronic Government and interoperability on the administrative registers prioritized by the NSO.
- Improve diagnostic tools or questionnaires for administrative registers.
- Development of the Regional Integrated System of Statistical Registers of Population and Dwellings.

Processing of Administrative Registers of Population and Dwellings

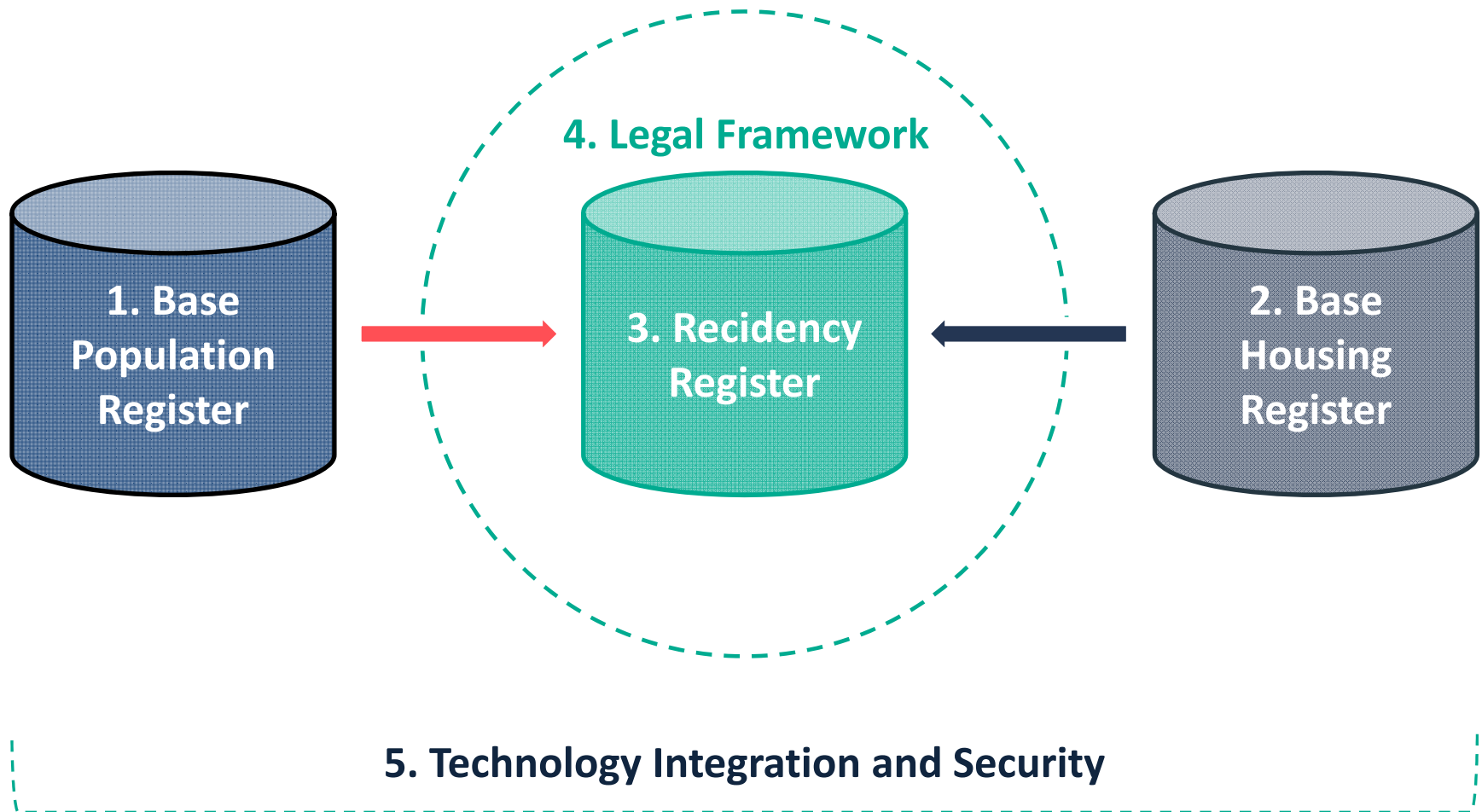


Experience of Ecuador on the use of AR of Population and Housing

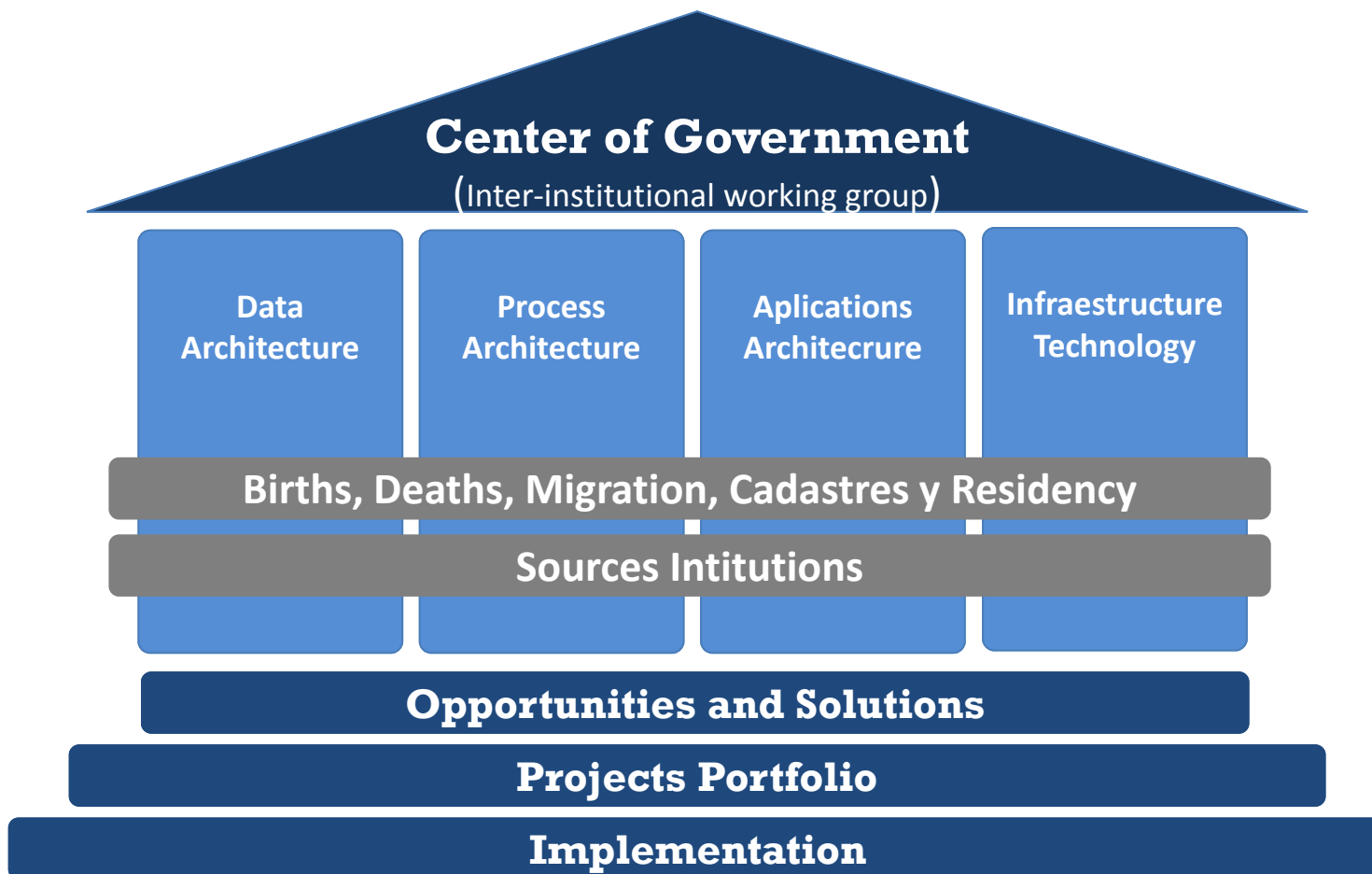
- In Ecuador we hope to carry out a last Traditional Census (through a paper form) in the year 2020.
- In the same year a National Census pilot based on AR will be carried out.



Experiencia de Ecuador sobre preparación para un Censo basado en Registros Administrativos



Interinstitutional architecture preparatory to the census based on AR in Ecuador



System of queries of Statistical Registers coming from administrative sources in Ecuador

The interface displays several categories of registers:

- Actividades
- Empresas
- Inmuebles
- Población

Specific registers listed include:

- CEDULADOS Cedulados Registro Civil
- DISCAPACIDAD
- DIVORCIOS
- MATRIMONIOS Tabla de DIES
- NACIMIENTOS

Selección de registros: Selecciona los registros a consultar: (CI / RUC / Catastro)

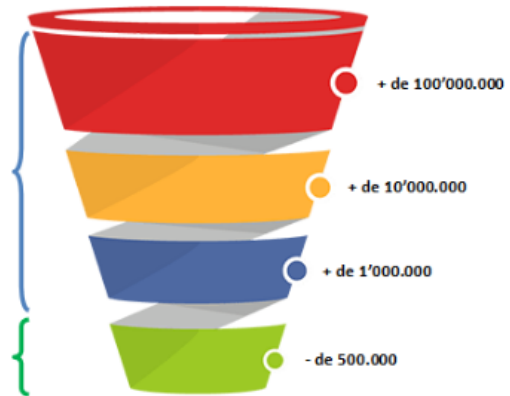
Tema	Registro	Cod
<input checked="" type="checkbox"/>	CEDULADOS pbo_cedulados	ced
<input checked="" type="checkbox"/>	MATRIMONIO pbo_matrimonios	mat

Cruces entre registros: ced.cod_inec_ci = mat.cod_inec_ci_ac_h

Selección de Variables: mat.cod_inec_ci_ac_h, mat.cod_inec_ci_ac_m

Filtros: ced.instruccion:string igual a 3, prov_nacimiento='17'

- Spark R
- Spark Python
- Spark Scala
- Spark Sql
- R Base



DIRAD/Ejercicio Análisis Datos

EJERCICIO CON LAS TABLAS DE CONTRIBUYENTES, DIRECTORIO DE EMPRESA Y CEDULADOS

El siguiente análisis verifica la facilidad del uso de Registros Administrativos en operaciones estadísticas

1. Cargamos los Datos

```
Contribuyentes
SELECT * FROM L_1_instruccion_f_1_contribuyentes_17_2_2017;

Directorio de empresas
SELECT * FROM L_1_instruccion_diretorio_empresa_17_2_2017;

Cedulados
SELECT * FROM L_1_instruccion_f_1_cedulados_17_2_2017;
```

2. Análisis de datos

```
SELECT * FROM contribuyentes;
SELECT * FROM directorio_empresa;
SELECT * FROM cedulados;
```

3. Visualización de datos

- Bar chart: Contribuyentes
- Bar chart: Directorio de empresas
- Line chart: Cedulados
- Line chart: Evolución de Cedulados

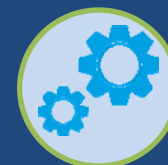
Statistical Conference of the Americas of the ECLAC

Working Group for Administrative Registers (AR)

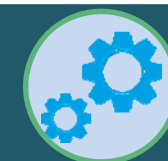
- This working group mainly focuses on the exchange of the best practices for the processing and exploitation of AR.
- The tools developed in the BPR project were adapted by the members and applied again to have a regional diagnosis (11 countries).
- 66 AR have been identified to be useful for the measurement of the indicators of the UN 2030 Agenda (Sustainable Development Goals).
- Four task teams have been created to work on statistics based on AR in the following subjects: 1) Environmental and Water, 2) Security and Violence, 3) Business and Economy and 4) Vital Statistics.

Expected outputs of Regional Group of Work of Administrative Registers

Collect the best regional practices and create a handbook



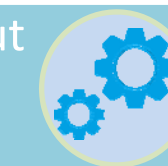
Toolbox for the use of administrative registers.



Strategies for the strengthening of regional collaboration in administrative registers.



Report and socialization with the other working groups about the progress in the processing and use of administrative registers for the measurement of SDGs



THANKS.

Questions?





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