Unified Migration Data Analytical System (UMAS)

Secretariat of the State Commission on Migration Issues

Public Service Development Agency

Ministry of Justice of Georgia

Bangkok, Thailand

5-8 February, 2019

PUBLIC SERVICE DEVELOPMENT AGENCY

Ministry of Justice of Georgia

UNIFIED MIGRATION DATA ANALYTICAL SYSTEM

Briefly about UMAS, Georgia's migration management and data sources

Main talking points:

1. System workflow and architecture;
2. ETL, data quality assessment;
3. Person identification;
4. Business application;
5. Coordination.

Progress from 2014 to present

Project concept developed

Legal framework adjusted

Project team staffed

Data sources secured

System trial version

Test analytical reports

Operation in real settings

New data sources added

Developm ent of business processes

Team staffing ongoing

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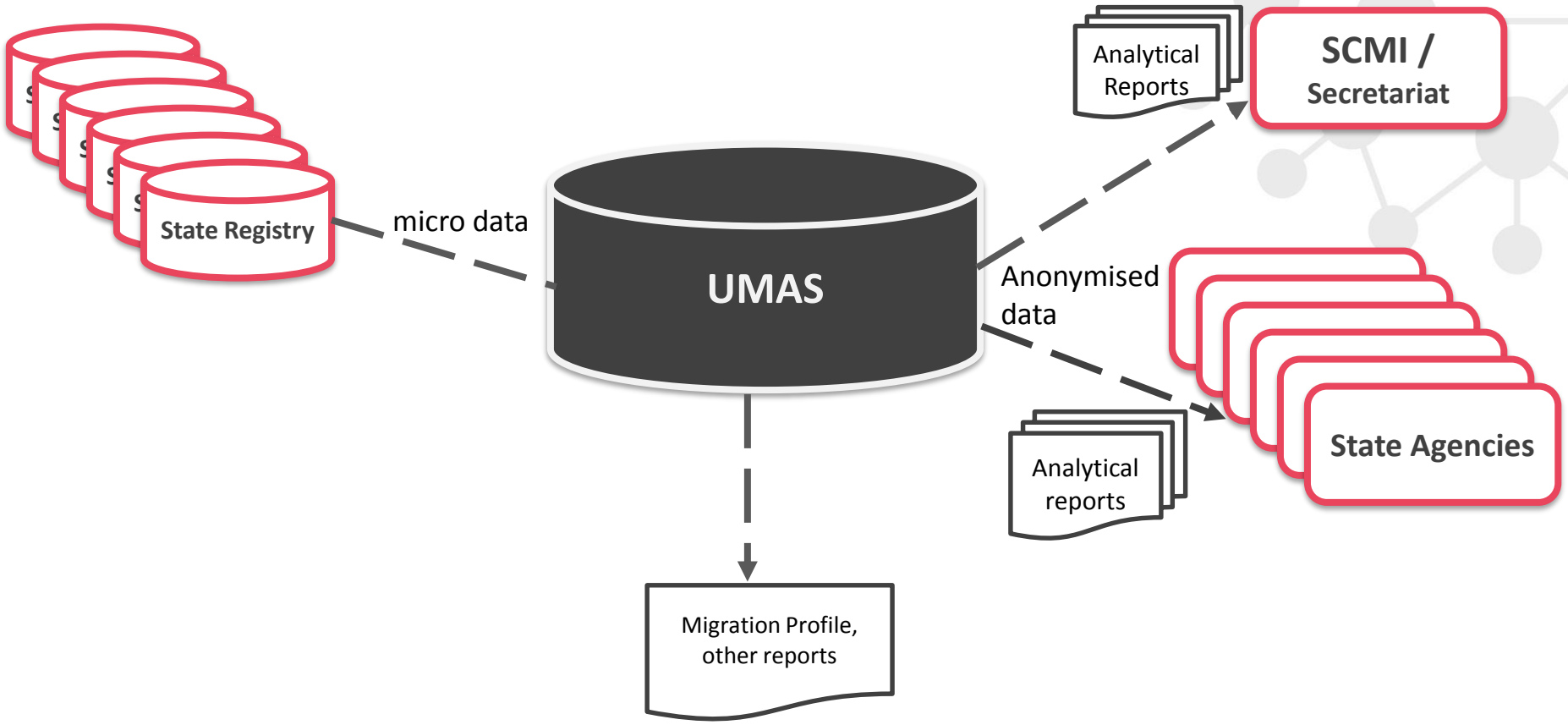
UNIFIED MIGRATION DATA ANALYTICAL SYSTEM



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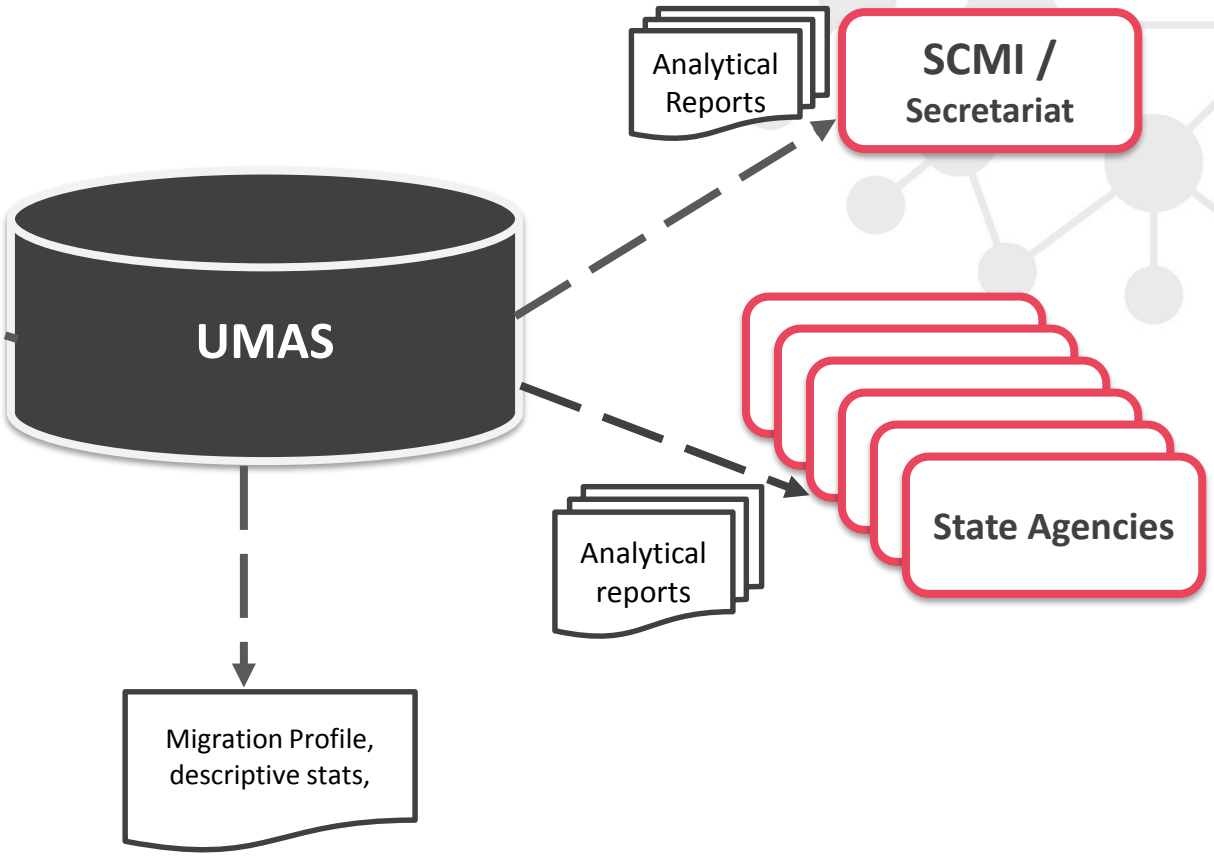
- Ministry of Internal Affairs;
- State Security Service of Georgia;
- **Public Service Development Agency;**
- National Agency of Public Registry;
- Ministry of Finance;
- Ministry of Foreign Affairs;
- Ministry of Education and Science.



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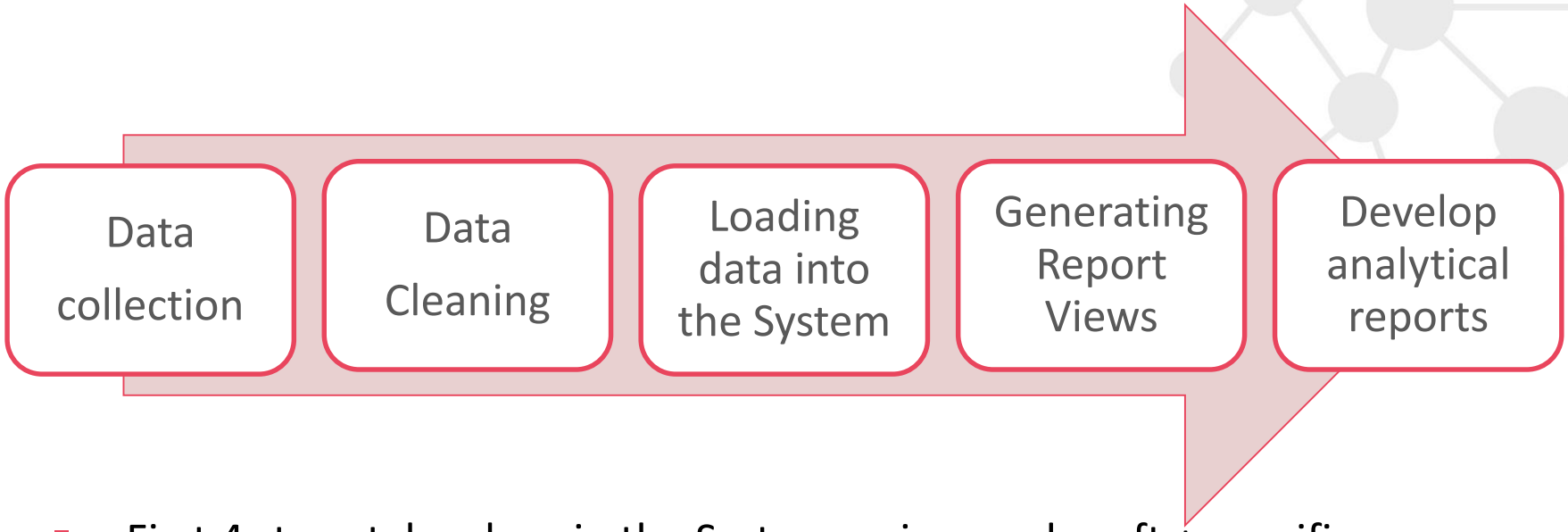
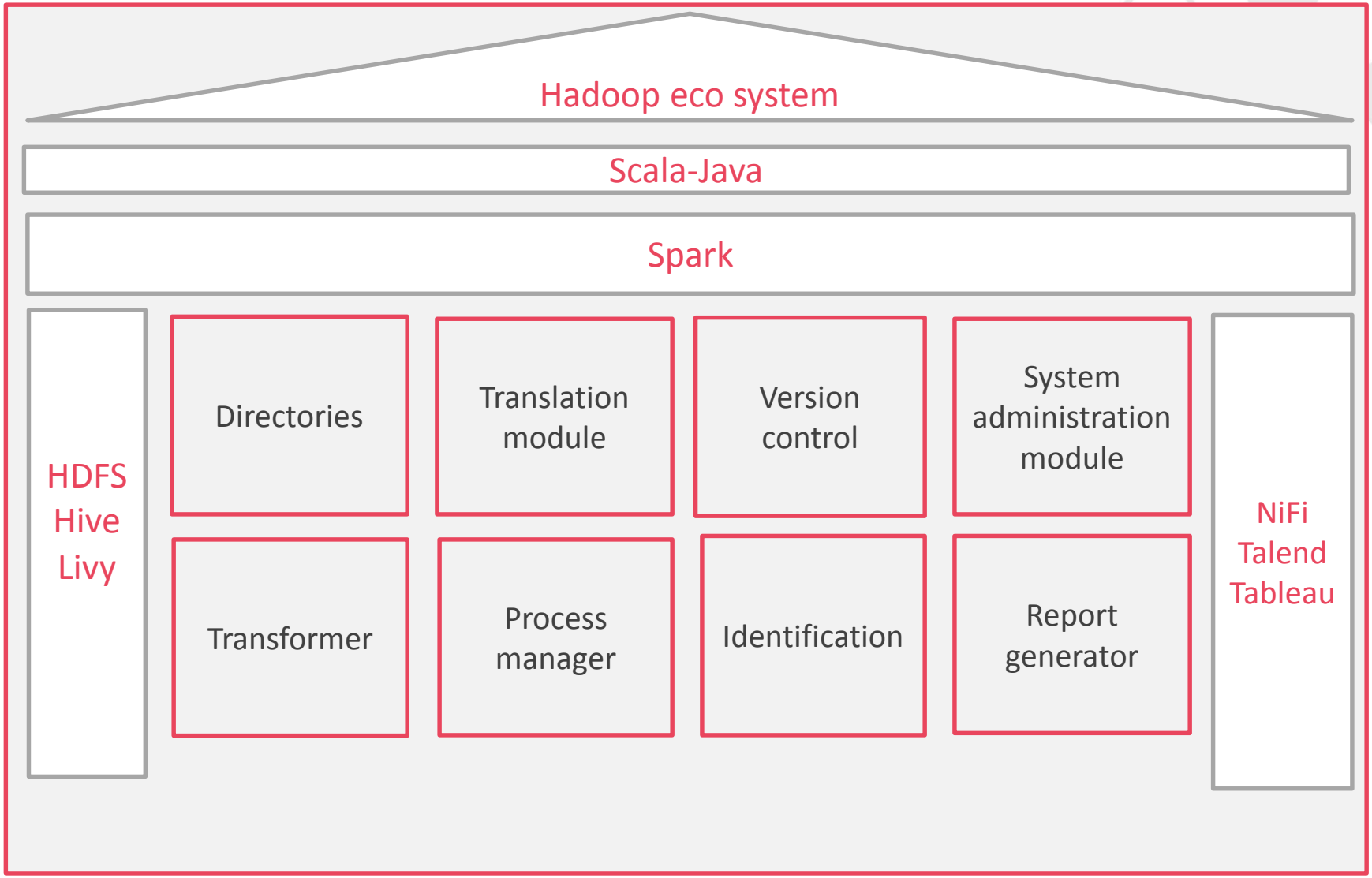
1. System workflow and architecture

Simplified workflow



- First 4 steps take place in the System, using ready soft + specific scripts;
- 5th step is implemented outside the system (BI tool).

Components of the System



2. Data cleaning and quality assessments

Data Cleaning throughout ETL

- Deleting additional symbols;
- Cleaning from duplicates;
- Deleting incorrect entries;
- Systematizing date formats;
- Systematize coding;
- Correcting entries where possible after analyzing the relevant business processes.

!! *Cleaning, analyzing and correcting data points typically used for person identification is of particular importance.*

Data Cleaning throughout ETL

A **data passport** is prepared for each data source:

- Every data point is analysed separately;
- abnormalities studied and cross-checked with the business process;
- recommendations and questions noted if relevant.

Data quality assessment needed to understand and interpret the results and to work with the data sources in the future where possible.

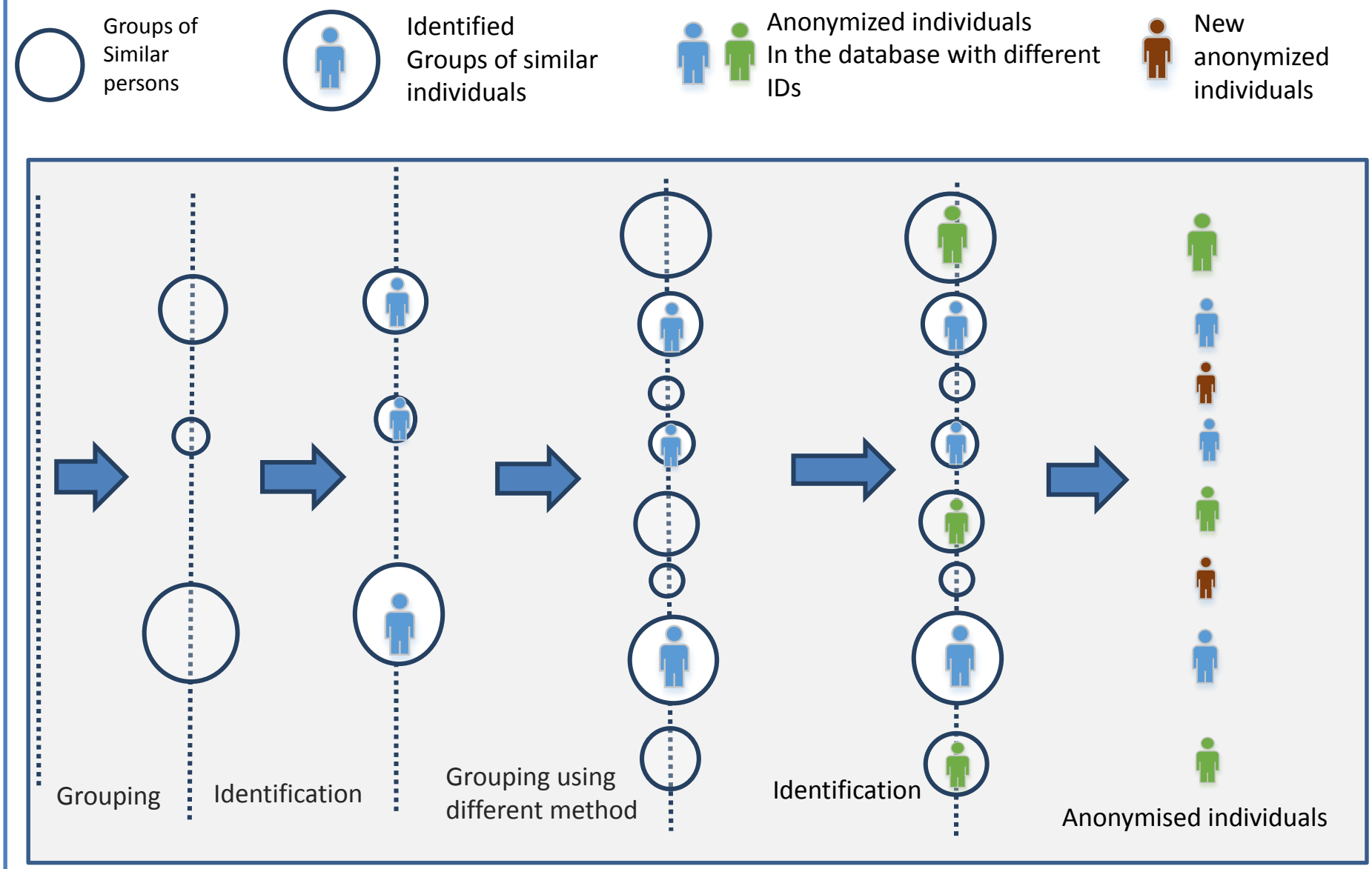
3. Person identification

Data needed for person identification

Varies across the data sources:

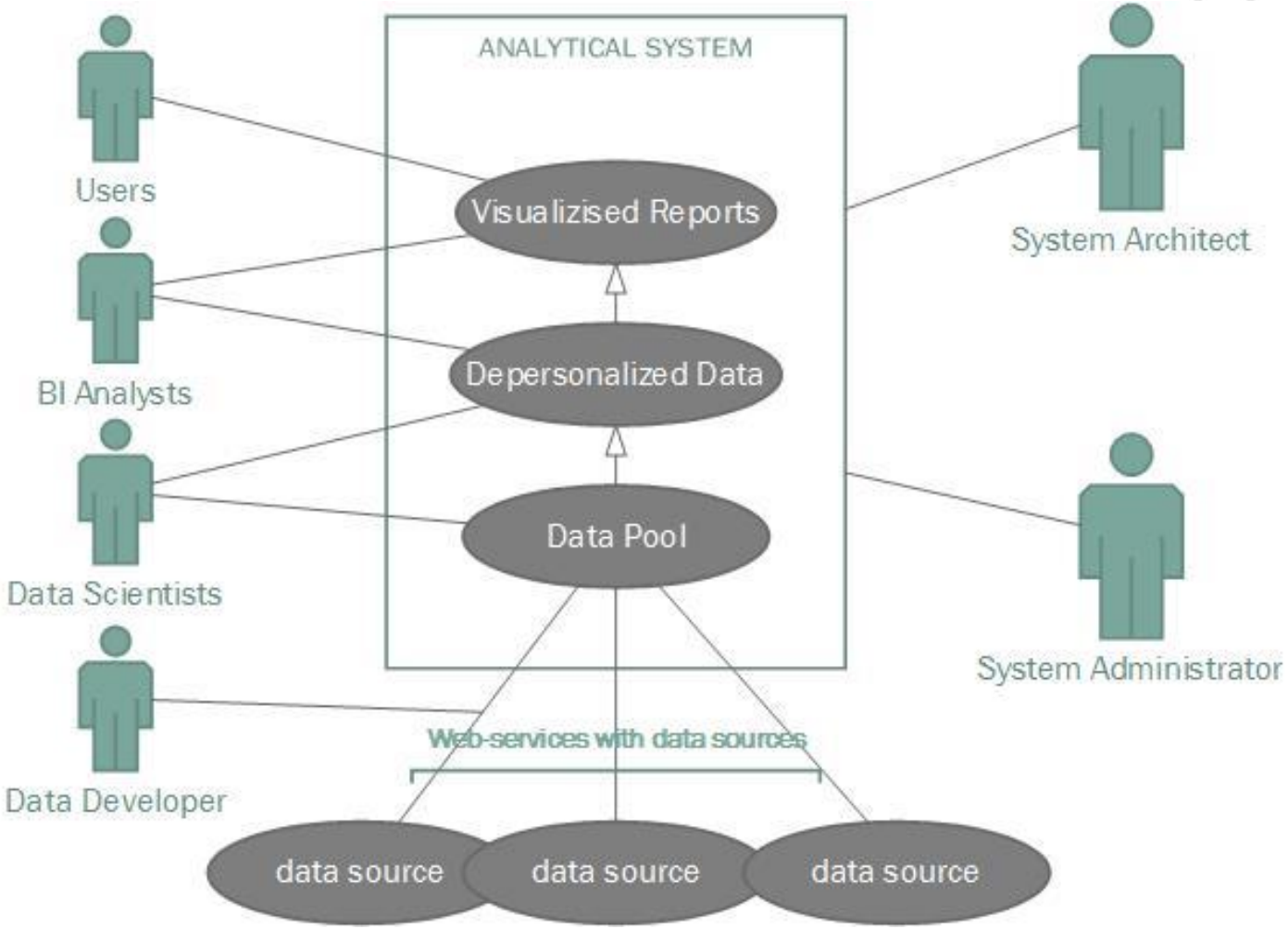
- Name in English
- Last name in English
- Name in Georgian
- Last name in Georgian
- Date of birth
- Identity number
- Passport number
- Citizenship
- Passport issue date
- Place of birth
- Tax identity number

Person identification process



4. Business application

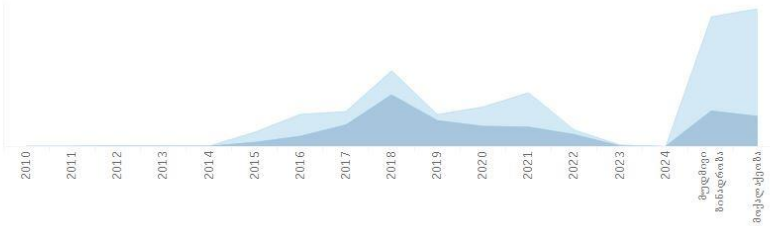
Access to different layers of the System



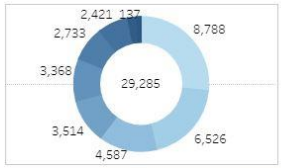
Application

- UMAS is Primarily a ‘B2B’ system, focusing on the needs of the state agencies involved in migration management.
- the System is intended as a business intelligence tool, improvement and production of the migration statistics is not the primary goal, but rather a positive by-product.
- It is an analytical system and cannot be used for administrative of operative purposes.
- Users can apply using special request form and receive a report with access to anonymous individual data.

ზოგადი მიმოხილვა | მოქალაქეობების, სქესისა და ასაკის მიხედვით | ბინადრობებისა და მოქალაქეობების ანალიზი | ანგარიში 7-ის მეთოდოლოგია



29 285 უცხო ქვეყნის მოქალაქემ მიიღო ბინადრობის ნებართვა

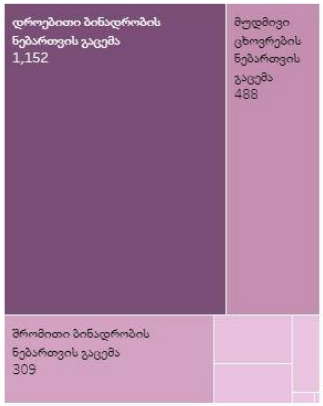


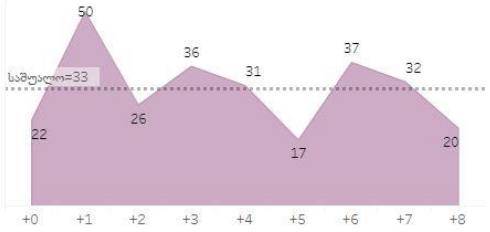
8 958 უცხო ქვეყნის მოქალაქეს მიენიჭა მოქალაქეობა

მოქალაქეობები
(All)

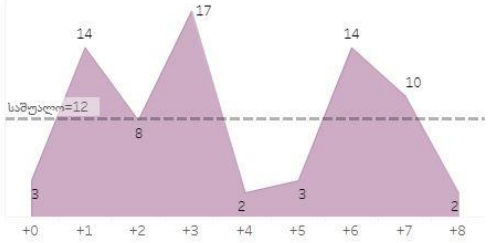
საქართველოს მოქალაქეობის საგამონაკლისო წესით მინიჭება	საქართველოს მოქალაქეობის მიღება	საქართველოს მოქალაქეობის გამარტივებული წესით მინიჭება	საქართველოს მოქალაქეობის აღდგენის წესით მინიჭება	საქართველოს მოქალაქეობის ჩვეულებრივი წესით მინიჭება
8,917	16	13	10	5

1 768 პირმა მიიღო ბინადრობის ნებართვა შემდეგ წლებშიც
252 პირმა შეიტანა განაცხადი მოქალაქეობაზე
96 - მიენიჭა მოქალაქეობა

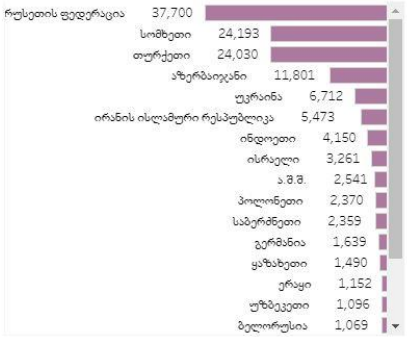




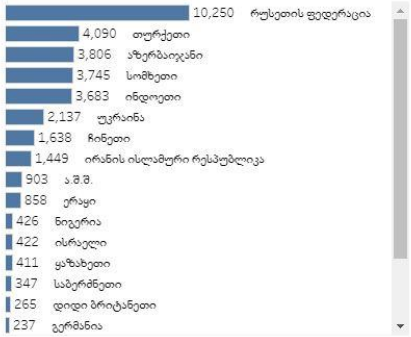
მოქალაქეობის მინიჭებაზე მეტანილი განაცხადები
(2010 წელს დროებითი ბინადრობის მიღებიდან მერამდენე წელს)
მოქალაქეობის მინიჭება

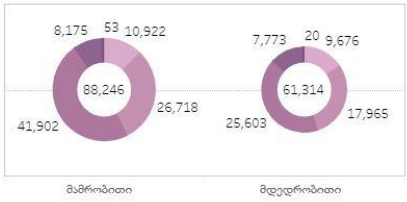


149 560 პირს არ მიუღია მოქალაქეობა ამ ბინადრობა

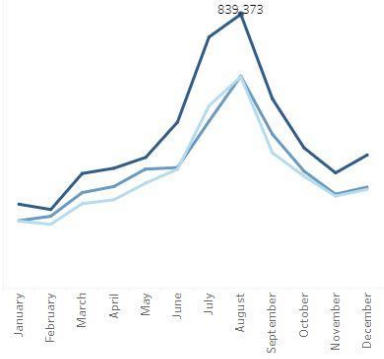


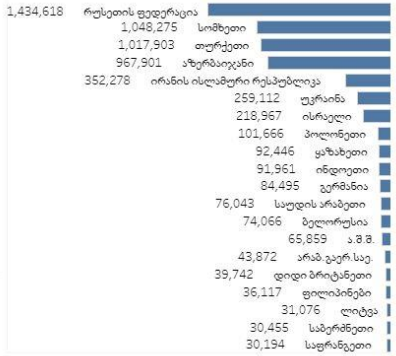
37 098 პირმა მიიღო ბინადრობა ამ მოქალაქეობა





2015-2017 წწ-ში შემოვიდა 6 662 928 უცხო ქვეყნის მოქალაქე
2015 -- 2.5 მლნ.
2016 -- 2.7 მლნ.
2017 -- 3.5 მლნ.
ტოპ 20 ქვეყანა --- 6.1 მლნ.



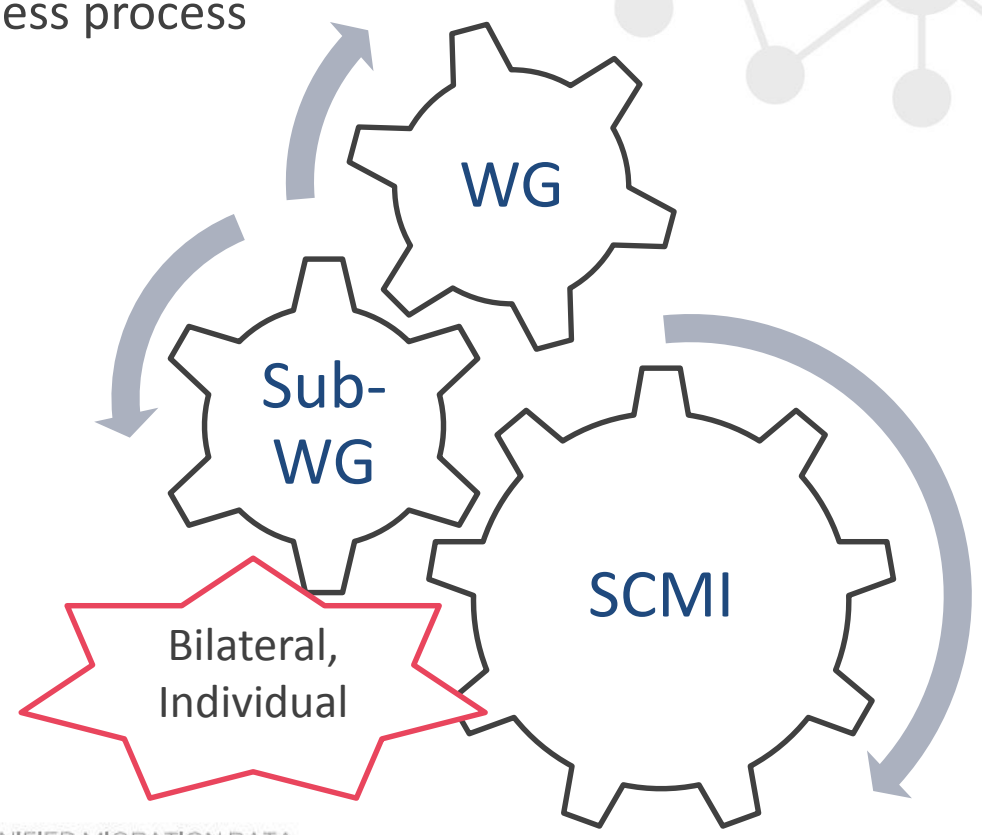


1 თვე და ნაკლები	1-6 თვე	6 თვე - 1 წელი	1 წელზე მეტი
6,020,888	342,583	112,799	186,658
90.36%	5.14%	1.69%	2.80%

5. Coordination

Coordination on many levels is important because of:

1. Regular data exchange;
2. Report request and generation;
3. Understanding the details of business process behind data;
4. Interpretation of the results;
5. Maintain political support;



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