



**India-UN** Development  
Partnership Fund 



## PhD Ion AMARFII

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**Technical peculiarities of implementation of  
the IS „Population and Migration Statistics ”**

# Objectives of the IS „Population and Migration Statistics“



•Automation of the activities of collection, storage, and processing of administrative data and/or individual/personal data, in order to produce indicators related to the demographic statistics and provide powerful IT support to assist decision-making processes.



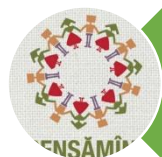
•Reducing the pressure on respondents, the costs of producing official statistics in the field of demography, and the administrative burden on data sources by using extensively the interoperability mechanisms.



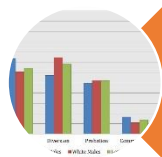
•Increasing the quality of demographic statistics products and relevant statistical data by ensuring automatic data processing, according to the established validation rules, implemented statistical indicators calculation algorithms and continuous monitoring of the quality of input and output data.



•Diversification of the developed and disseminated statistical indicators by implementing innovative calculation methodologies and applying the feedback mechanism from the beneficiaries of statistical products in order to develop statistical products that meet the current needs of users, including responding to crises (example: COVID-19 pandemic).

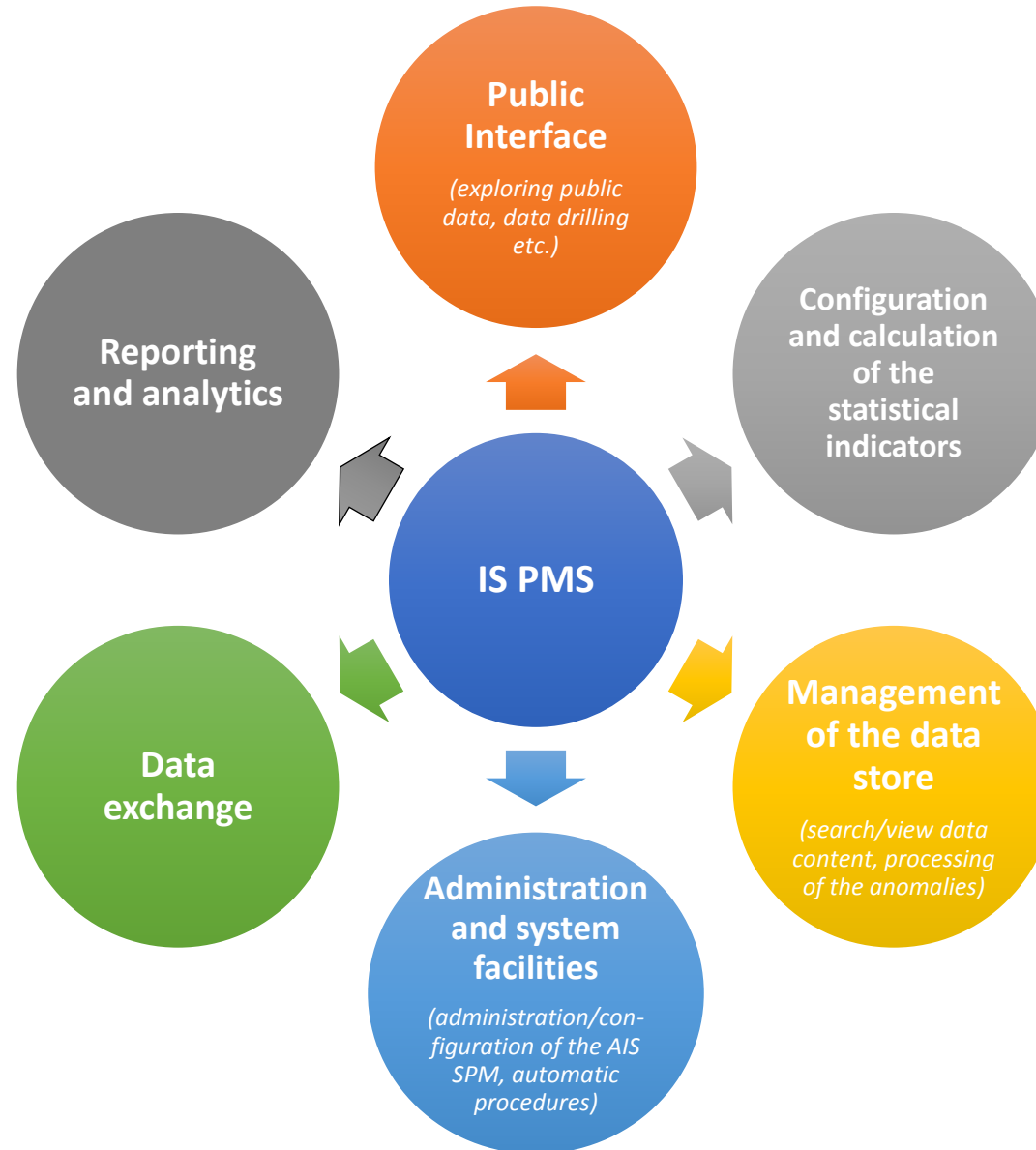


•Ensuring in the short and medium-term the primary data needed to conduct the population census and in the long term moving to census-based or registers, to reduce costs, increase the frequency of data production, improve coverage and reduce the pressure on the respondents.

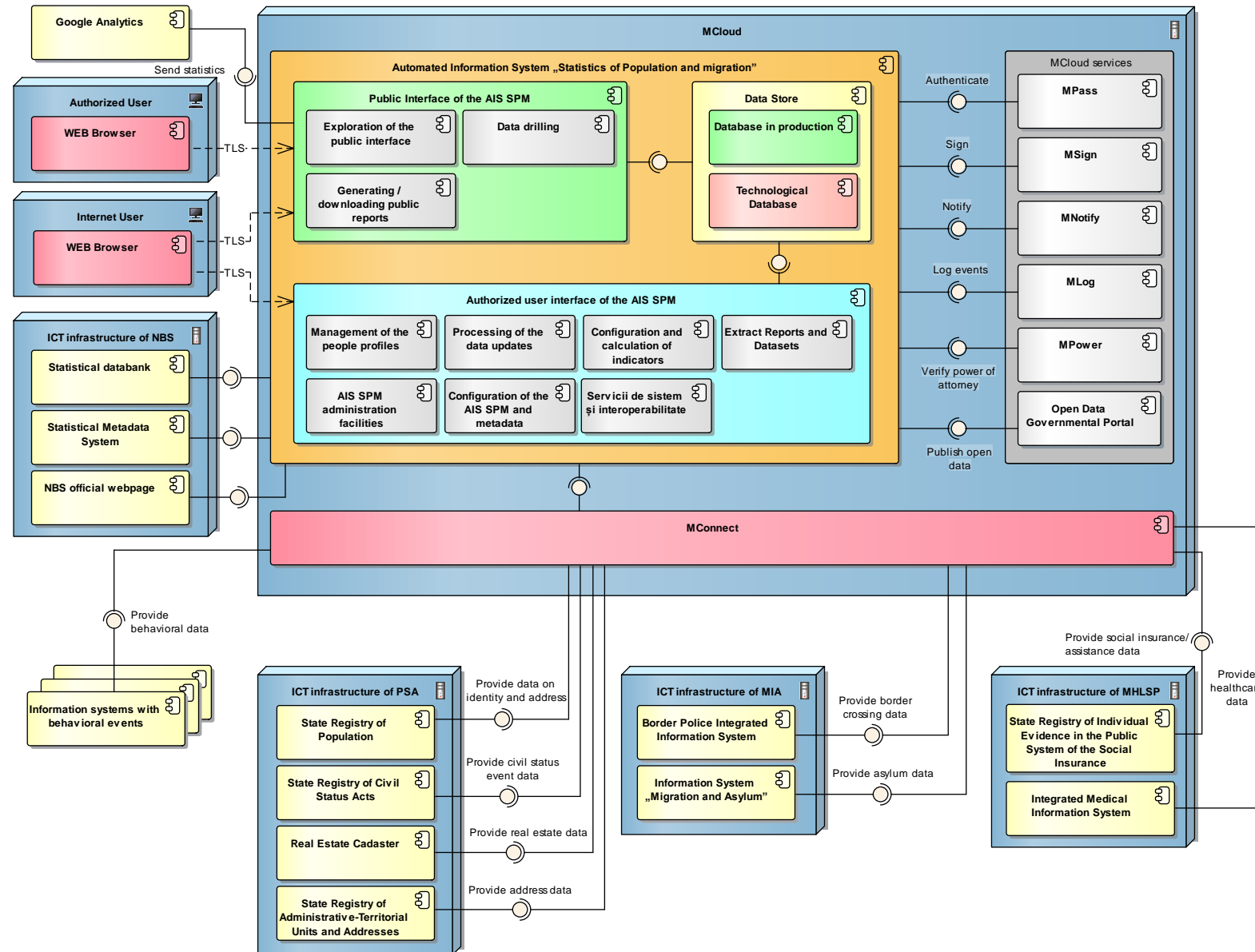


•Improving the quality of estimates obtained in survey research by using the IS PMS as a qualitative survey basis and as the auxiliary data source for calibrating estimates and modeling the behavior of non-respondents.

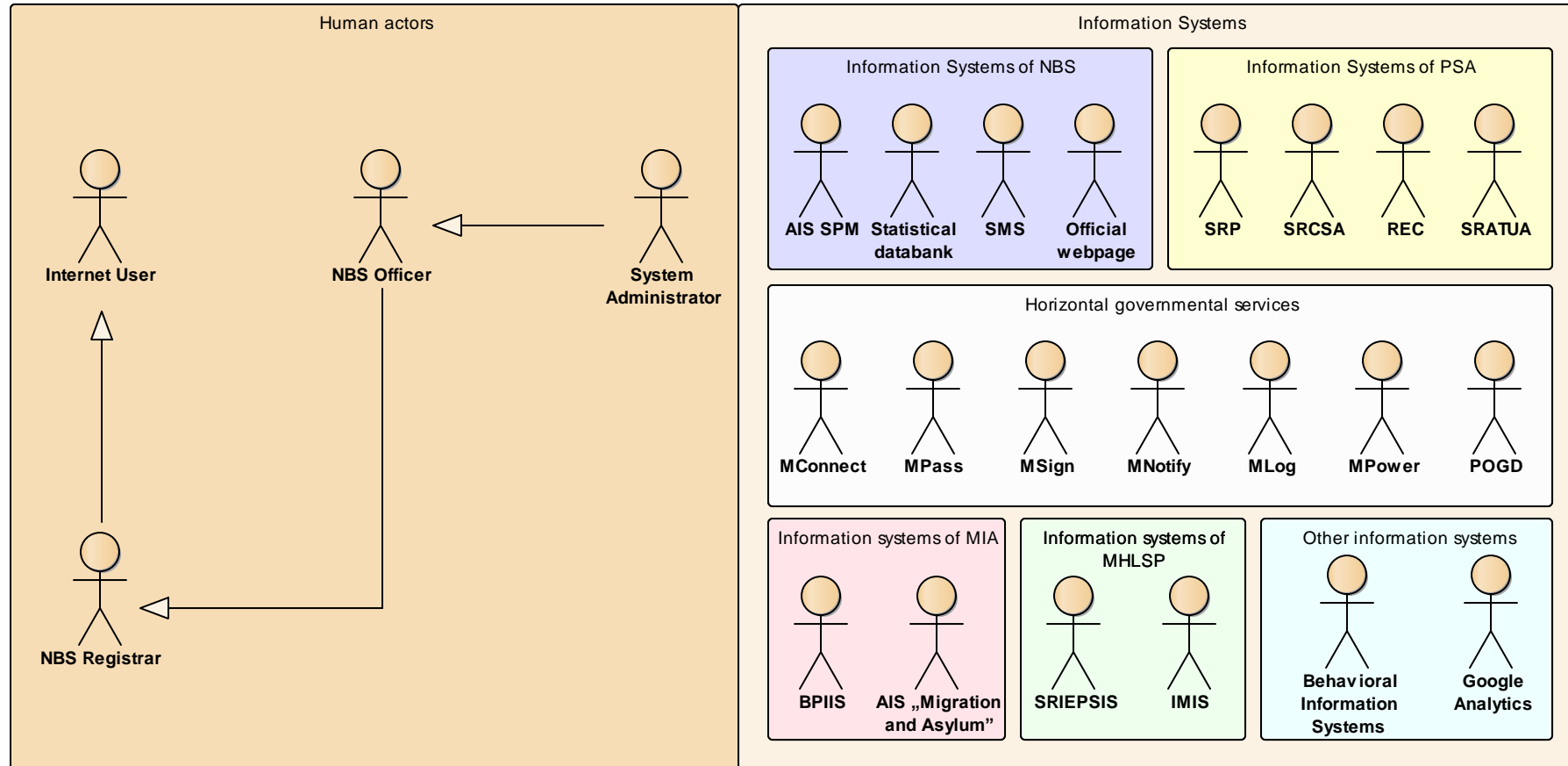
# Scope of the AIS SPM



# Architecture of the AIS SPM



# Actorii SIA SPM



# Functionalities of the AIS SPM

## Public interface

- Exploring the informational content of the AIS SPM public interface
- Generation and downloading the statistical reports provided by AIS SPM through the public interface
- Data drilling

## Authorized users' interface

- Authorized user dashboard
- Search/view SI PMS data (people profiles, life/behavioral events, statistical indicators, etc.)
- Managing the informational content of the SI PMS (manual entry/modifying of SI PMS data)
- Configuration of the statistical indicators
- Solving the anomalies found following the import and processing of data received from the external information systems
- Launching and monitor the procedure for calculating statistical indicators
- Statistical report generation

## Administration facilities

- User administration and access control
- Management of the SI PMS metadata
- SI PMS Configuration
- SI PMS operational monitoring, diagnostics and troubleshooting

## System tools

- Bidirectional data exchange between SI PMS and external information systems
- ETL mechanism for processing the data received from external sources
- Calculation of the values of the configured statistical indicators
- User notification
- Event logging
- Automated routines related to the SI PMS business processes
- Backup/restore facilities

# Implementation roadmap for the AIS SPM

## February - March 2021

- Define the procurement strategy
- Develop functional and technical requirements for the SI PMS
- Approve the functional and technical requirements of the SI PMS
- Preparation of the TOR and RFP for selection the software vendor of SI PMS
- *(in parallel - April-May 2021 - Endorsement and approval of the concept of integrated information system)*

## June-July 2021

- Procurement process – selection of the software vendor for SI PMS

## June 2021- March 2022

- Design of the SI PMS
- Development of the SI PMS
- Implementation of the interoperability facilities related to the SI PMS
- Data population and data migration into SI PMS
- Testing and acceptance of SI PMS
- User training
- Preparing, amending and adopting related legal acts (laws, normative acts, regulations etc.)

## April 2022 - June 2023

- Transfer of the SI PMS to NBS
- Public outreach and communication
- Final user acceptance tests and exploitation of the software during the stabilization period
- 12 months of post-implementation support and warranty after the stabilization period



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## Questions and answers

