Big Data Strategy
governance e-Transformation Agenda

Government of Moldova

October 24rh , 2012
Jerusalem

Outline

- Definition
- Challenges
- Big Data Strategy: constituents
  - Capture
  - Store
  - Distribute
  - Manage
  - Analyze
- Moldova Big Data priorities

Definition

- "BIG data describes large volumes of high velocity, complex and variable data that require advanced techniques and technologies to enable the capture, storage, distribution, management, and analysis of the information."

Demystifying Big Data:
a practical guide to transforming the business of government,
TechAmerica Foundation : Federal Big Data Commission.
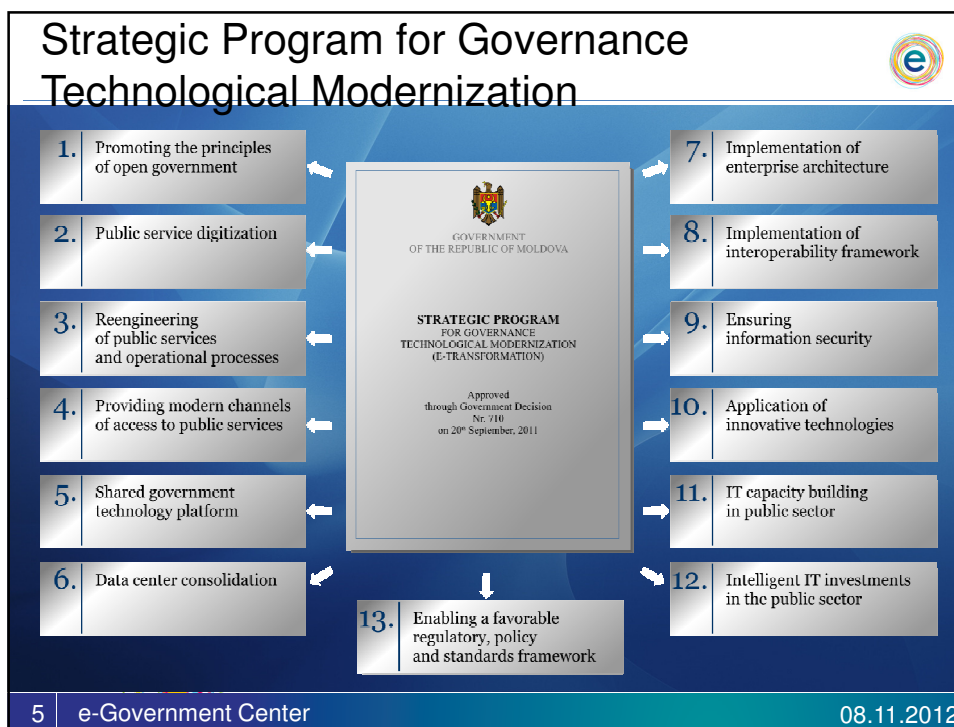
Challenges

- Achieve the goals of the:
  - Government technology strategy (Strategic Program for Governance technological modernization, Government Decision 710, 20-sep 2011);
  - Public service reform program (Government Decision, 10-oct 2012);

Strategic Program for Governance Technological Modernization

1.	Promoting the principles of open government		7.	Implementation of enterprise architecture
2.	Public service digitization		8.	Implementation of interoperability framework
3.	Reengineering of public services and operational processes	STRATEGIC PROGRAM FOR GOVERNANCE TECHNOLOGICAL MODERNIZATION (E-TRANSFORMATION)	9.	Ensuring information security
4.	Providing modern channels of access to public services	Approved through Government Decision Nr. 710 on 20th September, 2011	10.	Application of innovative technologies
5.	Shared government technology platform		11.	IT capacity building in public sector
6.	Data center consolidation		12.	Intelligent IT investments in the public sector
		13. Enabling a favorable regulatory, policy and standards framework		

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Big Data Challenges

- How do we capture, manage and exploit all this new data?
- How do we secure and govern it?
- How do we improve cross-organizational information sharing across the government?
- How do we build trust in the data collected by the government?
- What advanced visualization techniques, tools, and formats are available for presenting information to enable quick analysis and to create new insights?
- How do we bridge the gap in talent and human capital to take advantage?

Big Data Strategy: constituents

- Big Data Strategy: constituents
  - Capture
  - Store
  - Distribute
  - Manage
  - Analyze

Big Data: Capture

Capture key initiatives:

- Digitization of registries and archives;
- Crowd sourcing (www.alerte.md and others);
- Internet of things
  - Video surveillance and monitoring;

Big Data: Store

- Data Store Strategy considering:
  - Frequency of use;
  - Time to preserve;
  - Data format;
  - Distribution SLAs – availability requirements;
  - Sensitivity of data;
- Develop data store infrastructure as part of the M-Cloud
  - Public data stored in public cloud, private data stored in M-Cloud;
  - Enterprise archiving platform.

Big Data: Distribute

- Access to (big) data
  - Open data initiative
  - Access policies for protecting internal and special data;
  - Protecting personal data and privacy
- Data re-use policy
- Semantic interoperability

Open Data Initiative in Moldova

Date.gov.md stats

480 datasets

30 public authorities
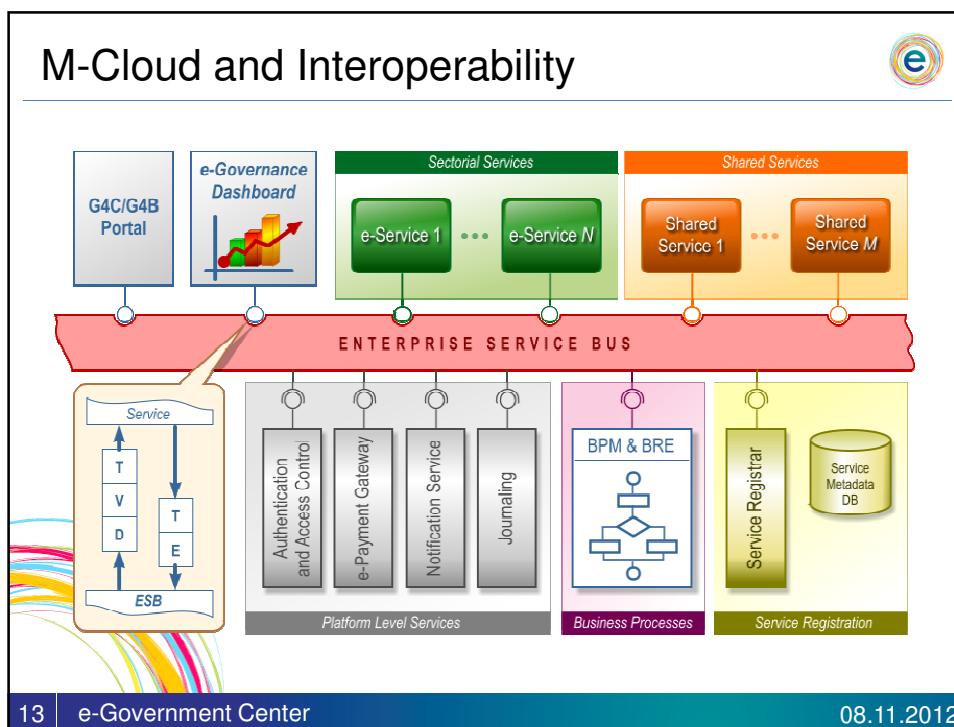
Over **150,000** downloads

Most active:
- Ministry of Internal Affairs
- Public Procurement Agency
- Ministry of ICT
- Ministry of Health
- Ministry of Education

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Big Data: Manage

- Big data enterprise model
  - Infrastructure
    - M-Pass – identity and access management;
    - Storage infrastructure;
    - M-Cloud;
    - Interoperability platform – integration layer;
  - Core technologies
    - Data warehouse;
  - Accelerators
    - GIS
    - Imaging and video
  - Common metadata management
- Data lifecycle
- Data ownership

M-Cloud and Interoperability

Big Data: Analyze

- Business Intelligence and data analytics;
- Data and Information analyst as part of CIO offices in each ministry and government agency;

Moldova Big Data strategic priorities

- Develop big data infrastructure and management capability in the government;
- Develop government big data roadmap and localize it in each government ministry and agency;
- Develop analytical capacity in the government;
- Speed up the uptake of big data in government (central and local).

thank you
for your attention