



Enterprise Architecture in the Hungarian Central Statistical Office

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Definition of the EA

Enterprise architecture (EA) is

- a discipline
- for proactively and holistically leading enterprise responses to disruptive forces
- by identifying and analyzing the execution of change toward desired business vision and outcomes.
- EA delivers value by presenting business and IT leaders with signature-ready recommendations for adjusting policies and projects to achieve target business outcomes that capitalize on relevant business disruptions.
- EA is used to steer decision making toward the evolution of the future state architecture.

Source: http://www.gartner.com/it-glossary/enterprise-architecture-ea/



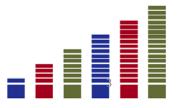
Introduction [1]

Strategic goals:

- Revision of the Business, Information, Application Architectures
- Elaboration of the Enterprise Architecture

Driving force behind this action:

- to support the efficient cooperation between NSIs
 (by using international standards: CSPA, GAMSO, GSBPM, GSIM)
- to overview the processes and objects
- to support methodological standardisation

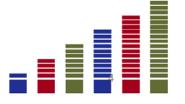




Introduction [2]

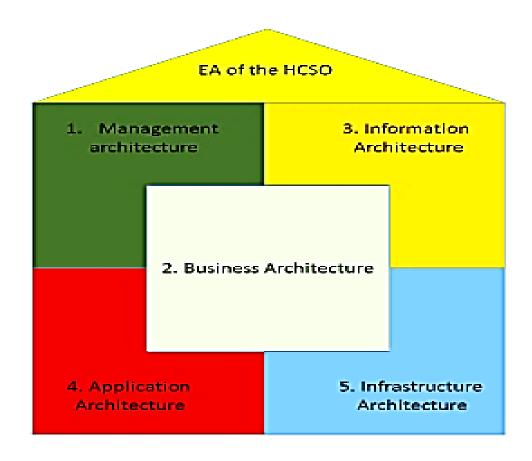
Current situation at the HCSO

- Business, Information, Application Architecture have a long history due to the metainformation system of the HCSO
- Metainformation system of the HCSO supports the statistical and supporting activities with metadata-driven IT applications.
- Elaboration of the EA in the framework of a project (27 members, divided into 7 subgroups)





New Enterprise Architecture Model of the HCSO







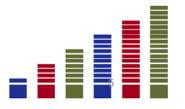
Management Architecture [1]

Definition:

The MA 'describes and defines the activities that take place within a typical statistical organization. It extends and complements the Generic Statistical Business Process Model (GSBPM) by adding additional activities needed to support statistical production' (UNECE, GAMSO ver. 1.0. description)

• International standard to be used:

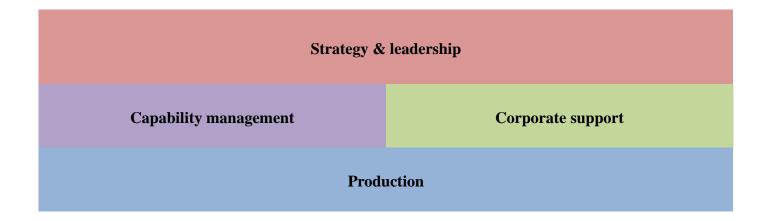
Generic Activity Model for Statistical Organisations (GAMSO)

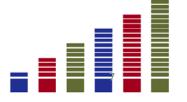




Management Architecture [2]

Structure of the GAMSO







Business Architecture [1]

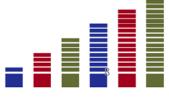
Definition:

'Business Architecture covers all the activities undertaken by a statistical organization, including those undertaken to conceptualize, design, build and maintain information and application assets used in the production of statistical outputs. Business Architecture drives the Information, Application and Technology architectures for a statistical organization.'

(UNECE, CSPA ver. 1.1. description)

International standard to be used:

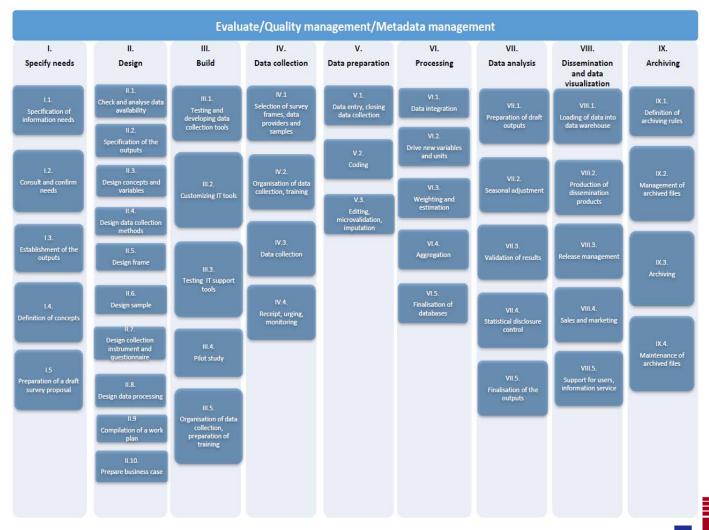
Generic Statistical Business Process Model (GSBPM) – national version (ESTFM)





Business Architecture [2]

The Hungarian Statistical Business Process Model (ESTFM)





Information Architecture

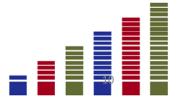
Definition:

'Information Architecture (IA) classifies the information and knowledge assets gathered, produced and used within the Business Architecture. It also describes the information standards and frameworks that underpin the statistical information. IA facilitates discoverability and accessibility, leading to greater reuse and sharing.'

(UNECE, CSPA ver. 1.1. description)

International standard to be used:

Generic Statistical Information Model (GSIM) – for mapping



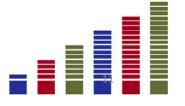


Application Architecture [1]

Definition:

'Application Architecture (AA) classifies and hosts the individual applications describing their deployment, interactions, and relationships with the business processes of the organization (e.g. estimation, editing and seasonal adjustment tools, etc.). AA facilitates discoverability and accessibility, leading to greater reuse and sharing. ' (UNECE, CSPA ver. 1.1. description)

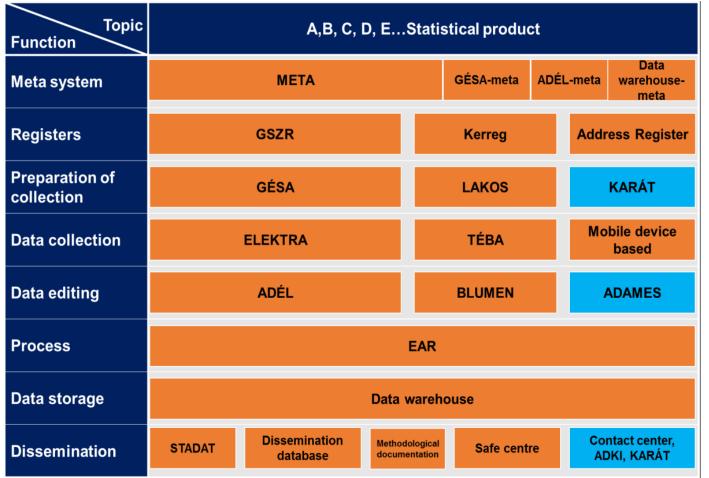
 As there are no international standards for describing this architecture, therefore this architecture will be described according to the present practices of the HCSO.





Application Architecture [2]

Classification of main IT applications by function





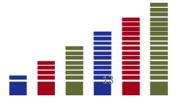


Infrastructure Architecture

Definition:

The Infrastructure Architecture 'describes the infrastructure technology underlying (supporting) the other architecture perspectives' (UNECE, CSPA ver. 1.1. description).

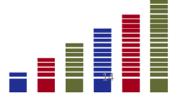
 As there are no international standards for describing this architecture, therefore this architecture will be described according to the present practices of the HCSO.





Next steps

- Implementation of the international standards
- Elaborating and implementing the EA in the HCSO
- On a longer term conduction of an analysis mapped against the model (discovering white spots and areas to be modified)





Thank you for the attention!

