

Criticality of Business and Technology Collaboration

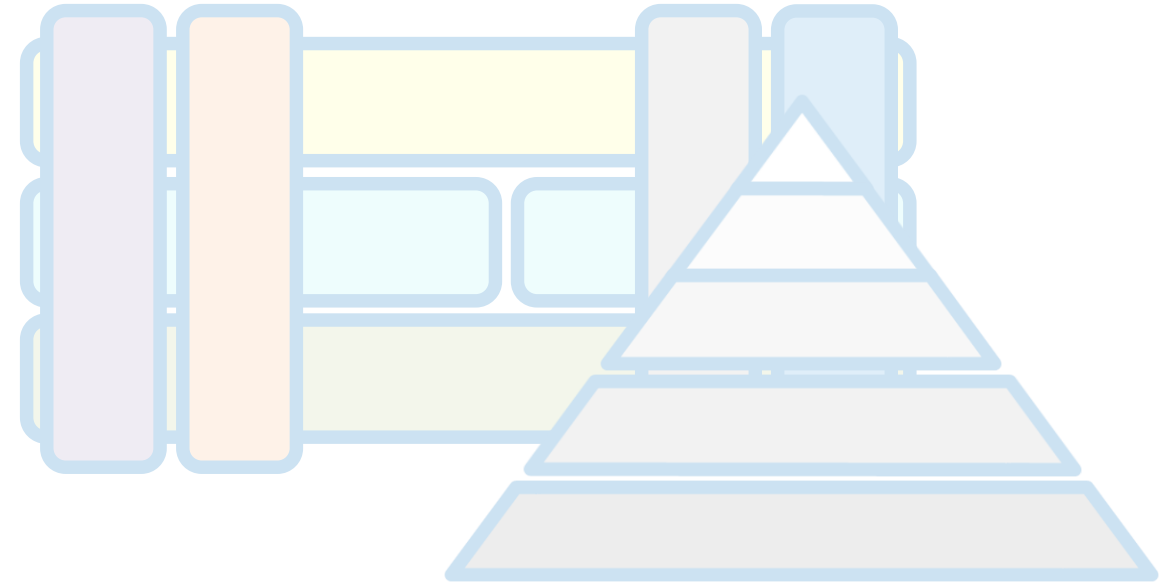
*Applying EA as common sense to the Digital Transformation
of Public Administration Services.*

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- Advisor for EA and National Plan of Architecture,
- Department of the Chief Architect of eGovernment, Digital & Information Agency of Czech Republic

Agenda - Summary

- Digitization of public administration up to its digital transformation is never the task of the IT department and certainly not a matter of implementing some SW and HW.
- We know about it in the Czech Republic, because we are not good enough at it, it is our big challenge.
 - In eGovernment, we followed the path of legislation and IT solutions, but we are lagging behind in changes in administration and thinking of officials and clients
 - We underestimated the investment in experts -> existing officials will not digitally transform themselves and start delivering services even by buying trains of technology
 - This is also a lesson from the history of our eGovernment – see The Open Group Case Study
- New knowledge of systems thinking must also be used.
 - Although Enterprise Architecture is just a bit of formalized common sense.
 - Experience proven in business must also be applied in Government
- The organizational structures of transforming organizations must also adapt to new tasks and new professions:
 - Applying EA to organizational structure = organizational architecture



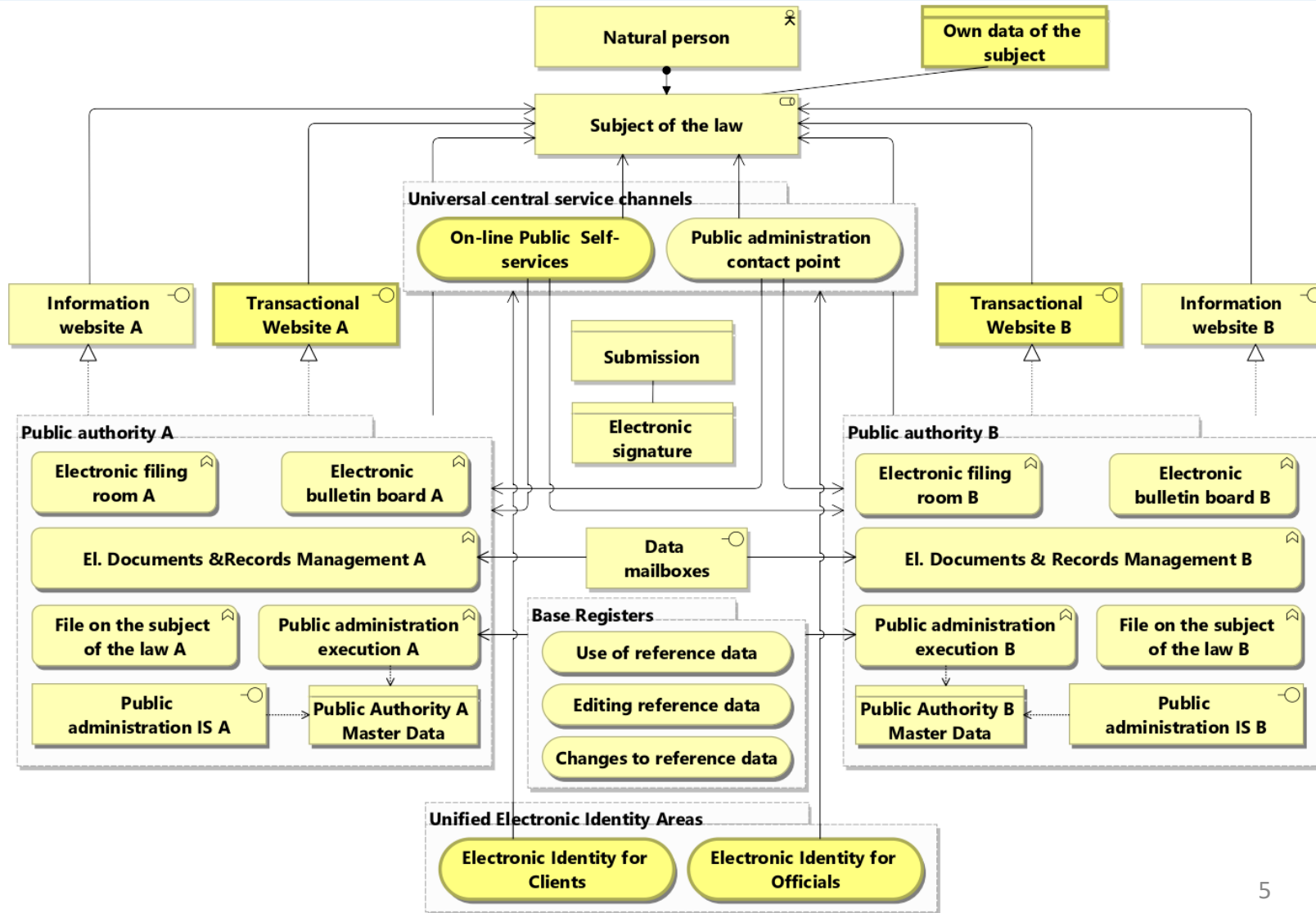
History and Present of the Czech eGovernment

From The Open Group Case Study, 2022

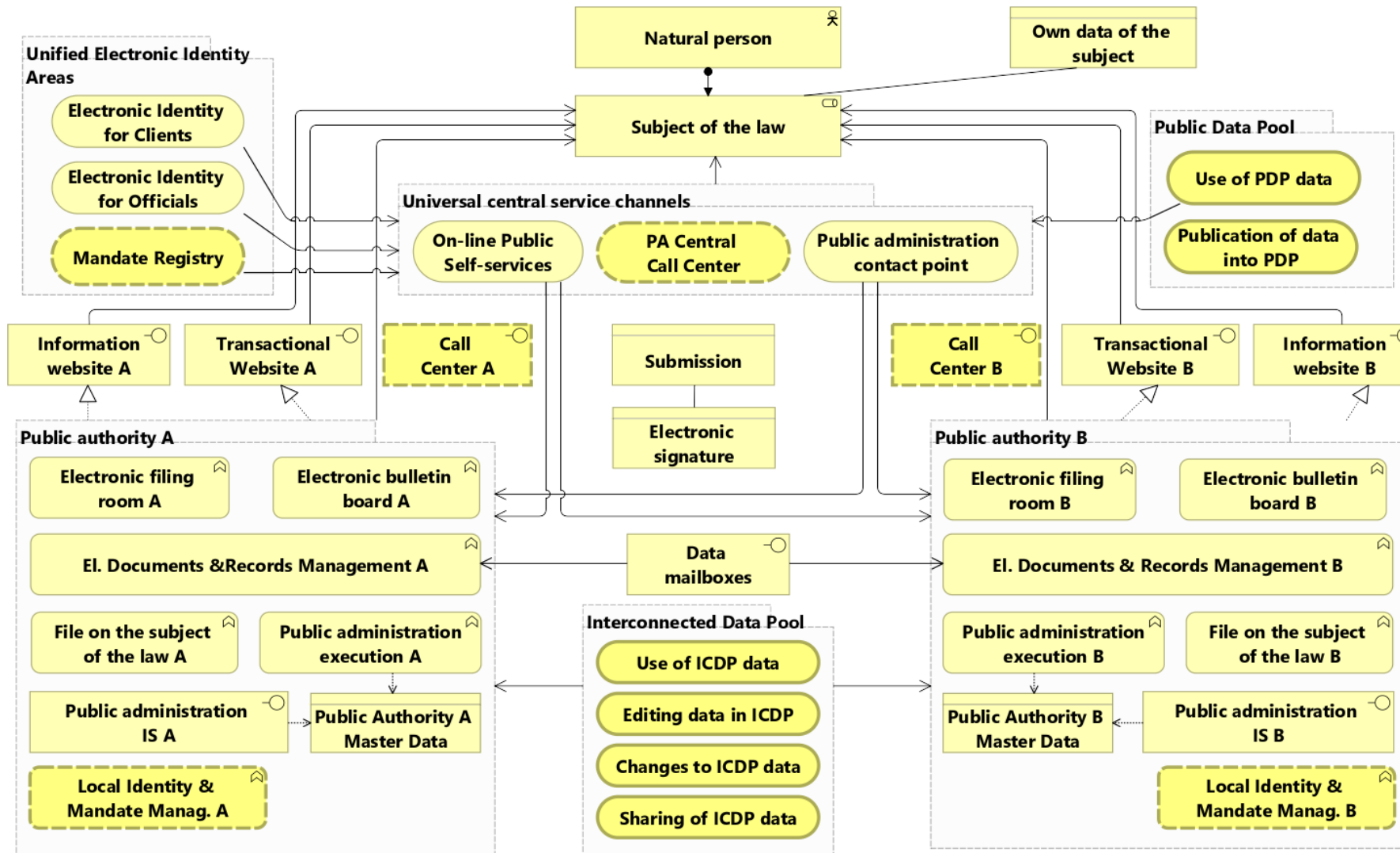
Major milestones of digital services in Czech Public Administration

- 2000
 - legal precondition: equivalence of electronic and traditional documents and signatures
- 2009
 - front-end: guaranteed electronic filing and delivery channel - Data boxes
 - front-end: nationwide unified and integrated assisted counters with central services - Czech POINT
- 2012
 - back-end: central base registers (master data) and integration platform
- recent past
 - front-end: central transaction portal and growing number of self-service public administration services
 - key prerequisite: unified electronic identification of public administration clients – citizens
- and near future
 - integrated multichannel & multilevel customer care centre
 - Mandate Register - electronic power of attorney and representation (for physical persons and organizations)

Czech eGov History – today

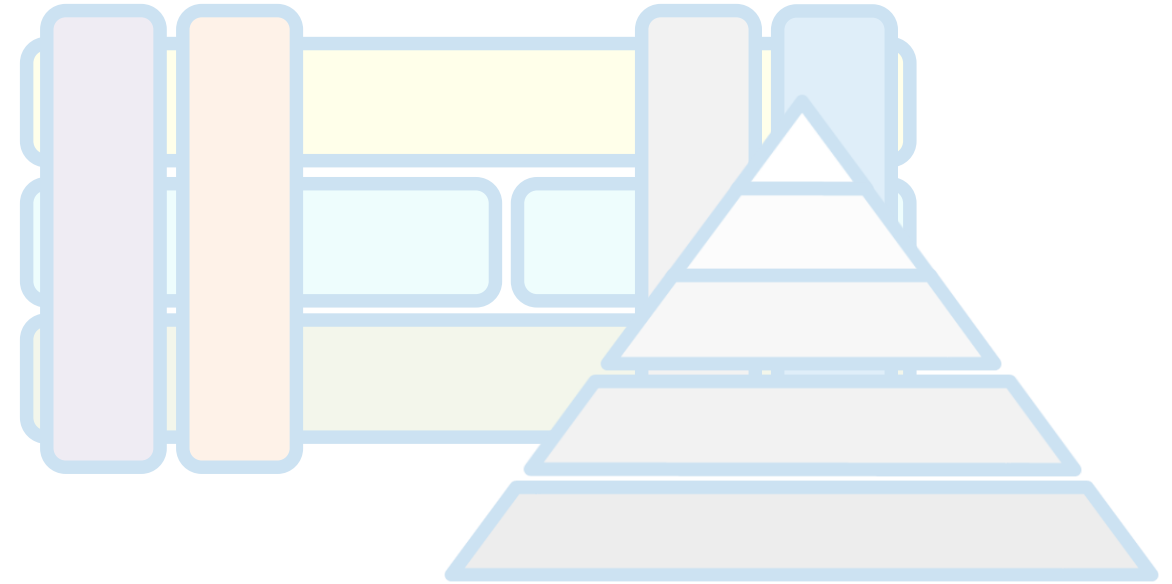


Czech eGov History – near future



Paving the way ahead

- Expected further increase the pressure on the delivery of services to clients, but also for sustainability of change and continuous improvements - focus to transform authorities inside-out.
- This means in particular:
 - ensuring human resources and knowledge
 - adding transformation roles and processes – ability to change
 - adding new roles and processes - especially service management and client relationship management
 - adding optimized shared services for agencies
 - transforming also ordinary things, such as the daily operation of agencies.



What we are using and teaching

Examples of Methodology Content

Enterprise Architecture definition

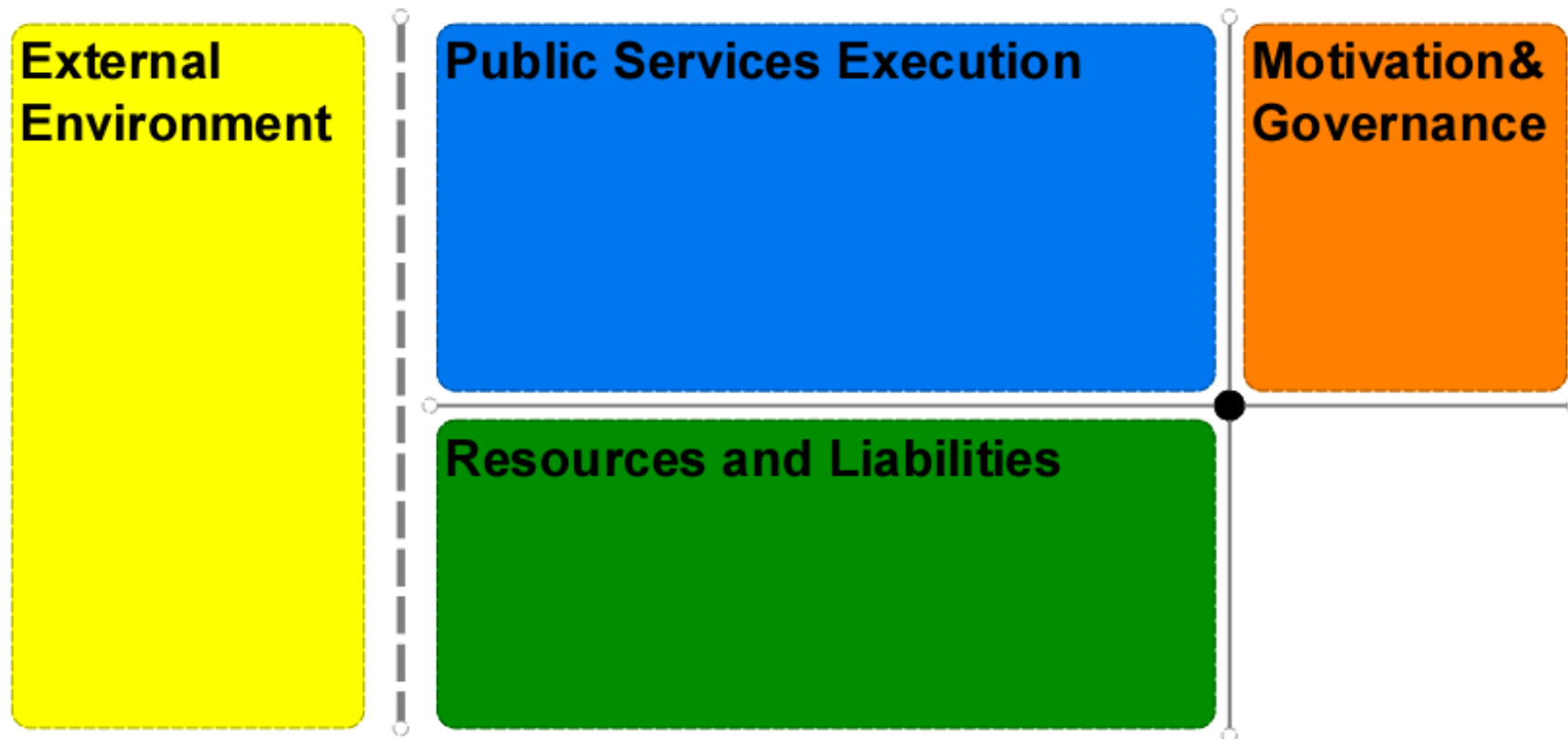
Enterprise Architecture
is a means
of **humble** and **holistic**
exploring and understanding
of the Enterprise as a whole
in all possible consequences
to make informed decisions.

It is especially important „to call a spade a spade“, it means to speak clearly and directly about things, even embarrassing or unpleasant things.



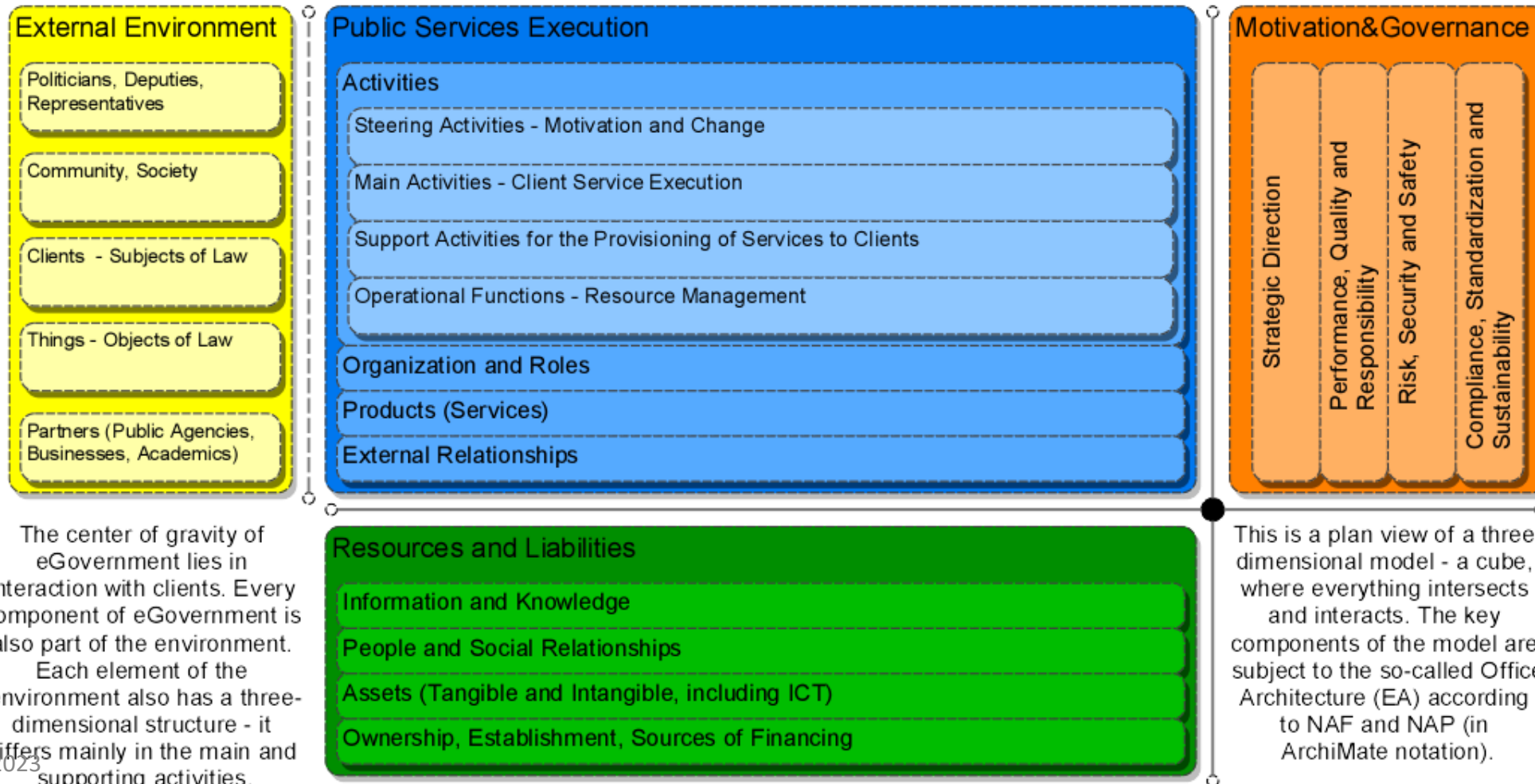
Key building blocks of Government organization – level 1

What every public administration organization must consist of?

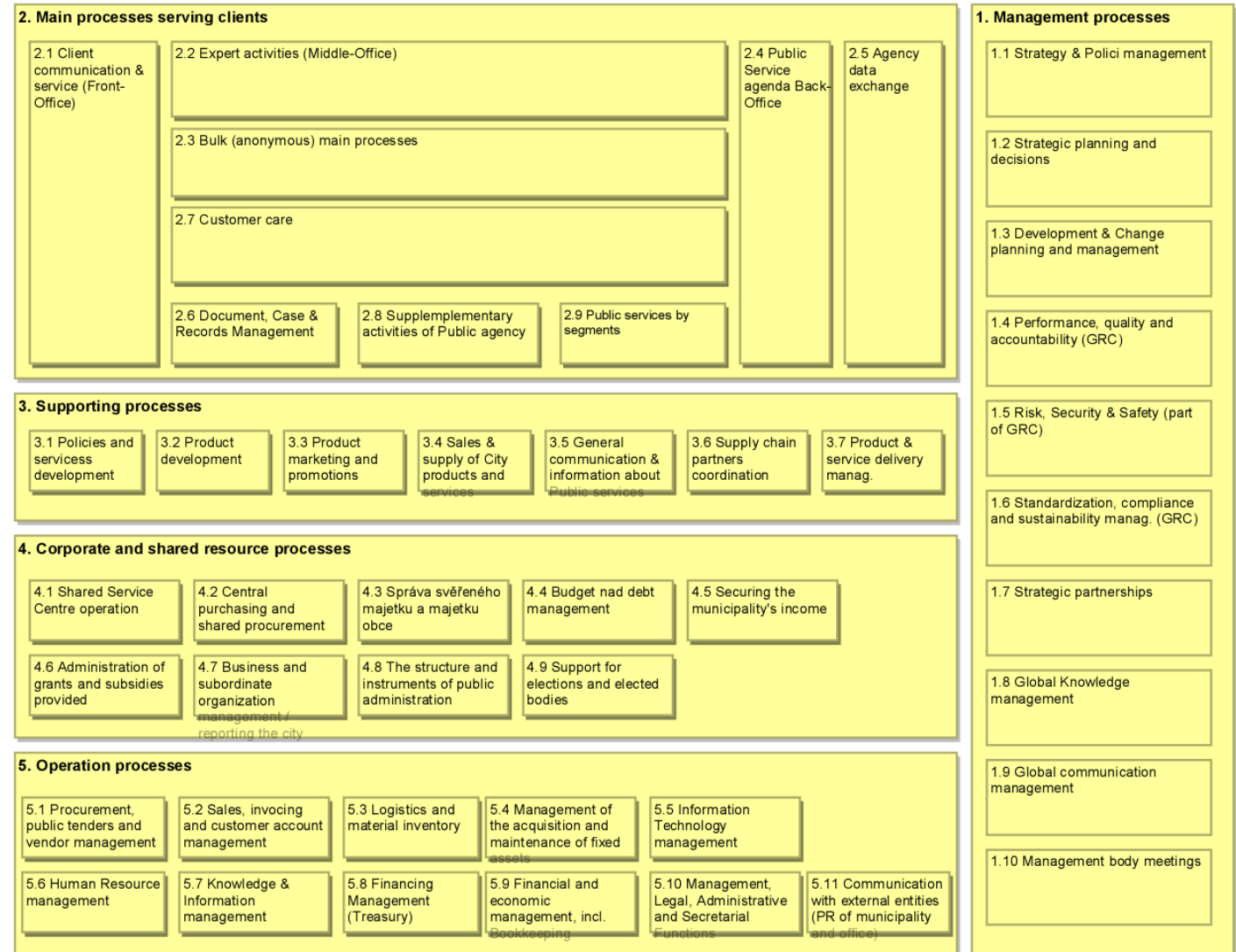
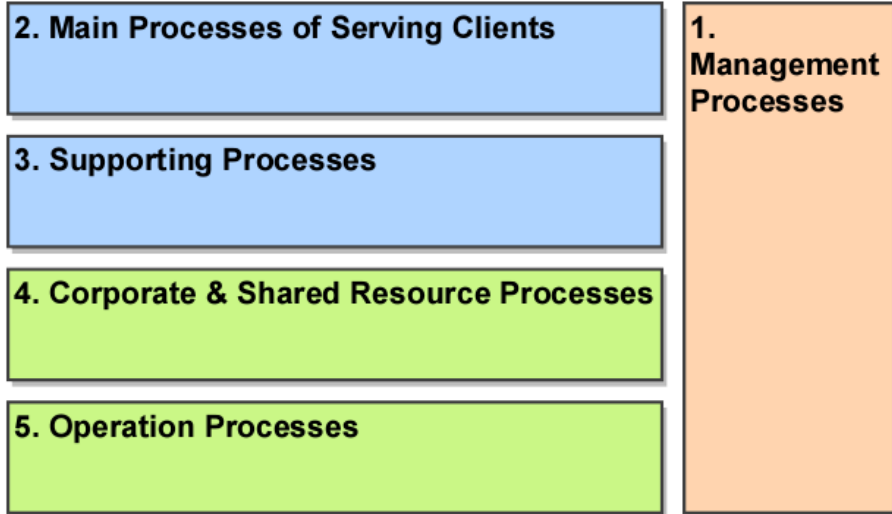


Key building blocks of Government organization – level 2+3 (partly)

Model of the overall decomposition of eGovernment and each of its parts (segment, corporation, agency, organizational unit).



Business Reference Taxonomy



Where to find out more

National architectural documents

The National Architectural Documents were created on the basis of the Government Resolution No. 629 of 3 October 2018 on the "Digital Czechia" programme and the draft amendments to the Statute of the Government Council for the Information Society. In accordance with the resolution, the Ministry of the Interior ensured the publication and publication of the documents on the [Information Concept of the Czech Republic](#) (hereinafter referred to as "ICCR") website. These documents, which are collectively referred to as the ICCR follow-up documents, are:

1. [Methods of ICT public administration management in the Czech Republic](#),
2. [Dictionary of eGovernment terms](#),
3. [National Architectural Framework](#),
4. [National Architectural Plan and](#)
5. [Expanding knowledge base](#).

<https://archi.gov.cz/en:start>



THE *Open* GROUP



Czech Government Enterprise Architecture

A Case Study by:

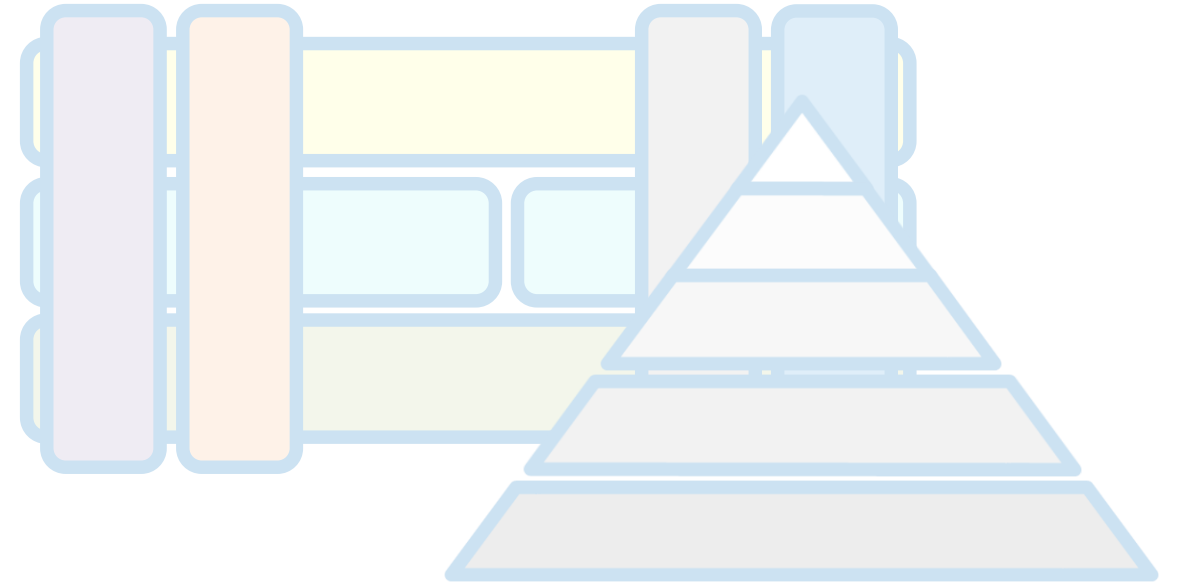
Ministry of the Interior of the Czech Republic

Pavel Hrabě, Chief Methodologist of National eGovernment Architecture

This is a Joint Publication of The Open Group and the International Telecommunication Union from the Government Enterprise Architecture Work Group

October 2022

<https://publications.opengroup.org/y221>



Criticality of Business and Technology Collaboration

Precondition of future development and digital transformation

Everything essential has already been discovered, ...

... long time ago, you just have to open up, listen, learn and change.

Basically, common sense, humility and courage are enough.

The most important inspirations for me (I will quote some of them today):

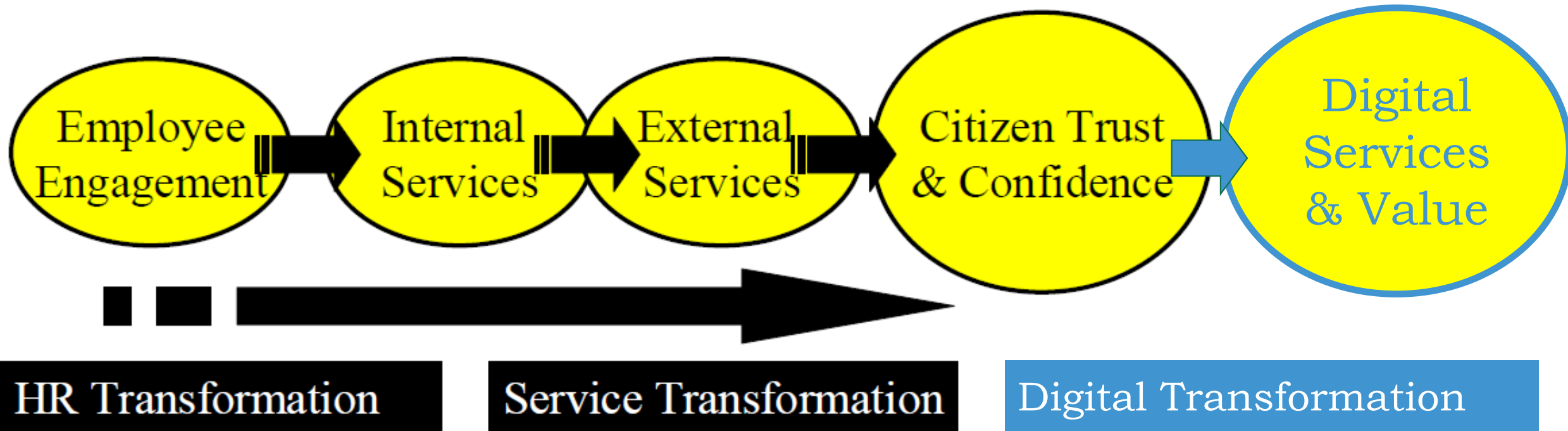
- Canada, around 2004 – (GCRM, BTEP) - Jim Alexander, Robert Weisman
- New Zealand, 2004 (SONZ/FONZ), 2012 (Result 10), 2014 (GEA-NZ) – Regine Deleu
- Netherlands, from 2009 (NORA) e.g. Arnold Reinders & ICTU, 2014 (Rijksarchitectuur)
- and many others (USA, Australia, Korea, UK, ...)

Digital Service is real Service

Digital service should no longer be just a "legal obligation,, of citizen, but a real service with added, perceived value for the client.

- See Mr. Jim Alexander's recommendation, already in 2006 - internal services first
- Orientation to external clients, client segmentation, management of external services and service channels, feedback and service improvement.

Service transformation



Source: Jim Alexander, Deputy Chief Information Officer, September 13, 2006.

Extended by Pavel Hrabě, 2023.

Digital Service is real Service

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The principle of internal service, internal customer and supplier, applied on IT:

- IT is nothing else than internal service provider, like HR, Facility or Accounting departments
- Professional department, aka business, is an internal IT customer, which have to transform its services for external consumers, citizens and organizations, using internal IT services.

In Czech Government the legal role of "IS Administrator", newly divided into:

- „Substantive Administrator" - internal customer and
- „Technical Administrator" - internal supplier.

Two responsibilities – two managers

What is the right thing to build -
a substantive manager

- professional department
- business owner of IS
- internal IT customer



How to build and run it right –
technical manager

- IT department
- internal IT supplier



Prerequisites of digitalization and transformation

Any transforming public organization must be ready to truly transform itself from the ground up, especially it must have the resources, that is capacities and knowledge, to do so

- List of necessary roles that previously did not exist in public administration (at least not in the Czech Republic) follows in one of next slides.

Other critical factors of maturity and readiness for change must be considered, for example (all non-technical, business):

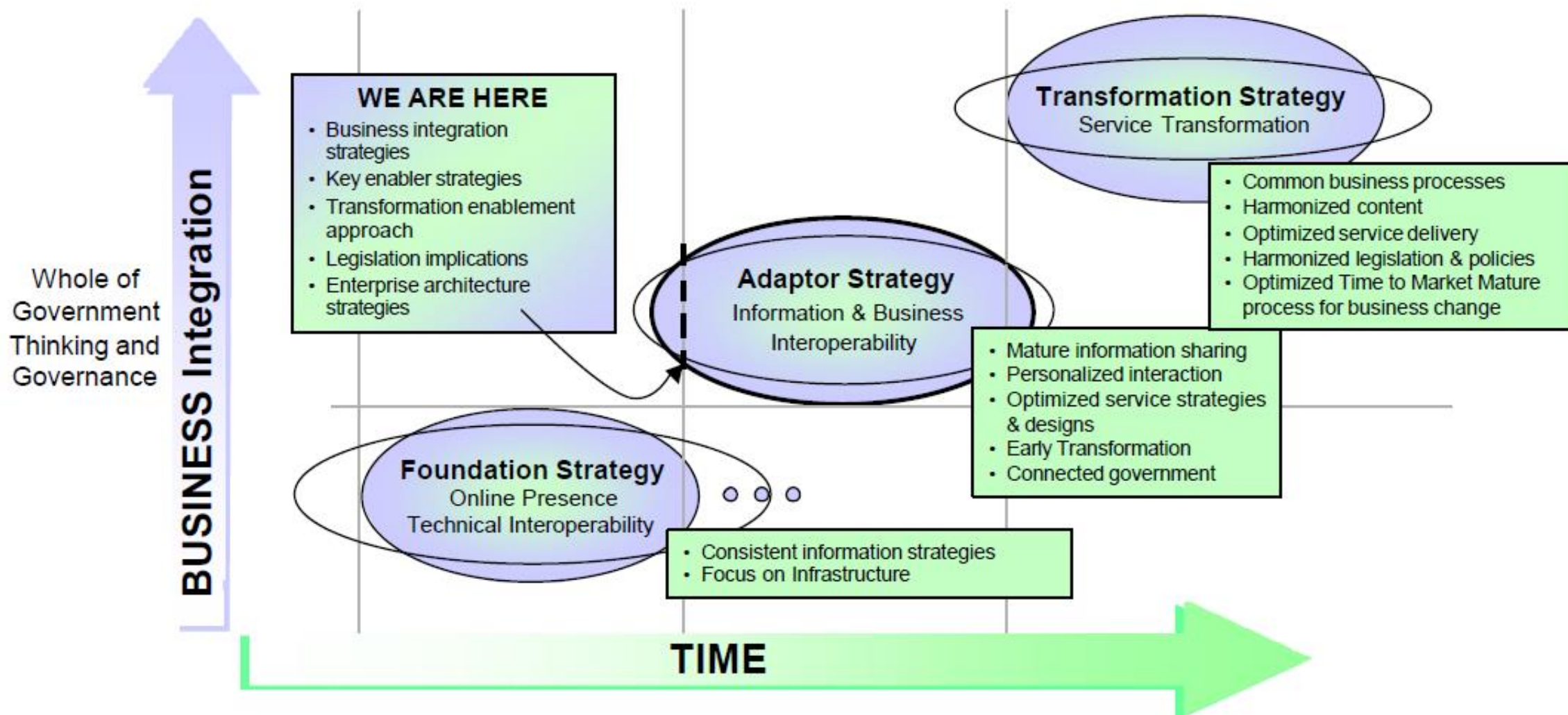
- Ability to plan management
- Ability to release experts to projects
- Ability to motivate employees to change
- Ability to offer career to the best people in the transformation (otherwise they will leave), ...

Business Transformation Readiness (BTRE) as a part of Business Transformation Enablement Program (BTEP) invented already by the Government of Canada in 2004.

- it is for years part of TOGAF – none of the trainees pay enough attention to it

BTEP:

Transformation Roadmap



Source: <https://publications.gc.ca/collections/Collection/BT22-95-2004E.pdf>

List of necessary transformation roles

Identification, planning, and implem. of radical changes

- Manager of strategy and strategic management
- Agency architect (Enterprise Architect)
- Program and project manager
- Digitally compliant legislative attorney

Client orientation and service development and delivery

- Manager of administration and client service
- Marketing and Communications manager
- Product and service manager, catalog manager
- Manager of individual service channels:
 - Office eShop manager
 - Call center manager
 - Counter network manager
 - Partner network manager
- Client support worker (substantive help desk)

Human resources and Knowledge

- Recruitment and Career Development manager
- Knowledge Management manager

Internal communication and motivation

- Specialist in PR, psychology and communication
- Manager of organizational change management (OCM)

Continuity, quality and improvement

- Process and service management
- Quality manager
- Security manager
- Performance manager

ICT Service Delivery

- ICT strategy and development manager
- Architect of ICT solutions
- ICT project manager
- Buyer of ICT services
- ICT operations manager
- ICT Management Economist
- Specialist in ICT asset management and records
- ICT (Cyber) Security Manager
- Client support worker (ICT help-desk)

Adopted organizational structure

The organizational structure of transforming public organizations must also correspond to the new roles and, above all, responsibilities in the transformation itself and in client service

- process/functionally oriented structure
- previously each Agenda (each law) was an organizational and informational silo,
- now Shared services for client service (Front-end) and for background (Back-End) appear, which is reflected both in the organization/processes, and in their support with IT solutions.

It is important to apply complex, systemic = architectural thinking when designing an organizational structure

- the organization system has many dimensions of breakdown
- it is necessary to allocate the responsibilities of unit leaders according to the dimension that is most important for the success or current improvement of the organization, or to create a hierarchy with a combination of dimensions.

Characteristics of a „transformational“ organizational structure

The organizational structure of a successfully transforming organization usually exhibits the following characteristics:

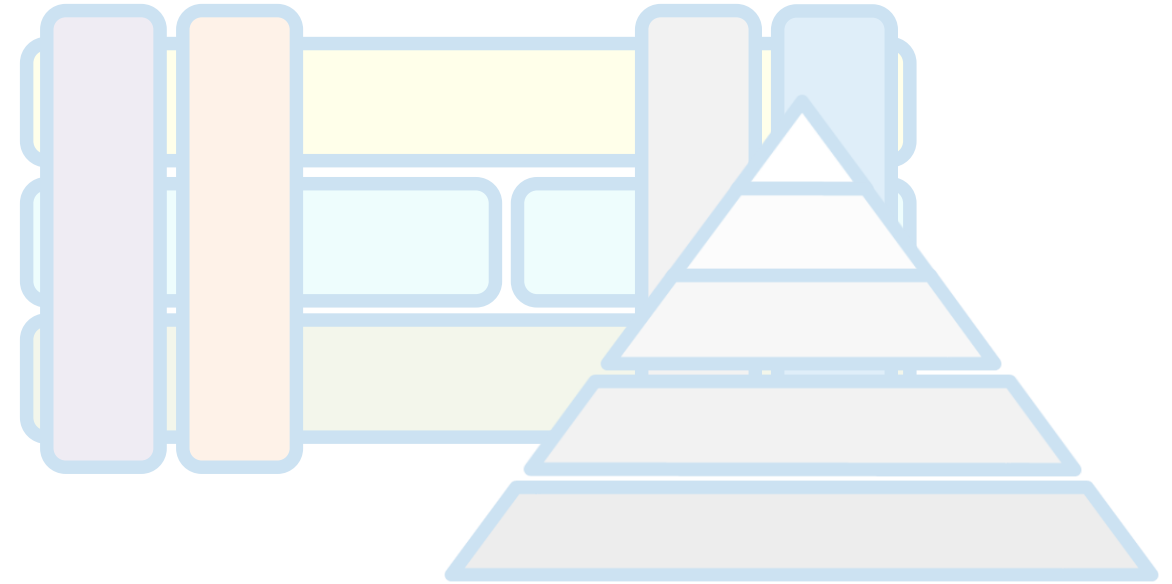
- Transformational roles are grouped in the top management staff
- There are architectural and project offices in it
- There is a service management, service channel management and client service department, common to all agencies, LoB.
- Key internal operational departments, focused on resources, are self-contained and provide services to the organization – HR, IT, knowledge, assets.
- The head of client service management and the head of IT are members of at least a wider, preferably narrower management.
- Each strategic area of activity has a responsible manager, a member of at least the wider management.

The basis of optimizing the organization's structures ...

1. is when organizational (responsibility) structure matches as much as possible with the structure of its required capabilities, or corresponding functions or processes, according to the achievable management style
2. One ability may be included in the responsibility structure only once, either:
 - a) physically, with all its resources in the same place, department
 - b) virtually, when all realizations of this competence with their resources in different departments are managed (coordinated) by one central department.
 - For example, the competence of effective project management

Proposed organizational structure of The Czech Ministry of Interior

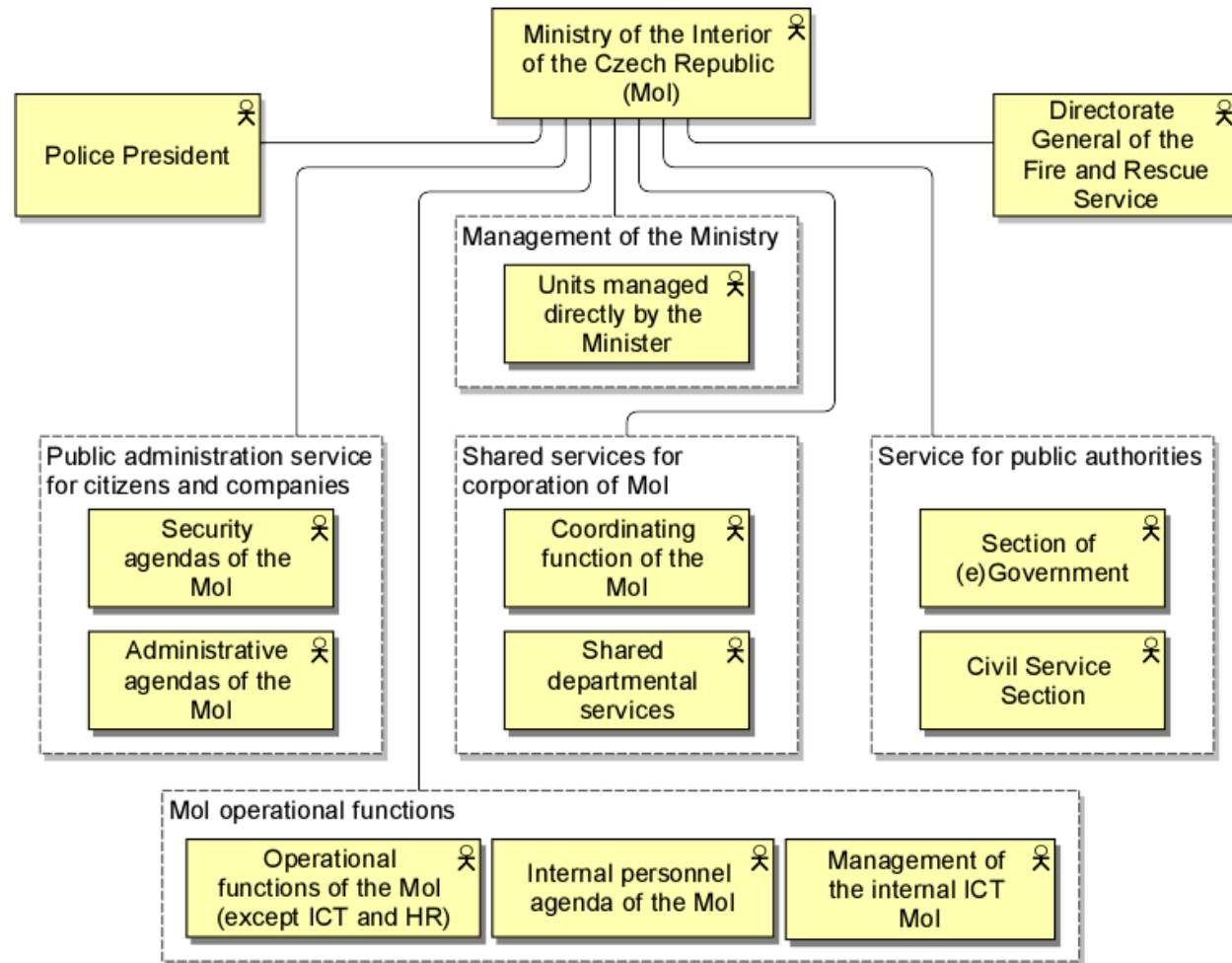
Example No. 1 of EA driven organizational architecture (unrealized)



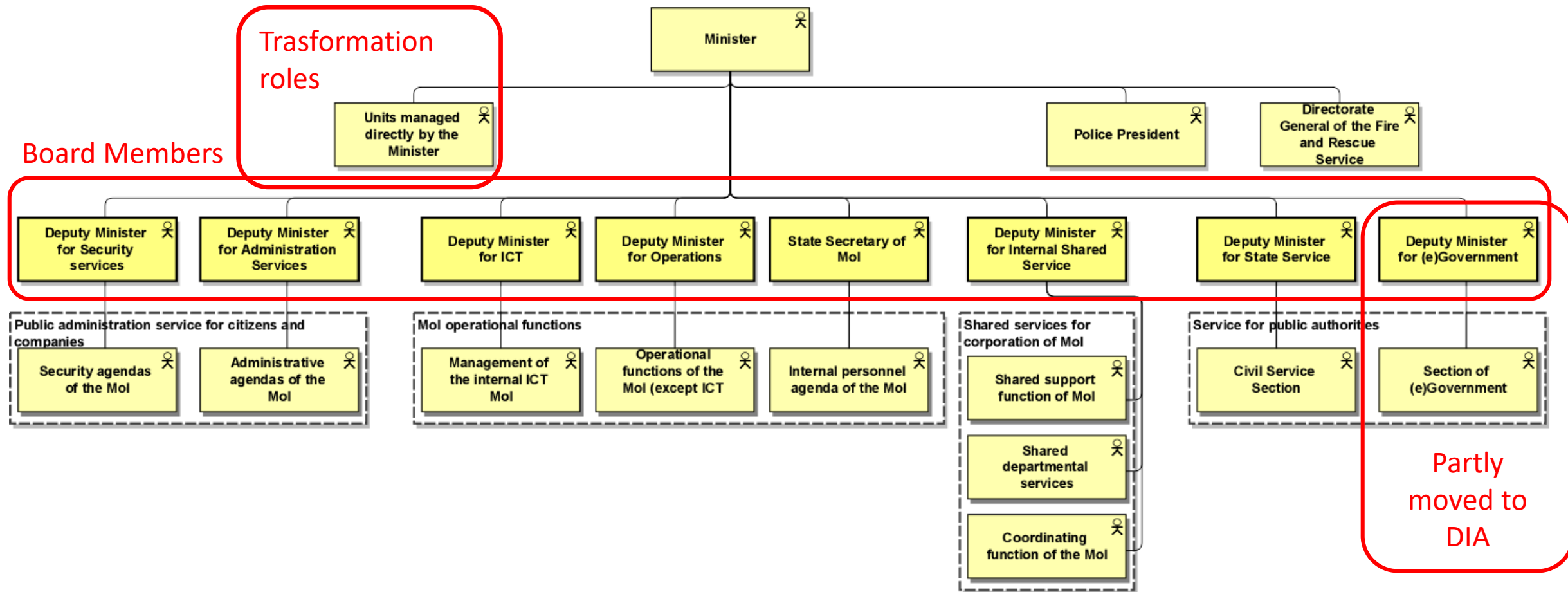
Structure of Ministry of Interior rules

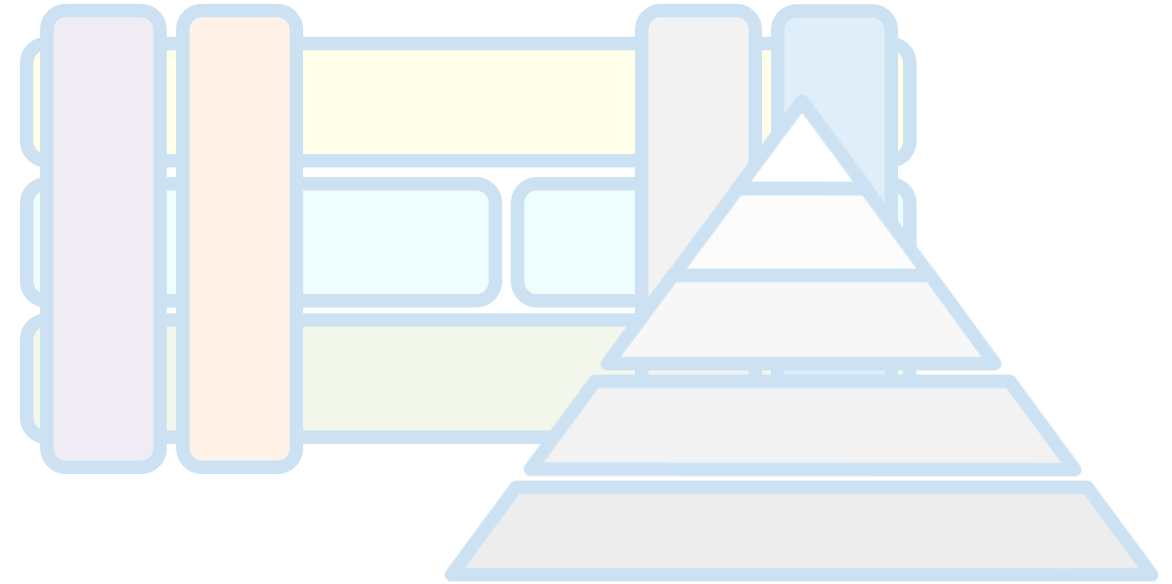
- The style of management in public administration is still mainly functional, with emerging elements of procedural and service management.
- First breakdown dimension in this proposal is orientation to the categories of especially external but also internal clients of the organization, to whom the results of the functions are delivered as services.
- The functions of the organization to be therefore strictly separated according to which group of clients they provide their services to:
 - a) external clients outside the public administration (ministry), citizens and organizations
 - b) external clients of the Ministry within the public administration, i.e. public administration bodies regulated or coordinated by the Ministry. They are further divided into state administration and local-government organizations.
 - c) internal clients of the Ministry's corporation, i.e. managements and employees of controlled organizations of the department
 - d) internal clients of the Ministry's office, own employees in service and employment relationships, using in particular the services of operational functions, but also the shared services of front-end, agenda background and support processes.
- Next breakdown of the organizational structure is proposed according to categories of services (products) and according to the business reference model

Principle organization chart



Focus on the division of responsibilities





Municipality Office

Example No. 2 of EA driven organizational architecture of the city of Benešov

Starting points for the municipal management system

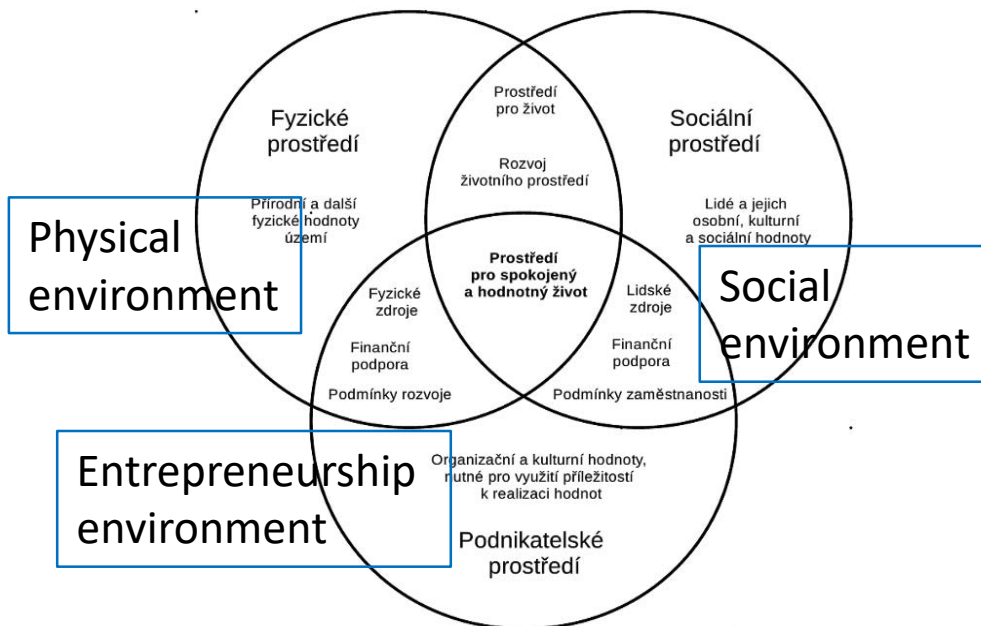
The mission of the municipality is (according to the author):

- **to take over and maintain the territory and property of the municipality after previous generations,**
- **to use them effectively for the provision of services to members of the community and**
- **to reproduce and develop them for future generations.**

Starting points for the municipal management system

The mission of the municipality is (according to the author):

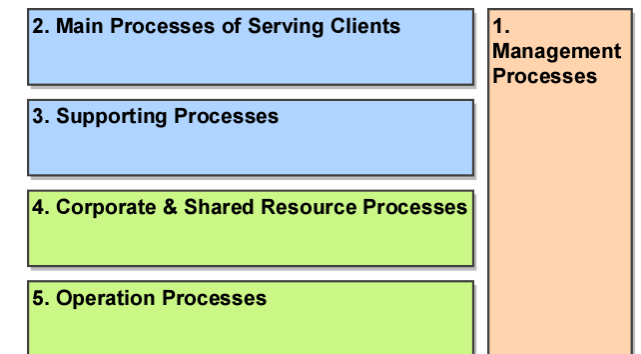
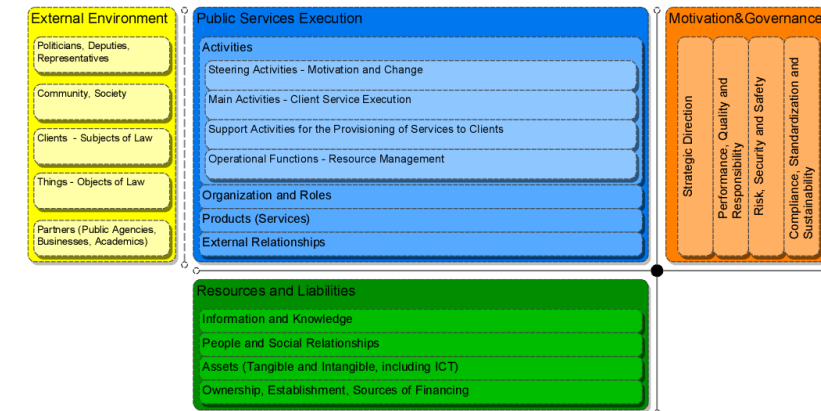
- to take over and maintain the territory and property of the municipality after previous generations,
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- to reproduce and develop them for future generations.



Source: Prof. Václav Řepa

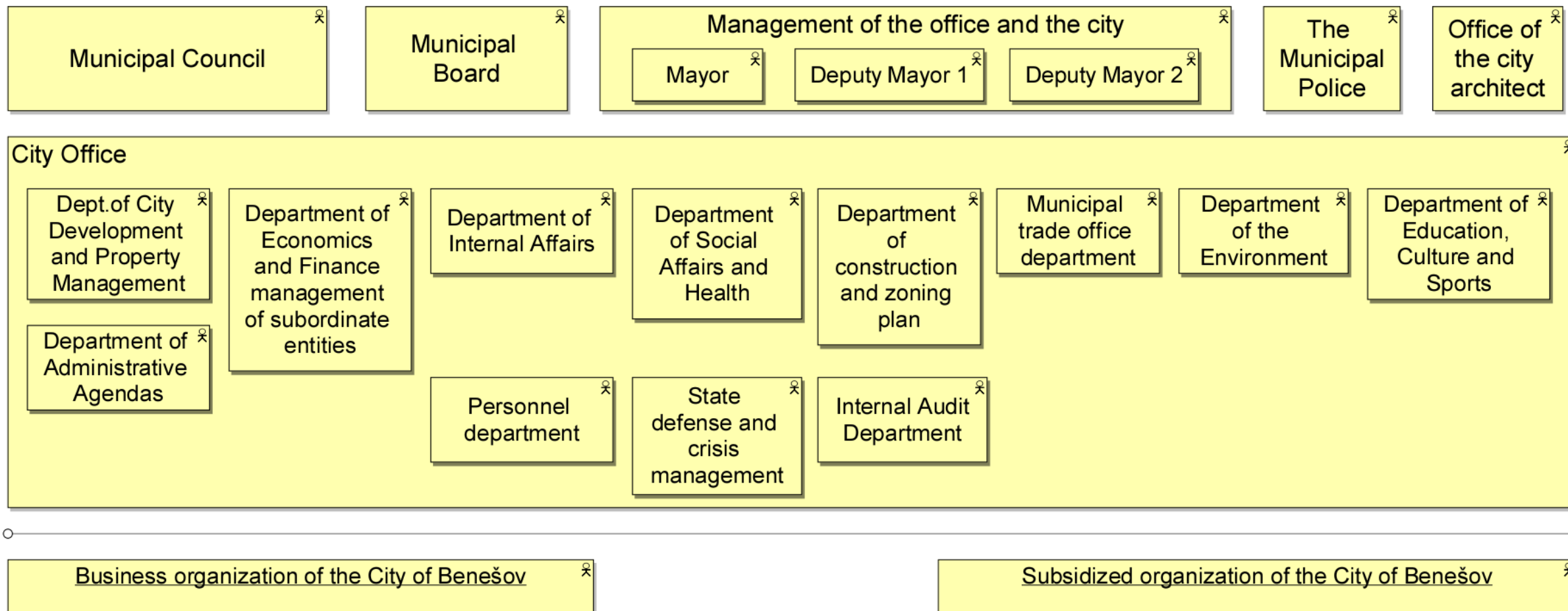


Source: [SDG Guide](#)



Source: Pavel Hrabě

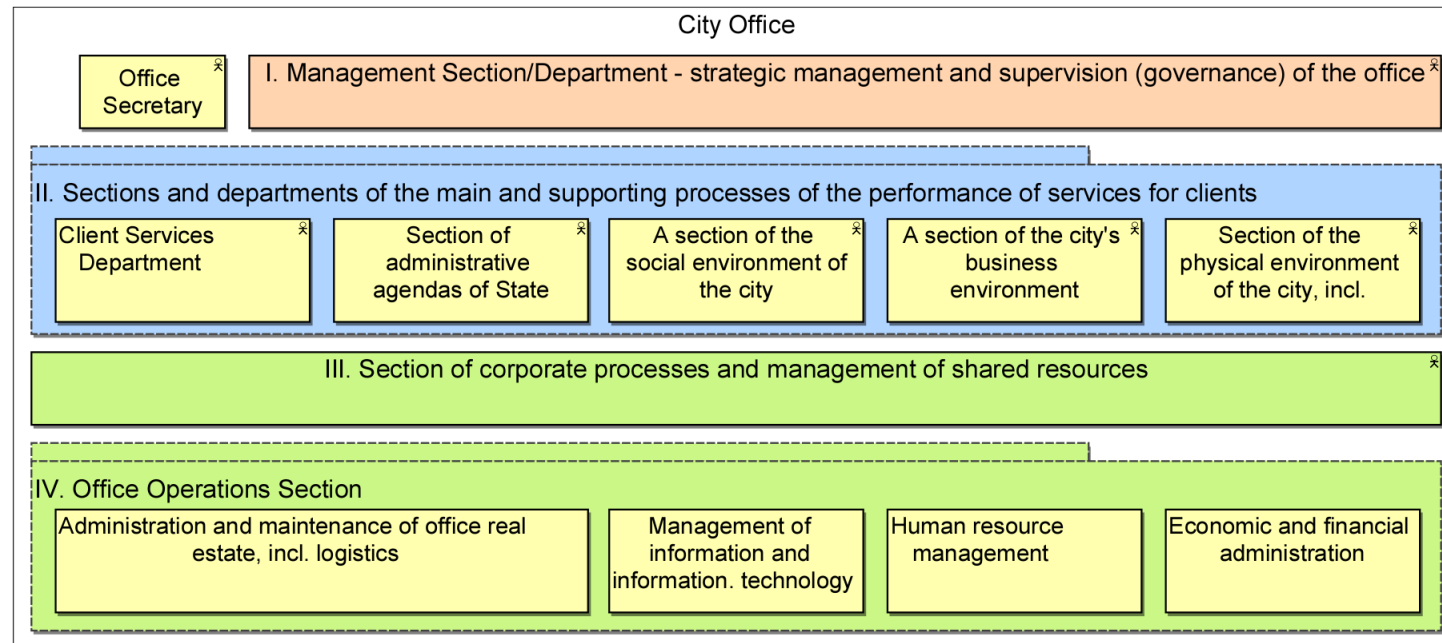
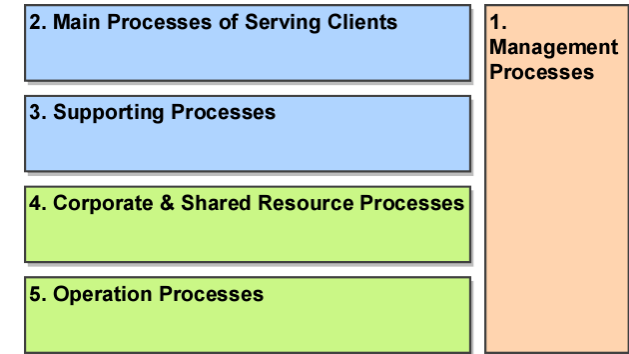
The initial organizational structure of the city of Benešov (2018)



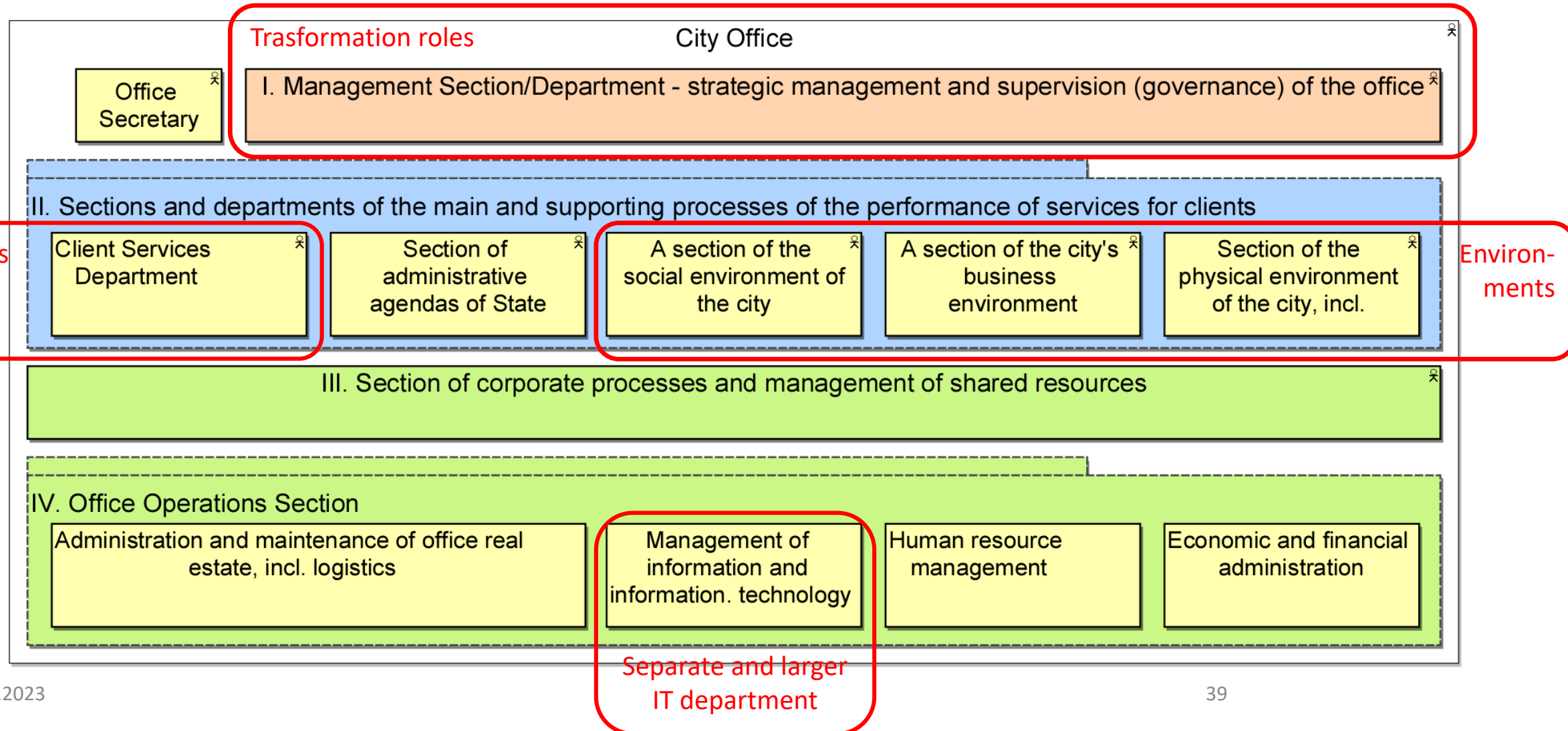
Strategic, process and service-oriented organizational structure

Allows clear responsibility for:

- Supporting the goals of the city and the management office
- Process (functional) areas and categories
- Areas of development – „environments“ of the municipality
- Service category - especially the services outsourced for the state.

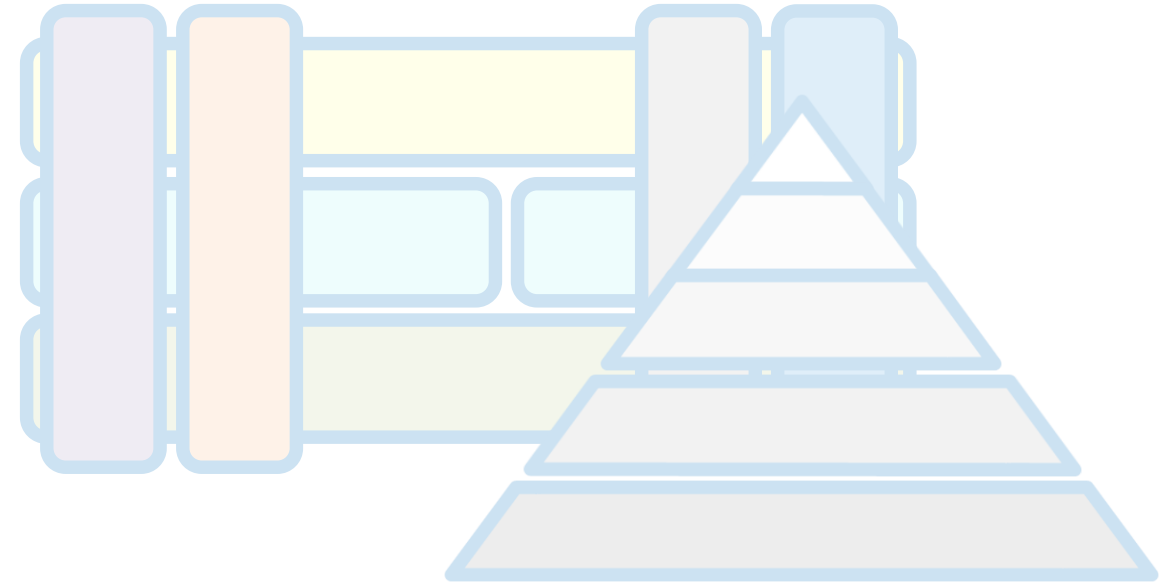


Strategic, process and service-oriented organizational structure & transformation



Conclusion

- For a successful digital transformation of Government, you need to align agency employees in the roles of business and IT departments as customers and suppliers of internal services.
- To this, there is a need to add entirely new experts in planning and implementing change, especially architects, project managers and digitally compliant legislative lawyers, and seat them close to agency management.
- And we must not forget the experts in external customer service and service channels, they will supply regular officials as a business with the right knowledge and drive and unite them in the design of their services.



Thank you for your Interest

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