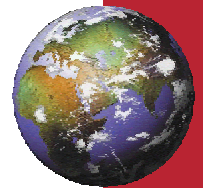


Developments of the State Authority for Geodetic Works from IT perspective



Todorovski Dimo
Republic of Macedonia



State Authority for Geodetic Works



- § registering ownership rights
- § survey and cadastre
- § cadastral and topographic maps

- § c.a. 900 employees
- § main office and 30 local offices
- § budget € 4 mill; € 2.5 mill. revenues

IT Background

- § CIS application from 1980
- § IT department
- § digital maps: 15%
- § IT resources
- § products/services only given by law
- § projects ongoing
- § IT not recognized as a discipline

As-Is IT in SAGW

- § Hardware and Software
- § communications
- § human resources

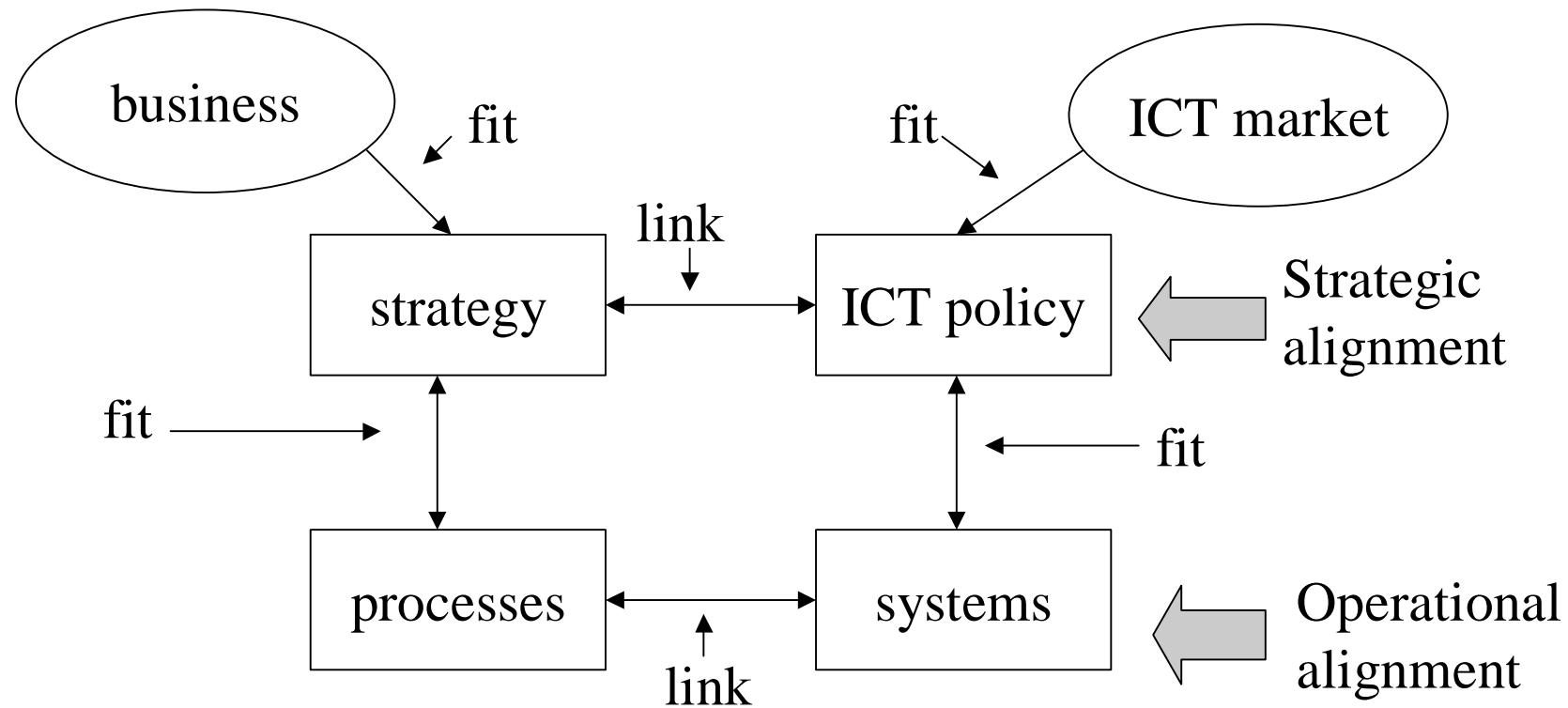
On going projects in SAGW

- § e-Cadastre
- § JICA project
- § Real Estate Cadastre project funded by the World Bank
- § SIDA project

IT Strategies

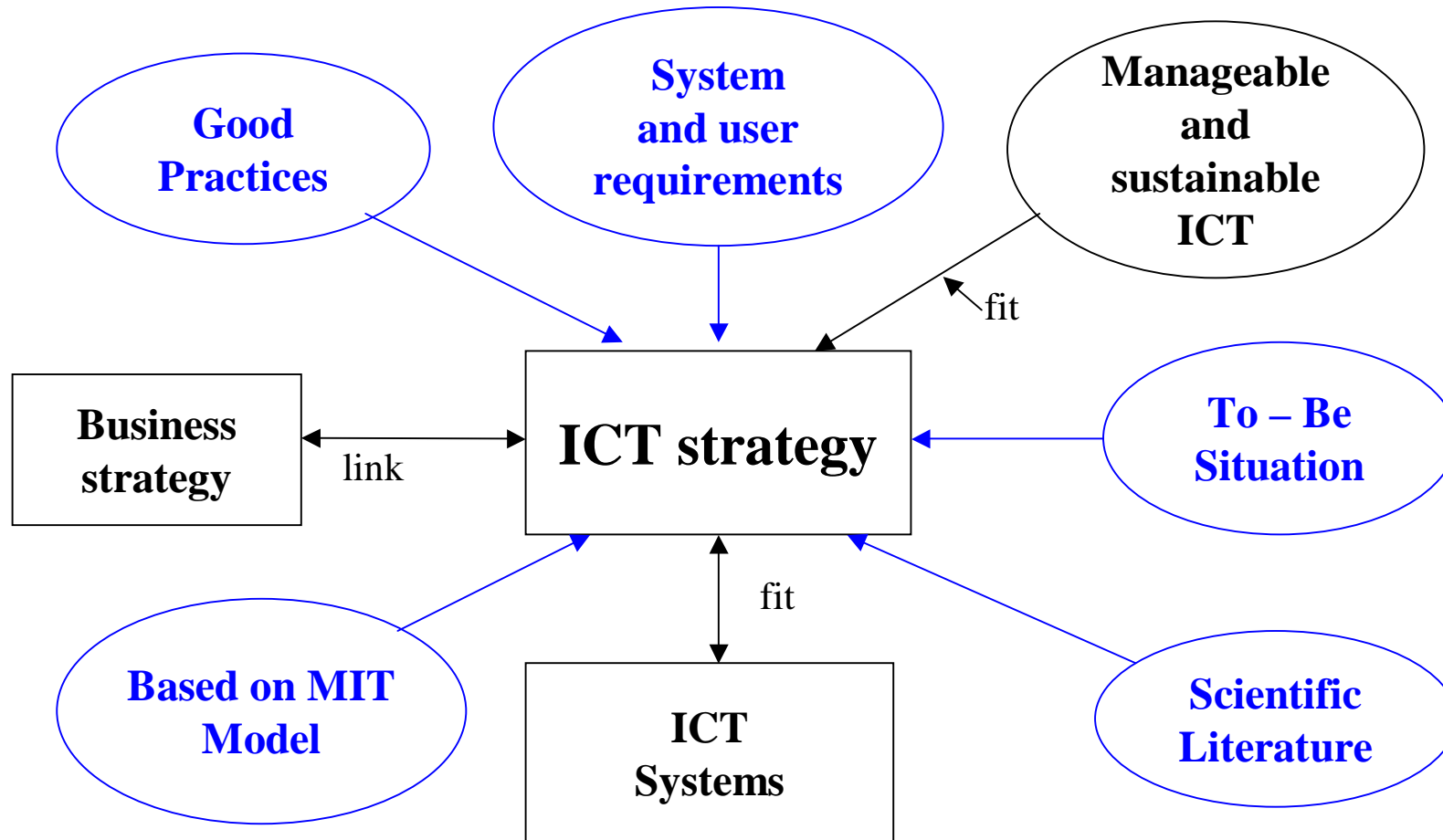
- § 2004 within PHRD project
- § 2006 ICT strategy for SAGW (MSc Theses)
- § Currently: work group within SAGW for ICT Strategy

Strategic Alignment Model



The MIT Model adopted by prof. v.d. Molen (Henderson and Venkaterman, 1993)

Conceptual framework for ICT strategy



Analyses of User Requirements

- § internal users
- § external users
- § list of user requirements

SWOT analyses

- § business domain
- § ICT domain
- § formulation of alternative strategic choices

ICT strategy for SAGW



Vision: 'To-Be' situation for SAGW from
ICT perspective

- § business
- § business processes
- § ICT policy
- § ICT systems

Step-by-Step approach



Steps to be followed

Step 1: PREPARATIONS

Step 1a: Strategic business/ICT decision

Step 1b: Strategic ICT decisions

Step 2: DIGITAL DATA CREATION

Step 3: CAPACITY BUILDING



Steps to be followed

Step 4: INSTITUTIONAL REGULATIONS



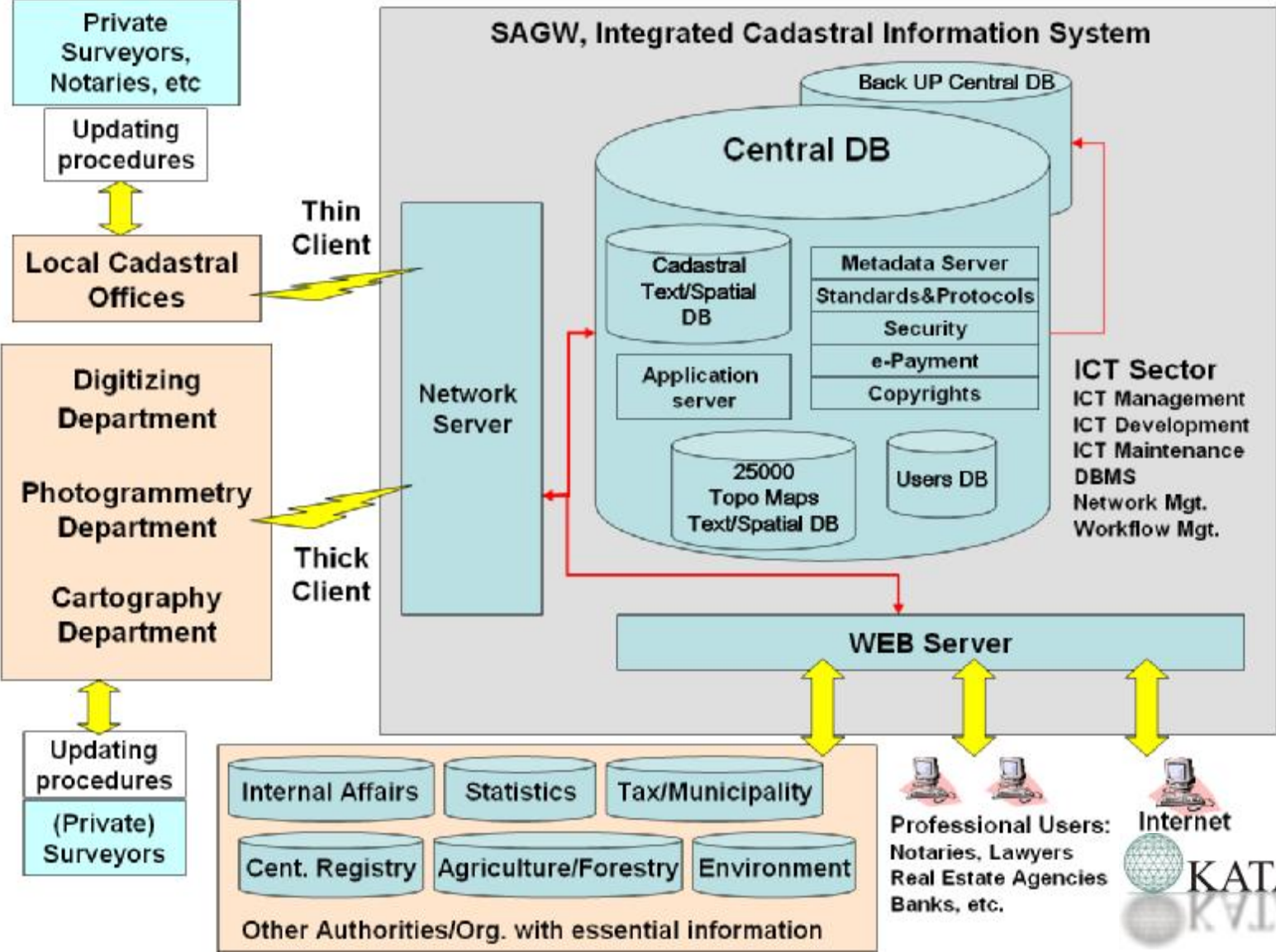
Step 5: HARDWARE AND SOFTWARE
INFRASTRUCTURE FOR THE ICIS



Step 6: DEVELOPMENT OF THE INTEGRATED CIS
FOR THE SAGW



Future ICT infrastructure for SAGW



Thank you
for your attention

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Step 1: PREPARATIONS



- § transform SAGW towards customer oriented organization
- § revise or develop a new Business strategy
- § promotion and recognition of ICT as a strategic discipline
- § establishment of functional and operable ICT sector
- § appoint a SAGW ICIS Taskforce
- § overview of the current ICT situation
- § list of the current and possible future users of ICIS
- § assessment of the functionality and operability of the e-Cadastre system
- § standards

Step 1a: Strategic business/ICT decision

§ what should be the sustainable content of the digital cadastral maps?

Step 1b: Strategic ICT decisions

- § centralized or decentralized approach for ICT organization
- § thin client or thick client concept

Step 2: DIGITAL DATA CREATION



- § conversion of analogue maps into digital
 - § quality of Digital maps
 - § digital data catalogues and metadata
 - § priority areas for digitizing analogue maps
 - § updating procedures of digital graphical data
- § development of new innovative digital products and services
- § data modeling

Step 3: CAPACITY BUILDING

§ SIDA project

Step 4: INSTITUTIONAL REGULATIONS

- § internal institutional regulations
- § external institutional regulations

Step 5: HARDWARE AND SOFTWARE INFRASTRUCTURE FOR THE ICIS

- § hardware
- § functional network communications
- § software

Step 6: DEVELOPMENT OF THE INTEGRATED CIS FOR THE SAGW



- § ICIS infrastructure
- § DB and DBMS concept of working
- § workflows development
- § workflow management
- § Integrated Cadastral Information System
- § distribution of digital data