



Health

State Administration

Trade and Services

Centralised integrated IS for the Public Health Institutes

Public Health Institutes

Situation

Public Health Institutes (“PHI’s”) are, from economic as well as operation and administration points of view, a complex conglomerate of various systems which have, however, a common purpose, importance as well as scope of activities and the common founder, i.e. the Ministry of Health of the Czech Republic. A gradual organisational and administrative centralisation is supported by the building up of the information system, and at the same time by expression of the system restructuring of management, administration and operation. The aim of the centralisation process is to increase the effectiveness of the PHI network activities, mainly through a reduction of their number (from 14 PHI’s to 6 administrative units) and through concentration of professional, technical as well as personnel resources.

The centralised economic and operation system “Microsoft Dynamics AX” has replaced several originally used information systems for various agendas. A part of the solution is also the integration with LabSys laboratory systems. These are used by executive laboratory staff members (such as microbiologists, chemists, etc.) who must specify professional tasks (calculation sheets) for the charging of these services.

The centralised integrated IS respects specific features of each individual Public Health Institute.

Project contributions

- A fully functional, centralised IS with which users are able to work on a remote basis, from their site.
- Centralised implementation of technical, economic and operational activities, i.e. an increase in effectiveness and transparency of these activities.
- Increase in effectiveness of marketing and commercial activities – higher profitability of specialised services provided.
- Improvement of the level of customer’s care.
- Arising of a common shared database of users (clients) and suppliers.
- Merger of the economic and accounting agendas (from both process and data points of view).
- Easy preparation of true and exact reports for the Ministry of Health of the Czech Republic, Czech Statistical Office and other institutions.
- Integration of the IS with laboratory information systems (LabSys), easy compilation of calculation sheets.
- IS which respects specific features of each individual PHI.
- Managerial information in a selected arrangement and choice, or in a cumulative manner – current overviews of revenues and their development, numbers and composition of customers, structure of the services sold, etc.



Custom-made
Software Applications



Business
Intelligence

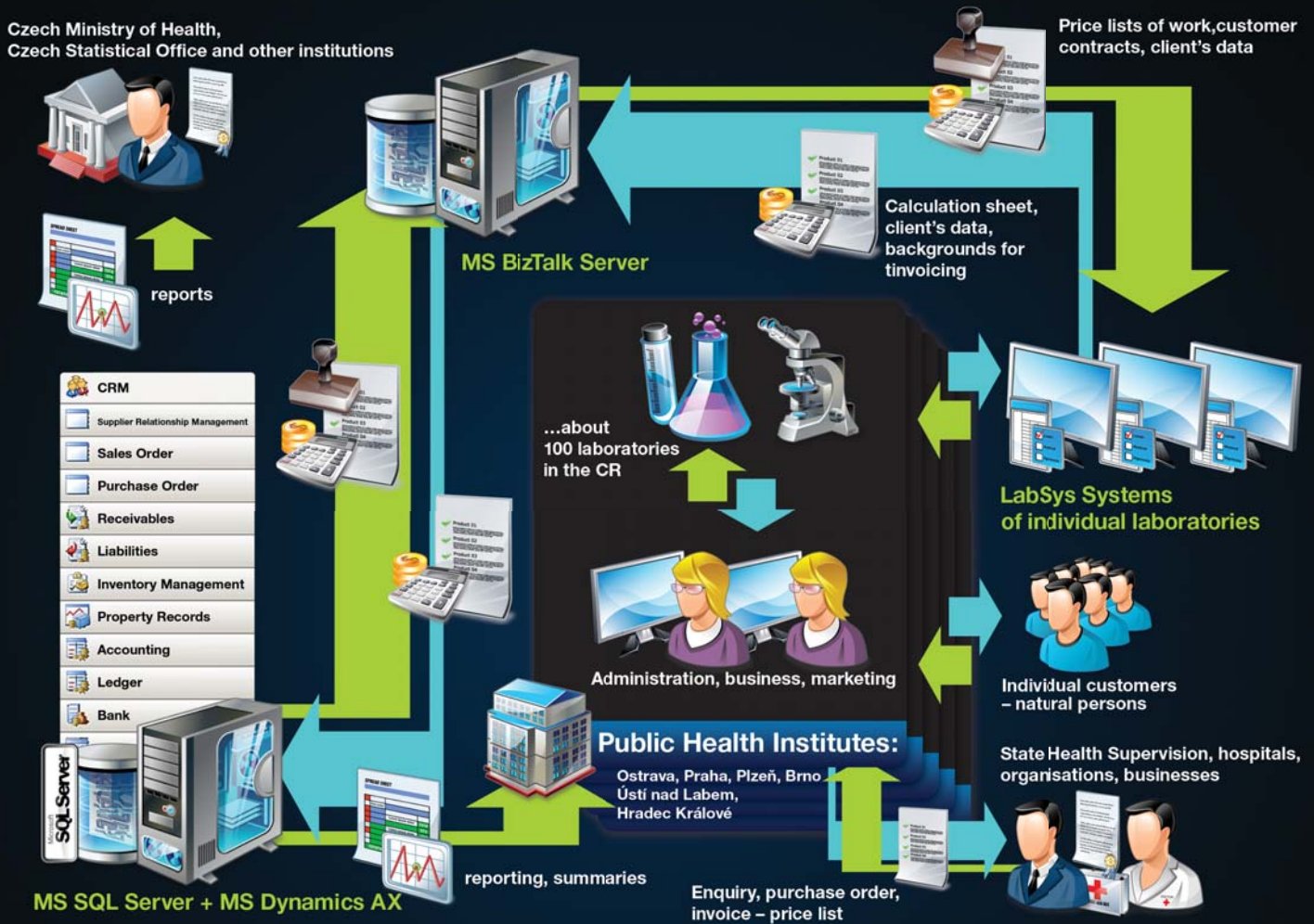


Enterprise
Resource Planning



Application
Integration

Figure of the Information System



Technologies and products

Customised implementation of MS Dynamics AX (EPS) includes the following parts:

- Application Server (AOS - Axapta Object Server)
- Database Server (Dynamics AX - primary database EPS)
- Web Server (Enterprise Portal)
- Windows Sharepoint Services - database for Web Server
- Integration Server
- MS BizTalk Server - database for an Integration Server
- Terminal Server
- Thick client of the EPS System
- Thin client for access to selected parts of EPS
- MS Windows Active Directory domain
- OLAP technologies over the primary database of EPS

Customer profile

Public Health Institutes ("PHI's") are a very important provider of healthcare, laboratory and expert services in the Czech Republic, which they provide to both legal entities and individuals. Every PHI has several laboratories, outpatient facilities and detached workplaces. The laboratories carry out measurements and analyses – for healthcare, chemical, biological as well as physical purposes. Public Health Institutes carry out also work-medical care, operate allergology and immunology outpatient clinics and make vaccinations. A part of the PHI's is formed also by the National Reference Laboratories dealing with tasks of a nation-wide importance and reach.

Branches: State administration – healthcare, services

Organisation size: Approximately 500 active users of the IS (with a presumption of further extensions)

Country: The Czech Republic



Aquasoft belongs amongst leading firms in the Czech Republic, specialised in deliveries of information systems. It has been operating on the market since 1996. Aquasoft has at its disposal a team of more than 100 highly qualified professionals. For the time of its existence it has successfully implemented a number of development and a integration projects including various systems which are highly comprehensive from geography, process as well as material points of view.

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