

Navertica Hospital ERP

Navertica Hospital ERP (NaHERP) is a key component of the Navertica Hospital Information System (NaHIS). NaHERP is an economic system created on the Microsoft Dynamics Business Central and is suitable for hospitals, health centers, and hospitals.

In particular, NaHERP contains:

- Finance and Accounting
- Fixed assets
- Management of health insurance code lists
- Sales and invoicing to self-payers
- Sales and invoicing to health insurance companies
- Purchase and supply
- Request forms and logistics
- Medicines and material stores
- Identification of patients
- Bed capacity management
- Hotel services
- Property management and maintenance
- Project management
- Service and maintenance of devices and equipment
- Operational and strategic management
- Document management

The essential feature of the NaHERP system is the principle of lean processes supported by a unified user interface (Microsoft) on a unified database platform (Microsoft SQL). The Navertica Hospital ERP solution creates the prerequisites for objective measurement of process results and complies with the requirements of ISO 9001 and ISO 27001.

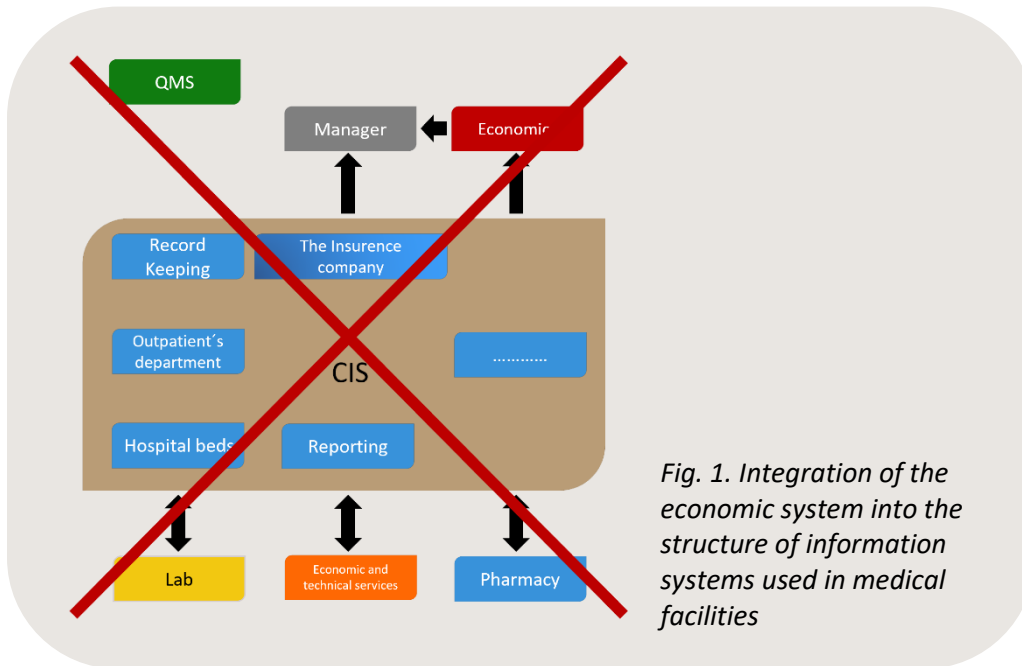


On-line information for managing medical facilities:

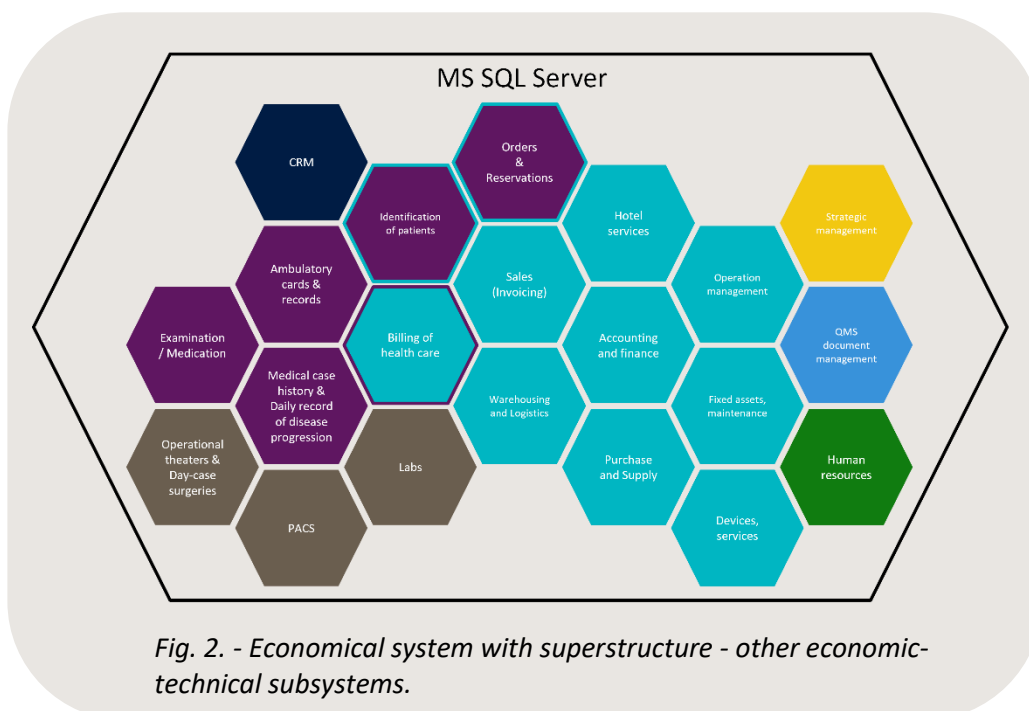
- Turnovers and Costs
 - for each station or department
 - for each diagnosis
 - to a specific patient
 - to a specific doctor
- The basis for medical treatment remuneration
- Barcode identification
- Accounting, budgets, controlling
- Banks, cash desks
- Access Rights Management
- Approval workflow
- Billing to health insurance companies / self-payers
- Payables and receivables
- Request forms / internal orders
- Internal re-invoicing between departments
- Evidence of drug and material consumption per patient
- Hotel services
- Space inventory
- Rent and lease
- Distribution of services and energy
- Property records, depreciation
- Maintenance and service
- Projects and grants

IS structure in a medical facility

For existing IS in health care facilities, the central part and core of the HIS (Hospital Information System) is the processing of medical records, performance records, and reporting to health insurance companies. All other agendas hospital equipment, especially economics, and economic-technical service, are typically off-line attached to the core of HIS. Obviously, with this architecture, it is virtually impossible to obtain the online information needed to manage a medical facility. Another downside is the cost for the operation and maintenance of this architecture - each of the subsystems is upgraded at different times while continually changing the interface.



Unlike existing IS suppliers, NAVERTICA considers the ERP system extended by other functionalities needed to manage different economic and technical agendas of the hospital as the basis of the hospital information system because, without these additional functionalities, the standard ERP would not be for management.



Changing the IS architecture in a healthcare facility also translates into a change in interface between individual subsystems. A key role is devoted to ERP (Enterprise Resource Planning), a system that is enhanced by additional economic and technical functionality (including billing for health insurers), followed by a Business Intelligence (BI) and a Document Management System (DMS). The original HIS is reduced to control of technological processes (Technological Processes), ie. Systems for laboratory, imaging, etc. The clinical Information system reduces to a subsystem based on platform CRM (Customer Relationship Management), which processes medical documentation.

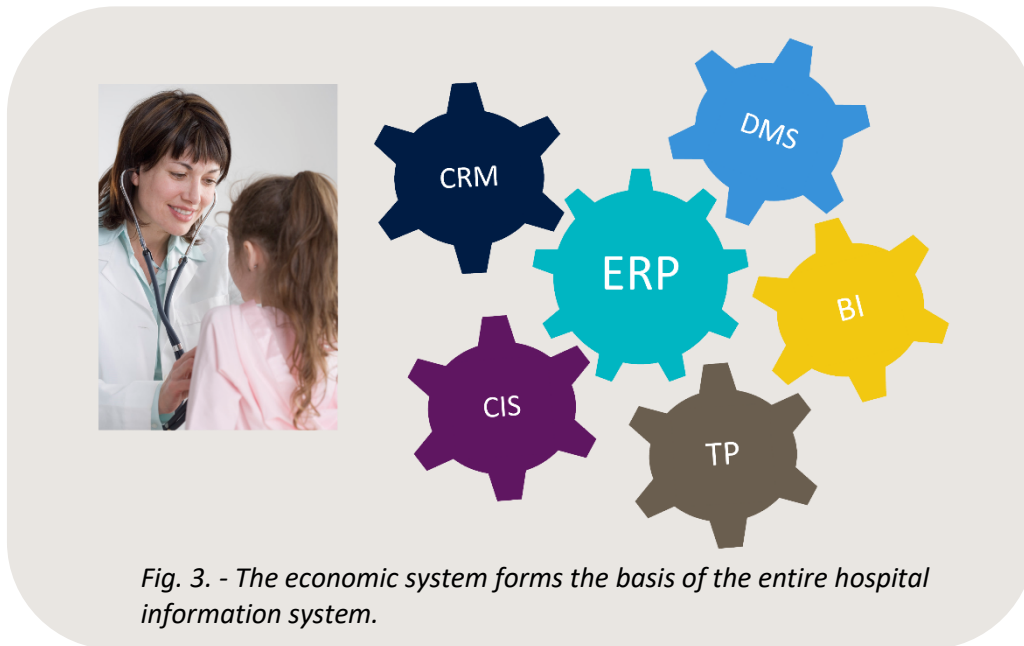


Fig. 3. - The economic system forms the basis of the entire hospital information system.

Navertica Hospital ERP

Microsoft Dynamics Business Central is an integrated ERP system for comprehensive management of organizations (economics, purchasing, warehouses, sales, projects, etc.) that can be implemented quickly and efficiently using the right methodology. However, the standard Business Central without Navertica Hospital ERP does not include the financial, economic, and technical tools needed to operate a medical facility.

Navertica Hospital ERP modules extend standard Business Central with advanced tools for managing health insurance codebooks and billing and invoicing for customers - self-payers and health insurance companies. Of course, to ensure this functionality, the ERP must include both patient identification data and patient-allocated interventions. If there is an original CIS in the medical facility, then NaHERP takes the identification and performance of the CIS. If NaClin (Navertica Clinical System) is already in operation, then both systems share the same database under Microsoft Dynamics on Microsoft SQL. With customers – patients or their family members also work with the hotel services (rooms, beds, meals, linen, etc.).

Navertica Hospital ERP completes the standard Business Central with the functionality needed to supply medicines and materials both from suppliers as well as inside the hospital. When charging the consumption of medicines, material or it is possible to set whether the consumption is charged at the time of purchase or dispensing from a central warehouse or dispensing to a department, or when applied correctly to a particular patient.

The NaHERP functionality also includes recording and depreciation of hospital fixes assets, property management, and maintenance, equipment servicing, and maintenance, etc. Some of these functionalities may be used even in other areas than healthcare.

Microsoft SharePoint to Improve Healthcare Operations

Microsoft SharePoint is a technology platform for document management, data storage, and team collaboration. NaverticaPoint Modules Complete Standard SharePoint into Specific Document Management Applications of Different Types and Teamwork over Shared Documents. The following modules are available:

IntraPoint – intranet, bulletin boards, announcements, workflows, etc.

ISOPoint – ISO 9001 Support Subsystem: Managed Documentation, Audits, Nonconformities, Corrective Actions, and Other Registers

PartnerPoint – subsystem for creating shared spaces for combined teams

ConferencePoint – subsystem for managing meetings, tasks, deadlines, entries, invitations, etc.

TaskPoint – subsystem for entering, monitoring, and controlling the fulfillment of complex tasks.

Benefits

Funkcionalita	Consequence
The unified and complex system	On-line monitoring of costs and revenues of individual departments => improvement of management
Costs and Revenue allocated to a specific patient and diagnosis	Improvement of business management
Consumption of medicines, materials, and capacity of resources is billed to specific patient	Reduction of inventory, reduced medicine, and material costs, improvement of the economy
Comprehensive and simplified processes	Reduce invoicing time for insurance companies and self-payers
One database, one data warehouse	Reduce error rate, reduce processing time => reduce staff
Homogeneous system and application SW environment	Reduce maintenance and SW upgrade costs, reduce IT staff
Fixed assets	Improve Fixed assets management, on-time allocation of financial resources, cost savings
Automate work with lease contracts, rent accounting of rents, energy and services	Reduce staff by about 10 %, reduce error rates

Details solutions

Type of solution: Complex information system (licenses and services)

Product: MS Dynamics Business Central, MS Dynamics CRM / Power Apps, and MS SharePoint

Significance of Microsoft technologies: Increase the productivity of Microsoft users solutions. The integrated vertical solution is represented by extensive functionality over the standard Microsoft application platform

Industry classification: health

Customer size specification in the market segments considered: Medium segment: 50-3000 employees,

Supported language versions: English, Czech

Solution Price: Contact the Pre-sales consultant

NAVERTICA a.s.

Since 1990, we have been a provider of enterprise solutions based on Microsoft Dynamics 365, Dynamics NAV/AX, Business Central and Microsoft SharePoint. Our goal is not only to deliver the systems but primarily improvement of customer's profitability to get a better bottom line by using the provided solutions. We design, implement and support horizontal solutions for manufacturing, trading, project and service companies. We have completed complex deliveries in many European countries, South Africa and the USA.

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