Algoritmos Procesos y Diseños S.A.

“+30 years developing tailored-made solutions for the **Healthcare Community”**

Healthcare Division value Proposition

Last updated: September 2018.

The Company

Founded in 1980, APD have its headquartered in Madrid, offices in Barcelona , Valencia and Seville and its own commercial representations in countries like **Peru , Middle East, Kenya or Southeast Asia**

With **+30 years experience**, **APD** is a privately owned Spanish company, with extensive know-how providing high value-added engineering. We provide tailor made imaginative solutions in the fields of:

- Security & Defense
- Healthcare
- Telecommunications
- Transport & Traffic
- Industrial Automation
- Public Administration IT

Our Added Value Differentiation?

- We are a technological company, focused on solving the specific needs of our customers.
- We offer "turnkey" customized solutions, involving ourselves in the entire project process: from the design and production phases to the installation, commissioning and maintenance.

"Over the years, APD has adapted to the different market needs, diversifying and expanding our business by developing cutting edge technology in an increasingly changing and global industry.
This constant adaptation has allowed us to enter new sectors , creating new business units and strengthen our customer base .

Main Figures

- **100% Spanish** private capital
- **15% average** annual investment on R&D
- **80%** University graduates
- Stable and sustained growth in production and financial results
- **ISO 9001 & ISO 14001** certified Company
- More than **7,000m2** of office space

Certifications

Successful track-record improving clinical efficiency and financial performance

- ✓ One of the key suppliers of the Spanish hospitals and public agencies, at local and national level
- ✓ Leading company in technologies related to Hospital Pharmacy management and Supply and Storage systems
- ✓ Committed to reducing the Hospital total medication bill through constant investment in R&D

SUMMARY OF SOLUTIONS

Athos Medical™

Smart Hospital Pharmacy Platform

✓ **Athos™** Pharma Suite

Hospital Pharmacy Management System

✓ **Athos™** Dosys Family

Automatic Dispensing Cabinets

✓ **Athos™** Storage Family

Central Pharmacy Automated Storage System

✓ **Athos™** Dosys Portal

Data Management for Dispensing Cabinets

✓ **Athos™** Temp

Automatic Temperature Control System

✓ **Athos™** Mobit

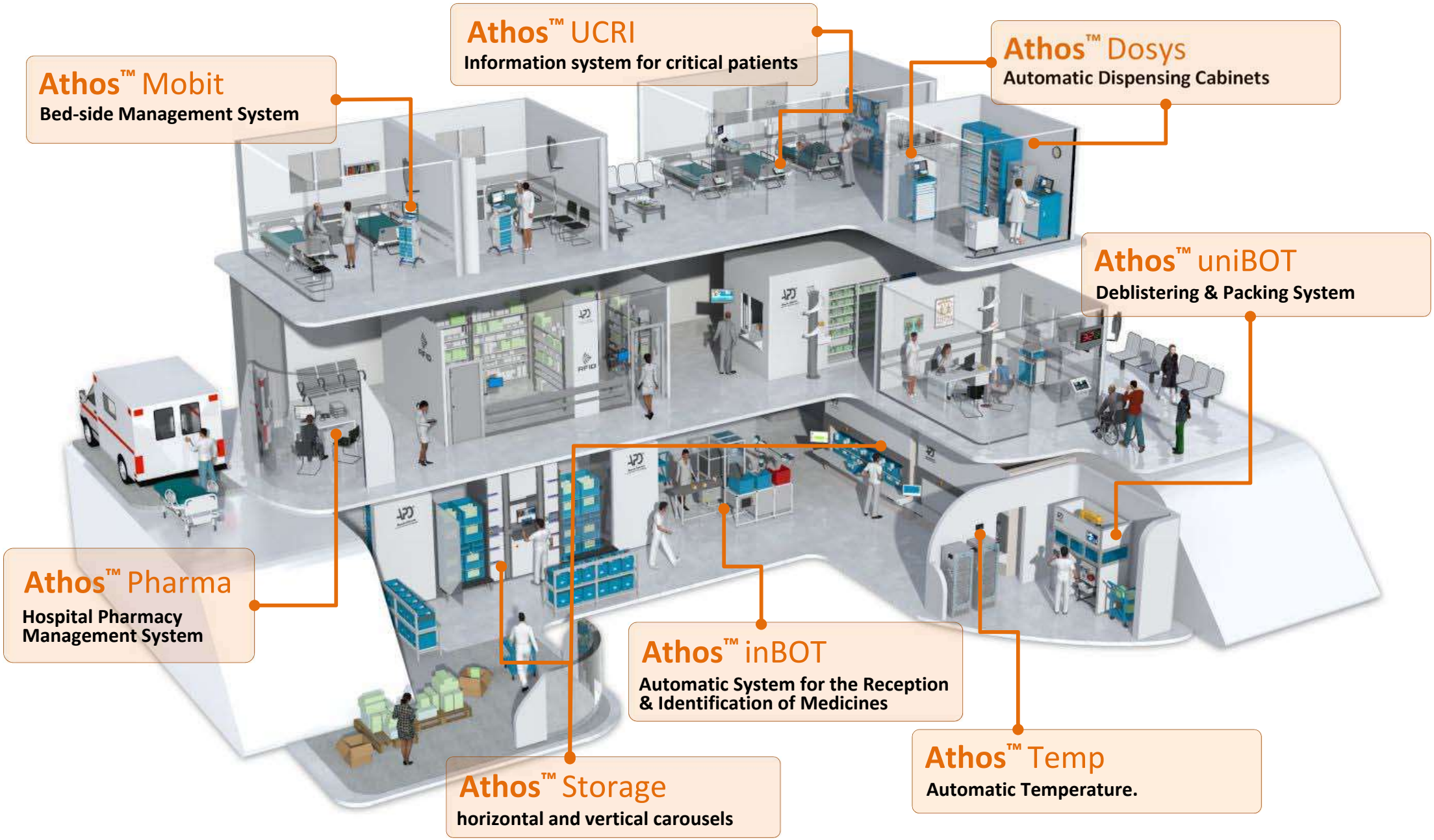
Bedside Management System

"Athos™ is our fully integrated Intelligent Hospital Platform aimed to cover all necessities **for the effective management of the medication system** of any hospital

From the hospital pharmacy to nursing, our solutions **help lower costs, improving patient safety and control**

ATHOS™ MEDICAL by APD

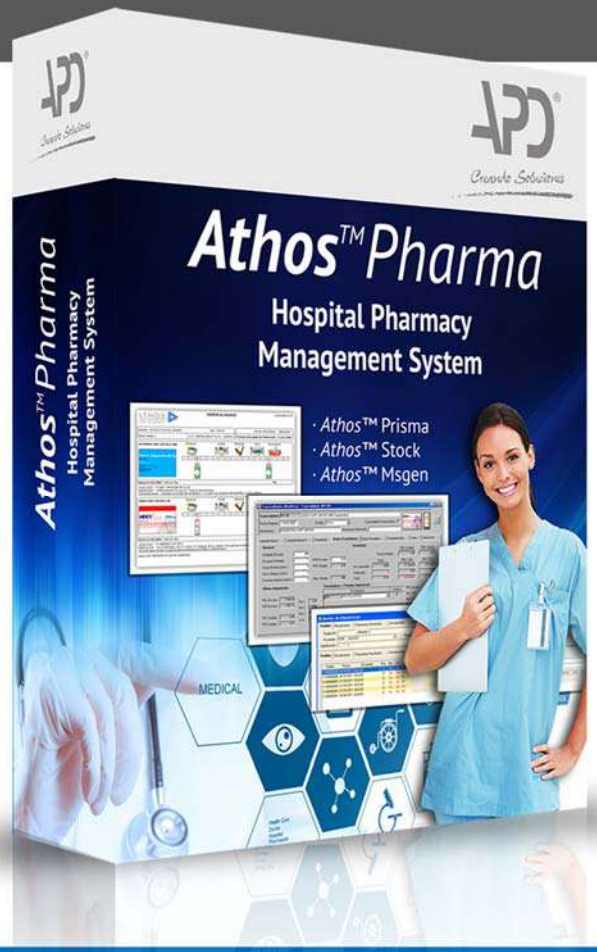
The Athos ™ Family of Solutions



Athos™ Pharma

Hospital Pharmacy Management System

Athos™ Pharma is the best choice for a software solution oriented to control and manage the Hospital Pharmacy as well as to assist the physicians and nurses in the prescription process in the different hospital units



Athos™ Pharma is composed of 3 different modules:

- **Prisma –** Prescription module
- **Stock –** Stock management module
- **Msgen –** Messaging system module

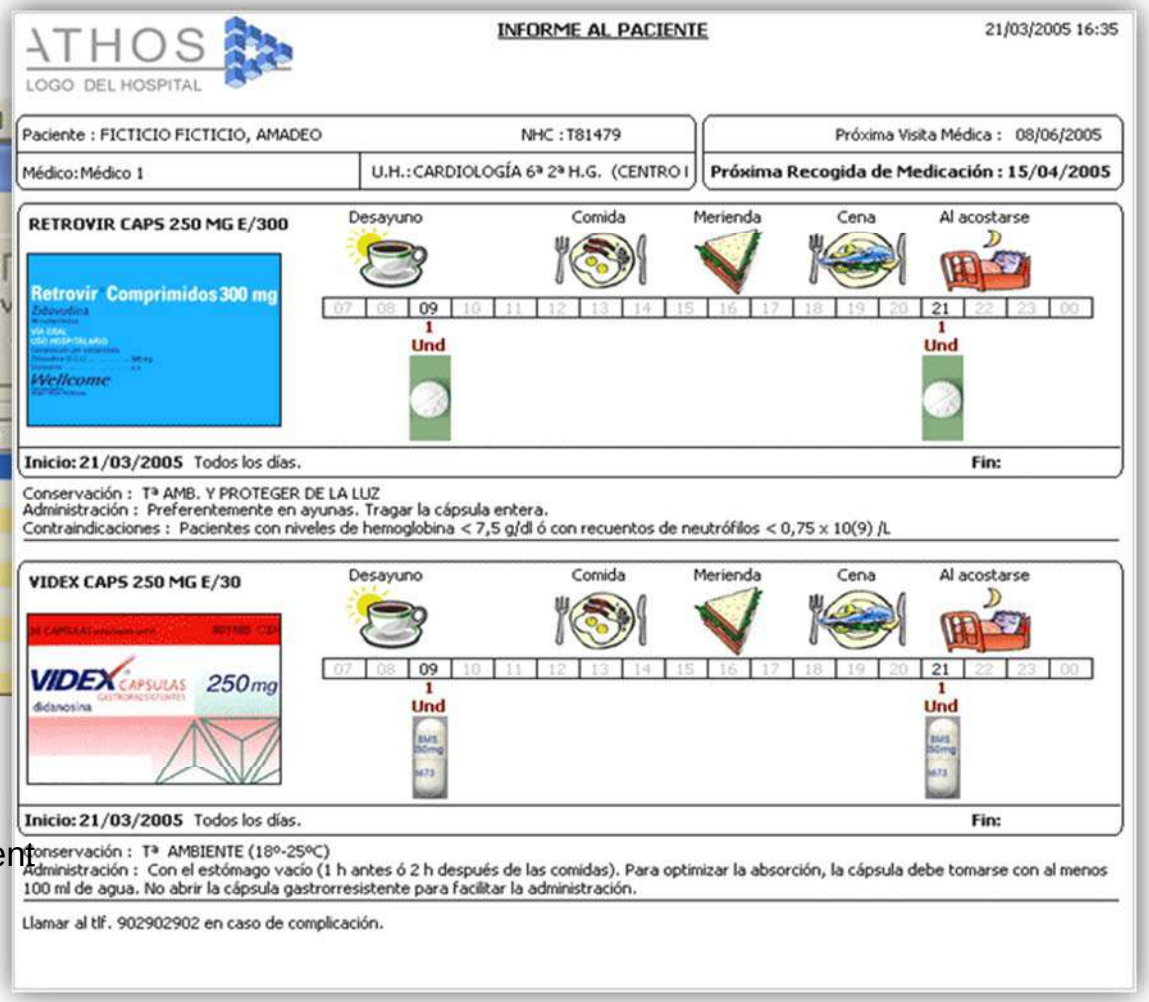
Athos™ Pharma is intended to both public and private healthcare centers considering all assistance administrative processes (economic and clinic) involved in the hospital environment

Athos™ Pharma

Hospital Pharmacy management system

ATHOS MEDICAL by APD

Prisma – Prescription Module



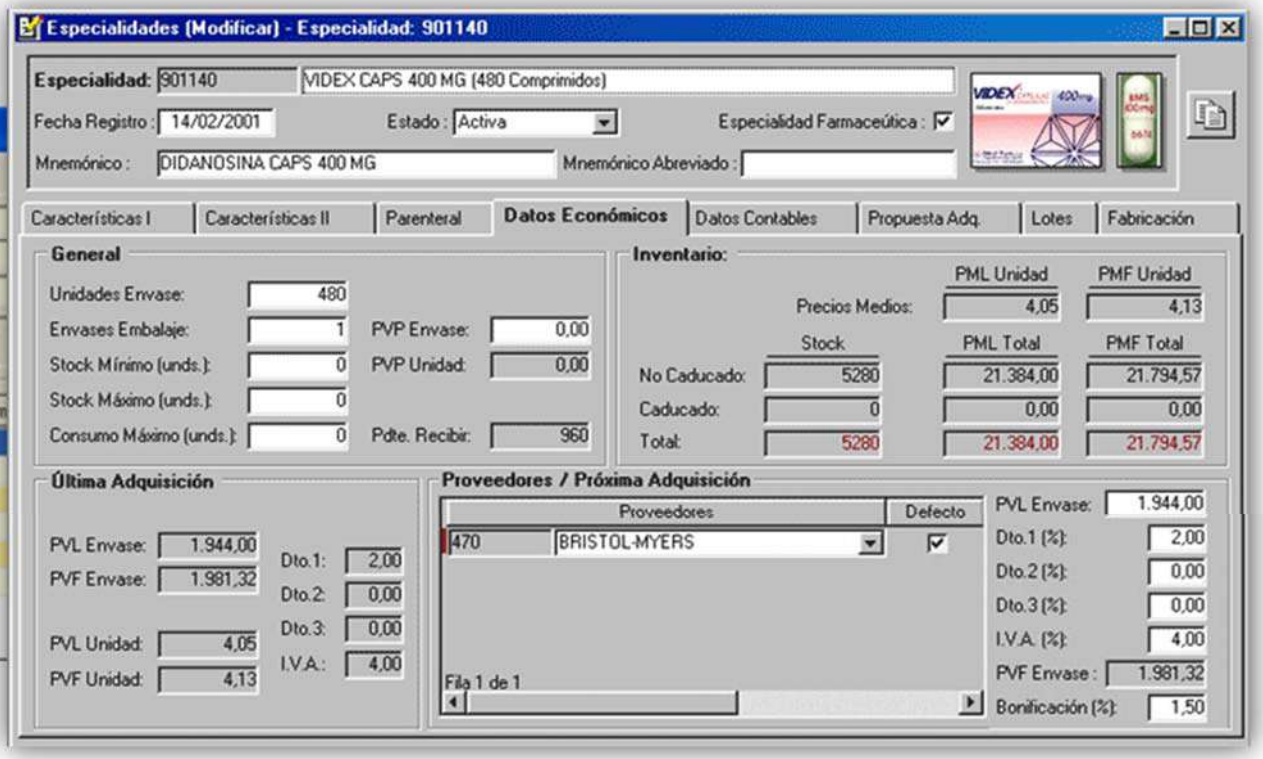
- Electronic assisted prescribing
- Medicaments
- Mixtures
- Fluid therapy
- Alerts
- Pharmacy schedule
- Elaboration
- Dispensing
- Single dose management
- Patient information
- Prescriptions printing
- Administration

Athos™ Pharma

Hospital Pharmacy Management system

ATHOS MEDICAL by APD

Stock – Stock Management Module



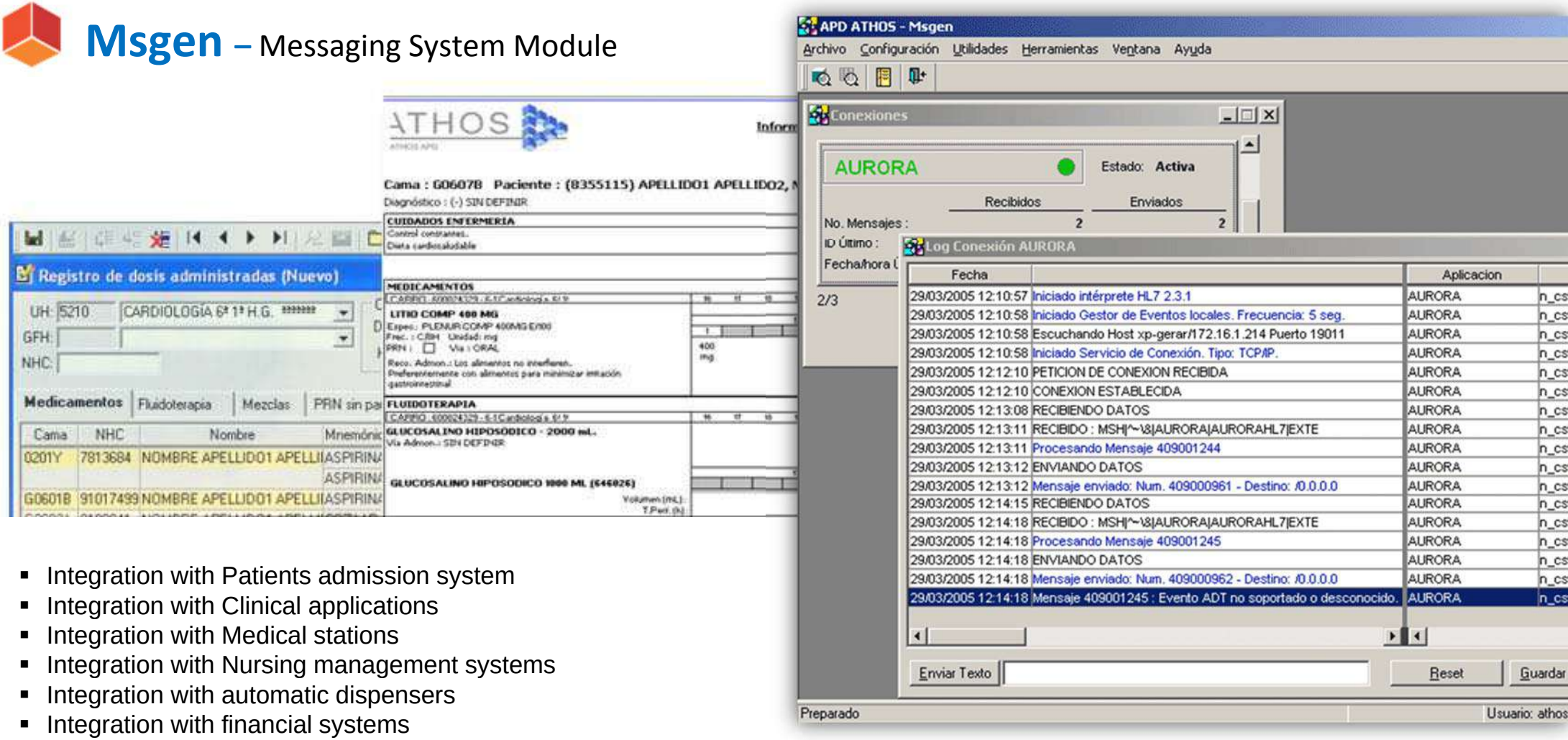
- Medicines management
- Listings and statistics
- Logistic improvement
- Inventories
- Lot management
- Expiration date control
- Automatic refill
- Dispensers control

Athos™ Pharma

Hospital Pharmacy Management system

ATHOS MEDICAL by APD

Msgen – Messaging System Module



- Integration with Patients admission system
- Integration with Clinical applications
- Integration with Medical stations
- Integration with Nursing management systems
- Integration with automatic dispensers
- Integration with financial systems

Athos™ Dosys

Automatic Dispensing Cabinets

- ✓ Nursing personnel have permanent access to patients' medicaments at any moment (even when there is no supervisor in duty), protecting the medicaments and supplies from unauthorized accesses
- ✓ The barcode scanning process integrated in the cabinet software increases the dispensing process reliability, security and traceability.

"Athos™ Dosys allows any Pharmacy Service to **increase efficiency** while enhancing the experience for both patients and health care staff.
It´s the perfect combination of **security, simplicity and affordability.**

Athos™ Dosys

Automatic Dispensing Cabinets

- ✓ All Athos™ Dosys cabinets include a computer and a touch screen to control all the system different components.
- ✓ Several cabinet configurations available, from 25 to 72 drawers, with or without divisions.
- ✓ Drawers can be configured to store up to ten different medicaments or a single medicament for safety reasons
- ✓ Auxiliary cabinets provide a greater storage capacity, controlled by the main cabinet. Our accessories catalog include barcode readers, biometric identifications, refrigerators and return drawers

Athos™ Dosys

Automatic Dispensing Cabinets

- ✓ Medium security sub-rack for access to multiple reference and multiple doses.

- ✓ High Security sub-rack for access to a single reference and multiple doses.

Athos ™ Dosys RFID

Real time tracking of medicines

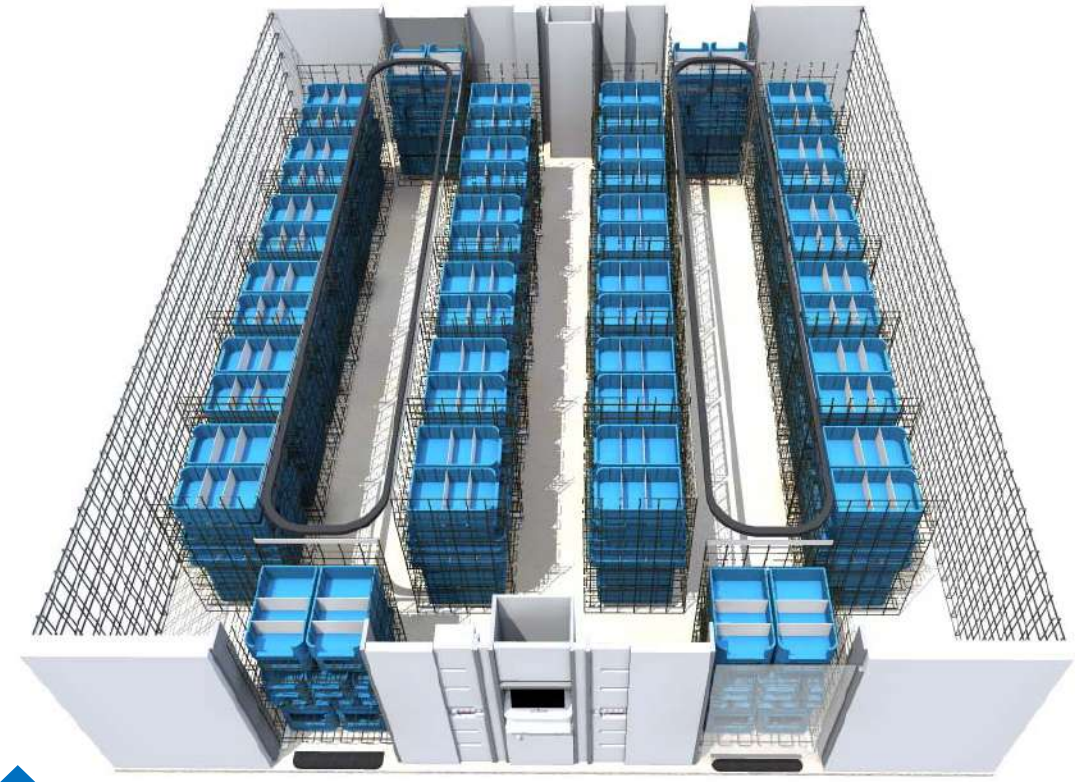
- **RFID** Cabinets

- ✓ Control of use - RFID and / or biometric.
- ✓ Controlled access to medicines and medical devices.
- ✓ Automatic control of the expiration date.
- ✓ Remote control of the stock.
- ✓ Inmediate availability of information for the correct decision making
- ✓ Integration with hospital IT systems.

Athos ™ Storage

Automatic Storage System

- ✓ A carousel is a storage system with trays or baskets suspended on a conveyor which is rotated by a rail system.
- ✓ There are horizontal carousels and vertical carousels.



Hospital Pharmacy Management

APD fully automated Pharmacy warehouse

- Inventory Control
- Cost reduction
- Optimization of processing times
- Automation of complex logistics processes
- Integration with other hospital systems
- Ease of use
- Space optimization

Athos ™ Storage

Automatic Storage System

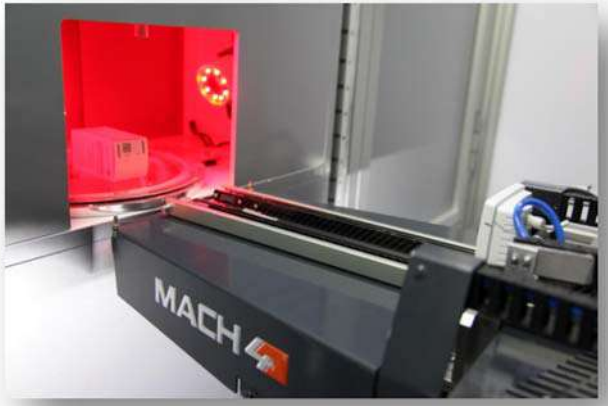
- Horizontal Carrousel

- Vertical Carrousel

- ✓ High order processing productivity: between **300 and 900 lines per hour / operator**
- ✓ Human resources savings up to **75%.**
- ✓ **Easy-to-adapt** to any existing hospital in terms of space and energy requirements
- ✓ **Paperless system:** all processes are digitally done
- ✓ Accurate and easy-to-obtain reports for an effective inventory management

Athos ™ Storage

Automatic storage and dispensing system for Outpatient Area



Athos ™ Temp

Automatic Temperature Control System

- ✓ The temperature control and tracking in the pharmacy of any hospital is a critical process that must comply with tight Quality Standards and local regulations.

- ✓ The **Athos™ Temp** control system **automates and centralizes** the temperature data from all the cold rooms, refrigerated warehouses and freezers

- ✓ The registered data is then stored with a **data monitoring software.** The analysis and evaluation of this measurement data is guaranteed by the software

APD values differentiators

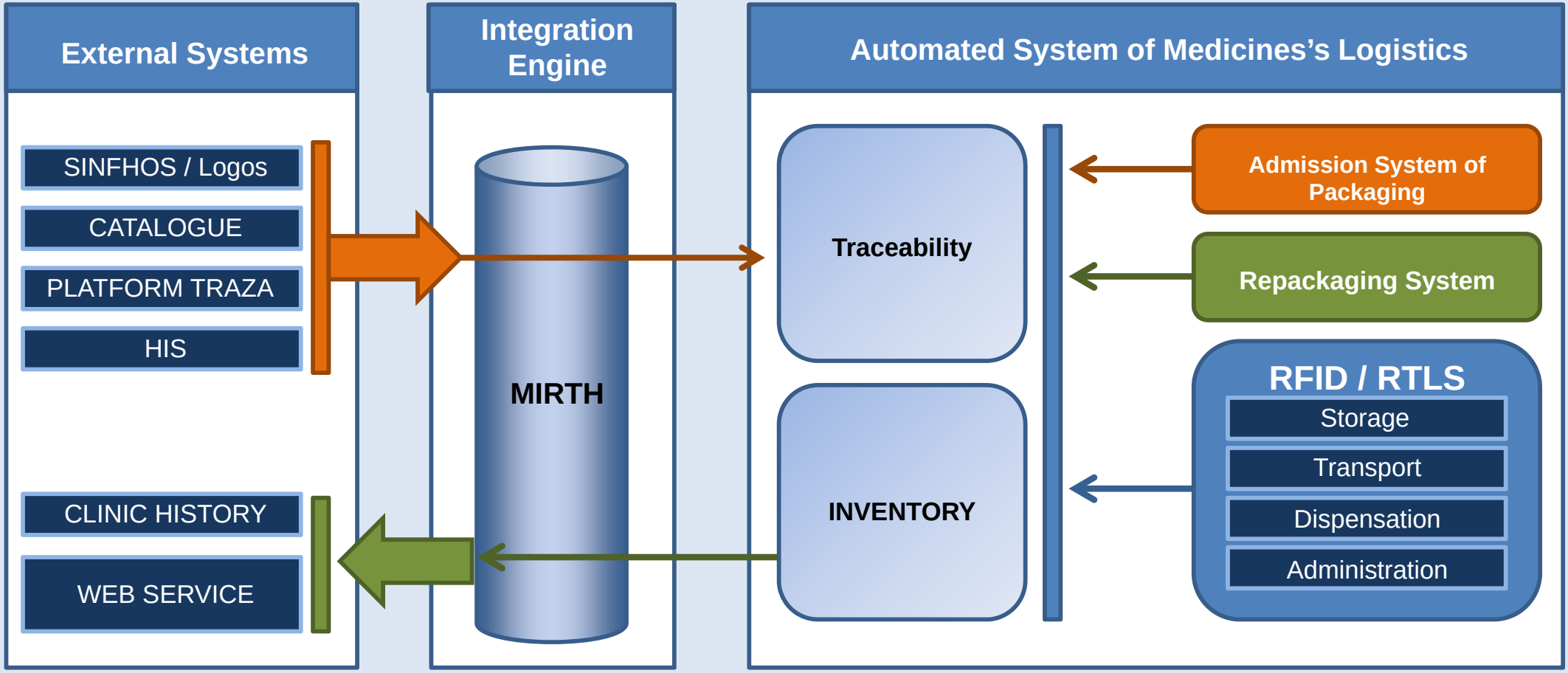
Highly qualified **Technical staff**

to perform all phases of a project successfully

Key areas of Know-how:

- Consultancy.
- Change management.
- IT Integrations.
- Implantation.
- functional validation.
- Training.
- Commissioning.
- After-sales service.

Integration with other corporate systems



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