Web-Based Medical Equipment Management Systems (MEMS)

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Why use **Medical Equipment Management System (MEMS)**

- Cornerstone of the Medical Device (MD) management within the hospital
- Full overview of the spatial distribution of the Medical Devices within the hospital
- Management of Adverse Events (Vigilance)
- Control and monitoring of every economic aspect
  - Equipment Acquisition, Maintenance (contracts etc.), Repairs (schedule repairs, cost of equipment parts etc.)
- Quality Management Overview of the status of the devices:
  - Functional, Under repair, Out of order, Effectiveness
- Analysis of needs
- Planning of investments
Why use a National MEMS

- National overview of the spatial distribution of the MD
- Overview of the technological status of the healthcare system
- Basis where all the MD related policy design should rely on
- Tool for planning and decision making on MD such as:
  - Investment
  - Management
  - Renewal
  - Reallocation

Design and planning of healthcare policies
Why use Web-Based MEMS

- **Web – Characteristics** (remote access, user-friendly, ease of use)
- **Secure** (automated back-ups, security mechanisms)
- **Flexible Customizable Data Set View**
- **Easier and more effective Work Flow** (online communication)
- **Multi-O rganizational** (ensures data integrity and uniformity)
- **Exchange Data with other Hospital Information Systems (HIS)**
- **Easy tracking with barcodes**

### Models names
- Advia Centaur
- ADVIA Centaur Folate
- Advia Centaur BR
- Advia Centaur B-Type
- Advia Centaur CA 19-9
- ADVIA Centaur CP
- Advia Centaur CP -
- Advia Centaur CP Sys
- Advia Centaur DHEA-SO4
- Advia Centaur Folate
- Advia Centaur Procalcitonin
- Advia Centaur Sys
- Advia Centaur Theophyllin 2
- Advia Centaur XP
- Advia Centaur XP - TSH3 -
- Advia Centaur XP Sys-
- ADVIA Centaur, Cat.
Software Tools Previous Versions

- Bitmans (1989, Oracle, Stand alone)
- Clemantis (1996, Oracle, Client-server)
- Praxis (2001, Delphi, client-server)
- Web-Praxis 1 (2006, Oracle, web-based)
- Web-Praxis 2 (2013, PHP-MySQL, Cloud Service)
Example: Greek Nationwide Medical Device Inventory

- Framework of national project

- Inventory phase (5 months):
  - 5 out of 7 National Healthcare Regions
  - 54 Hospitals and 107 Health Centres
Example: Greek Nationwide Medical Device Inventory
The Day After: **Sustainability**

- **Update** information
- **Data management** centre
  - Check the data inserted by the users (post entry elaboration)
- **Update codification** (new groups etc.)
- Change the **staff attitude**
Thank you for your attention