

AIS AKB. Structure

- Based on the *Handbook for filling in a registration card for AKB (1990)*:

- Types of archaeological sites, structures and finds
- Chronological, cultural and ethnocultural terms
- Orographical and hydrographical systems
- Types of soils
- Administrative regions in the country
- Types of land property

AIS AKB. Registration Card

One registration card = One archaeological site
A paper version

Unique ID number

Information for an archaeological site – single mound, mound necropolis, settlement, etc.

Localization maps

AIS AKB. Strategy for design

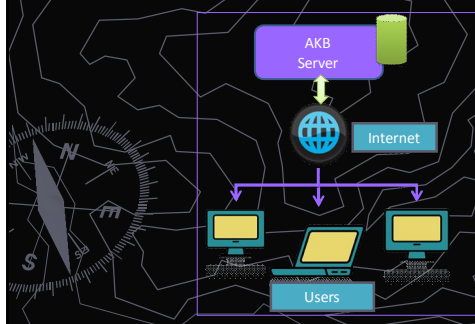
- Normative documents – a *Decree* from April 6, 2011
- A *national* central database for information about archaeological sites; creation and support by NIAM-BAS (a *Decree* from 2011)
- Access based on a specific structure (a *Decree* from 2011)
- Access to data from certain regions after applying and approval
- Manually input data
- Facilitation of data entry
- Exports

AIS AKB: WEB-based Software

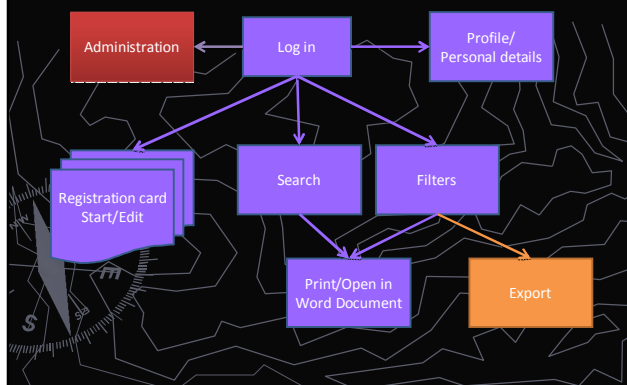
- WEB framework ASP-CTL based on two main products:
 - Classic Active Server Pages (ASP) for WEB applications
 - newObjects ActiveX Pack One (AXPack), library
- Database:
 - **SQLite**, more specific – implementation of AXPack – working on one centralized server
- Active Local Pages software (ALP) – access through:
 - Internet web site (naim-bg.com/akb/)
 - Desktop application (AKBViewer)

AIS AKB. *Online Repository*

CENTRAL DATABASE integrated in a WEB application



AIS AKB. *User Interface*



AIS AKB. *Types of Users*

According to the *Decree* from April 6, 2011:

“All users should be **ARCHAEOLOGISTS** with a GRADUATED Master Degree and **WORKING** in a scientific organization dealing with archaeological heritage conservation.”



AIS AKB. *Types of Access*

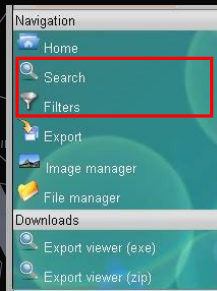
► **National Administrators:**

- NIAM-BAS
- Whole database
- Give access to other users after applying and approval
- Export information
- Editing all registration cards

► **Regional Administrators** – database of the corresponding region with the possibility of partial editing

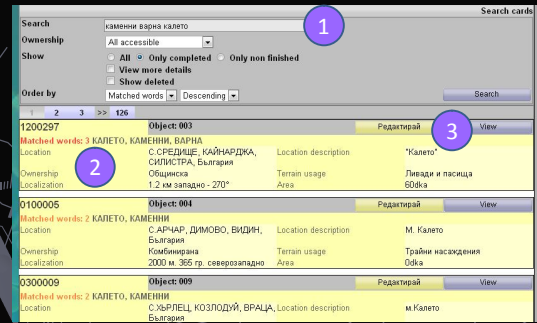
► **Users** – depend on the need and request

AIS AKB. Main Menu



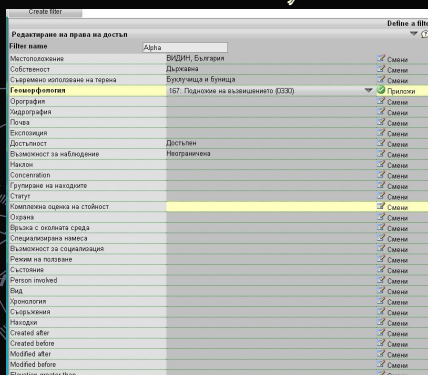
- Search by Keywords
- Search by Filters

AIS AKB. Search by Keywords



1. Keywords and options 2. Results 3. Options for each registration card

AIS AKB. Search by Filters



After Keyword Search/Filter

- Print
- Open in a Word Document

Print | Open as Word document

Card number 10000600

Exports by NA

- ▶ Exports to AKB database (.db) – open in AKBViewer
- ▶ Exports to CSV – open in a cartographic software



AIS AKB. Benefits

- ✓ Database for all types of archaeological sites in Bulgaria
- ✓ Normative documents that administer the system
- ✓ Easy access according to the regulation rules
- ✓ More precise localization using GPS coordinates
- ✓ More input information for sites – maps, pictures, documents
- ✓ Easy synchronization of the input information
- ✓ Easy editing of input data
- ✓ Facilitated work and search
- ✓ Higher protection

AIS AKB. Limitations

- ✗ Presence of old unactualized registration cards:
 - Limited and/or inaccurate information
 - No GPS coordinates
 - Old windows version registration cards missing visualized topographic maps
- ✗ Different intensity of data entry in different regions resulting in partly inaccurate results
- ✗ Lack of interactive topographic/satellite image of Bulgaria for archaeological sites position
- ✗ Lack of open access version

AIS AKB. Scientific importance

- ▶ Significant scientific reference book
- ▶ The most important source of information for analysis of a certain territory
- ▶ Data used in different scientific researches
- ▶ Data used in PhD works

AIS AKB. Future Perspectives

- ✦ Actualization of AKB database in full coverage of certain areas
- ✦ Topographic map and satellite image of the whole country, GIS
- ✦ Connection of AKB with Bulgarian National Cadaster
- ✦ Connection of AKB with similar systems of the neighboring countries
- ✦ Creation of popular and open access version of the system on the Internet with reduced information

AIS AKB. Things to be considered...

- ✦ Concept of AIS AKB
- ✦ AKBViewer (working offline) – is it needed?
- ✦ WEB API (Application Programming Interface) – federating what information?
- ✦ Data import? Drop-down list difficulties
- ✦ Combination of a centralized approach with a federation strategy

AIS AKB. Development in the last 20 years

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AIS AKB. Internet Version 2010

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