

Success With GIS



International Federation of Surveyors Fédération Internationale des Géometrès Internationale Vereinigung der Vermessungsingenieurje

SHAPING THE CHANGE

XXIII International FIG Congress October 8th-13th, 2006

Innovation in Land Management: Integrated Solutions For National Cadastre Projects

XXIII International FIG Congress Munich

These documents are only complete, when used in connection with the verbal paper; any isolated use may lead to misunderstandings.

Dipl.-Ing. Elmar Happ

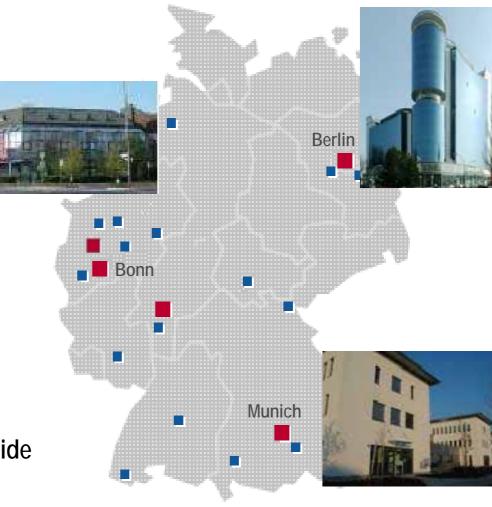
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The AED-SICAD Company



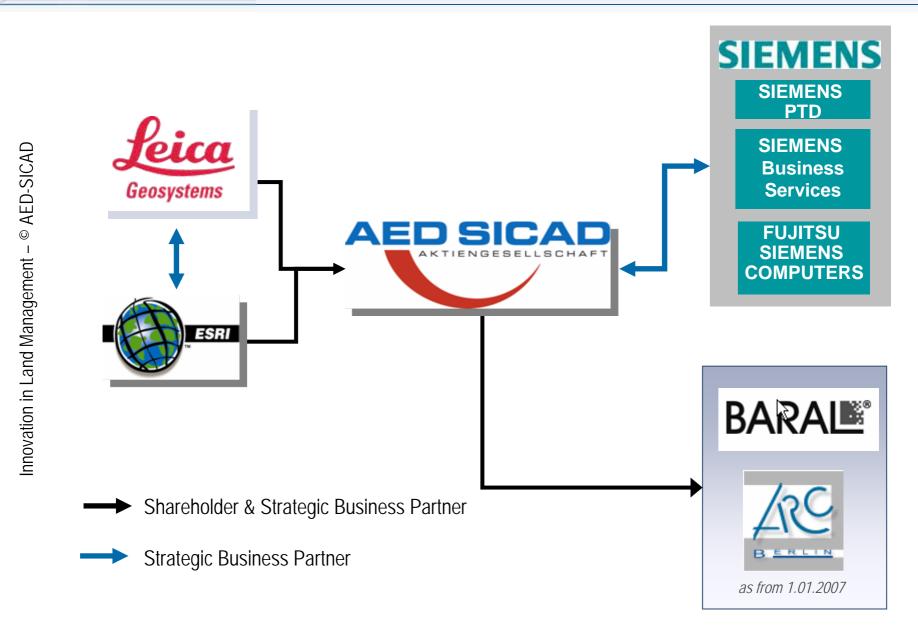
- About 200 employees
- Based in Germany
 (Bonn, Munich, Berlin, Essen)
- Further competence centers in Europe and Asia
- Strategic partnerships with worldwide
 IT market leaders



AED-SICAD offices

Distribution partners







A Team with State-of-the-Art Products and Technology

- Efficient solutions
- Modern and future-proof GIS and RDBMS platforms
- Professional cadastre and technological knowledge

• We ensure a confident working relationship with our partners and clients













Prof. Benning und Partner





논	Land Management
CAD Framework	
AI	Local Government
on <mark>N</mark>	Utilities
AED-S pplication	
Ald	Others
AF	

Cadastre, Topography, Mapping

Urban and Environmental Planning Topography, Special Cadastre

Electricity, Gas, Water, Sewage, Heating, Telco

Real Estate, Banking, Industry, Insurances





LM on ArcGIS - Basics

International Land Management Solution LM on ArcGIS

based on





ESRI ArcGIS Technology

ISO Standards





OGC Specifications

FIG Cadastre 2014









ALB

- + Automated Real Estate Register
- ALK
 - ✦ Automated Real Estate Map
 - ALKIS
 - ✦ Authoritative Real Estate Information System
- ATKIS
 - Authoritative Topographic-Kartographic Information System
- AFIS
 - ✦ Authoritative (Fixed) Point Information System
 - NAS
 - Standardized XML based data interface for AFIS-ALIS-ATKIS



Process orientation

- + As simple as possible
- + Ergonomic
- Software adapts to business processes

Interoperability

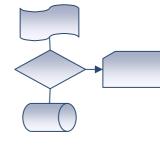
- Between GIS systems
- Within the IT World

Continuous Data Flow

From field to office and back

Investment security

- Smooth transition to new technologies
- Component-oriented architecture











- 19103 Conceptual Schema Language
- 19106 Profiles
- 19107 Spatial Schema
- 19109 Rules for Application Schema
- 19115 Metadata
- 19118 Encoding
- 19119 Services
- 19128 Web Map Server Interface
- 19136 Geographic information Geography Markup Language
- 19139 Metadata Implementation Specification
- OGC Web Feature Server 1.0
- OGC Filter Encoding 1.0

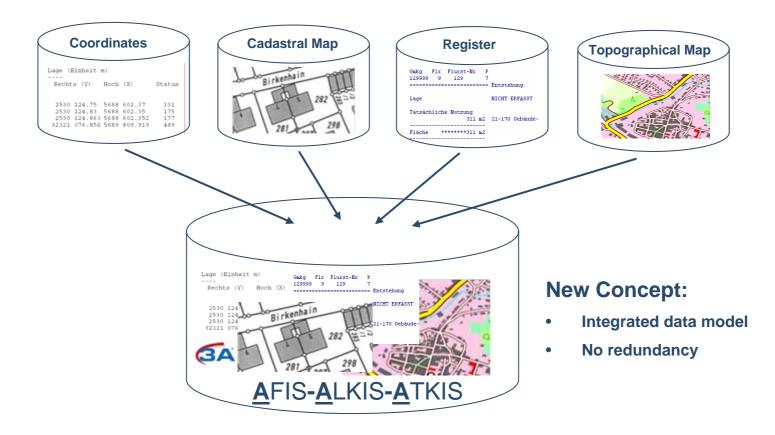






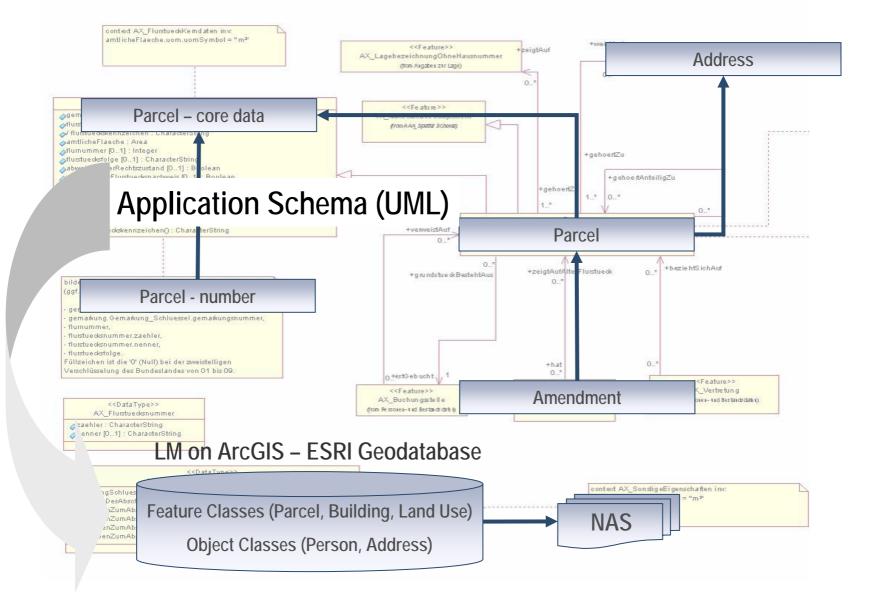
Old Concept:

- Different data models and databases
- Partly redundant information

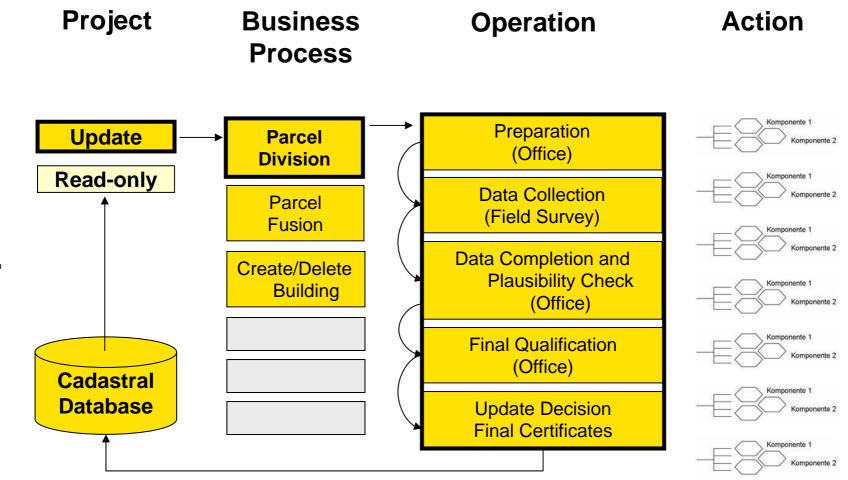




Integrated Data Model Based on Unified Modeling Language (UML)



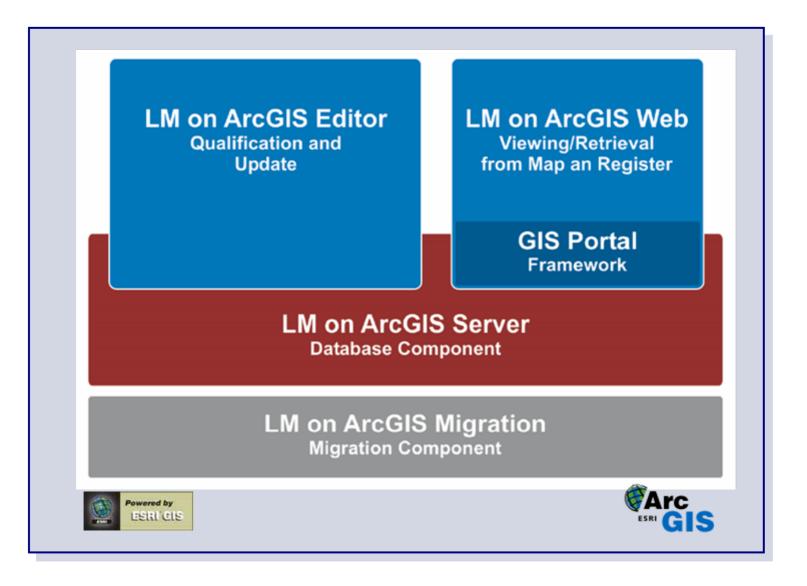
Cadastral Workflows



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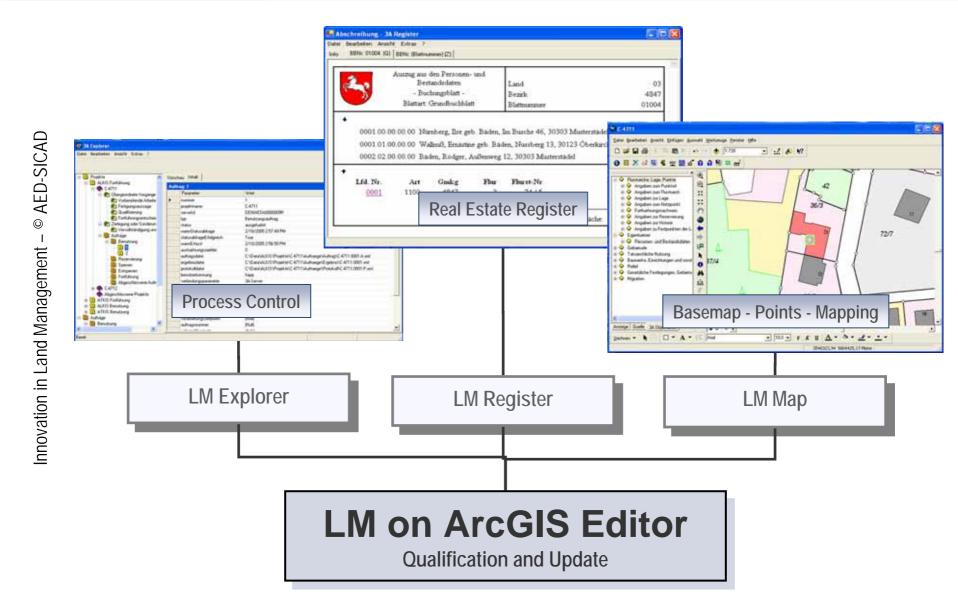


Innovation in Land Management – © AED-SICAD



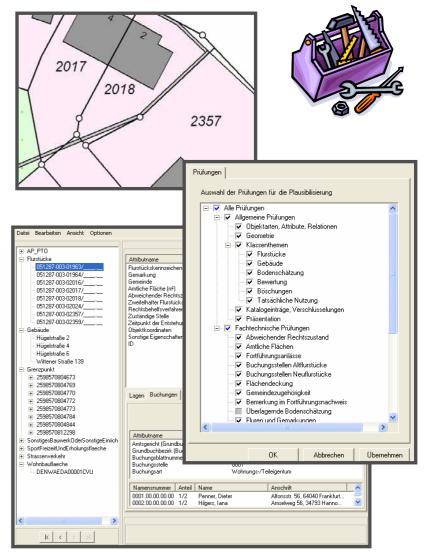


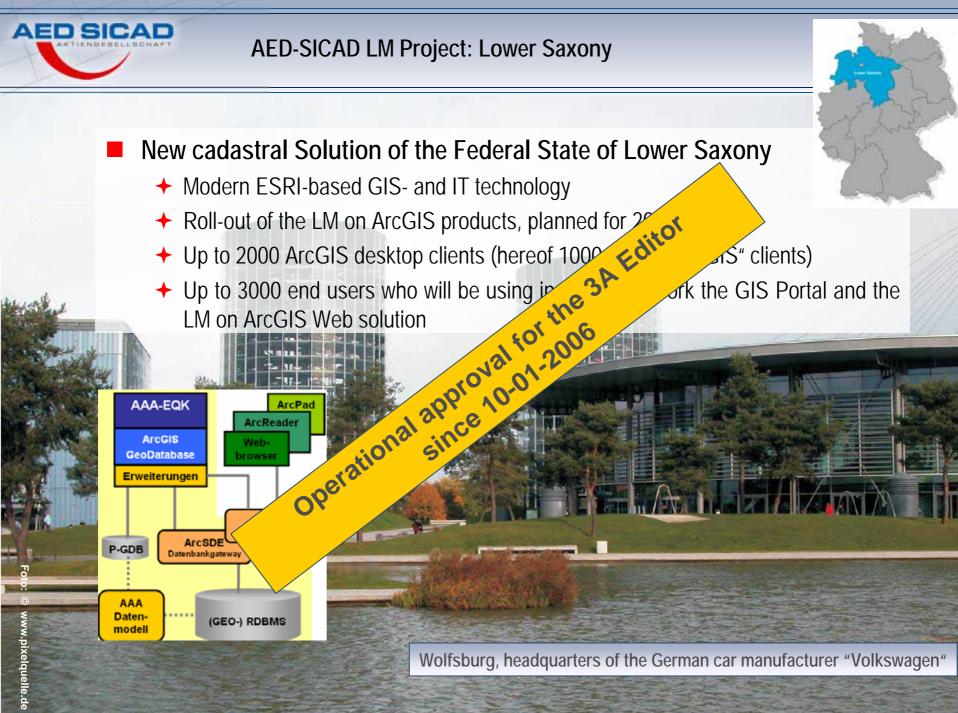
Modular Architecture of GIS und Register Applications





- Object-orientated Model Building
- Uniform Editing Tools
- High Quality Visualization
- Comprehensive Checking Functions
- Integrated Process Control
- Interoperable and Standard-based
- Application Programming Interfaces (API) for the Tools





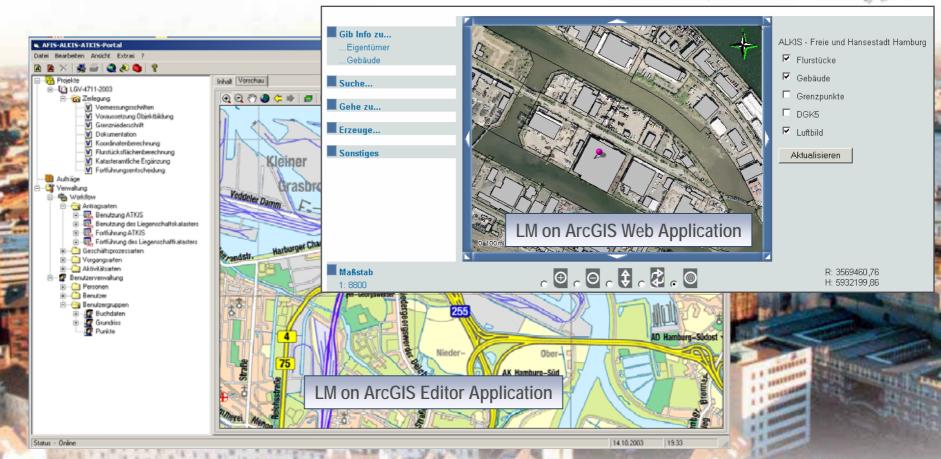


AED-SICAD LM Project: Hamburg and Schleswig-Holstein

Comprehensive Cadastre Solution for Two Federal States

- + Migration, Editor and Web Solutions
- Internet Geoserver for Hamburg and Schleswig-Holstein

An important step towards e-Government in Northern Germany





Longtime Expertise for the Realization of Land Management Solutions

- Member of the AdV (Working Committee of Survey Administration) Board of Coordination with the GIS industry
- Realization of a complete LM Product Line

Process-orientated Workflow Management

- ✤ Integrable and scalable in urban IT Infrastructures
- Compliant with national and international Standards
- GIS Functionality on every Desktop
 - ✤ ESRI ArcGIS as Base for Geodata Management
- Continuous Data Flow From field to office and back
 - + LM on ArcGIS Mobile Solutions
- Internet Information and Sales Portal for Land Agencies and Municipalities
 - Component of many eGovernment Solutions

The new all-in-one Software Generation!



LM on ArcGIS now! – Production starts 2007

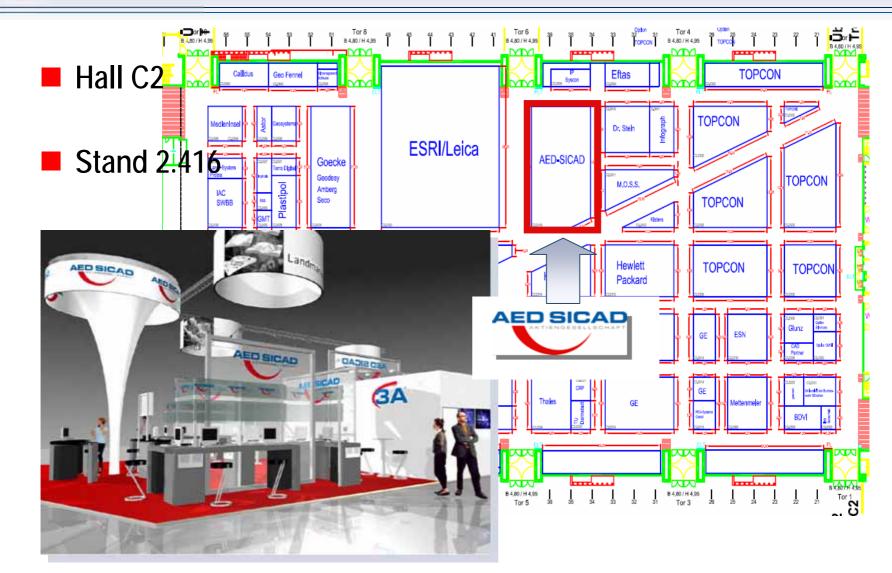
The Innovative Software Platform for all Tasks in Land Management



LM For Professionals!



AED-SICAD at INTERGEO Exhibition





GADIE

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Success With GIS



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und Vormigration

Thank you for your interest!

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