

## Πρακτικές Τιμολόγησης και Κοστολόγησης Τεχνικών Έργων

|   |   |                   |
|---|---|-------------------|
| <div></div>   |   |                   |
| <p>1<sup>st</sup> February 2006, Athens</p> <p><b>STLB-Bau</b></p> <p><b>Fit for the future</b></p> |   |                   |
| <p>© 2005 DIN Deutsches Institut für Normung e. V.</p>  | <p>R. Marquardt<br/>Head of Standardization Management<br/>DIN German Institute for Standardization</p> | <p><b>GfB</b></p> |

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## Content

**DIN**

Publishers of the STL-Bau texts

**DVA**

Umbrella organization of GAEB

**GAEB**

Editors of the STL-Bau texts

**STLB-Bau**

Contents

**GAEB data exchange**

International interest

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2

## DIN

Publishers of the STL-Bau texts (1/4)

- DIN German Institute for Standardization



As a registered association DIN is funded by private enterprise

In a contract the Federal Republic of Germany recognizes DIN as the German standardizing organization responsible for the European and international standardizing activities

DIN supplies the round table - more and more on internet platforms - where delegates of all interest groups will work out standards based on consensus - timely and in line with the market.

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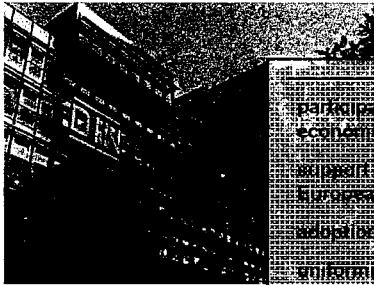


3

## DIN

Publishers of the STL-Bau texts (2/4)

- goals and tasks of DIN



- participation of all interest groups, irrespective of their economic abilities and language skills
- support of free trade by joining the international and European standardization
- adoption of international standards
- uniformity and consistency of the standards
- avoidance of redundant work
- compliance with legal regulations
- active contribution to form consensus

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**G4B**

4

## DIN

Publishers of the STL-Bau texts (3/4)

- DIN represents national interests at international standardizing activities

inter-  
national



regional



national

**DIN** German Institute for  
Standardization

**DKE**  
VDE DIN

sectors

- mechanical engineering
- building industry
- services
- information technology
- aerospace
- medical technology
- precision engineering
- ...
- electrical engineering
- tele-communications

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**G4B**

5

## DIN

Publishers of the STL-Bau texts (4/4)

### • DIN - the numbers

|                                  | 2004   | 2003   |
|----------------------------------|--------|--------|
| DIN standards (total)            | 28.905 | 28.069 |
| experts of interest groups       | 27.015 | 26.123 |
| members of DIN                   | 1.654  | 1.650  |
| standards committees/commissions | 76/5   | 76/5   |
| working committees               | 3.109  | 3.306  |
| budget of DIN (m. €)             | 58     | 65     |
| employees of DIN                 | 387    | 398    |

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6

## DVA

Umbrella organization of GAEB

### • German Committee for construction contract procedures (DVA)

|                     |  |   |             |
|---------------------|--|---|-------------|
| steering committees | <div> </div> <b>structural engineering (HAH)</b>   | <div> </div> <b>civil engineering (HAT)</b> | <b>GAEB</b> |
| editors of          | <b>German construction contract procedures (VOB)</b>   |   |             |
| content             | <div> </div> <ul style="list-style-type: none"> <li>specify the awarding of construction contracts</li> <li>contain general technical specifications in 60 different trades</li> <li>All construction contracts of the public authorities must be based upon them</li> <li>published by DIN</li> </ul> |   |             |

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7

## GAEB

Editors of the STLB-Bau texts (1/2)

- Joint committee for information technology in building & construction (GAEB)

### Main focus:

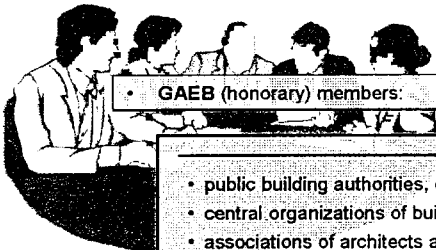
common language for all participants engaged in design, construction and management of buildings and construction

### Scope of this common language:

- Standardized descriptions for items in bills of quantities
- Guidelines for the structure of bills of quantities
- Standards and guidelines for data exchange in procurement
- Standards and guidelines related to quantity surveying and invoicing

## GAEB

Editors of the STLB-Bau texts (2/3)



- GAEB (honorary) members:

- public building authorities, central municipal organizations
- central organizations of building & construction industries
- associations of architects and engineers
- professional associations

- GAEB working groups:

- In the GAEB working groups consensus must be reached
- DIN supplies secretarial and some administrative support

## GAEB

Editors of the STL-Bau texts (3/3)

- International Construction Information Society (ICIS)

„ICIS is a worldwide association of organizations which provide national master specification systems and/or cost information systems for the construction industry.“ [Quote from: [www.icis.org](http://www.icis.org)]

GAEB benefits from the direct exchange of information and ideas with similar non competing organizations



## STLB-Bau

Contents

- library of specification texts for standard construction works (STLB-Bau)

The STLB-Bau contains 76 trades (Version 04-2005)

The main advantages of the STLB-Bau texts for all user groups:

compliance with the general technical specifications of the VOB  
up-to-date references of national and international standards

Additional reasons for public authorities:

- neutral and non-proprietary texts
- the non-profit and non-partial GAEB-organisation with its honorary members.

## GAEB data exchange

### History

- GAEB data exchange format was first introduced in 1985
  - exchange file is structured into rows of 80 characters
  - further developed into "GAEB 90" format
  - scope: exchange of bill of quantities during all phases of procurement
- completely redesigned in 1999: "GAEB DA 2000"
  - data exchange format uses an object oriented approach. Its basic items are elements, structures and objects
  - broader scope: all kinds of alphanumeric data exchange in building and construction
- rewritten in 2002 using XML: "GAEB DA XML"
  - XML (eXtended Markup Language) interface
  - current version GAEB DA XML 3.0

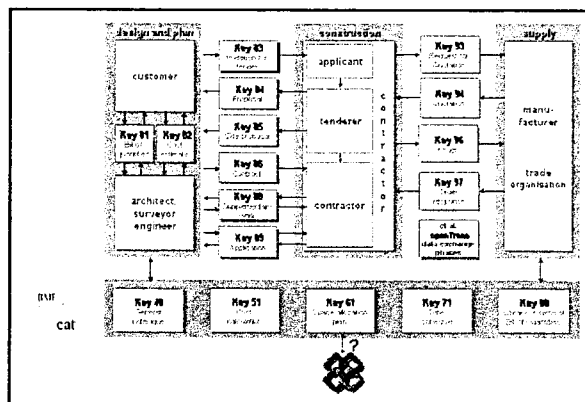


12

## GAEB data exchange

### Chart

- Building process covered by GAEB DA XML



different exchange formats for different phases of building process (different keys)



13

## GAEB data exchange

### Existing links

- GAEB collaborates in the field of data exchange with:

#### BMEcat

„The BMEcat- format was developed with the aim of standardizing, and consequently simplifying, the interchange of product data catalogues between suppliers and buying organizations.“

members resp. users: Bayer AG, DaimlerChrysler AG, IBM Germany et al



#### IAI Germany

Options are being investigated for collaboration with IAI in the field of the space-allocation-plan aspect of the building process



## GAEB data exchange

### International interest

- Fiatch (USA)

#### Vision



FIATECH is a consortium whose vision is a future state where capital projects are executed in a highly automated and seamlessly integrated environment across all phases and processes of the capital project life cycle.

All information is available to who needs it, when it is needed, and where it is needed at an affordable price.

#### Goal: Affordable price

Fiatch doesn't develop its own standards but supports and enforces existing standards.



## GAEB data exchange

International interest

- **Fiatch (USA)**

- contacts have been established with Ric Jackson, director of Fiatch
- GAEB DA XML and its embedding in a software solution was presented to an impressed audience of Fiatch members
- Great interest in a cooperation with GAEB

Further steps still have to be discussed