ONLINE
Construction Information System

Bringing all information together in one system

April 2010
INTRODUCTION
History STABU Foundation

- 1976  Start by government, architects, engineers and construction industry
- 1986  National specification system on paper (80 booklets)
- 1990  STABU²-edition relational database (floppy disc, cd, dvd) combination with governmental specification system
- 2010  online Construction Information system
Softwarepartners

- Link with:
  - Existing specification programs;
  - Existing costs and estimating programs;
  - Existing CAD-programs;
  - Existing planning programs;
  - Existing spreadsheets (for example use of energy);
  - Facility management programs.
Softwarepartners

- Link with purchasing programs;
- Condition measurement;
- Link with future programs (stand-alone, online) for example ‘List of demands’, first design etc.

Exploitation agreement with software houses and licence agreement with users
Board of Directors

Government

Architects / Advisors

Building contractors

Electric Building contractors

Suppliers

Defensie

BNA

Bouwend Nederland

UNETO-VNI

NVTB

NL Ingenieurs

VNG

aedes

ICIS

STABU
MARKET DEVELOPMENTS
Developments in the Dutch construction industry

- Climate and use of energy
- Running a business in a socially responsible manner
- ICT Standards
- Education and knowledge
- Tendering professionally
- End user orientation
- Chain of integration
- Quality and guarantee
- Transparancy and integrity
- High standard communication
Climate and use of energy:

- Link between specifications and adopting building materials and its LCA values;
- Specification conditions regarding new isolation techniques, heat storage systems and low-energy houses;
- Stimulate the use of building information models (BIM).
Running a business in a socially responsible manner:

- Life span vision: total costs concerning the complete life span of a building; keeping costs as low as possible with a better information structure for links with costs, facility management and companion budgets.
- Information about durable purchasing, practical translation in specifications from cradle-to-cradle innovation programme of SenterNovem.
- Applying not just “lowest price” but also other means of tendering like granting values.
**ICT Standards:**

- Let market parties communicate online, by construction information system online and by using Project Information Management system (PIM);
- Linking the online construction informations system with BIM technology;
- Making available and linking with IFD library for buildingSMART.
Contribution of STABU

- **Education and knowledge:**
  - Developing knowledge system regarding codes and legislation; using practical knowledge of experienced partners in the building industry and make available tuned to modern times.
  - Technical background information of third parties and STABU, making accessible via the online construction information system.
  - Developing new courses on market demand;
  - Making available existing and new courses online (elearning).
Contribution of STABU

- **Tendering professionally:**
  - Knowledge system regarding codes and legislation;
  - Publication “Guideline contract agreements” and a course on this subject;
  - To combine new contract agreements with specifications.
End user orientation:

- Support “Building conceptual” and “Living Building Concept” by placing the end user in the middle, which offers the chain in a fixed combination of integrated solutions;
- Draw up service contracts for future adjustments.
Chain of integration:

- Integration of knowledge and systems in the chain of designers, builders and suppliers to give the building process quality and efficiency and to reduce the costs of unplanned errors.
- Information and courses on this subject.
Quality and guarantee:
- Support existing and new quality documents for building materials;
- Support benchmarking on checklists on delivery;
- Support past-performance system;
- Support risk management system.
Transparancy and integrity:

- Using the system to make transparancy possible concerning making agreements and keeping them.
- Supporting the new code of conduct “Stichting Beoordeling Integriteit Bouwnijverheid” en “Gedragscode Leidende principes” in publications, eduction and information.
Contribution of STABU

- **High standard communication:**
  - Task of STABU by developing the online construction information system by means of information, websites, publications and courses.
DEVELOPMENTS
STABU
Online Construction Information System

STABU²

Technical support information

STABÜ ELEMENT

Knowledge system
Construction law

Bestekservices.nl

Standard Spaces, building types and Surroundings

E-learning products, courses and education

DEEPLINKS WITH INFORMATION PARTNERS

PARTNER SOFTWARE
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PARTNER SOFTWARE

DEEPLINKS WITH INFORMATION PARTNERS

API

GB

BCAS

online STABU
Online Construction Information System

- Database with 9563 specifications
  - 3800 manufacturers product specifications;
  - 650 Dutch and European Standards
  - 402 quality certificates CUR, ISSO;
  - STABU-Standaard;
  - Other publications.

- Related with national standard contracts UAV, UAVgc, AVA, UAVTI, ALIB.

- Covering 50% total turnover Dutch construction industry (80 billion euros)
Online Construction Information System

- New developments specifications related with LCA values standards, contracts etc.
- Deeplinks with knowledge systems regarding codes and legislation.
- Deeplinks to Bris (National Building Code system).
Connection between Elements and STABU²-system.

Including:

- detailed Elements + STAGG to building-parts and building-parts-component;
- all relevant links with STABU²-specs;
- Two divisions: existing buildings and new buildings.
Online Construction Information System

- Extension in 2011 with performance specs on the level of:
  - elementgroups;
  - elements;
  - variantelementgroups;
  - variantelements;
  - building parts;
  - building parts components.
- Deeplinking to technical information
- Deeplinks to knowledge system regarding codes and legislation.
- Deeplinks to Bris.
Online Construction Information System

- STABU²
- STABUELEMENT
- bestekservices.nl
- Technical support information
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DEEPLINKS WITH INFORMATION PARTNERS
Online Construction Information System

- 3800 specifications of 776 manufacturers/suppliers in **STABU²** format and 262 specification services of:
  
- Covering between 400,000 – 500,000 building products

www.bestekservices.nl
Online Construction Information System

Next steps:

- Selling webaddresses (URL) to manufacturers for connection from their websites
- New functionalities from STABU-Element and connections to product information
- What the clients wants more.

bestekservices.nl
Online Construction Information System

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- STABU² ELEMENT
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PARTNER SOFTWARE

DEEPLINKS WITH INFORMATION PARTNERS
Online Construction Information System

- Deeplinks to all relevant technical information including:
  - STABU-Standaard;
  - Help information, National and European Standards, Quality documents etc.
Online Construction Information System

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- STABU²\textsuperscript{ELEMENT}
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Partners Software

DeepLinks with INFORMATION PARTNERS
Online Construction Information System

- Knowledge system regarding codes and legislation
- Information transfer from experienced people into Wiki system
- Quality check by the National Institute of Building Codes
- Standard contracts and all relevant deeplinks with STABU².
Online Construction Information System

STABU²
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PARTNER SOFTWARE

DEEPLINKS WITH INFORMATION PARTNERS

GB

BCAS
Online Construction Information System

New development
STABU Standard for buildings, building types, rooms, etc.
(relational database)
Start up with three partners:

Next steps in 2010
- Contacts with Facility Management groups, development clients brief etc.
- Ready end 2010
Complete checkup all STABU training and courses to fit into the new system, including e-learning parts.
Online Construction Information System

- Project Information Management system.
- Vondle software from Bricsys
- To help partners in the construction industry to communicate on a professional online base.
Online Construction Information System

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API

PARTNER SOFTWARE

DEEPLINKS WITH INFORMATION PARTNERS

GB
BC
CAS
CAD agreement 2D drawings
Rules where to store what type of information (in which layers).
Rules how to build drawing (line thickness, ...)
Mostly Autocad / Autodesk
Extension to 3D partners
Online Construction Information System

14,000 concepts
37,000 relations between these concepts

BARBi
LexiCon

Hierarchy structure is in discussion between IFD partners

EDM Database
EPM-systems Norway

API version 2.0
New version 3.0
October 2010
To decide:

- Change STABU²-specs from textlines to unique attributes including connection with IFD Guid (Global Unique Identifiers).
- Depending on BIM developments in the Netherlands and the extra funding.
THANKS FOR YOUR ATTENTION