Characterisation of supply chain for reused building components in Europe

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Establishing an optimal supply chain

- Stakeholder interviews
  - Sweden
  - Belgium
  - Germany
  - Poland
  - Spain
  - Italy

- Workshop sessions
  - Sweden
  - Spain
  - Poland

- SWOT-analysis
  - Reuse of building components today
  - Opportunities & Barriers
  - Optimal scenarios
  - Policy recommendations
  - Key development needs
Current reuse situation

- Culturally valuable objects
- Other products marginal but existing market
- Existing actors
  - Ware house sales (private persons and small companies)
  - Social economy supported facilities
  - Blocket

Source: www.kompanjonen.se
Opportunities

• Positive attitudes
  – **Structural designer**: *It’s not that complicated, we need actors who can deliver and a system for quality control. We have standards for testing, calculation methods, etc.*

• Legislative framework

• Architects and designers may use existing resources
• Demolition inventories well in advance
• Green Building labelling systems
Barriers

- Cost
- Future competition with recycling and incineration
- Quality Assurance, CE-marking
- Warranties
- Hazardous materials
- Weak market structure
Optimal scenario – Redistribution

- Industry association
  - CE-marking
  - Standards
  - Guidelines
  - Quality assurance, classifications
Some key development needs

- Research on the reusability of elements
- Development of quality assurance systems - guarantees
- Promotion of reuse in public green procurement
- Reuse related design and construction concepts
  - Design for disassembly
  - Systems like BASTA
- Inclusion of reuse and design for disassembly in GBCS
- Establishment of a reuse oriented industry association
- Establishment of network of easy accessible reuse points
- Centralised database system
Main policy recommendations

• Improve the demolition inventories
  – Early stage, promote guidelines
• Reuse agents – responsibilities
• Support creation of industry association
• Municipality level
  – Establish reuse points – grant land for such activities
  – Promote Design for Disassembly in land transfer agreement
Thank you!