CPI/NBS classification conference

London
3 February 2012

09:00   Registration and coffee
09:30   Introduction to CPI (Sarah Delany)
10:00   ISO 12006-2 (John Gelder)
10:15   Problems with Uniclass (John Gelder)
10:30   Coffee
10:45   Solutions for Uniclass (John Gelder)
11:15   Replacing CAWS (John Gelder)
11:45   Work section structure (John Gelder)
12:00   Semantic web project (Stuart Chalmers)
12:30   Finish

Construction Project Information (CPI)

Sarah Delany

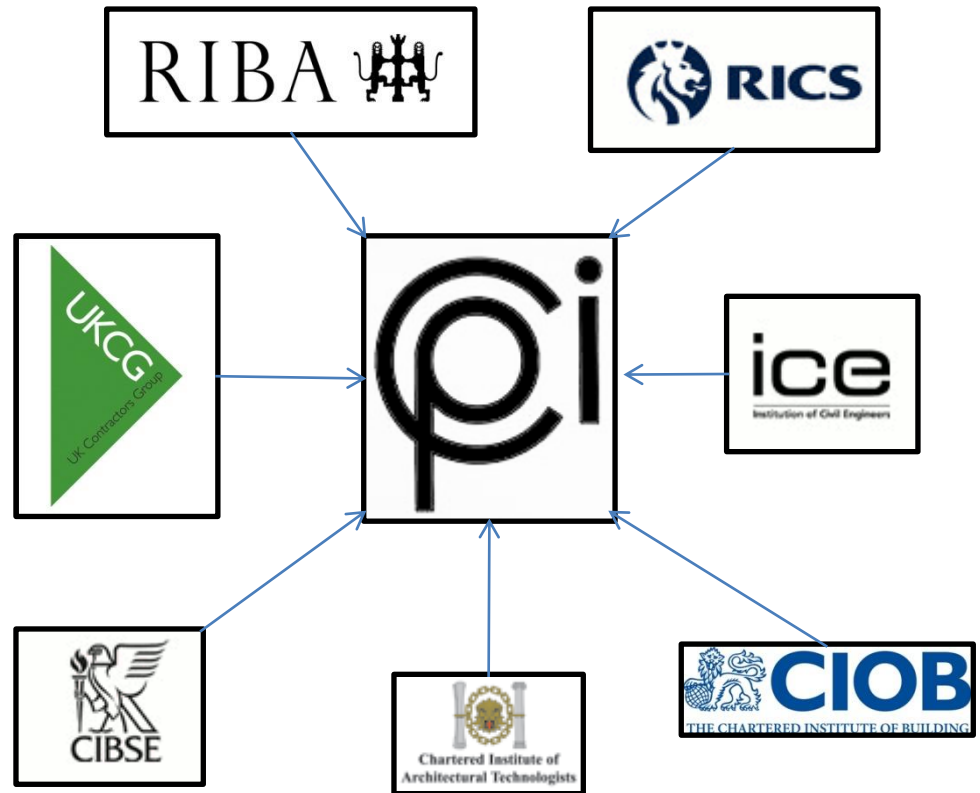CPI committee secretary
NBS technical author

CPI

- **CPI = '**Construction Project Information'
- Best practice guidance on any information relating to construction projects:
  - Content
  - Form
  - Preparation
- Ensures consistent dissemination throughout UK construction industry.
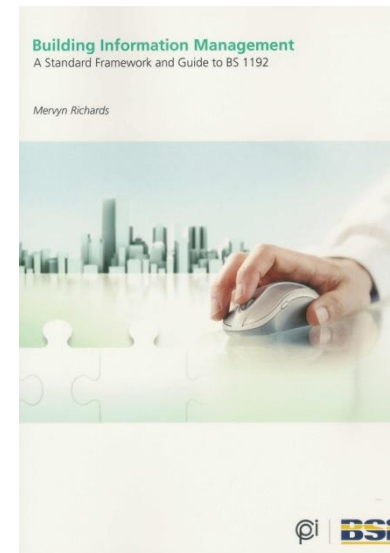
CPI committee

- Representatives of the major industry institutions

- Ensures the guidance provided has a solid industry foundation

Publications

- Building information management: A standard framework and guide to BS 1192.

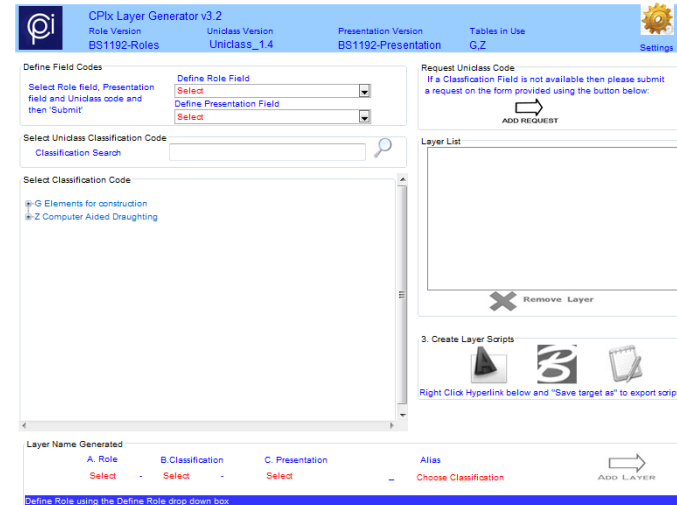   – A joint publication with BSI in 2010.

Publications

- Common Arrangement of Work Sections (CAWS)
  - First published in 1987 and revised in 1997
  - Revised on the CPI website in 2005
  - Table J of Uniclass

- Uniclass
  - First published in 1997
  - Tables G and H combined and listed on the website in 2011. Version in use by Crossrail
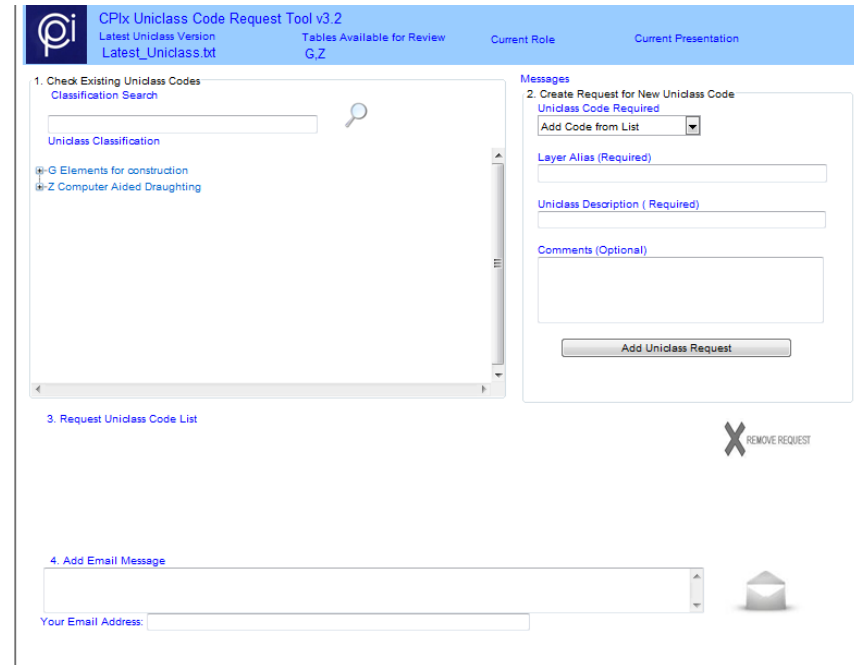
CPIx On line tools

- Uniclass layer generator
  - Generate a file for importing into modelling and CAD software
  - Define layer and object classification

CPIx On line tools

- Uniclass request tool
  - Formal method for requesting code for new classification
  - New code added to master: everyone uses the same classification

CPIx Protocol

- Construction Project Information (E)xchange

- Work in progress

- Updated version of the PIX protocol

- Client tool for managing project teams

Deliverables strategy

- CPI Strategy Document

- Construction Industry Confederation (CIC) project

Unifying Uniclass – Why?

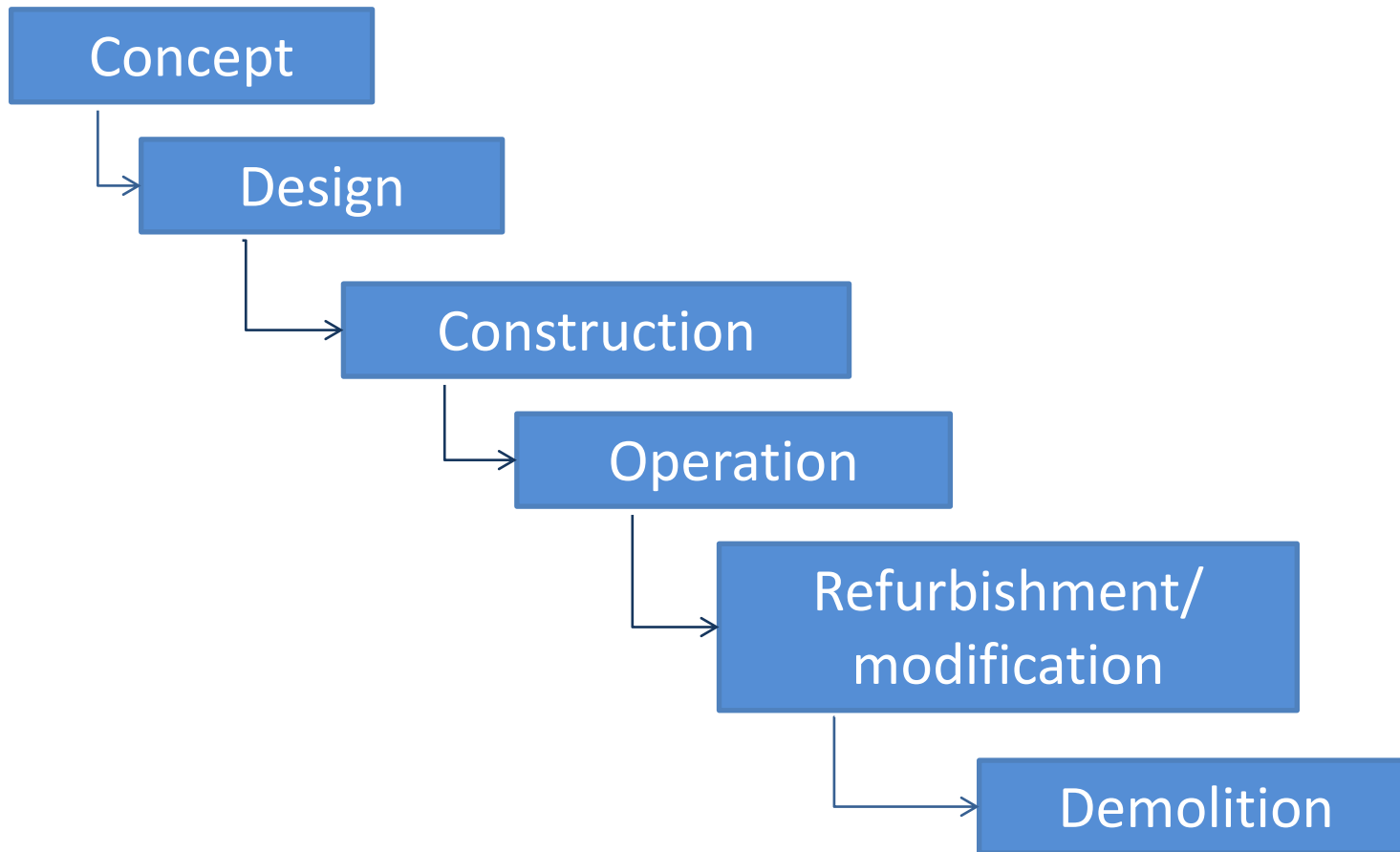## It's all to do with BIM

Building Information Modelling (BIM)

Fundamental principle of BIM:

"Adoption of a procedure for sharing information"

Construction life cycle

Concept

Design

Construction

Operation

Refurbishment/ modification

Demolition

Concept to Construction

Concept → Facilities
       Entities
          Elements

Design → Elements
       Systems
          Products

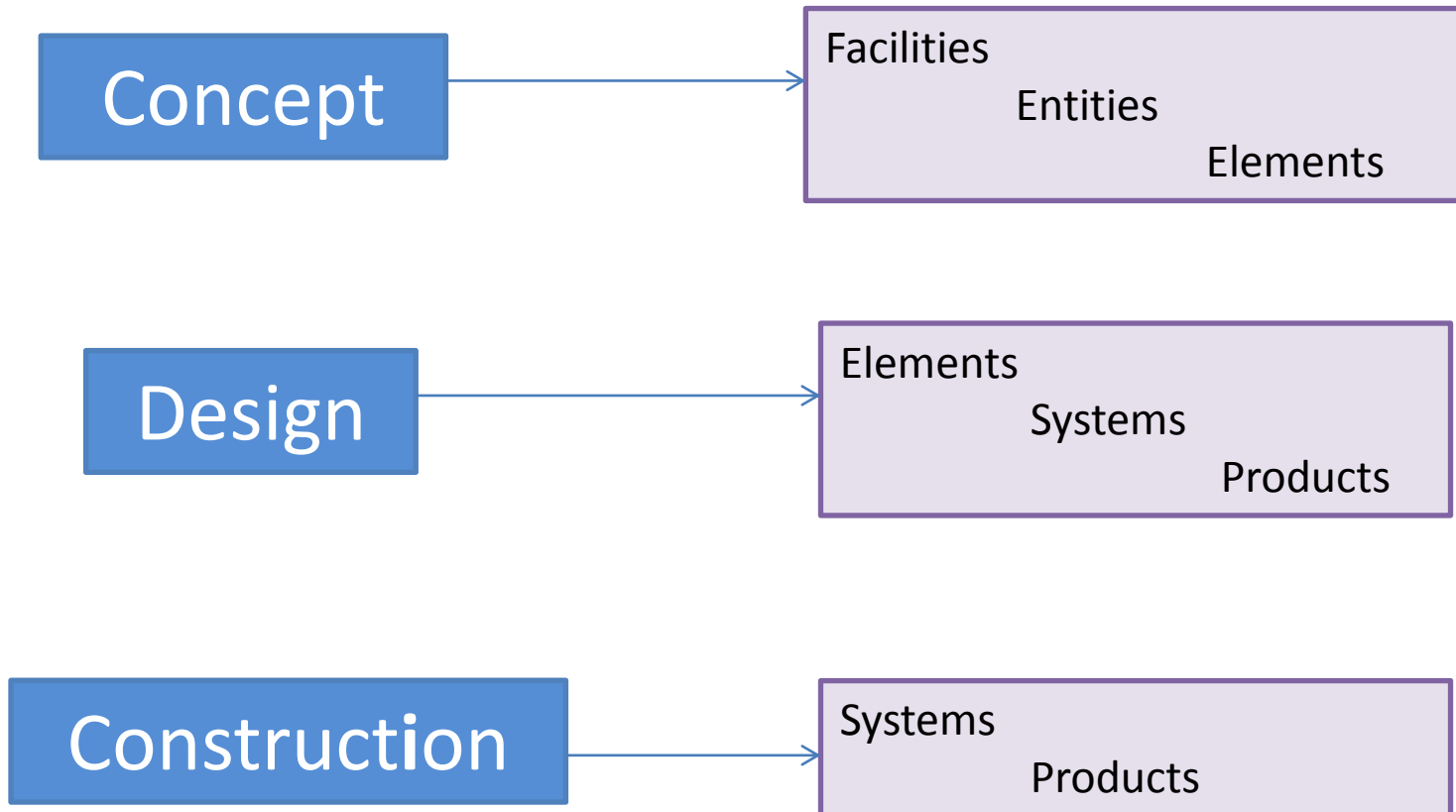**Construction** → Systems
       Products
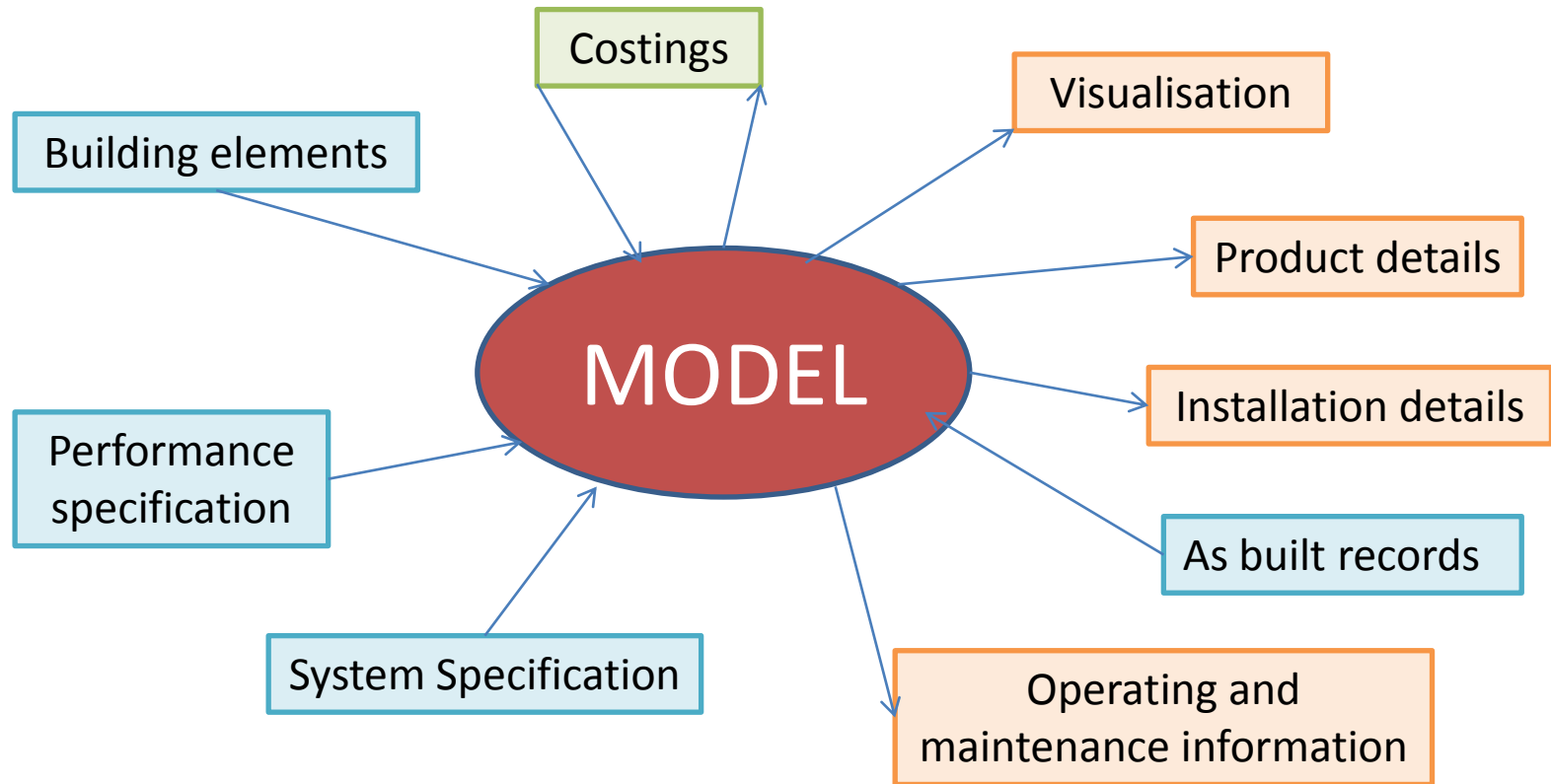
Information sharing

Current Uniclass

- Tables used by different disciplines for different functions.

- Librarians
  - Table D to define Facilities.
  - Table E to define Entities.
  - Table F to define Spaces.
  - Table L to define Products.

Current Uniclass

- CAD and modelling software users
  - Table G, Elements.
- Specification
  - Table J, Work sections.

- Costing
  - Table D, Facilities.
  - Table E, Entities.
  - Table F, Spaces.
  - Table G, Elements.
  - Table J, Work sections.
  - Table L, Products.

Unified Uniclass

- New set of tables.

- Linked from one to another.

- Using the same terminology.

- Electronic not printed.

- Dynamic.

Managing the change

- Ontology project.
- Mapping.