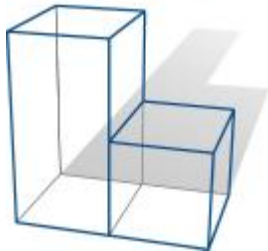


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# The Road to Opportunity in e-construction: the BUILD-IT Project

Michel Brachmond

**CRTI - B**



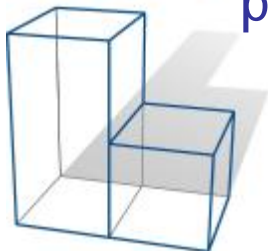
June 10th 2005

# Chronology of CRTI-B

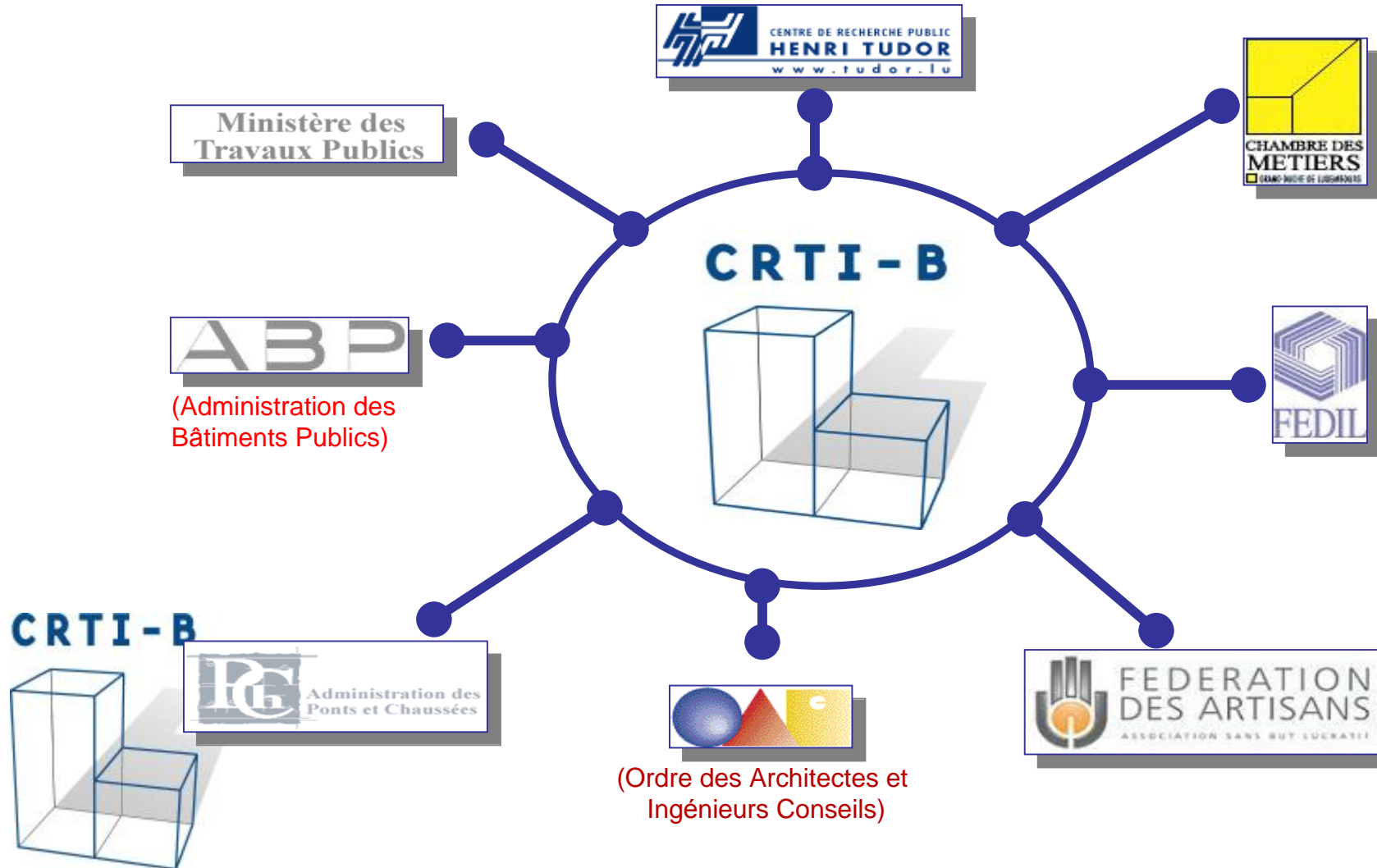
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- 1989 Sectoral Round Table (construction) in preparation of Internal Market proposed
  - § Design & implementation of information & communication system between all actors (in order to)
  - § enhance competitiveness & increase productivity
- 1990 Setting up of Centre de Ressources des Technologies de l'Information pour le Bâtiment (CRTI-B)
- 1990 – 2001 Normalization and standardization
  - § Contractual clauses & technical specifications (35)
  - § Transfer of graphical data
  - § Catalogs of building elements & the description of service provisions

**CRTI-B**



# Partners of CRTI-B

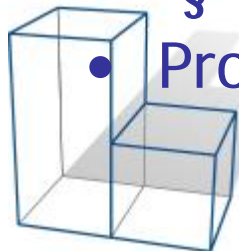


# Chronology of CRTI-B

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- 1992 Failure of BD.Bat (non availability of the right tools & right understanding)
  - § building elements
  - § standardization of descriptions
- 1997-2000 Failure computerization of the procurement process by CRP-Henri Tudor (SME-Net)
- 2002 New strategic innovation plan (brainstorming techniques)
  - § define, document & update the standards used in public construction work
  - § stimulate & model communication flow between actors
  - § informing & training in standardization & information society
  - § perform technological survey for the sector

**CRTI-B**



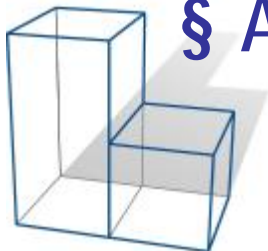
- Project Build-IT: towards the electronic cooperation

# Organisation of CRTI-B

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- Strategy developed by Comité d'accompagnement (all partners)
- Day to day management by Groupe de Gestion (ABP, OAI, CdM)
- 35 Working groups by theme
  - § 700 voluntary members (nominated by partners)
  - § conducted and animated by experts
  - § All decisions reached by consensus

**CRTI-B**

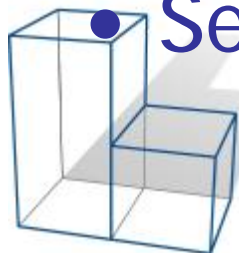


# Project BUILD-IT by stages

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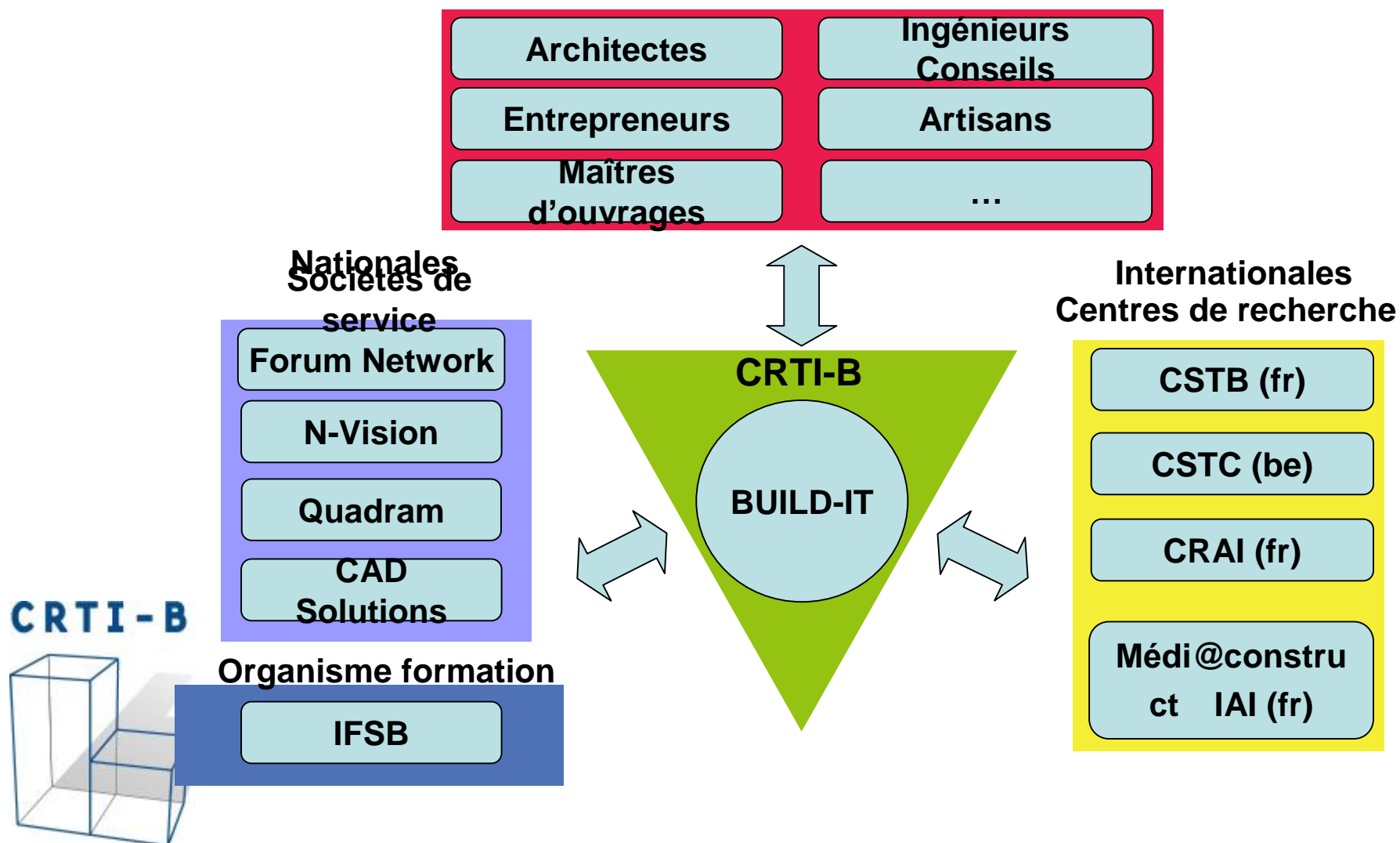
- Web Portal of construction sector ([www.crtib.lu](http://www.crtib.lu))
- Standardization of electronic communication & collaboration through digital mock-up
- Deployment of the results to the sector & international community

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- Sensibilization & training of the actors

# BUILD-IT: the professional partners

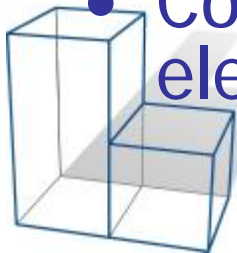


# Implementation of BUILD-IT strategy

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- Through working groups
  - § Structuring & organising of specification sheet descriptions
  - § Electronic cooperation
  - § Building site reporting & follow-up
  - § Platform evolution
- Brainstorming techniques involving professionals
- Testing of methods & tools in actual construction projects
- Collaboration with public authorities in charge of electronic tendering

**CRTI-B**



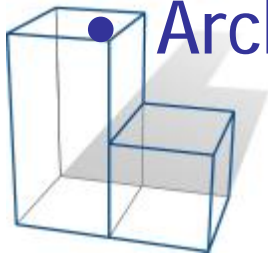
# The digital mock-up: specifications

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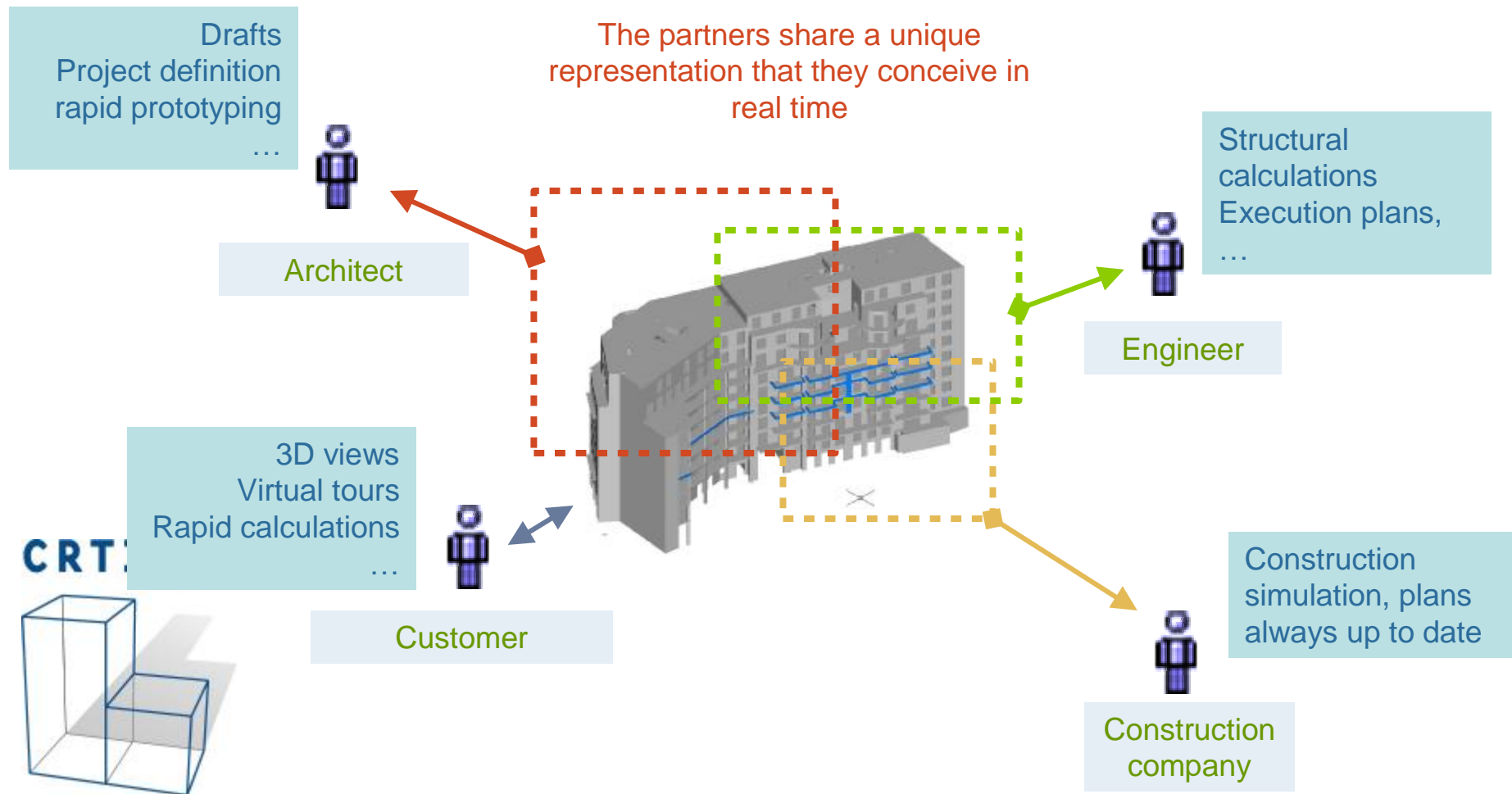
- Based on IFC Standard developed by IAI (International Alliance for Interoperability)
- 3D representation « much richer » & closer to reality
- Shared data model
- Techniques used & proven in other sectors (automobile & aeronautics)
- Advanced communication & collaboration tool between actors involved in a construction project

**CRTIP**

- Archive tool for Facility Management



# Digital mock-up: base of the electronic cooperation

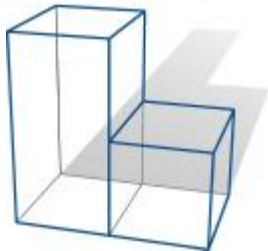


# Project BUILD-IT: Expected Added Value

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- Optimization of construction project progress (budget & deadline)
- Increase of global productivity of all actors
- Enhancing of synergies between private & public sector
- Adaptation of construction sector to information society

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# Questions ?

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