

ACEC LEADERSHIP SUMMIT 2014

DRIVING BUSINESS INNOVATION

SOMMET DU LEADERSHIP 2014 DE L'AFIC

STIMULER L'INNOVATION EN AFFAIRES



ASSOCIATION OF CONSULTING
ENGINEERING COMPANIES | CANADA

ASSOCIATION DES FIRMES
D'INGÉNIEURS-CONSEILS | CANADA





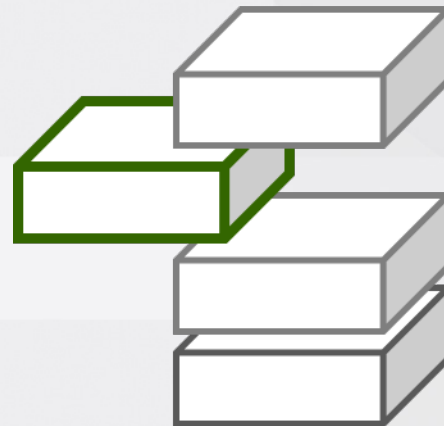
ASSOCIATION OF CONSULTING
ENGINEERING COMPANIES | CANADA

ASSOCIATION DES FIRMES
D'INGÉNIEURS-CONSEILS | CANADA

*SHAPING TOMORROW'S WORLD
FAÇONNE LE MONDE DE DEMAIN*

Leveraging Innovation through Project Delivery

John Dickinson, Ph.D., P. Eng.
President and Consulting Partner



Advanced
BIM
Solutions

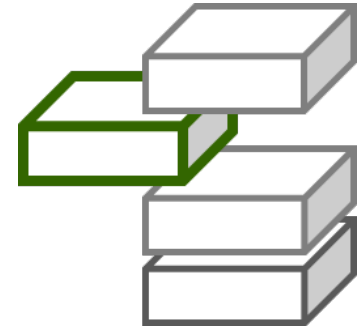


ASSOCIATION OF CONSULTING
ENGINEERING COMPANIES | CANADA

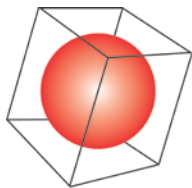
ASSOCIATION DES FIRMES
D'INGÉNIEURS-CONSEILS | CANADA

SHAPING TOMORROW'S WORLD
FAÇONNE LE MONDE DE DEMAIN

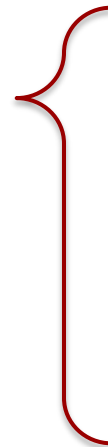
Advanced BIM Solutions



- BIM Consultancy
 - Specialty: Process, Practice and Policy
 - Company and Project Team Level



IBC
Institute for BIM in Canada



Construction
Specifications
Canada



Canadian
Construction
Association



DCC-CDC

Construction de Défense Canada
Defence Construction Canada



ASSOCIATION OF CONSULTING
ENGINEERING COMPANIES | CANADA



National
Defence
Défense
nationale



ARCHITECTURE CANADA
RAIC | IRAC



ASSOCIATION OF CONSULTING
ENGINEERING COMPANIES | CANADA

ASSOCIATION DES FIRMES
D'INGÉNIEURS-CONSEILS | CANADA

*SHAPING TOMORROW'S WORLD
FAÇONNE LE MONDE DE DEMAIN*

My Credentials

- Mechanical Engineer
- 13 years R&D NRC
 - Emphasis on Information flow & processes
 - 7 years product manufacturing cycle
 - 6 years construction sector – BIM
- Co-author





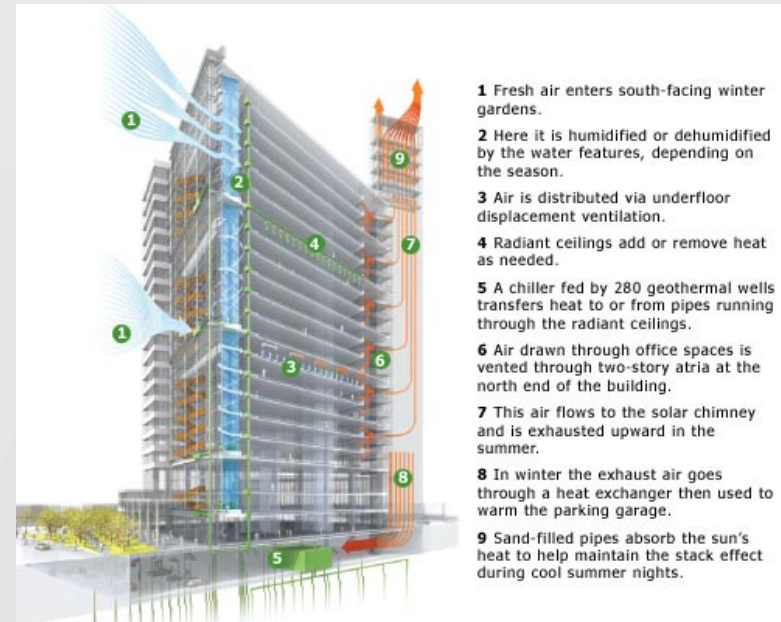
ASSOCIATION OF CONSULTING
ENGINEERING COMPANIES | CANADA

ASSOCIATION DES FIRMES
D'INGÉNIEURS-CONSEILS | CANADA

*SHAPING TOMORROW'S WORLD
FAÇONNE LE MONDE DE DEMAIN*

Trending: Complexity

- Bigger
 - Multi-use
 - Integrated systems
 - Constrained worksites
 - Compressed schedules
-
- LEED, green, SMART, sustainable, passive ...



Manitoba Hydro Place

Engineers are key to this





ASSOCIATION OF CONSULTING
ENGINEERING COMPANIES | CANADA

ASSOCIATION DES FIRMES
D'INGÉNIEURS-CONSEILS | CANADA

*SHAPING TOMORROW'S WORLD
FAÇONNE LE MONDE DE DEMAIN*

Trending: Collaboration

- Design-Build
- Construction Management
- IPD (Integrated Product Delivery)
- P3
- Lean Construction
- Prefab / Modular

→ **Superior Solutions**





ASSOCIATION OF CONSULTING
ENGINEERING COMPANIES | CANADA

ASSOCIATION DES FIRMES
D'INGÉNIEURS-CONSEILS | CANADA

*SHAPING TOMORROW'S WORLD
FAÇONNE LE MONDE DE DEMAIN*

Needs

- Teams / Partners
 - Right people
 - Right time
 - Information
 - Accurate
 - (Re-)Usable
 - Timely
 - Reliable
- Agreement (Contract)
- Goals, Process
 - Responsibilities
- Structured, digital,
unambiguous ...
- BIM**



ASSOCIATION OF CONSULTING
ENGINEERING COMPANIES | CANADA

ASSOCIATION DES FIRMES
D'INGÉNIEURS-CONSEILS | CANADA

*SHAPING TOMORROW'S WORLD
FAÇONNE LE MONDE DE DEMAIN*

BIM

- Behind the scenes
- Support collaborative practices
 - “Modelling” – support a well-defined, shared model, process
- Doing your job better and more easily



- Need to trust the model
 - Plan and prepare – details
 - Contract language



ASSOCIATION OF CONSULTING
ENGINEERING COMPANIES | CANADA

ASSOCIATION DES FIRMES
D'INGÉNIEURS-CONSEILS | CANADA

*SHAPING TOMORROW'S WORLD
FAÇONNE LE MONDE DE DEMAIN*

Summary: I Believe

- Future: Collaborative Construction
 - All its forms
- BIM is an enabler
 - Should look like →

