Technology Roadmaps

Intelligent Building Technology Highlights

The Context

An Intelligent Building is one equipped with the telecommunications infrastructure that enables it to continuously respond and adapt to changing conditions, allowing for a more efficient use of resources and increasing the comfort and security of its occupants. Intelligent Buildings provide these benefits through automated control systems such as: heating, ventilation, and air-conditioning; fire safety; security; and energy/lighting management.

The Challenge

To define Intelligent Building Technologies; determine the gap between what is state-of-the-art and its take-up; forecast where the industry might be in the medium term; identify challenges that must be overcome and actions that industry, government and academia could undertake to address them.

The Objective

To develop and implement collaborative activity amongst all stakeholders to grow the Canadian Intelligent Building Technology industry.

Key Participants

Industry: Continental Automated Building Association (CABA), Bell Canada, Honeywell, Hydro-Québec, IBM, Nortel Networks, Siemens, Tridel Corp.

Government: Industry Canada, Public Works and Government Services Canada, National Research Council, Natural Resources Canada, Canada Mortgage and Housing Corporation.

Benefits and Key Results

- Formed Intelligent and Integrated Buildings Council (IIBC) to assist with Roadmap implementation.
- Five Task Forces established to address challenges identified in the Roadmap.
- Developed a White Paper to describe and explain the various protocols used in the business automation industry.
- Wrote and published The Best Practices Guide for Intelligent Buildings Technologies.

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