

Proposal to form a cross-sector working group to draft a CABA white paper describing opportunities for joint public/private partnership to develop and execute a “Smart City” Strategic Roadmap

Brain storm and develop ideas for a white paper seed document. It will have a Canadian focus to identify some of the economic opportunities for many elements where private sector is a collaboratively partner with all three levels of Canadian government. The white paper can then be used as a seed document for an RFP to a develop Sustainable Smart City/ economic corridor roadmap creating a long term environment for continued public/private partnerships. The Roadmap should become a living document to assist with piloting and further evolve lessons learned through innovative application of existing technologies in non-traditional ways, and developing new ones to improve economic efficiencies, emergency response capability, new business opportunities and societal living as a whole. Such a nationally embraced theme will attract further investment and exportable knowledge.

With the stated Federal and Provincial intent to provide billions of dollars for infrastructure investment, now is the most critical time and opportunity to apply a lens to future proof these investments. Beyond the individual infrastructure investments, where and what are the opportunities to imbed IoT equipped sensor networks (for example) into the projects and that can not only be analyzed to improve the long term management and efficiency of each system they will become part of, but also identify those opportunities where data aspects from any one system or sector that can be utilized as a predictive indicator for the use and benefit by other city/regional systems, business communities and all the citizens that live and work in or near these economic hubs. In addition the IEC, ISO and ITU have just created a joint forum for smart cities. Canada should take a leadership role for its development as a systems committee.

What are some of the sectors to be considered? (not exhaustive)

- **Building systems** (residential, commercial, industrial)
 - o Multi-way communication with City/Region and sectors
- **Academic/business** joint research and real world deliverables
- **City/Region (government):**
 - o Ability to develop, fund, maintain long term planning vehicle facilitating stakeholder education and feedback
 - o Water/sewage
 - o Garbage; reuse/recycle/ end of life disposal, hazardous waste management
 - o Power/energy
 - o Public transportation
 - o Public/Private Traffic management (identify destination and mode of transportation at time of travel initiation (even prior))
 - Integrate communications.
 - o Communications

- Security
- Environmental monitoring
- Weather intelligence and asset deployment
- Value added services and efficiencies through compilation, analysis, assessment of key data points for fluid adaptation of deployment plans
 - trends analysis and early warning of any system saturation scenarios, facilitating opportunity to develop relief plans based on risk/impact