

## HIGH CAPACITY DIGITAL SOCIETY – MAKING IT HAPPEN 4 FEBRUARY 2016

**OBJECTIVE** The Montréal-Stockholm Cluster2Cluster webinar and workshop targets opportunities and needs in Industry, Research&Development and Society. The objective is to identify and pursue necessary actions in the areas of research, societal and business development. In particular, actions prior to the EUREKA event in Stockholm in April 2016 will be identified. A second goal is to identify one company wishing to establish its business abroad (in either Stockholm or Montreal) to assess what would be desired services for internationalization.

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**NOTES FROM THE WEBINAR PRESENTATIONS** Participants were welcomed by Marianne Treschow, chair of the Cluster2Cluster working group between Stockholm and Montréal. She explained that the origins of the Cluster2Cluster Working Group started in 2014 when significant interest in collaboration between the Stockholm and Montreal ICT clusters arose. A high-level series of presentations offered insight into the Canada-EU Comprehensive Economic & Trade Agreement and how it has the potential to impact business, research, and society, in particular for smart cities and the next generation 5G networks. (See program in Appendix 1.) A total of 50 participants joined from several cities in Canada, Sweden, as well as from the UK, France, and Germany. (See selected photos in Appendix 2.)

Ambassador Kenneth Macartney, Canadian Ambassador to Sweden, presented on the new Canada-EU Comprehensive Trade Agreement / CETA. Ambassador Macartney's presentation outlined the advantages which will result from CETA once it enters into force which is expected to occur during 2017. The ambassador's presentation provided information on the elimination of tariffs on almost all goods & service as well as outlining investor protection measures, supporting cross-border FDI, and the liberalisation of travel and cross-border work between Canada and the EU. Information on access to public procurement markets in both directions was included in the ambassador's presentation.

Dr. Hatzigeorgiou talked about the importance of industry 4.0 and what it means for collaboration. Among other topics, the issue of cities as innovation platforms was raised, as was the fact that the most successful cities in the future would probably not be megacities but cities that are what is large today.

Mrs. Divry presented some of Montreal's digital strategy elements and how they are being implemented. Among others, Montreal is the top city in Canada for university funding and #1 in the world for operational research. They identified 7 innovation gaps that are being tied to the analysis of business opportunities in big data analytics, IoT, and cloud computing.

Mr. Schildt discussed how digitization is influencing how cities grow and that we are seeing that a new kind of business expertise is needed, for example in regards to relationships and bimodal thinking. Access of both children and the elderly also present their own set of challenges, which is driving the smart city organization.

Dr. Boucher briefly presented the new testbed planned that includes both wired and wireless solutions around a number of planned innovation hubs from London, ONT to Québec, QC, i.e. spread over about 1000 km. The access to the open innovation platform includes innovation sites, research sites, and demonstration sites, and a number of complementary efforts and R&I partnerships are already established.

Mr. Burbidge presented the plans for the upcoming delegation and smart city partnering mission to London, UK, and Stockholm, Sweden in April 2016. Included in this presentation is a request for helping and promoting matchmaking between Canadian and Swedish companies.

Mr. Broberg presented, among others, what Stokab is doing within the Urban ICT Arena in terms of the needs for connectivity. Advertising posts, bus stops, and city bikes are examples of what may be connected in the near future.

Mr. Bjarne finished off the presentations by presenting some of the opportunities offered by the EUREKA program. Market-oriented nature, bottom-up approach, innovative products, processes and services, as well as international cooperation are the main characteristics of EUREKA, with IT accounting for a large total part of the ongoing projects and networks.

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NOTES FROM  
THE WORKSHOP

Mr. McNeill and Mr. Lindström both presented short overviews of the situations in Montréal and Stockholm. In Montréal, the implementation of the smart and digital city plan is high on the agenda, including getting ready for testing and implementing 5G networks. In Stockholm, the Urban ICT Arena is on the way to providing companies with a local testbed for testing products, processes and services. As many of the same technologies lie behind the respective infrastructures, companies testing in one testbed should be able to also test on the other.

Dr. Béland led the discussion in the workshop portion around the themes of transforming CETA into opportunities, business model innovation, and specifics for the EUREKA Innovation Week in April 2016.

Thanks to the previous collaboration, not least the visit and talk by Marianne Treschow to Québec and Canada politicians, the federal government in Canada now includes digital infrastructure as legitimate infrastructure investments. Furthermore, on the provincial level, Québec now has appointed a minister for digital strategy. On the industry side, Ericsson Montréal is now developing its 5G initiative, and establishing testbeds is seen as an effective way to collaborate not only with other large players but also with SMEs. Research and innovation networks currently used only by schools are being investigated as a way to increase the collaboration interfaces. In identifying cases within e.g. health, safety, intelligent transport, etc., users are engaged in the definition of important areas and their prioritization. To increase participation, 5G end-to-end network toolkits help to try out and test solutions before they are commercially available. This also helps in identifying issues that can't be solved with today's 4G solutions. In other words, government, industry, research, and citizens are working together to identify what pushes today's boundaries and come up with innovative business models and innovative communication solutions that follow the new ways things have to be done.

Montréal also took up the issue of big data and the needs for anonymization of data as applied to IoT. Canada has appointed a big data chairperson for this issue. Who owns what and who pays for what are obviously important aspects of who gets to use and exploit big data and in what way. New business models are needed here too.

We will know within a week or two which companies will be part of the Canadian delegation. All will be encouraged to sign up for the matchmaking events. As soon as the list is shared with Stockholm, we will actively contact companies we think are most relevant and encourage them to take part in the matchmaking as well. Matchmaking between companies

on different sides of the Atlantic is not easy, so the more specific we can all be about what collaboration areas interest the companies the most, the better. One company will be identified for discussions about internationalization services.

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#### WORKSHOP *Transforming CETA to opportunities:*

##### QUESTIONS

- What incentives do we need to highlight to facilitate the implementation of CETA and its advantages?
- Can there be smart cities without 5G?
- What is the best way to allow companies to access the different testbeds?
- What needs to be in place for setting up triple-helix-based collaboration? Any risks?

##### ***Business model innovation:***

- How can we address business model innovation? Are formats like a virtual hotel for new business models relevant? How can new business models be 'pilot-tested' to ensure their viability?
- How are users involved in the innovation process?
- How compatible are the Urban ICT Arena, the 5G POC network, and other testbeds discussed?
- (Not addressed: what about business models respecting the principles of a circular economy?)

##### ***Specifics for the EUREKA Innovation week in April 2016:***

- Are there any specific issues that we need to take up or plan for during the matchmaking sessions in April?
  - Do we have examples of which companies will be in the Canadian delegation in April?
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**ACTION PLAN** The main action points agreed upon during the workshop were:

##### FOR APRIL 2016

- Euan Scott will investigate the possibility of having a focused Cluster2Cluster session at the Canadian Embassy parallel to the EUREKA sessions
  - Stockholm and Montréal will have continued interaction via the Cluster2Cluster working group, including information as it becomes available on which companies are joining the Canadian delegation and coordination with the UPSIDE project.
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**USEFUL LINKS** Webinar presentations:

- [https://www.dropbox.com/sh/zonm3i141edb7ro/AADw3Dm6dJ3bBfCGxoi\\_Hnoma?dl=0](https://www.dropbox.com/sh/zonm3i141edb7ro/AADw3Dm6dJ3bBfCGxoi_Hnoma?dl=0)

EUREKA Innovation Week: Smart Cities – Sustainable & Attractive Communities, Stockholm, April 26-29 2016:

- <http://www.vinnova.se/sv/Aktuellt--publicerat/Kalendarium/2016/160426-EUREKA-Innovation-Event-2016/>

Montréal Smart and Digital City Report:

- <http://villeintelligente.montreal.ca/sites/villeintelligente.montreal.ca/files/plan-action-bvin-ce-6-mai-2015-eng.pdf>
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## APPENDIX 1 – PROGRAM OF THE HIGH CAPACITY DIGITAL SOCIETY WORKSHOP AND WEBINAR, 4 FEBRUARY 2016

(Numbering of each presentation corresponds to how the presentations are numbered in Dropbox, see Useful Links.)

- 13.30 Participants assemble in the Victoria Tower, Kista, Stockholm  
Coffee and refreshments served  
Stockholm & Montréal web-seminar link-up
- 13.55 **Welcome to the High Capacity Digital Society Seminar and Workshop**  
Marianne Treschow, chair Cluster2Cluster and senior advisor to Ericsson
- 14.00 **1. Clearing the Way – The Canada-EU Comprehensive Economic & Trade Agreement or CETA**  
A presentation by Kenneth Macartney, Canadian Ambassador to Sweden
- 14.15 **2. Open for Business & Research Cooperation**  
A presentation by Dr. Andreas Hatzigeorgiou, Chief Economist, Stockholm Chamber of Commerce
- 14.30 **3. Smart Society – Transforming Public Services and Business, Montréal’s New Digital Strategy**  
A presentation by Lidia Divry, Executive Director TechnoMontreal
- 14.45 **4. Bringing Smart Services to Home & Workplace – Open Access High Capacity Infrastructure in Greater Stockholm**  
A Presentation by Stefan Schildt, Deputy CIO, City of Stockholm
- 15.00 **Break**
- 15.15 **5. A Proposed Major Initiative in Next Generation 5G Networks**  
A Presentation by Pierre Boucher, R&D Director, Ericsson Canada
- 15.30 **6. Smart Cities Partnering Mission to London and Stockholm in April 2016**  
A Presentation by Mark Burbidge, Senior advisor International Relations EUREKA, NRC
- 15.45 **7. Digital Implementation**  
A Presentation by Anders Broberg, Communications Director, Stokab
- 16.00 **8. EUREKA – Funding for International Collaboration**  
A Presentation by Jonas Bjarne, Senior Program Manager, VINNOVA

### **CLUSTER2CLUSTER WORKSHOP (for Cluster2Cluster partners)**

- 16.15 What’s to Come in Stockholm & Montréal – 10. Jacques McNeill, Manager Green ICT, Prompt Montréal and 9. Åke Lindström, ICT Development Director, Kista Science City
- 16.25 Optimizing the industry-R&D-society interaction at the EUREKA event in April 2016 for identifying potential CETA actions and exchanges around 5G networks
- 17.15 Wrap-up and agreement on next steps
- 17.25 End of Program and shutdown of web link
- 17.30 **Mingle and networking** at the Victoria Tower, Kista. All participants welcome.  
The seminar and workshop will be moderated by Dr. Marie-Claude Béland, Bevel, Innovation and Business Development

APPENDIX 2 – SOME PHOTOS FROM THE WEBINAR AND WORKSHOP



Jacques McNeill and Åke Lindström photographed colleagues in Montréal (TechnoMontreal) and Kista (Victoria Tower).



Kenneth Macartney, Canadian Ambassador to Sweden



Dr. Andreas Hatzigeorgiou,



Anders Broberg



Jonas Bjarne



Stefan Schildt



Euan Scott



Marie-Claude Béland



Fredrik Sand

On behalf of the Cluster2Cluster working group in Stockholm, thank you to everyone who participated and made this a successful webinar and workshop.

***The Cluster2Cluster working group in Stockholm:***

- Marianne Treschow, chair, principal consultant for Ericsson
- Euan Scott, Canadian Embassy to Sweden
- Åke Lindström, Kista Science City
- Fredrik Sand, Stockholm Chamber of Commerce
- Hans Siljebäck, Human Kind
- Marie-Claude Béland, Bevel

