

Organized by:



CITY OF STOCKHOLM SMART NATION DELEGATION

SINGAPORE, 4-5 APRIL 2016



EMBASSY OF SWEDEN

Singapore

PRELIMINARY PROGRAMME

AGENDA

MONDAY APRIL 4, 2016

08:30-9:30 Opening remarks by Business Sweden

Opening remarks including presentation of Business Sweden's Smart Nation Study

- ▶ *Mr. Emil Akander, Trade Commissioner, Business Sweden*
- ▶ *Venue: Business Sweden*

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10:30-11:30 Opening speech by Smart Nation Program Office and City of Stockholm

The opening speech will set the tone of the event and cement the cooperation between Sweden and Singapore in the areas of smart urban solutions, policy best practice exchanges

▶ *Suggested Speakers:*

- Minister Vivian Balakrishnan, Minister-in-charge of Smart Nation
- Mr. Tan Kok Yam, Head, Smart Nation Programme Office
- Mr. Steve Leonard, Deputy Executive Chairman, Infocomm Development Authority
- H.E. Mr. Håkan Jevrell, Ambassador of Sweden to Singapore
- Mr. Emil Akander, Trade Commissioner of Sweden to Singapore
- Mr. Gunnar Söderholm, Director, Environment and Health Administration, City of Stockholm
- Mrs. Ann Hellenius, CIO, City of Stockholm
- Mr. Stefan Carlson, CTO, City of Stockholm
- Mr. Staffan Ingvarsson, CEO, Stokab

▶ *Back-seats:*

- Mrs. Maria Mannerholm, CEO Micasa
- Mr. Ramon Wyss, Vice President (International Education), KTH Royal Institute of Technology
- Ms. Olga Kordas, Director Energy Platform, KTH Royal Institute of Technology
- 4 persons from Embassy of Sweden and Business Sweden
- ~10 persons from the private sector e.g.
 - ABB, Ericsson, SAAB, Scania, Volvo Bus, Axis, Plantagon, Camfil, Envac, Blueair, Telenor Connexion, Kapsch, Kry, Telia Health Care, Caretech

▶ *Topics:*

- Singapore's Smart Nation Initiative - Harnessing technology to the fullest with the aim of improving the lives of citizens, creating more opportunities, and building stronger communities
- Stockholm and Digitalisation – vision and strategy – Mrs. Ann Hellenius, CIO, City of Stockholm
- Stockholm as a Smart and Connected City – vision and strategy, Mr. Stefan Carlson, City of Stockholm

▶ *Venue: Smart Nation Programme Office/Infocomm Development Authority*

11:30-12:30 Executive Round Table “Distilling best practices in implementing smart urban solutions”

During this session, the keys to bridge where we are today and the vision of the future as outlined in the previous session will be debated

▶ Suggested Speakers:

- Mr. Tan Kok Yam, Head, Smart Nation Programme Office
- Mr. Steve Leonard, Deputy Executive Chairman, Infocomm Development Authority
- H.E. Mr. Håkan Jevrell, Ambassador of Sweden to Singapore
- Mr. Emil Akander, Trade Commissioner of Sweden to Singapore
- Mr. Gunnar Söderholm, Director, Environment and Health Administration, City of Stockholm
- Mrs. Ann Hellenius, CIO, City of Stockholm
- Mr. Stefan Carlson, CTO, City of Stockholm
- Mr. Staffan Ingvarsson, CEO, Stokab
- Mrs. Maria Mannerholm, CEO Micasa
- Mr. Ramon Wyss, Vice President (International Education), KTH Royal Institute of Technology
- Ms. Olga Kordas, Director Energy Platform, KTH Royal Institute of Technology
- Representative from Ericsson

▶ *Back-seats:*

- 4 persons from Embassy of Sweden and Business Sweden
- ~10 persons from the private sector e.g.
 - ABB, SAAB, Scania, Volvo Bus, Axis, Plantagon, Camfil, Envac, Blueair, Telenor Connexion, Kapsch, Kry, Telia Health Care, Caretech

▶ Topics:

- Building IoT-platforms for a Smart Nation: technology solutions and choices. How to ensure and provide connection of units and sensors. How to collect real time data from sensors nationwide. How to anonymise and share data in real time – “Collect, Connect and Comprehend”
- Big Data and Analytics
- E-governance: high speed internet connection in public spaces. How to combine fiber and wireless technologies. How to provide and eco-system of e-government services

▶ *Venue: Smart Nation Programme Office and Infocomm Development Authority*



12.30-14:00 Networking Lunch hosted by Business Sweden

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14:00-16:30 Workshop Session: Ageing Technologies

This workshop session will give the Swedish Delegation focused to Healthcare an opportunity to present their solutions and the Singaporean stakeholders to gain inspiration and insights into ideas that can be adapted for the Smart Nation Initiative. These sessions provide an opportunity for in-depth discussions where academia, private sector and governmental stakeholders elaborate on one specific area.

▶ *Venue: Ministry of Health Holdings*

▶ Suggested Speakers:

- Ministry of Health
- Ministry of Health Holdings
- Ministry of Social and Family Development
- Agency for Integrated Care
- Integrated Health Information Systems
- Health Care Clusters
- Individual Hospitals
- National University of Singapore
- Ms. Maria Mannerholm, CEO Micasa
- Mr. Gunnar Söderholm, Director, Environment and Health Administration, City of Stockholm
- Mrs. Ann Hellenius, CIO, City of Stockholm
- Mr. Stefan Carlson, CTO, City of Stockholm
- Mr. Staffan Ingvarsson, CEO, Stokab
- Mr. Ramon Wyss, Vice President (International Education), KTH Royal Institute of Technology
- Ms. Olga Kordas, Director Energy Platform, KTH Royal Institute of Technology
- Professor Theo Kanter, Professor of Computer Science (SALIG Project)
- Representatives from Kry, Telia Health Care and Caretech
- Embassy of Sweden and Business Sweden

Track 1 – Activity outline

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| 30 minutes | Overview of the ageing initiatives in Singapore |
| 30 minutes | “Enabling aging in place – the Swedish experience in implementing elderly care at home” by Ms. Maria Mannerholm, CEO Micasa |
| 15 minutes | “An interchangeable operating system leveraging an IoT platform for monitoring devices” by Professor Theo Kanter, Stockholm University |
| 15 minutes | Journey of “KRY: Tele Health solution” |
| 15 minutes | Panel discussion “What does it take to leverage on smart solutions to address the Silver Tsunami” Panelist of key opinion leaders from National University Hospital |
| | Tour of a public healthcare facility in Singapore include a telehealth demonstrator and elderly care solution |

18:00-21:00 Official reception hosted by the Swedish Ambassador to Singapore

▶ *Venue: The Swedish Residence, 39 Andrew Road*

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EMBASSY OF SWEDEN

Singapore

PRELIMINARY PROGRAMME

AGENDA

TUESDAY APRIL 5, 2016

09:00-11:30 Workshop Session: Smart Urban Transport and Safe Cities

This workshop session will give the Swedish Delegation focused on Transport and Safety and Security an opportunity to present their solutions and the Singaporean stakeholders to gain inspiration and insights into ideas that can be adapted for the Smart Nation Initiative. These sessions provide an opportunity for in-depth discussions where academia, private sector and governmental stakeholders elaborate on one specific area.

- ▶ *Venue: Ministry of Transport*
- ▶ Suggested Speakers:
 - Ministry of Transport
 - Land Transport Authority
 - Mr. Gunnar Söderholm, Director, Environment and Health Administration, City of Stockholm
 - Ms. Ann Hellenius, CIO, City of Stockholm
 - Mr. Stefan Carlson, CTO, City of Stockholm
 - Mr. Staffan Ingvarsson, CEO, Stokab
 - Mr. Ramon Wyss, Vice President (International Education), KTH Royal Institute of Technology
 - Ms. Olga Kordas, Director Energy Platform, KTH Royal Institute of Technology
 - Representatives from ABB, Volvo Bus, Scania, Ericsson, SAAB, *Kapsch (preliminary)*
 - Embassy of Sweden and Business Sweden

Track 2 – Activity outline

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|------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 30 minutes | Overview of the Transport Initiatives in Singapore |
| 30 minutes | Urban Transport – Open Stockholm – Past and Future implementations within transport by Gunnar Söderholm, Director Environment and Health Administrator (former |
| 15 minutes | “The possibilities of multitude threats and creating a safe city” by SAAB and Ericsson |
| 15 minutes | “Defying the challenges of implementing visual analytics on a large scale” by Axis |
| 15 minutes | “Electric hybrid buses and full-electric buses to meet commuter demands of tomorrow” by Volvo Bus and ABB |
| 15 minutes | “Smart and Connected Vehicles – how to create a roadmap for autonomous vehicles” by Ericsson, Volvo Bus and Scania |

12.00-13:30 Networking Lunch hosted by Business Sweden

Venue: To be provided

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13:30-16:00 Workshop session: Energy and Green Building *including possible site visit*

The workshop session will give the Swedish Delegation focused Energy and Green Building an opportunity to present their solutions and the Singaporean stakeholders to gain inspiration and insights into ideas that can be adapted for the Smart Nation Initiative. These sessions provide an opportunity for in-depth discussions where academia, private sector and governmental stakeholders elaborate on one specific area.

▶ *Venue: Ministry of the Environment and Water Resources*

▶ Suggested Speakers:

- Ministry of the Environment and Water Resources
- National Environment Agency
- Ministry of National Development
- Building and Construction Authority
- Energy Market Authority
- Mr. Gunnar Söderholm, Director, Environment and Health Administration, City of Stockholm
- Ms. Ann Hellenius, CIO, City of Stockholm
- Mr. Stefan Carlson, CTO, City of Stockholm
- Mr. Staffan Ingvarsson, CEO, Stokab
- Mr. Ramon Wyss, Vice President (International Education), KTH Royal Institute of Technology
- Ms. Olga Kordas, Director Energy Platform, KTH Royal Institute of Technology
- Representatives from ABB, Ericsson, Camfil, Blueair, Envac, *Plantagon (preliminary)*
- Embassy of Sweden and Business Sweden

Track 3 – Activity outline

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|------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 30 minutes | Overview of the Energy and Green Building initiatives in Singapore |
| 30 minutes | “Why urban landscapes and sustainability is the only way forward” by Mr. Gunnar Söderholm, Director, Environment and Health Administration, City of Stockholm |
| 15 minutes | “Automised waste collection systems from Stockholm to Singapore’s HDB’s” by Envac |
| 15 minutes | “Smart Grid” – one of the world’s most modern electricity grids as a case study for an energy efficient way forward” by ABB and Ericsson |
| 15 minutes | “Haze health hazards and how to secure a breath of fresh indoor air” by Camfil and Blueair |

Singapore, 29 February 2016

SINGAPORE



EMBASSY OF SWEDEN

Visit to Singapore by the City of Stockholm
April 4-5 2016

The Chief Information Officer of the City of Stockholm will be leading a delegation to visit Singapore during the 4th -5th of April. The purpose of the visit is to further enforce and develop the relationship between Singapore and Sweden, specifically in regards to the subject of Smart Cities.

Stockholm, with its 900,000 inhabitants, is the largest municipality in Sweden. The City Council is the supreme decision-making body of the City of Stockholm. The City Council provides the inhabitants of Stockholm with a multitude of different municipal services. Most of the municipal activities in Stockholm are carried out in administrative or corporate form. The delegation consists of representatives from the executive office of the City as well as representatives from administrations and companies owned by the City.

The City of Stockholm has in its Vision for 2040 set out the ambition to become the smartest city of the world. Therefore the management of the city is currently forming a strategy to reach this ambition.

A delegation will travel abroad to visit a few selected cities and countries to learn and share best practices for smart, sustainable and connected cities. Singapore is the first country for such a visit.

During the course of the visit in Singapore, the delegation would like to meet with Minister Vivian Balakrishnan, Minister-in-charge of Smart Nation. The delegation would also like to conduct roundtable discussions inviting the Smart Nation Program Office and the Infocomm Development Authority. Furthermore, when forming the strategy for Stockholm as a smart city various areas are of interest. Therefore the opportunity to meet with ministries and statutory boards to discuss topics such as ageing, urban transportation, energy

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and green building would be of great interest to the delegation. Lastly, the delegation would like to meet with Swedish business representatives based in the region as it offers an opportunity to learn more about how Sweden and Singapore may work together to increase future trade relations.

Areas of interest:

- The work in Singapore on the Smart Nation Initiative
- Building an IoT platform for a Smart City
- Big data and analytics
- E-governance and connectivity
- Learn more about initiatives connected to ageing, urban transport and energy as well as green building within the Smart Nation Initiative

Representatives from City of Stockholm visiting Singapore



Ann Hellenius
Chief Information Officer
(Head of Delegation)

Ann Hellenius, Chief Information Officer in the City of Stockholm, leads the digital development of the city. She has held various senior leadership roles within the City of Stockholm, including responsibility for the digitization of the public schools. Prior to her work in the city she has worked 15 years as a management consultant and as a CEO for a consulting company. This has given experiences in working with digitization opportunities both in the private and public sector. Ann is also a member of the board for e-gov lab.



Gunnar Söderholm
Director Environment and Public Health
Former Deputy Chief Executive of City of Stockholm

Gunnar Söderholm is since 1 Dec 2006 the head of the Environment and Health Administration in the City of Stockholm. Gunnar started working in the city in 1989 and has held various titles and roles throughout the years. His past experiences include Head of the Public Trustee Committee, Director for the Housing Agency and the Deputy Chief Executive of the City of Stockholm. Gunnar has been responsible for a

congestion change project, housing and the ICT development of the city.



Stefan Carlson
Chief Technology Officer

Stefan is the Chief Technology Officer in the City of Stockholm and the Head of IT-development and administration at the Department for Digitization. His experiences include the responsibility for management and development of the overall IT-infrastructure of the city, which covers over 40 000 employees and 80 000 student, as well as platforms and e-services for the citizens. Stefan has worked with ICT-related subjects in the city for almost 20 years, and is currently, besides his role as Chief Technology Officer, the project manager of the project that will form a strategy to make Stockholm the smartest city in the world.



Staffan Ingvarsson
CEO Stokab
Former Deputy Chief Executive of City of Stockholm

Stokab is owned by the Stockholm City Council, and is an independent company that provides passive infrastructure in the form of optical fibers. The objective of the company is to build a competition-neutral infrastructure capable of meeting future communication needs, spur economic activity, diversity and freedom of choice, as well as minimizing disruption to the city's streets.



Maria Mannerholm
CEO Micasa