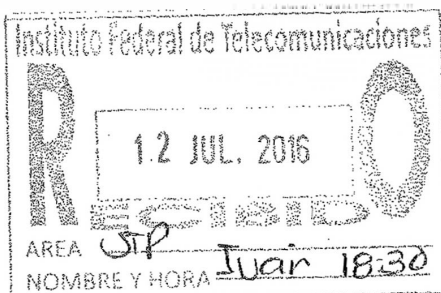




INSTITUTO FEDERAL DE  
TELECOMUNICACIONES



OFICINA DEL COMISIONADO MARIO GERMÁN FROMOW RANGEL  
IFT/100/Pleno/OC-MGFR/016/2016

Ciudad de México, a 12 de julio de 2016

**PLENO DEL INSTITUTO FEDERAL DE TELECOMUNICACIONES  
P R E S E N T E**

Me permito presentar el informe de mi participación en representación del Instituto en calidad de panelista en la Reunión Anual de Reguladores "Broadband for all, a basic human need in a global economy", que se llevó a cabo del 26 al 28 de junio de 2016 en Estocolmo, Suecia.

La Reunión Anual de Reguladores es un foro de alto nivel organizado por Ericsson en colaboración con la Autoridad Postal y de Telecomunicaciones (PTS) de Suecia que reúne a autoridades regulatorias y de política pública, así como expertos técnicos en materia de telecomunicaciones con la finalidad de compartir información respecto a iniciativas y experiencias de políticas públicas y regulación para aumentar la adopción de los servicios de Banda Ancha. Este año el evento contó con la presencia de más de 100 funcionarios de 56 organismos de diversos países.

A petición expresa de los organizadores, el suscrito participó en el panel "In light of a seemingly early worldwide introduction of 5G and great benefits to our societies – is there a pragmatic way forward for 5G spectrum allocation?", en el cual expuse los resultados a 3 años de la Reforma Constitucional en México, la participación del IFT en el proceso hacia la Conferencia Mundial de Radiocomunicaciones 2019 de la UIT, las posibles bandas de espectro susceptibles de ser utilizadas para el despliegue de 5G y una perspectiva de implementación masiva de Internet de las Cosas (IoT) en México. Se anexa el programa del evento.

Asimismo, se realizó una reunión bilateral de alto nivel con el Comisionado Michael O'Rielly de la Federal Communications Commission (FCC), en la que se trataron entre otros temas, Decisión de la FCC respecto a la Neutralidad de la red, Reorganización de la banda de 800 MHz en la Frontera Común México-EUA, Licitaciones incentivadas para



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despejar la banda de 600 MHz en EUA y Licitaciones de espectro radioeléctrico para servicios de radiodifusión en México.

Se asistió a una presentación técnica realizada por Ericsson respecto a las tendencias del empleo de las TIC en los sectores automotriz y transporte, así como estandarización e investigación de tecnologías 5G.

Cabe señalar que durante la interacción con diversos asistentes a esta reunión se tuvo la oportunidad de destacar los beneficios de la Reforma Constitucional de 2013 en materia de Telecomunicaciones y Radiodifusión y de la Ley Federal de Telecomunicaciones y Radiodifusión, así como los avances más relevantes en su implementación.

Finalmente, con la participación en este evento se cumplió con el propósito de generar vías de cooperación o áreas de influencia conjunta sobre temas en el ámbito de competencia del Instituto.

Atentamente

**Mario German Fromow Rangel**  
Comisionado

# Broadband for all

- a basic human need in a global economy



## Seminar

June 27-28, 2016  
Stockholm

## Location

Royal Swedish  
Academy of  
Engineering  
Sciences (IVA)  
Grev Turegatan 16  
Stockholm

- In light of a seemingly early worldwide introduction of 5G and great benefits to our societies – is there a pragmatic way forward for 5G spectrum allocation?
- How can government policy best support the diffusion of new Internet of Things enabled innovations across all sectors in society?
- What is the role of government in creating growth in the era of Intelligent Transportation Systems, ITS?
- In 2015, the seminar gathered 88 Government & Regulator representatives from 25 countries on all continents.

With contributions from the following speakers



**PTS**

Catarina Wretman  
Director General,  
PTS, Sweden



**FCC**

Michael O'Rielly  
Commissioner  
FCC, United States



Anne Berner  
Minister of Transport  
and Communications  
Finland



**ERICSSON**

Ulf Ewaldsson  
SVP & Group CTO  
Ericsson

# Seminar – Morning session

Monday June 27, 2016

08:00 - 08:30

Registration and morning tea - networking

08:30 - 10:00

Welcome and introduction

- Anders Lindblad, Senior Vice-President & Head of Business Unit Cloud & IP, Ericsson
- Ulf Pehrsson, Vice-President Government & Industry Relations, Ericsson

Keynote: Perspectives from United States

- Commissioner Michael O'Rielly, FCC, United States

Keynote: Technologies for the Networked Society

- Ulf Ewaldsson, Senior Vice-President & Group CTO, Ericsson

10:00 - 10:30

Coffee break - networking

10:30 - 11:00

Keynote: The role of government in creating growth in the era of Intelligent Transportation Systems, ITS

- Minister Anne Berner, Ministry of Transport and Communications, Finland

11:00 - 12:00

Panel debate: How can government policy best support the diffusion of new Internet of Things enabled innovations across all sectors in society?

Chair: Cecilia Qvist, Business Development Director, Region Northern Europe & Central Asia, Ericsson

- Minister Anne Berner, Ministry of Transport and Communications, Finland
- Pierre Guislain, Senior Director, Transport & ICT Global Practice, World Bank
- LEONG Keng Thai, Deputy Chief Executive, IDA, Singapore
- Eric Dagenais, Assistant Deputy Minister, Innovation, Science and Economic Development, Canada

12:00 - 13:30

Lunch - networking

# Seminar – Afternoon session

Monday June 27, 2016

13:30 - 15:30

## Broadband for all in Sweden

- Catarina Wretman, Director-General, PTS, Sweden

## Broadband for all and ICT transformation in Africa - facilitated by Smart Africa

- Didier Nkurikiyimfura, Head of Technology and Innovation, Smart Africa secretariate, Smart Africa Alliance

## Broadband for all in India

- Anil Kaushal, Member, TRAI, India

## Why do nations need a national Internet of Things strategy?

- Daniel Castro, Director of the Center for Data Innovation and VP of the Information Technology and Innovation Foundation, United States

15:30 - 16:00

## Coffee break - networking

16:00 - 17:00

## Panel debate: In light of a seemingly early worldwide introduction of 5G and great benefits to our societies – is there a pragmatic way forward for 5G spectrum allocation?

Chair: Lasse Wieweg, Director, Government & Industry Relations, Ericsson

- Philip Marnick, Group Director, Spectrum, Ofcom, United Kingdom
- Bernard Celli, Head of strategy, ANFR, France
- Chaucer Leung, Deputy Director-General, OFCA, Hong-Kong
- Commissioner Mario Fromow, IFT, Mexico
- Derek Khlopin, Senior Advisor for Spectrum, NTIA, United States

17:00 – 17:10

## Concluding remarks

18:45 – 21:30

Networking dinner at the Wasa museum, Galärvarvsvägen 14. Doors open at 18:45. Welcome at 19:00 sharp.

# Technology briefing

Tuesday June 28, 2016

**Ericsson**

Ericsson Studio  
Grönlandsgatan 8  
Kista, Stockholm

Room:  
Forum

09:00 - 12:00

There is little question that technology has a proven potential to fundamentally transform how we organize our lives, businesses and societies. But only recently have some of the most powerful technologies ever created become intensely personal and available to everyone – they are now embedded not just into our mobile devices and cloud software, but into our everyday expressions, interactions, relationships and exchanges. The result is an unprecedented capacity for individual empowerment, entrepreneurship and innovation as well as a vehicle for entire industries to transform, that gives rise to a new era - The Networked Society.

This transformation will put new demands on the networks, with requirements varying radically between different use cases but also between different devices. The future mobile networks – 5G systems – need to provide global, wireless, connectivity with superior performance both for communicating people and machines, with capabilities to handle very large data rates and data volumes, while being very reliable to allow for critical industrial and societal applications. The 5G systems also need to accommodate for devices with limited capabilities where device cost, power consumption or coverage (range) are among the key properties.

This briefing will address some of the key ICT trends and technology issues important to the continued deployment of affordable and high-capacity mobile broadband services. The transport & vehicle sectors will be discussed as examples of an ongoing transformation towards a networked society.

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| 08:30 - 09:00 | Registration and morning tea   |
| 09:00 - 09:10 | Welcome and introduction<br>- Mikael Halén, Director, Government & Industry Relations, Ericsson  |
| 09:10 - 10:00 | ICT trends in the transport & vehicle sectors<br>- Olle Isaksson, Head of Strategy, Industry & Society, Ericsson   |
| 10:00 - 10:15 | Coffee break and networking  |
| 10:15 - 10:55 | 5G technology research & standardization<br>- Dr Sara Mazur, VP & Head of Ericsson Research, Ericsson  |
| 10:55 - 12:00 | Technology demonstrations<br>- 5G – Live Test Bed<br>- Connected traffic cloud<br>- Massive IoT<br>- Analytics<br>- Mobility Report, City Index, Sustainability and Consumer lab |
| 12:00 - 13:00 | Lunch is served at the Ericsson Studio   |

Chatham House Rule

# PTS Spectrum seminar

Tuesday June 28, 2016

**Ericsson**

Ericsson Studio  
Grönlandsgatan 8  
Kista, Stockholm

Room:  
Forum

13:00 - 14:30

Sweden is one of the leading countries when it comes to progressive spectrum management. The Swedish market is in many regards unique even though it shares many regulatory challenges with the rest of the world.

In a seminar arranged by PTS, the national regulator responsible for spectrum management, some of the current issues and challenges that regulators are facing in Sweden and in the EU will be highlighted, such as:

- How to assess spectrum related aspects of 5G in the long term
- Consideration of aspects related to system architecture in general and in relation to the variety of services expected
- Identification of spectrum related challenges such as spectrum sharing, usage and licensing
- Identification of appropriate frequency bands for 5G

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| 13:00 - 13:30 | Bo Andersson, Chief Economist, Swedish Post and Telecom Authority, PTS                     |
| 13:30 - 14:00 | Ylva Mälarstig, Head of Spectrum Analysis Section, Swedish Post and Telecom Authority, PTS |
| 14:00 - 14:30 | Q&A and discussion   |