



Daniel Kofman

Professor at Telecom ParisTech, Director of LINCS, France

ICT, a major innovation driver for vertical industries

Abstract

This overview talk will focus on the Internet of Things (IoT) paradigm and the opportunities it raises in several vertical industries, presenting examples in eHealth, Smart Grid, Agriculture and Industry 4.0. The role of Big Data in future IoT based solutions will be presented. An overall architectural view will be described, highlighting the benefits of virtualization. Major challenges both from technical and business points of view will be commented. The talk concludes presenting perspectives on the profound markets' transformations present ICT technological trends will induce.

Biographical Sketch

Prof. Daniel Kofman is currently the Director of the LINCS, a joint academia-industry research center he co-founded in 2011, focused on Future Communication and Information Networks, Systems and Services.

Daniel Kofman received a B.A. degree in Electrical Engineering from Universidad de la Republica – Uruguay, his Ph.D. degree from Ecole Nationale Supérieure des Télécommunications (ENST) -France and his “Habilitation à Diriger des Recherches” from Université Pierre et Marie Curie (UMPC) - France.

He is currently Professor at Telecom ParisTech.

Since 2003 he is member of Scientific Committee of the French Parliament (OPECST-Assemblée Nationale).

In 2003 he co-founded a European Network of Excellence on « Future Internet and Communication Networks » (Euro-NGI followed by Euro-NF). Daniel has been the Chairman of the Board and the Scientific Coordinator.

Daniel has been CTO of RAD Data Communications from 2006 to 2011 and is since then Fellow-Strategic Advisor. He is also Advisor for several companies (Telecom operators, Manufacturers, Capital ventures).

In 1999 he co-founded a start-up and he has contributed with 2 other start-ups.

Since 1995 Daniel has contributed as Expert for various national and international institutions; he recently co-authored a report for the CGST (Commissariat Général à la

Stratégie et la Prospective-France) on Internet Horizon 2030, he contributed in initiatives and experts' committees at the European Commission, he has been the President of the Experts Committee of the ANR (French National Research Agency) division in charge of Future Networks and Services and is today member of the Steering Board.

His present research interests are related with the evolution of ICT and their impact in vertical industries, including topics like the Internet of Things, future network-cloud-services virtualized infrastructures and future network architectures for the 5G. He has devoted special focus to ICT solutions for smart grids and in particular he has been the Director of Seido-Lab, a joint research lab co-founded by EDF and Telecom ParisTech, which he contributed to create.

Daniel authored two books, several vision and positioning documents for industry and public organizations, as well as several scientific papers.