



Lund Revisited

Tackling Societal Challenges

DECEMBER 3–4, 2015 | LUND, SWEDEN

THURSDAY DECEMBER 3
SPECIAL PRE-CONFERENCE EVENT
VENUE MAX IV LABORATORY / GRAND HOTEL

13.00 MAX IV Laboratory	REGISTRATION Conference hall Coffee and tea will be served
14.30	INTRODUCTION Speakers: Director Christoph Quitmann, MAX IV Laboratory Director-General, James H. Yeck, ESS Mats Leifland, CEO, Medicon Village Director-General Sven Stafström, Swedish Research Council
	EXCURSIONS Visits to ESS, Max IV Laboratory and Medicon Village. Transport by bus
18.30–19.00 Grand Hotel	DRINKS AND REFRESHMENTS The event is hosted by Lennart Prytz, Mayor of the City of Lund
19.00 Grand Hotel	WELCOME DINNER Welcome address by Torbjörn von Schantz, Vice-Chancellor Lund University and Helene Hellmark Knutsson, Swedish Minister for Higher Education and Research

Programme

FRIDAY DECEMBER 4 VENUE LUND UNIVERSITY

Moderator for the event is **Quentin Cooper**, science journalist and facilitator

08.00–09.00 <i>Palaestra</i>	REGISTRATION AND COFFEE Paradisgatan 4, Lund (Entrance from Universitetsplatsen)
09.00–10.30	WELCOME ADDRESS <i>The role of higher education, research and innovation for addressing the societal challenges of our time</i> Helene Hellmark Knutsson , Swedish Minister for Higher Education and Research
	OPENING ADDRESS <i>European research and innovation for global challenges</i> Carlos Moedas , European Commissioner for Research, Science and Innovation
	KEYNOTE ADDRESS <i>Aligned imaginations: A grand challenge for science in society</i> Prof. Sheila Jasanoff , John F. Kennedy School of Government at Harvard University
10.30–11.00	COFFEE BREAK

11.00–12.15

ALIGNMENT OF RESEARCH AND INNOVATION
AGENDAS

INTRODUCTION

David Wilson, Co-Chair, European Research Area Committee (ERAC)

SHOWCASE: JPI ANTIMICROBIAL RESISTANCE

A global research initiative aimed at tackling the challenge of anti-microbial resistance in Europe and beyond

Dr. Ghada Zoubiane, Programme Manager for Antimicrobial Resistance at Medical Research Council (UK) Deputy Chair, JPIAMR

SHOWCASE: JPI OCEANS

A strategic platform, aiming at a long-term integrated approach to marine and maritime research and technology development in Europe

Dr. Kathrine Angell-Hansen, Research Council of Norway; Head of secretariat, JPI Oceans

SHOWCASE: THE SET PLAN

EU cooperation for the development of energy technologies

Dr. Piotr Swiatek, Joint Action Working Group of the SET-Plan SG

CONCLUDING REMARKS

Rapporteur Dr. Christian Naczinsky, Austrian Federal Ministry of Science, Research and Economy

WAYS TO ACHIEVE ALIGNMENT

Panel discussion

Prof. Fulvio Esposito, Chair, GPC

Prof. Juan Tomás Hernani, Chair of European Commission Expert Group
“Evaluation of Joint Programming”

Dr. Patrick Monfray, Research director, CNRS

Evelina Santa-Kahle, Deputy Head of Unit, Bundesministerium für Bildung und Forschung

Prof. Mats Ulfendahl, Chair, MB JPIAMR

David Wilson, Co-Chair, ERAC

12.15–13.30

LUNCH

13.30–15.15

SOCIETAL CHALLENGES AS A DRIVER IN RESEARCH
AND INNOVATION

THE IMPACT OF THE 2009 LUND DECLARATION

On Horizon 2020 and the response to societal challenges

Joerg Niehoff, Head of Sector Joint Programming, European Commission,
DG Research & Innovation

SHOWCASE: EMPOWER

A project addressing the Horizon 2020 Transport Challenge with the aim to substantially reduce the use of conventionally-fuelled vehicles (CFV)
 Prof. **Susan Grant-Muller**, Consortium Team Leader, University of Leeds

SHOWCASE: A CHANGED ARENA FOR SOCIETAL CHALLENGES

A Europe-wide demographic database for tackling societal challenges
Karen Andersen-Ranberg, Associate Professor, University of Southern Denmark

SHOWCASE: THE SWEDISH CHALLENGE-DRIVEN STRATEGY FOR INNOVATION

An illustration of a national funding agency's shift from traditional research and innovation funding towards a challenge-driven strategy
Dr. Charlotte Brogren, Director-General, Swedish Innovation Agency VINNOVA

CONCLUDING REMARKS

Rapporteur **Dr. Christian Naczinsky**, Austrian Federal Ministry of Science, Research and Economy

DID WE GET IT RIGHT? – STAKEHOLDER PERSPECTIVES ON THE CHALLENGE APPROACH***Panel discussion***

Dr. Lidia Borrell-Damián, Director Research and Innovation, EUA
Prof. Luke Georghiou, Vice-President Research and Innovation, University of Manchester
Maria Khorsand, President, EARTO
Michael Matlosz, President of Science Europe
Dr. Christian Naczinsky, Austrian Federal Ministry of Science, Research and Economy
Dr. Jan-Eric Sundgren, Chair, WG for Research and Innovation, Business Europe

SHORT BREAK

15.30–16.30

NEXT STEPS IN TACKLING SOCIETAL CHALLENGES**LUND DECLARATION 2015**

Presentation of the 2015 Lund Revisited Declaration
Sven Stafström, Director-General of the Swedish Research Council

Panel discussion

Robert-Jan Smits, Director-General, DG Research and Innovation, European Commission
Mauro Dell'Ambrogio, State Secretary, Swiss State Secretariat for Education, Research and Innovation
Agnete Gersing, Permanent Secretary in the Danish Ministry of Higher Education and Science
Bjørn Haugstad, State Secretary to the Norwegian Minister of Education and Research
Anders Lönn, State Secretary to the Swedish Minister for Higher Education and Research

16.45

Atrium

RECEPTION

Speakers



ASSOCIATE PROF. KAREN ANDERSEN-RANBERG

Associate MB, The Survey of Health, Ageing and Retirement in Europe (SHARE); Associate Professor, Ageing Research Centre, University of Southern Denmark (SDU). Karen Andersen-Ranberg is a trained geriatrician with a research focus on the epidemiology of ageing. Since 2002, she has been engaged in the SHARE survey as Health Area Coordinator, and she is the Director of the SHARE Biobank located at SDU.



DR. KATHRINE ANGELL-HANSEN

Director, JPI Oceans Secretariat. Dr. Angell-Hansen, is Director of the Research Council of Norway, Director of the JPI Oceans Secretariat and a Project Coordinator of the CSA Oceans project. She was a Deputy Director-General for Research in the Norwegian Ministry of Fisheries and Coastal Affairs. Prior to her present position she was seconded to DG MARE in the development of the EU maritime policy.



DR. LIDIA BORRELL-DAMIAN

Director of Research and Innovation, European University Association (EUA), with overall responsibilities for the EUA's work on supporting and enhancing the role of universities in research and innovation at the European level. Since joining the EUA in 2006 Dr. Borrell-Damian has developed project and policy work in R&I areas including university-business research collaboration, doctoral education, and regional innovation. She has a doctorate in chemistry from the University of Barcelona.



DR. CHARLOTTE BROGREN

Director-General, Swedish Governmental Agency for Innovation System, VINNOVA. Before joining VINNOVA, Dr. Brogren worked for ABB, the global electrical company, in various management positions within research and development. She has a PhD in Chemical Engineering from the University of Lund and is a member of several Swedish research foundations.



MR. QUENTIN COOPER

Moderator. Mr. Cooper is an award-winning science journalist who has worked for BBC Radio for many years. He is also an advisor to national and international science organisations and festivals, and has hosted events and conferences in over 60 countries. Mr. Cooper studied Psychology and Artificial Intelligence at Edinburgh University.



MR. MAURO DELL'AMBROGIO

Swiss State Secretary, State Secretariat for Education, Research and Innovation (SERI). Mauro Dell'Ambrogio, Doctor in Law, held a number of public offices in canton Ticino from 1979 to 1999: Judge, Chief of the Cantonal Police, Secretary-General for Education and Culture, project manager for the creation of the University of Lugano (USI) and Secretary-General of the USI. He has also been Director of the University of Applied Sciences of Southern Switzerland.

**PROF. FULVIO ESPOSITO**

Chair of the High level group on Joint Programming of European Research (GPC). Since 2014 Prof. Esposito has also represented Italy in the European Research Area Committee (ERAC). A full professor of parasitology at Camerino University (UNICAM), he is an expert on malaria and has a longstanding collaboration with WHO. He is also an expert advisor to the European Commission's DG for Research and Innovation.

**PROF. LUKE GEORGHIOU**

Vice-President for Research and Innovation at the University of Manchester; Professor of Science and Technology Policy and Management at Manchester Business School. Prof. Georghiou has chaired several international panels examining research and innovation issues, including the ERA Rationales High Level Expert Group, which proposed the grand challenges approach for Europe.

**MS. AGNETE GERSING**

Permanent Secretary at the Danish Ministry of Higher Education and Science. Prior to that Agnete Gersing has held several positions such as Director-General of the Danish Competition and Consumer Authority, Deputy Permanent Secretary of State at the Prime Minister's Office and Deputy Permanent Secretary at the Ministry of Finance. She holds a Master's degree in economics from the University of Copenhagen.

**DR. SUSAN GRANT-MULLER**

Consortium Team Leader EMPOWER, Co-Investigator to the Consumer Data Research Centre and Professor of Technologies & Informatics University of Leeds. A statistician by discipline, Prof. Grant-Muller is internationally recognised for her research at the multidisciplinary interface between digital technologies and transport under a low-carbon energy future.

**MR. BJØRN HAUGSTAD**

State Secretary, Norwegian Ministry of Education and Research. Mr. Haugstad holds a doctorate from Oxford University, with a thesis on strategy realization in knowledge-intensive organizations. He also holds an engineering degree in Industrial Economics, and a Bachelor in Economics from the Norwegian University of Science and Technology. Mr. Haugstad was research director at the University of Oslo from 2009 until 2013, and most recently served in the Director General of the Ministry of Petroleum and Energy. Prior to that, Mr. Haugstad was State Secretary in the Ministry of Education and Research from 2001 to 2005, under the Bondevik government.

**MS. HELENE HELLMARK KNUTSSON**

Swedish Minister for Higher Education and Research, Sweden. Prior to this post, Ms. Hellmark Knutsson served as County Council Commissioner and group leader of the Swedish Social Democratic Party in the Stockholm County Council.



PROF. JUAN TOMÁS HERNANI

Chairman of the JPI Evaluation Task Force. Founder and CEO of SATLANTIS, a micro satellites company. Prof. Hernani was Secretary General for the European Spallation Source in Lund and the former Vice-Minister for innovation and president of CDTI, the Spanish Innovation Agency. He is a board member of EGILE aerospace and president of Modalia.com. He is also professor of Innovation, with a degree in Energy Engineering, and a Msc in Advanced Manufacturing and Economics.



PROF. SHEILA JASANOFF

*Pforzheimer Professor of Science and Technology Studies at the Harvard Kennedy School. A pioneer in her field, Prof. Jasanoff focuses her research focuses on the role of science and technology in the law, the politics, and the policies of modern democracies, with particular attention to the nature of public reason. Her books include *The Fifth Branch*, *Science at the Bar*, and *Designs on Nature*.*



MS. MARIA KHORSAND

President European Association of Research and Technology Organisations (EARTO); President and CEO at SP Technical Research Institute of Sweden. Ms. Khorsand worked for Ericsson Group, including as President of Ericsson Technology Licensing – the “Bluetooth company”. She is a member of the boards of SOS Alarm, Beijer Electronics, the Swedish University of Agricultural Sciences, and a member of the Royal Swedish Academy of Engineering Sciences. She has also chaired the Government’s coordination council for the smart grid.



MR. ANDERS LÖNN

State Secretary to the Swedish Minister for Higher Education and Research, Helene Hellmark Knutsson. Prior to this Mr. Lönn served as Secretary-General at the Council for the Stockholm-Mälars Region (2013–2014) and as Administrative Director, Swedish Social Democratic Party, Stockholm County Council (2006–2013).



PROF. MICHAEL MATLOSZ

President of Science Europe and Chief Executive Officer of the French National Research Agency. Prof. Matlosz began his research career at the Swiss Federal Institute of Technology in Lausanne. In 1993, he was appointed university professor of process engineering at the National School for Advanced Study of the Chemical Industries in Nancy. From 2005 to 2009 he initiated and directed the European research initiative IMPULSE. In 2012, the EC named it the “best industrial technology project” of FP5, FP6 and FP7.



MR. CARLOS MOEDAS

European Commissioner for Research, Science and Innovation. In 2011, Mr. Moedas was elected for the National Parliament and was called for the government to Secretary of State to the Prime Minister of Portugal in charge of the Portuguese Adjustment Programme. Before that, he worked at investment bank Goldman Sachs in London, and Aguirre Newman in Spain. Mr. Moedas has studied Civil Engineering and obtained an MBA from Harvard Business School (USA) in 2000.

**DR. PATRICK MONFRAY**

Research director at CNRS, in charge of environmental programmes at French National Research Agency and Chair of the European JPI on Climate. Former Head of CNRS Ocean-Atmosphere Department. Trained in quantum physics with a PhD on oceanic CO₂ storage, he developed the French CO₂ network and coupled climate-carbon simulations for IPCC. He co-founded international research initiatives such as IMBER, the Belmont Forum, and Future Earth.

**DR. CHRISTIAN NACZINSKY**

Head of the Austrian delegation to ERAC and member of the ERAC Working Group on the Monitoring of the ERA Roadmap. Since 2002, Dr. Naczinsky has been Head of Department for EU Research Policy and Co-ordination at the Austrian Federal Ministry of Science, Research and Economy. He holds a doctoral degree in Political Science from University of Vienna and a master's degree in Business Administration from the University of Salzburg.

**MR. JOERG NIEHOFF**

Head of Sector Joint Programming, European Commission, DG Research & Innovation. Mr. Niehoff is responsible for instruments and activities related to Public-Public Partnerships and collaboration between Member State programmes. Previously he was Head of Office in Brussels for the Association of German Engineers, managed research programmes in a national funding agency, and worked as a researcher at Fraunhofer ILT. He holds degrees in engineering and economics and a PhD from Aachen University.

**MS. EVELINA SANTA-KAHLE**

Deputy head of unit for European Research Policy in the German Federal Ministry of Education and Research. A former coordinator of the JPI Climate, Ms. Santa-Kahle started her career in the Austrian Research Promotion Agency before she moving to Madrid, Spain, to work for the Spanish Ministry of Science and Innovation as European research area policy advisor. She managed the European Office of the Spanish Ministry of Science and Innovation in Brussels and was part of the Spanish Presidency Team in 2010.

**MR. ROBERT-JAN SMITS**

Director-General, DG Research and Innovation (RTD) at the European Commission. Mr. Smits is responsible for defining and implementing EU policy and programmes in the field of research and innovation (average annual budget of 8 billion euro). He has degrees from Utrecht University in the Netherlands, Institut des Hautes Etudes Internationales in Switzerland and the Fletcher School of Law & Diplomacy in Boston, Massachusetts.



PROF. SVEN STAFSTRÖM

Director-General, Swedish Research Council. Currently a professor in Computational Physics at Linköping University. Prof. Stafström was formerly acting Dean at Linköping Institute of Technology, Director of the National Supercomputer Centre (NSC) and Head of the Department of Science and Technology at Linköping University.



DR. JAN-ERIC SUNDGREN

Chair of the Business Europe Working Group for Research and Innovation. Dr. Sundgren holds a PhD in Materials Physics and a Professorship in Thin Film Physics from Linköping University. In 2006, he joined the Volvo Group where he has been Senior Advisor since 2013. Prior to joining the Volvo Group he was President of Chalmers University of Technology.



DR. PIOTR SWIATEK

Physicist. Currently he works for the Project Management Agency in Juelich in Germany as a H2020 National Contact Point Energy. He is active in many European bodies and conducts activities supporting R&D cooperation with the EU. Until 2001 he worked as a scientist at the Juelich Research Centre. He was later Project Manager of “Fit for Europe”, coordinated by KoWi, and from 2004 to 2008 he was a Senior Science Officer at COST in Brussels.



PROF. MATS ULFENDAHL

Chair of the Management Board JPIAMR and Secretary-General for Medicine and Health at the Swedish Research Council. Prof. Ulfendahl was appointed professor of experimental audiology and otology at Karolinska Institutet in 2004. He has published around 130 peer-reviewed scientific reports on inner ear function. He was director of the Center for Hearing and Communication Research from 2002 to 2010 when he was appointed Secretary-General.



MR. DAVID WILSON

Co-chair, European Research Area Committee, ERAC. Deputy Director, International Knowledge & Innovation Unit (EU), BIS. Mr. Wilson is a senior civil servant with over 20 years experience in central and local government. Since January 2014 he has been responsible for the UK’s engagement in the EU and other European programmes in fields of research, innovation and education, such as Horizon 2020, Eureka and Erasmus.



DR. GHADA ZOUBIANE

Deputy Chair of the European Joint Programming Initiative on Antimicrobial Resistance. Programme manager for infections at the UK Medical Research Council (MRC). Dr. Zoubiane is currently leading a UK wide Antimicrobial Resistance Cross-council Initiative. Prior to the MRC, she held a postdoctoral research position at the Institute of Cancer Research, followed by a Project Leader position at a biotech company specialising in the treatment of Parkinson’s disease.

Showcases

THE JOINT PROGRAMMING INITIATIVE ANTIMICROBIAL RESISTANCE (JPIAMR)

– a global research initiative aimed at tackling the challenge of antimicrobial resistance in Europe and beyond

JPIAMR aims at aligning and coordinating research resources for the development of new antibiotics, faster diagnostics and alternative treatments of infectious diseases. JPIAMR will also support research to obtain better, more complete data from the surveillance of antibiotic use and resistant bacteria and to implement new prevention and intervention measures to decrease the transmission of resistant bacteria and resistance genes between humans, animals and the environment.

Through alignment of research priorities and extensive consultation with international stakeholders, research agencies in the 21 countries of the JPIAMR have joined forces and developed a common Strategic Research Agenda. The SRA provides a blue print that will facilitate and promote cross-border research through coordination of programs, joint calls for proposals, support for joint projects and infrastructure, and other collaborative activities.

Speaker: Dr. Ghada Zoubiane, Deputy Chair JPIAMR, Medical Research Council, UK TBC

THE JOINT PROGRAMMING INITIATIVE HEALTHY AND PRODUCTIVE SEAS AND OCEANS (JPI OCEANS)

– a strategic platform, aiming at a long-term integrated approach to marine and maritime research and technology development in Europe

This initiative focuses on making better and more efficient use of national research budgets, which represent 88% of the research funding within Europe.

The field of marine and maritime research is a complex one that involves different sectors, areas of knowledge and disciplines including socio-economics. JPI Oceans has identified broad cross-thematic areas lying at the intersections of the marine environment, climate change and marine and human activity which need to be addressed as a priorities.

JPI Oceans is open to all EU Member States and Associated Countries who invest in marine and maritime research, and covers all European sea basins with 20 participating countries.

Speaker: Dr Kathrine Angell-Hansen, Director, JPI Oceans

THE EUROPEAN STRATEGIC ENERGY TECHNOLOGY PLAN (SET PLAN)

– EU cooperation for the development of energy technologies

The technology pillar of the EU's energy and climate policy, the SET Plan lays out a vision of a Europe with world leadership in a diverse portfolio of clean, efficient and low-carbon energy technologies. It has enabled EU Member states to jointly develop strategic planning and more effective implementation of programs throughout Europe.

The SET-Plan promotes research and innovation efforts across Europe by supporting technologies with the greatest impact on the EU's transition to a low-carbon energy system. It illustrates result-oriented cooperation amongst EU countries, companies, research institutions, and the EU itself.

Speaker: Dr. Piotr Swiatek, Joint Action Working Group of the SET-Plan SG

EMPOWER – ADDRESSING THE HORIZON 2020 CHALLENGE: TRANSPORT

– a project addressing the Horizon 2020 Transport Challenge with the aim to substantially reduce the use of conventionally fuelled vehicles (CFV)

This project integrates technological and socio-economic approaches in order to influence both the mobility options available to CFV users and their mobility behavior. It brings together transport engineers, transport infrastructure specialists, cognitive psychologists and economists as well as specialists in traffic behavior and organizational psychology.

Empower is a project that represents the novelties of Horizon 2020: challenge-driven, with participants ranging from academia to end users, and with a clear ambition to find solutions to issues spanning several thematic areas.

Speaker: Dr Susan Grant-Muller, Consortium Team Leader, Leeds, UK

SHARE: USING EUROPEAN INFRASTRUCTURES TO TACKLE SOCIETAL CHALLENGES

– a Europe-wide demographic database for tackling societal challenges

In times of a challenging demography in Europe with an ageing population on the increase, the pressure on European social systems is rising, as is the need for increased understanding of the consequences of the demographic ageing in Europe. SHARE, – The Survey of Health, Ageing and Retirement in Europe – collects and maps data on labor supply, social and economic conditions, family networks and so on into a Europe-wide database.

SHARE data provides input for evidence-based policy making; among other things, it has been used for the new design of pension systems in various countries. Its infrastructure is established as one of Europe's foremost in the field of social science and receives funding from Horizon 2020.

Speaker: Karen Andersen-Ranberg, Associate professor, Odense

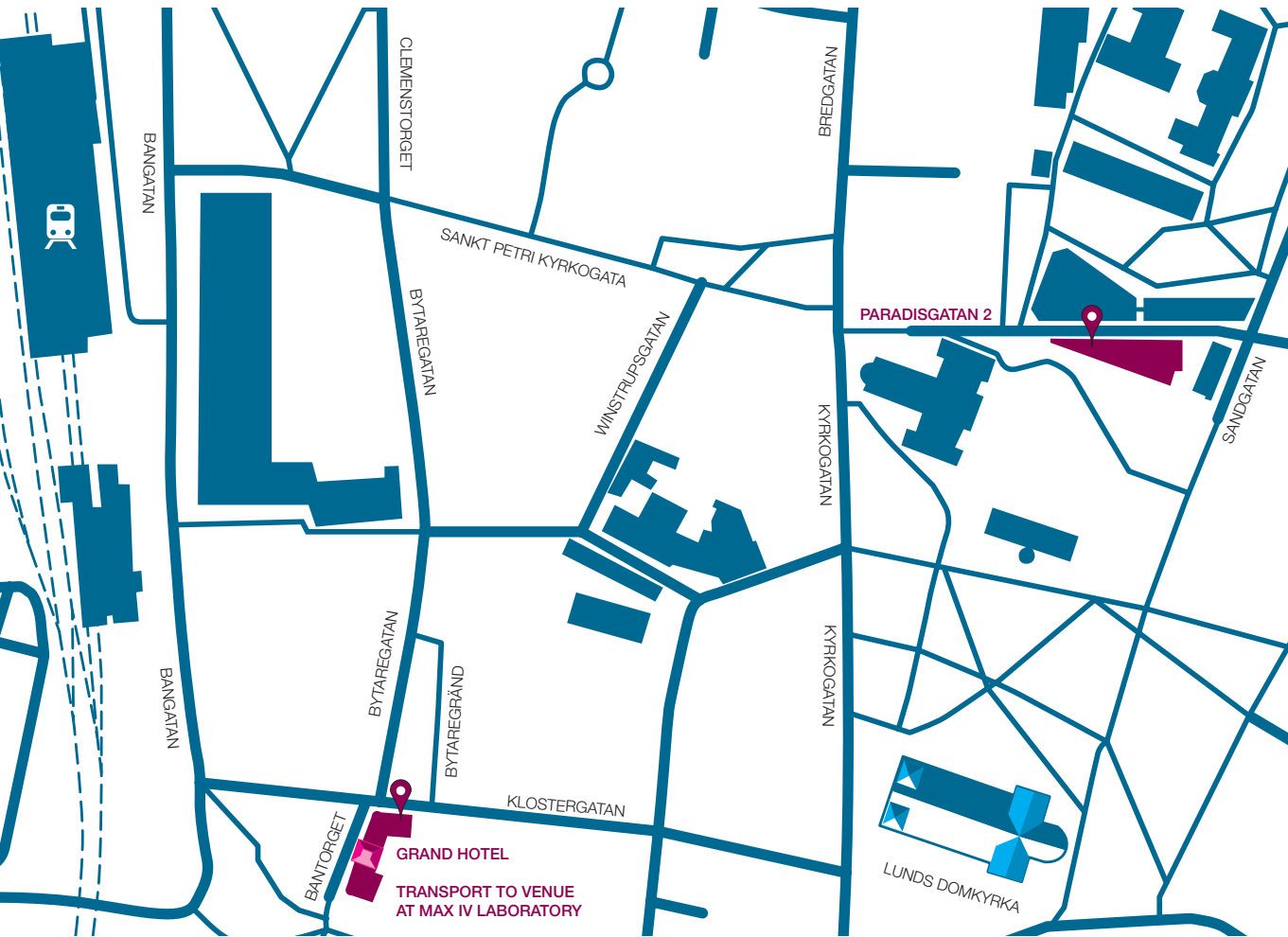
THE SWEDISH CHALLENGE DRIVEN STRATEGY FOR INNOVATION

– an illustration of a national funding agency's shift from traditional research and innovation funding towards a challenge-driven strategy

The challenge-driven strategy for innovation derives from the need to find solutions that address essential or critical needs in society and industry. The approach has stimulated new collaboration patterns to emerge between actors in different value chains and sectors as well as opened up new markets and opportunities for the creation and delivery of innovations.

Special attention will be given to synergies between the national agency strategy and the challenge-driven approach in Horizon2020, as well as the increased focus on innovation.

Speaker: Charlotte Brogren, Director-General, VINNOVA



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