



KUNGL. INGENJÖRSVETENSKAPSAKADEMIEN

*May 28, 2014*

*Professor Björn O. Nilsson, president*



Swedish economy is based on science,  
technology and innovation



**Forestry/Paper**



**Mining/Metal/Machinery**



**Trade**



**Transport/Vehicles**



**Aeroplanes/Security**



**Pharma/Biotech**



**ICT**



**Environment/CleanTech**



The first engineering science academy in the world  
Founded 1919



- *Patron* H.M. King Carl XVI Gustaf
- *Chairman* Leif Johansson
- *President* Björn O. Nilsson



## IVA's mission

*"To promote the engineering and economic sciences and the advancement of business and industry for the benefit of society"*

IVA statutes, § 1





A cross-boundary meeting place for  
decision-makers



Knowledge and experience  
from **1,100 academy fellows**  
and  
**200 member organisations**  
in **business executives**  
council





An independent arena to influence the development of society

Meetings between people generate new ideas and new knowledge





# Sections of IVA 2014

"Academy silos"

<b>I</b>	<b>Mechanical Engineering</b>	<i>Ulf Södergren</i>
<b>II</b>	<b>Electrical Engineering</b>	<i>Karl Bergman</i>
<b>III</b>	<b>Building and Construction</b>	<i>Åsa Söderström Jerring</i>
<b>IV</b>	<b>Chemical Engineering</b>	<i>Hans-Jürgen Federsel</i>
<b>V</b>	<b>Mining and Materials</b>	<i>Göran Carlsson</i>
<b>VI</b>	<b>Management</b>	<i>Eric Giertz</i>
<b>VII</b>	<b>Basic &amp; Interdisciplinary Engineering Sciences</b>	<i>Jan-Erik Sundgren</i>
<b>VIII</b>	<b>Forest Technology</b>	<i>Stina Blombäck</i>
<b>IX</b>	<b>Economics</b>	<i>Michael G:son Löw</i>
<b>X</b>	<b>Biotechnology</b>	<i>Inger Andersson</i>
<b>XI</b>	<b>Education &amp; Research Policy</b>	<i>Ola Asplund</i>
<b>XII</b>	<b>Information Technology</b>	<i>Ylva Hambraeus Björling</i>





# IVA projects have an impact on politics

The projects provide decision makers with independent advice based on science and technology





# Project portfolio May 2014

## **Pre projects**

(to become  
*Ongoing projects*)

- Forestry industry strategy

## **Ongoing projects**

(normally < 2 years)

- Attractiveness for Growth
- Resource efficiency
- Energy efficiency
- Clinical trials strategy for Sweden
- Industry junior trainee program for high school graduates ("Technology Leap")
- Digital learning (NTA)
- Research policy for Sweden
- Euro-CASE Energy Policy for Europe

## **Longer term projects**

(> 3 years)

- Mentor program for academic researchers
- Natural science and technology for everyone – school support (NTA)
- Energy book
- Prince Daniel's Fellowship
- Wallenberg Academy Fellowship



## IVA's Business Executives Council (BEC)

IVA's Business Executives Council organises approx. 220 Swedish organisations, from business and industry.



# Member organisations/companies





# RTM – Royal Technology Mission

1984	USA
1985	Japan
1986	Western Germany
1987	Italy
1989	England
1990	Japan
1991	Switzerland / France
1992	Denmark
1994	South Korea
1996	South Africa
1998	Brazil
1999	Canada
2001	Ireland
2003	Italy
2004	England
2005	India
2007	Russia
2009	Spain
2010	China
2012	Czech Republic
2013	Brazil
2014	Finland





## International cooperation



Euro-CASE is an umbrella organisation for all Academies of engineering science in Europe.



CAETS – International Council of Academies of Engineering and Technological Sciences



KUNGL. INGENJÖRSVETENSKAPSAKADEMIEN

*May 28, 2014*

*Professor Björn O. Nilsson, president*