

Impacts of FP3-6 in Sweden

Lennart Norgren

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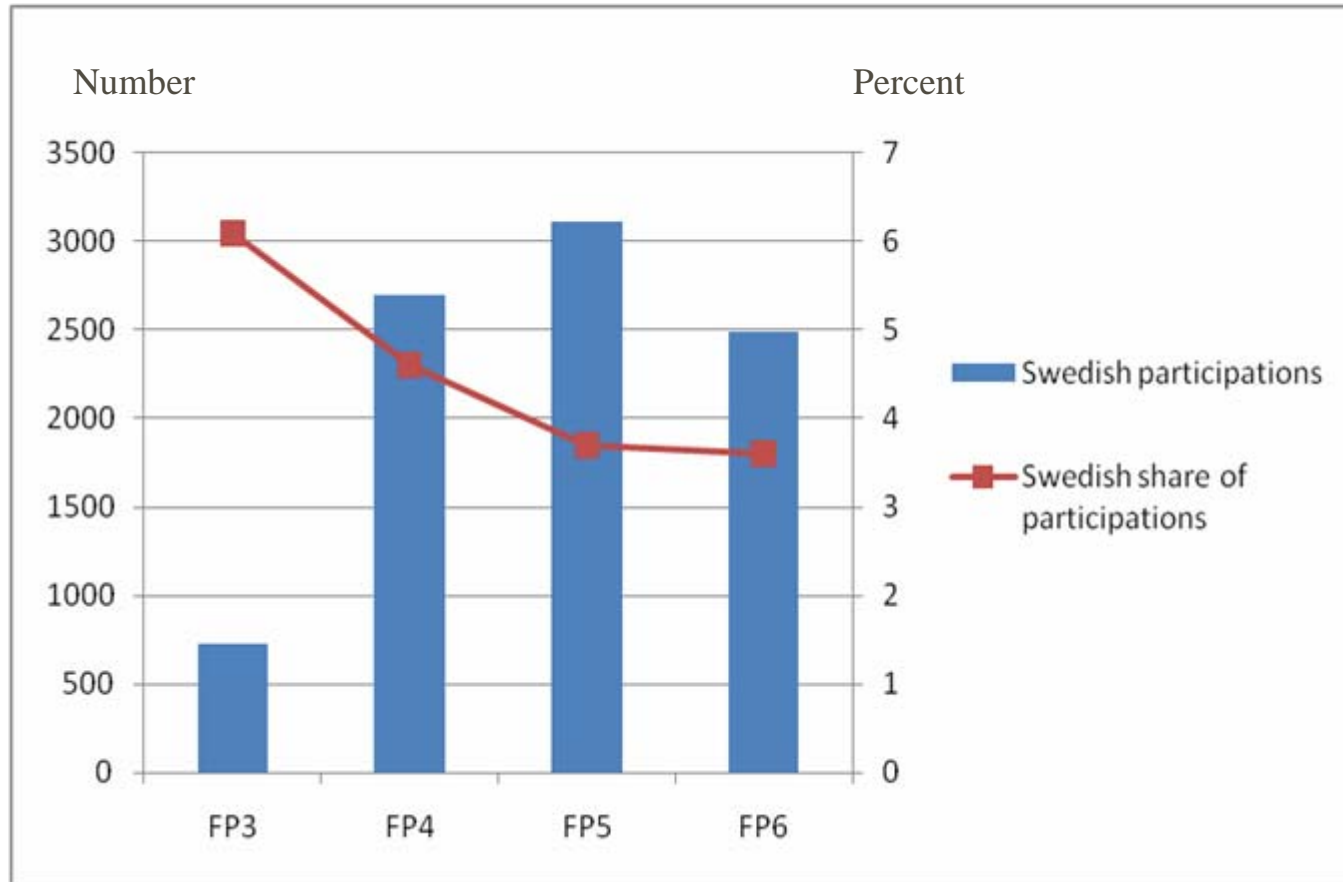
Road map ...

- How is this study different?
- Swedish participation
- Impacts in the vehicle sector
- Impacts in three other sectors and universities

A new approach to understanding FP impacts

- Traditionally, EU- and national-level FP evaluations look at projects funded within the latest FP focusing on the views of the technologists involved
- This study asks what the FPs have done for Sweden in a 20-year perspective, in
 - Sustainable energy; Life sciences and health; ICT; and Vehicles
 - The Universities of Lund, Gothenburg and Växjö, the Karolinska Institute and the Chalmers Institute of Technology

Swedish participation in the FPs



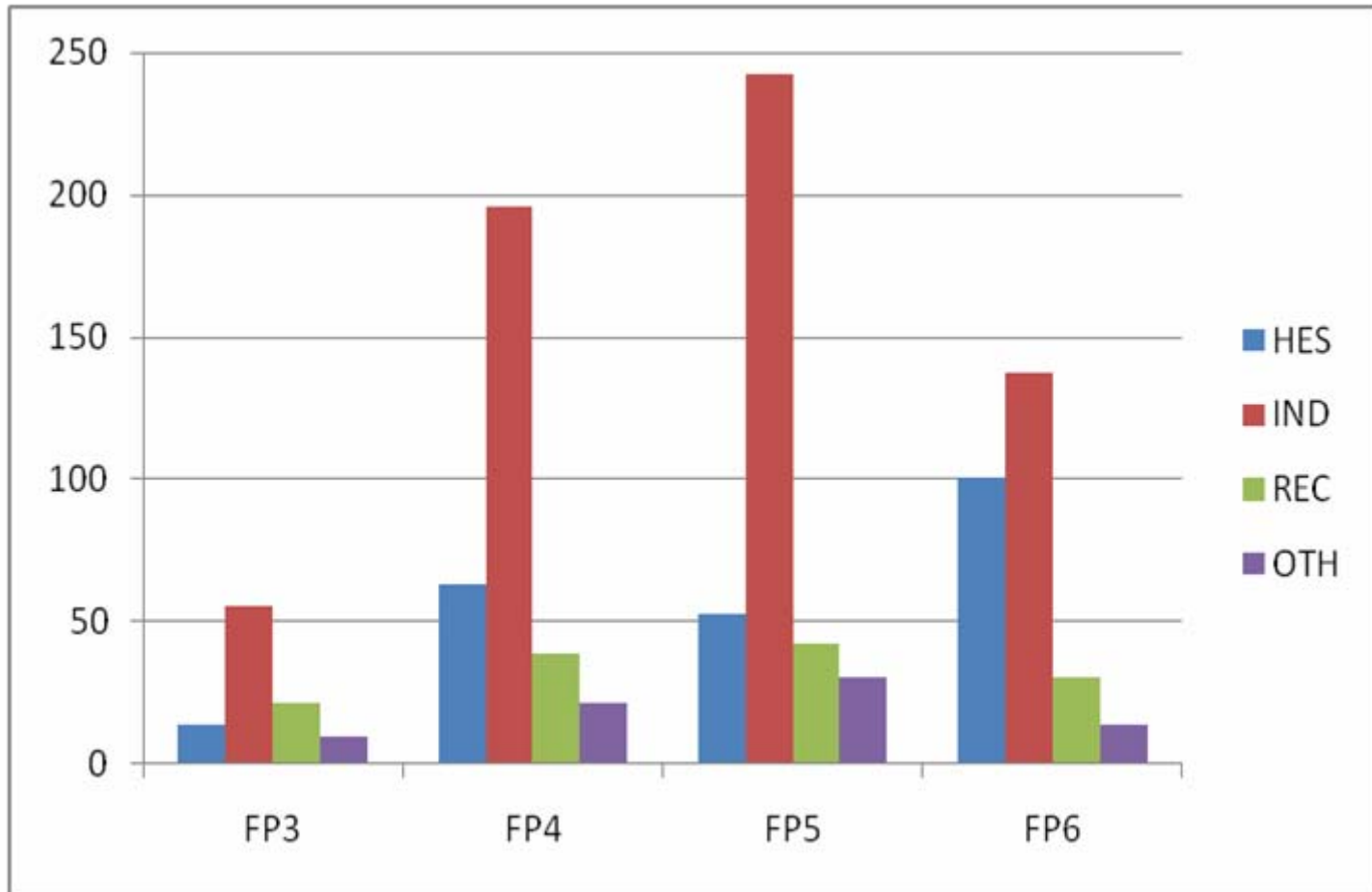
Vehicle industry

- 140 000 people work in the industry i.e. 1/5 of the manufacturing labour force
 - 67 500 employees in vehicle manufacturing companies
 - 72 500 employees in component manufacturing companies
- Road vehicles and components provide 15% of Swedish exports
- Domestic supply of components for cars and trucks is modest – 35% of the bought-in value of components comes from companies in Sweden

Road Vehicle makers

- Volvo AB (trucks and buses)
- Volvo Car
- Scania (trucks and buses)
- Saab Automobile

Number of Swedish participants in FP vehicle projects by category



Volvo AB - Vtec

- Vtec provides a 15-20 year perspective on technology
- Vtec is a national resource within the industry
- FPs are a source of funding for long-term research questions while the national R&D supports address short- and medium-term issues. FPs addresses research areas where market failure is highest. FP funding is more attractive than national funding; covers a higher proportion of costs

Effects of FPs on Volvo AB and Volvo Car

- A key monetary contribution to the survival of the research function and therefore the Swedish road vehicle industry
- Enabled Volvo to take a long-term perspective in parts of its research to build future capabilities
- At time it has sustained technologies with long-term future e.g. alternative drive lines
- Helped sustain key technology strengths e.g. combustion, catalysis and safety
- A long series of product innovations can be traced back to FP-participation
- Extended international partnership and maintained its position as an insider in the European vehicle industry

Impact on four industries

- FPs have had a very significant effect on the competitiveness, sustainability and development of the vehicle industry and its knowledge system in Sweden
- FPs have also had a strong and positive influence on competitiveness, sustainability and development in ICT but not on the industries of Life Science and Sustainable Energy.

Impacts on five Universities

- FPs have added quite a lot of additional money to the funding pot
- FPs have added diversity to the funding portfolio, occasionally leading to research group survival
- FPs have had little influence on thematic research strategies