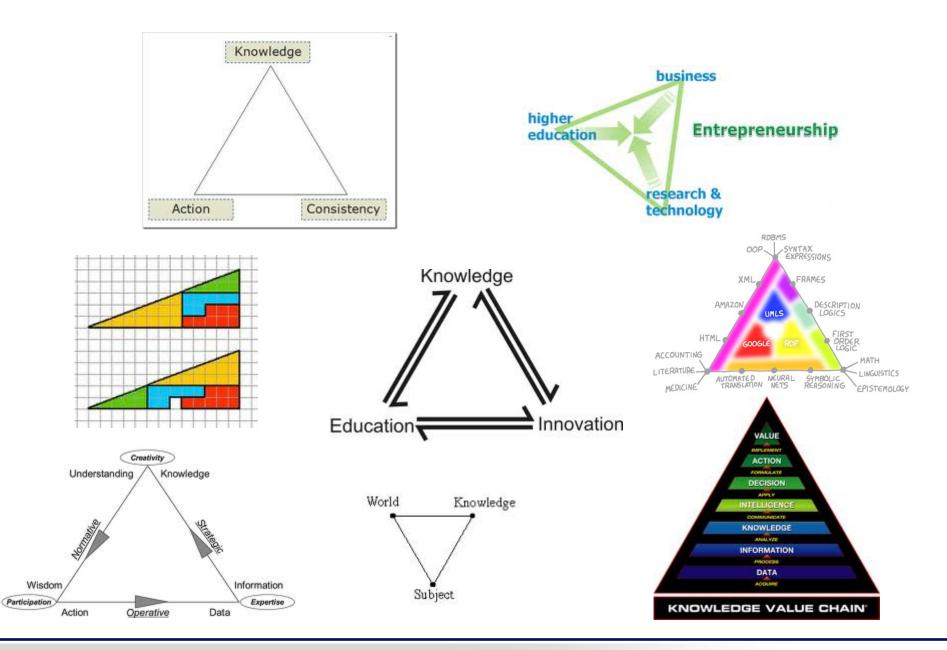
Shaw can analyze and the sentence the mix of activities sentenced in terms of the sentence a knowledge base of setting peers as a means of setting peers as a means of setting peers as a means of

An industrial perspective of the knowledge triangle

Dr Jan-Eric Sundgren Senior Vice President, Public and Environmental Affairs Volvo Group

Gothenburg, Sweden



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Volvo Group

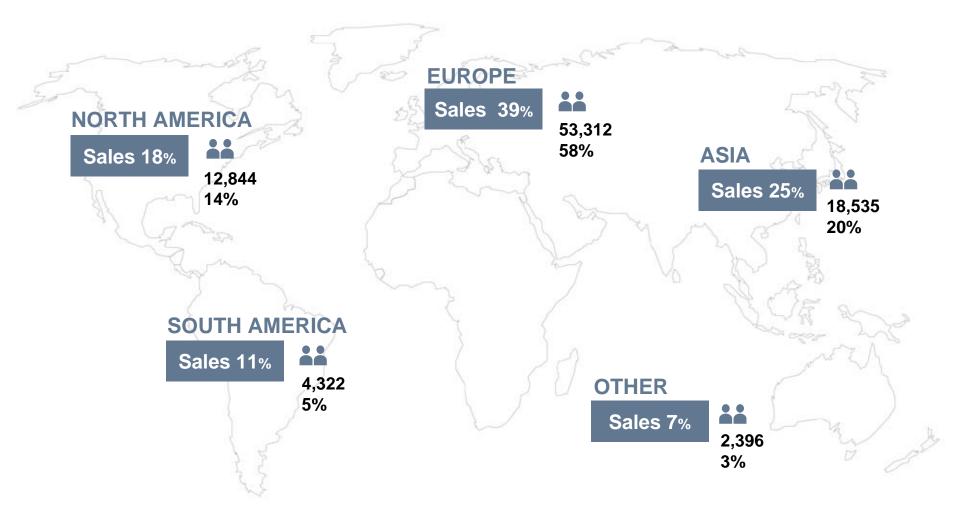


*) 50% of the joint-venture company with Eicher Motor Limited was consolidated in the Volvo Group from August 1st 2008

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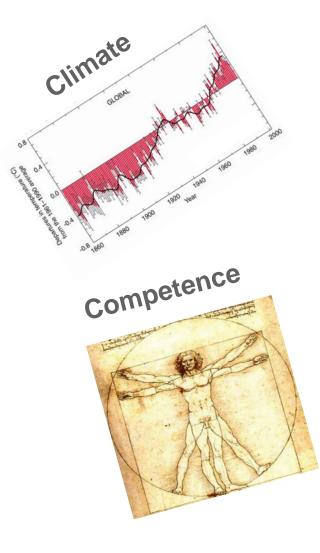


Sales and Employees Worldwide 2010

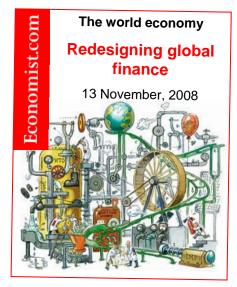


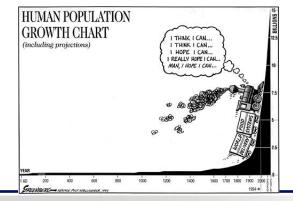
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Industry facing major global challenges



Financial issues





Competetiveness





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Congestion





Casualties

CO₂



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Decreasing the environmental impact

Congestion

Balancing mobility and accessibility

Casualties

Ensuring high safety and high security levels

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Keeping environmental impact low

Efficient R&D, innovation and education systems necessary

Casualties

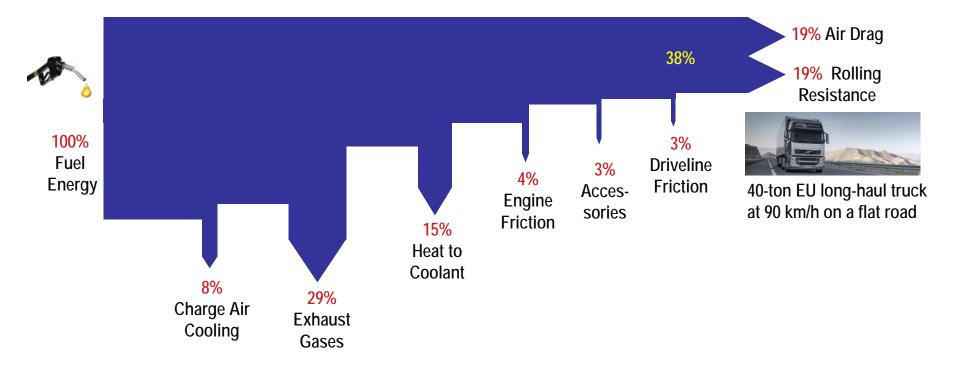
Balancing mobility

and accessibility Ensuring high safety and high security levels

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What happens to energy in the fuel?



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Volvo – Focused areas

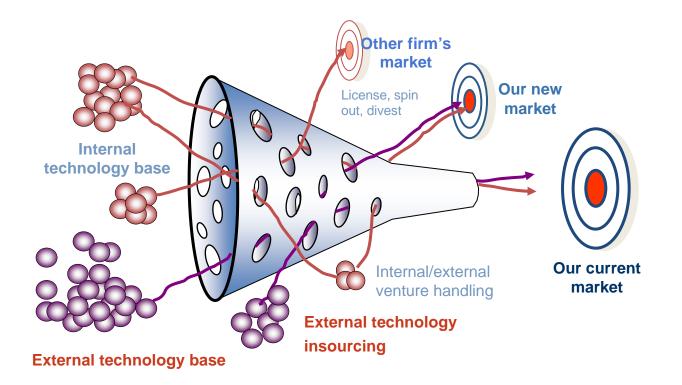
Sustainable solutions

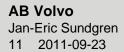
- Energy efficiency
- Vehicles performance & services
- Alternative fuels
- Safety & security
- Vehicle combinations
- Public transport solutions
- ITS



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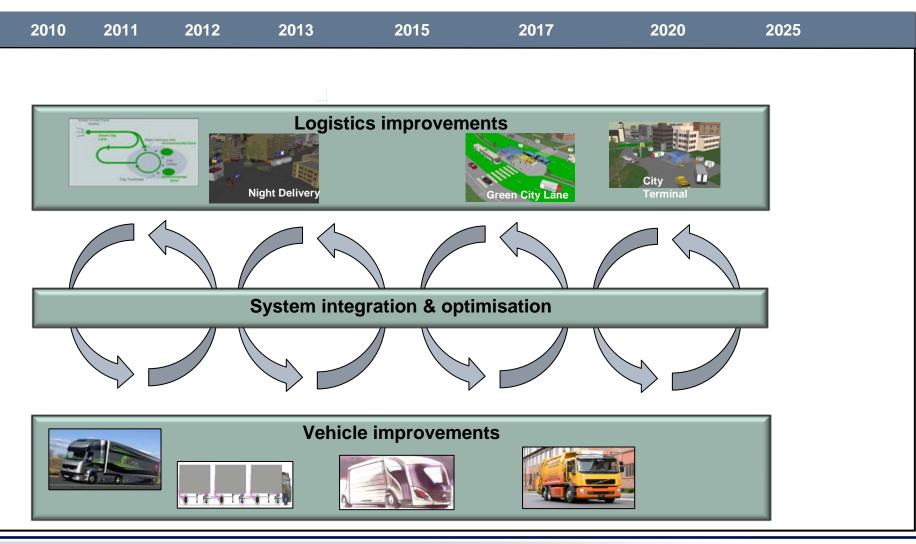
Innovation funnel





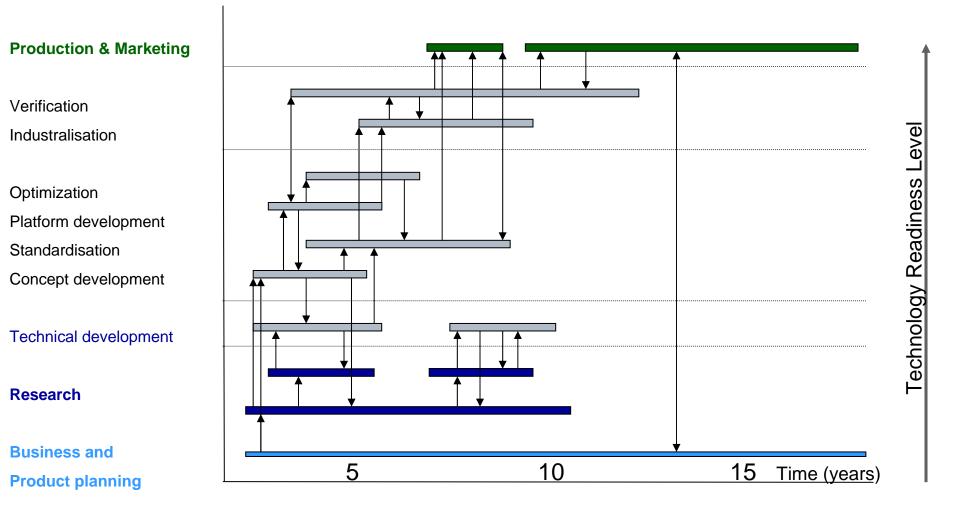


Long-term plans/prognosis a necessity (Roadmaps)



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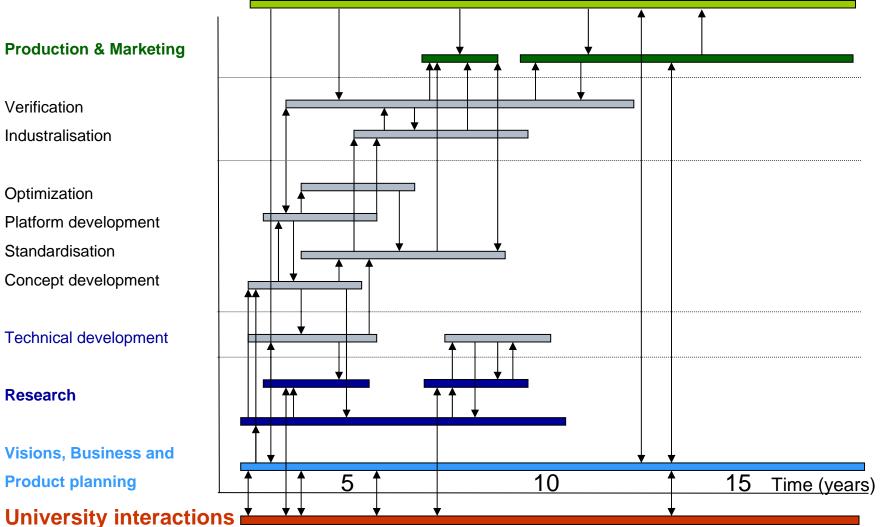
From R&D to Production and Sales



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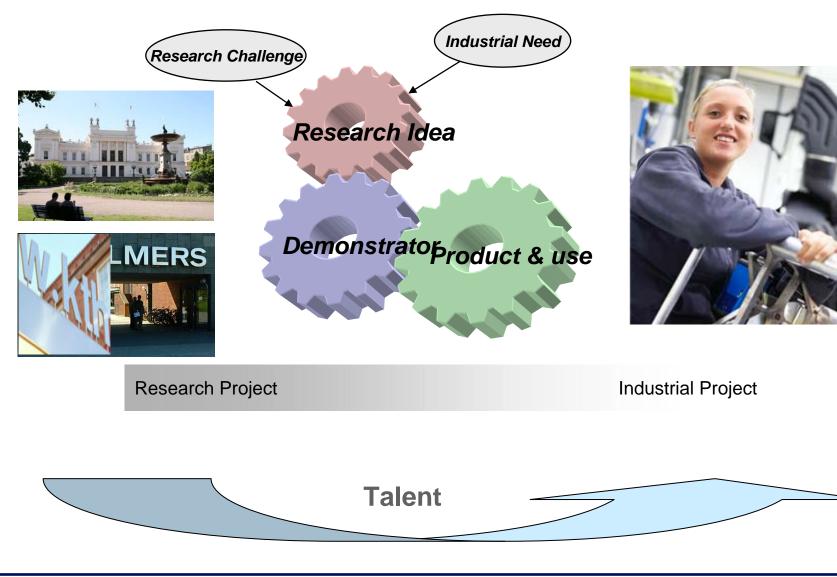
True Innovation requires in addition

Customer, supplier, society interactions



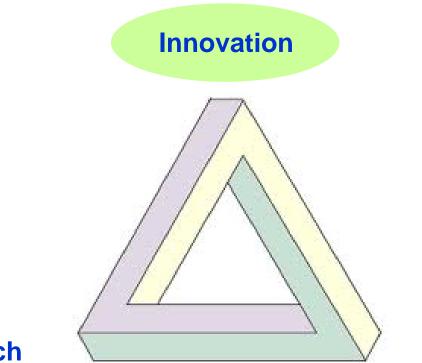
AB Volvo Jan-Eric Sundgren 14 2011-09-23 Technology Readiness Level

University cooperation is essential



AB Volvo Jan-Eric Sundgren 15 2011-09-23



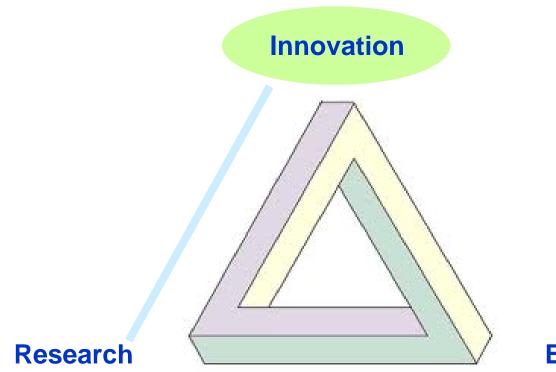


Research

Education

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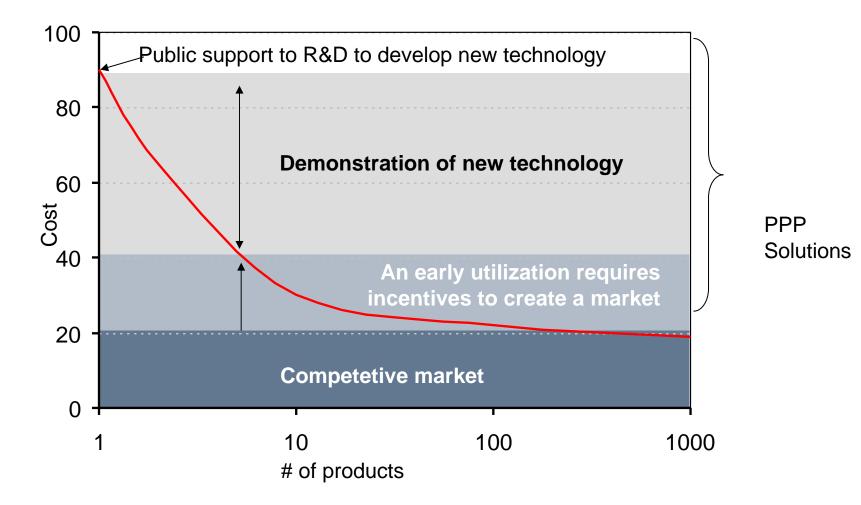


Education

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Stimulate demand and markets for innovation

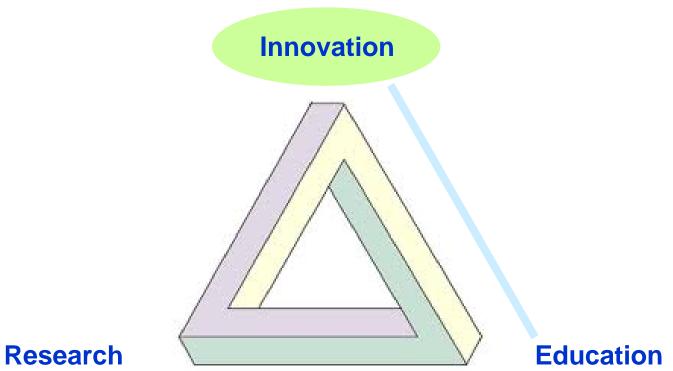


BUSINESSEUROPE

Five top priorities for a renewed and successful EU innovation policy

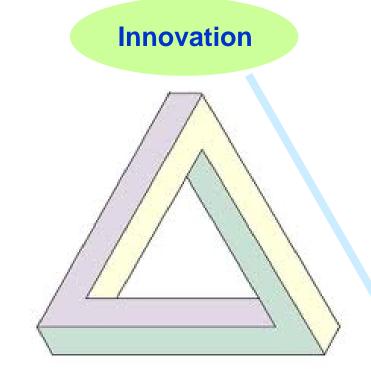
- Increase public and private investments in R&D and innovation
- Enhance the efficiency of public support policies
- Nurture future talent
- Stimulate demand and markets for innovation
- Implement integrated policy approaches





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Partnership between education and business to support students and teachers and enhance entrepreneurship

Education

Research

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ERT Vision for a Competitive Europe in 2025

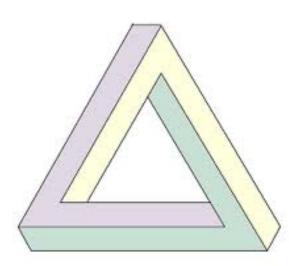
Education Recommendations



- Build national platforms that support initiatives for effective interactions between business and schools.
- Support life-long learning.
- Build stronger links between the public and private sectors in education.
- Further increase student mobility within the EU.

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Smart, Sustainable and Inclusive Growth



Multi-stakeholder approaches Trust and risk based approaches Market and demand stimulation Secured competence supply (A healthy STEM talent pipeline)

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