



IQ Samhällsbyggnad

# The Swedish Delegation for Sustainable Cities and beyond

Katarina Schylberg, Programme Manager IQS, (Special adviser, The Swedish Delegation for Sustainable Cities 2008-2012)

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# The Swedish Delegation for Sustainable Cities



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- Commissioned by the National Government 2008 - 2012
- National Arena for Sustainable Cities
- Government grant of 50 Million Euro
- 20 experts: Academia, Business and Public Sector, Ministries
- Follow-up activities 2012 – 2016 by Swedish National Board of Housing, Building and Planning



# The National Arena



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- Promote climate smart solutions
- Promote integrated planning and cross-sectoral coordination
- Gather and disseminate information about best practice examples
- Assist public-private cooperation in city development projects
- Promote public participation in the planning process
- Assist diffusion of green technology and knowledge

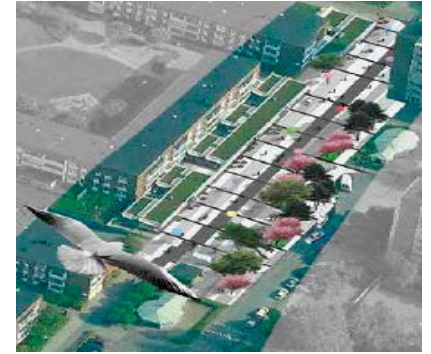


# The Government Grant



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- Promote sustainable development city projects
- 50 Million Euro
- A maximum of 30 % of the added cost
- Best practice examples
- Reduce emissions of greenhouse gases
- Stimulate innovative solutions
- Facilitate export of green technology
- Integrated solutions

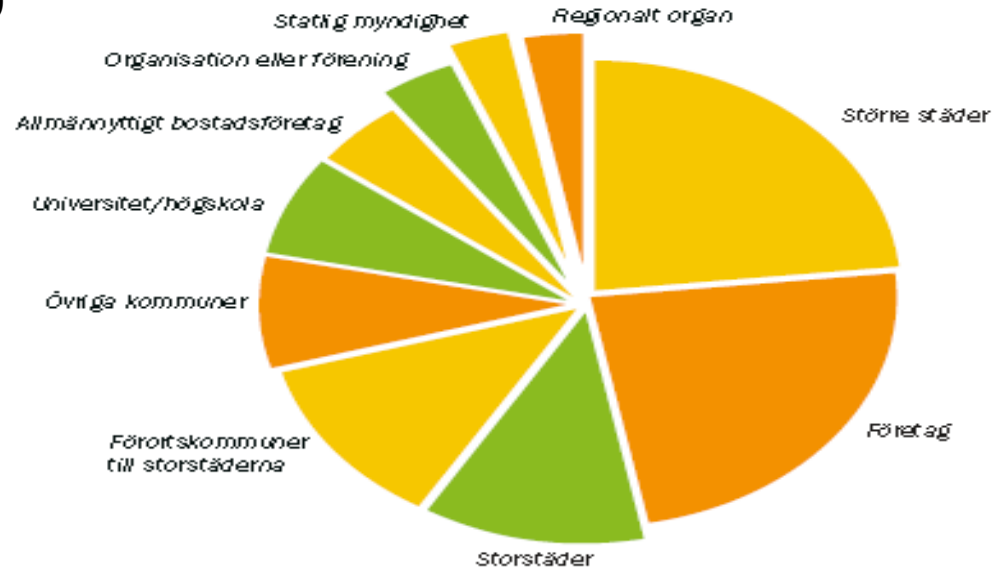


# Funded projects



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- Big/medium cities < 200 000
- Enterprises
- Big Cities > 200 000
- Suburbs to big cities
- Other municipalities
- Public housing companies
- Universities
- Organizations (NGO's etc)
- National agencies
- Regional bodies



Bewiljade stödprojekt 2009–2012 fördelade på olika typer av sökande

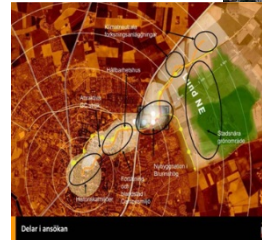


# Nine large investment projects and 89 smaller planning projects supported



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- Passive and low energy buildings
- Conversion of high rise buildings from 60-70:ies
- Renewable energy, waste collection, biogas production
- Car pools, cycling
- Smart ICT services
- Dialogues with citizens and residents
- Close cooperation with developers at an early stage
- Climate-friendly lifestyles



# Some conclusions

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- Cities must lead the way and are part of the solution to climate change
- Not so many new technologies – novelty is in system integration
- Integrated planning at an early stage with cross sectoral cooperation is crucial
- The whole chain of knowledge development within sustainable urban developments needs strengthening
- Technology is there – organizational challenge rather than technological
- Difficult to up-scale pilot projects
- Cities and projects that received gov't funding active and successful in more R&D initiatives

## **”15 Barriers to Sustainable Urban Development” (2012):**

- Sector and silo organization
- Lack of leadership skills
- Lock-in into old and insufficient structures
- Lack of business models
- Concerning rules for public procurement

# Current National Government Initiatives

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## Government Bill on Research and Innovation 2012:

- 82 % Increase of research funding in the area of sustainable built environment (including sustainable cities) from 2016 – successive increases from 2013
- 50 % co-funding a requirement in most cases
- Formas, VINNOVA and Swedish Energy Agency

Joint commission to five national agencies\* to establish a common platform for sustainable urban development – coordination, structural funds, knowledge dissemination (2014 - )

\* Swedish National Board of Housing, Building and Planning, Swedish Environmental Protection Agency, Swedish Energy Agency, Swedish Agency for Economic and Regional Growth, Swedish Transport Administration



## Two new system tools:

Challenge-driven Innovation *"From technology and sectors to societal challenge"* (2011-

- Sustainable Attractive Cities – for new solutions within areas such as environment, energy, transport and community building. (4 funded projects)

Strategic Innovations Areas *"A framework for strong partnership programs"* (2012-

- Sustainable cities (6 funded projects)

Innovation platforms for Sustainable Attractive Cities (part of Challenge driven innovation)

- Support (triple helix) constellations of actors to develop platforms – focus on innovative solutions for management and refurbishing of existing areas or development of new city districts (4+1 cities)

Platform for EU policy outreach – Application in March 2014 – Triple helix consortium

- The Swedish Energy Agency - Hearing on Sustainable Cities – How can cities in the future be smarter and more energy efficient?
- Strategic Innovations Areas (one example - *Smart Sustainable Cities KTH*)
- Business Sweden – cooperation around SymbioCity – a platform to export Swedish solutions and competencies
- Research, demo-projects, innovation and technical procurement etc
- Government assignment on innovation procurement with a focus on sustainable Urban development

# The Swedish Research Council Formas

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- Research program for sustainable built environment (2013)
- Financial support to build and maintain strong research environments (5) (2013)
- Strategic Innovation Areas (2014-
- Internationalization and young researchers (2014
- More to come