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SPATIAL PLANNING and ENERGY for COMMUNITIES IN ALL LANDSCAPES

What can we learn from Europe? - the SPECIAL project

Diane Smith, Head of European Affairs, TCPA

The Big Energy Summit

26th February 2015, Leeds

@eu_special @theTCPA

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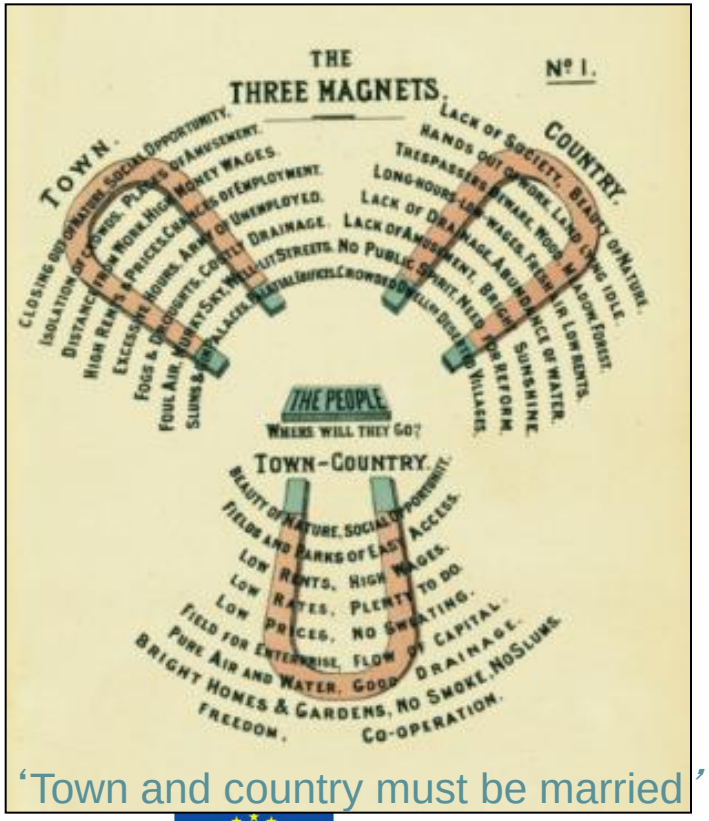
History

Founded as the **Garden Cities Association** in **1899** by **Sir Ebenezer Howard** in response to 19th century problems.



'Town and country must be married'

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ABOUT THE TCPA

Leading the planning debate in the UK

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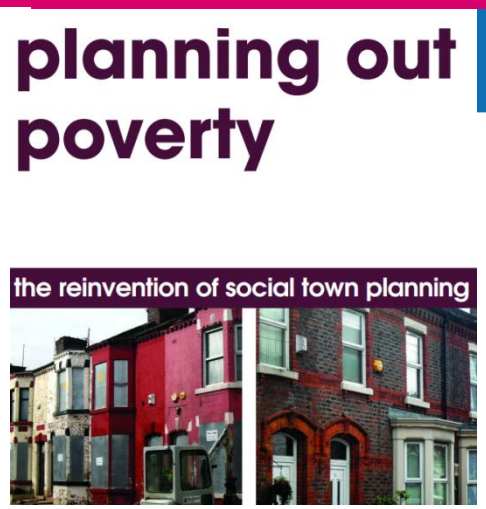

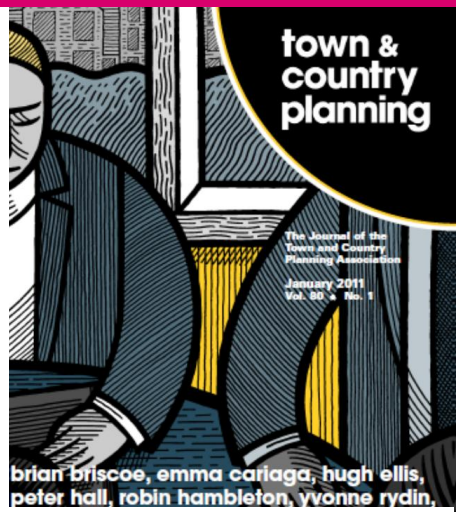

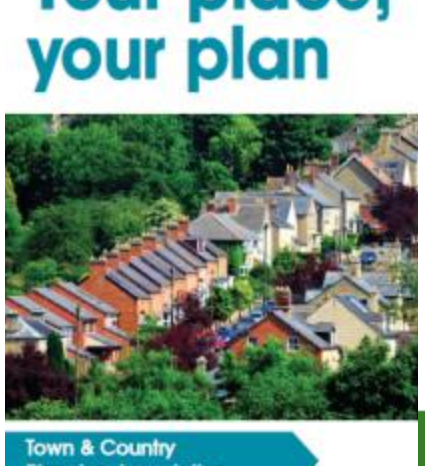

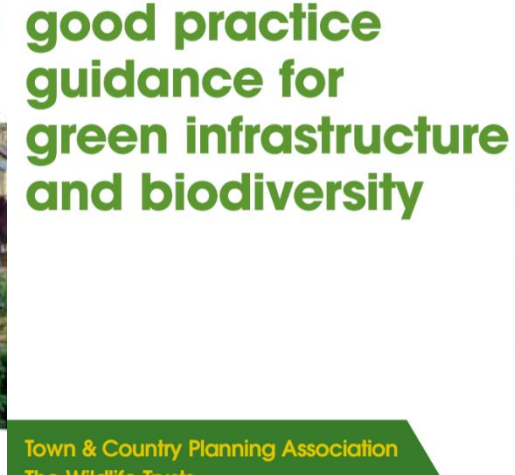

TCPA PROJECTS
planning, health and social justice

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TCPA PROJECTS
climate change

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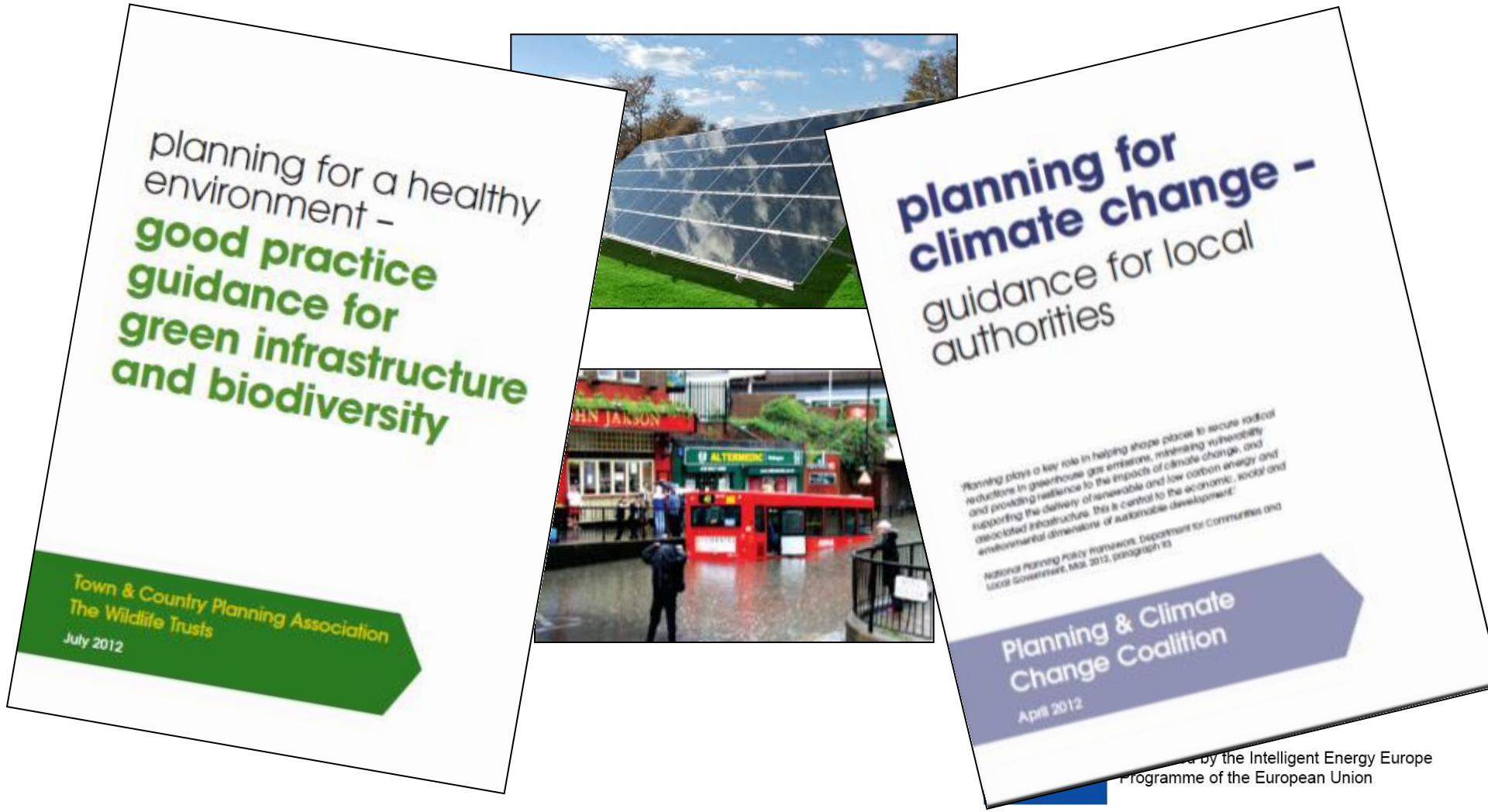

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Garden Cities & New Towns

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TCPA PROJECTS
TCPA New Communities Group

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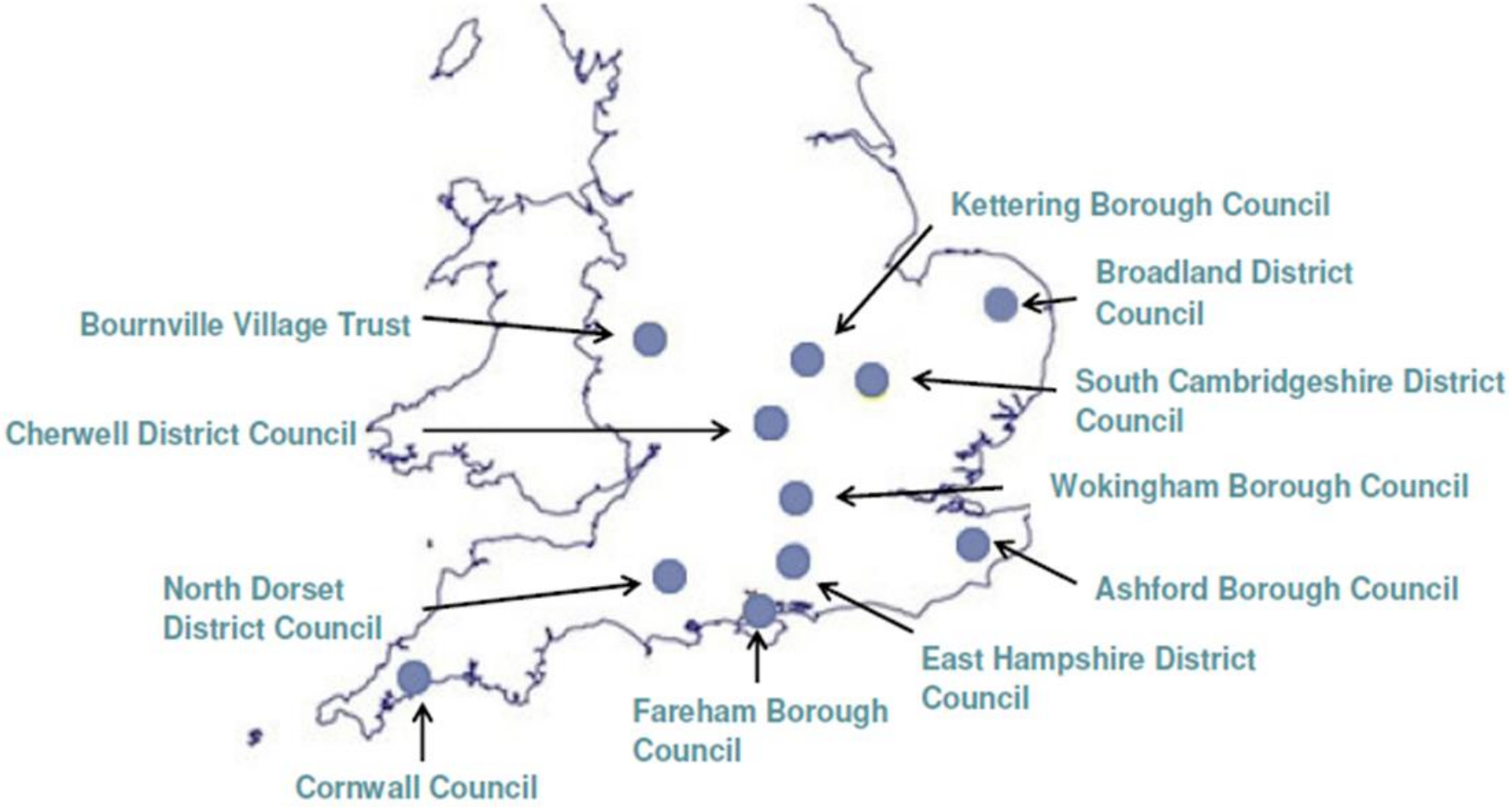

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- Building the capacity of Town Planning Associations to plan and deliver sustainable energy solutions
- Integrating spatial planning and energy planning

SPECIAL Key objectives

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- To build the capacity of **Town Planning Associations** to integrate sustainable energy solutions into spatial planning training, practice, and delivery.

- To exchange experience and competences to deliver the integration of sustainable energy into spatial planning strategies at **local and regional** levels.

- To improve the energy-related competence of planners working within **local authorities** through piloting integrated spatial planning strategies for low carbon towns and regions.

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SPECIAL Partners

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Town Planning Associations across Europe:

UK:	TCPA
Sweden:	Swedish Society for Town & Country Planning
Ireland:	Irish Planning Institute/South Dublin CC
Hungary:	Hungarian Urban Knowledge Centre
Italy:	National Centre for Town Planning Studies
Greece:	The Org. for the Master Plan and Environmental Protection of Greater Macedonia (ORTH)
Germany:	German Institute of Urban Affairs
Austria:	Provincial Govt of Styria, Dept Spatial Planning
EU-wide:	European Council of Town Planners (ECTP-CEU)
France:	French Society of Town Planners (SFU)

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Sharing knowledge:
Partner hosted training weeks

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England

Sweden

Germany

Pan-European portfolio of modular training materials

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1. Challenges of climate change and sustainable energy supply
2. Framework of spatial planning and sustainable energy
3. Strategies, tools and instruments for integration of spatial planning and sustainable energy
4. Infrastructure and implementation at a local level
5. Stakeholder inclusion, participation processes and communications

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Learning from each other

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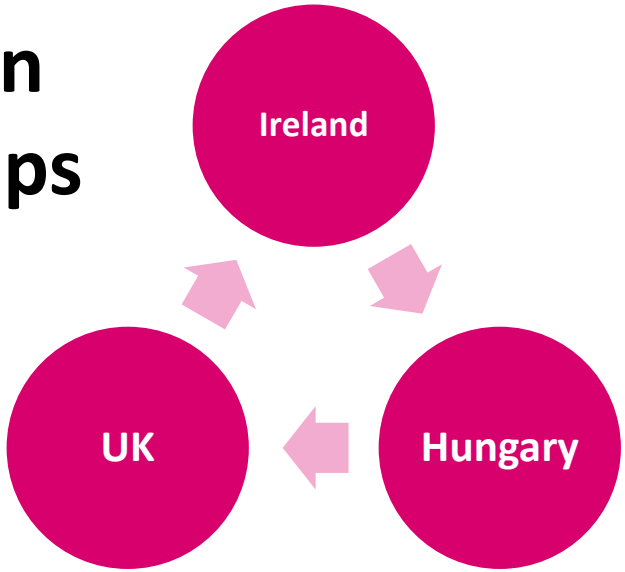
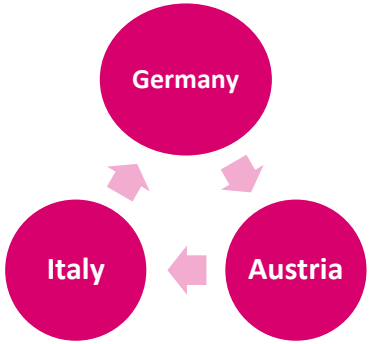
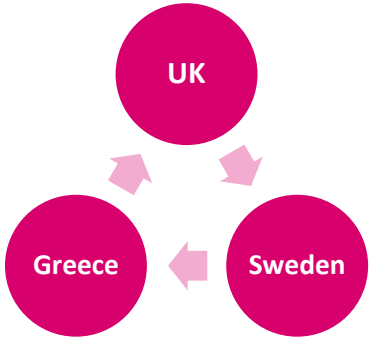
Working in peer groups







TCPA Multiplier Organisations

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1. **RTPI Learn** (Royal Town Planning Institute)
2. **PUSH** (Partnership for Urban South Hampshire)
3. **Sustainability East** (Climate change partnership in the East of England)
4. **CLASP** (Climate change partnership in North West England)
5. **Association for Public Service Excellence (APSE) Energy** - Local Authority Energy Collaboration
6. **Hertfordshire County Council - Building Futures** (Sustainable Design Toolkit and Awards, & Herts Design Review Panel)
7. **Department for Energy and Climate Change: HNDU**
8. **Forum for the Future/Community Energy Coalition**
9. **TCPA groups** (Policy Council, Trustees, New Communities Group and Planning & Climate Change Coalition)

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Multiplier effect

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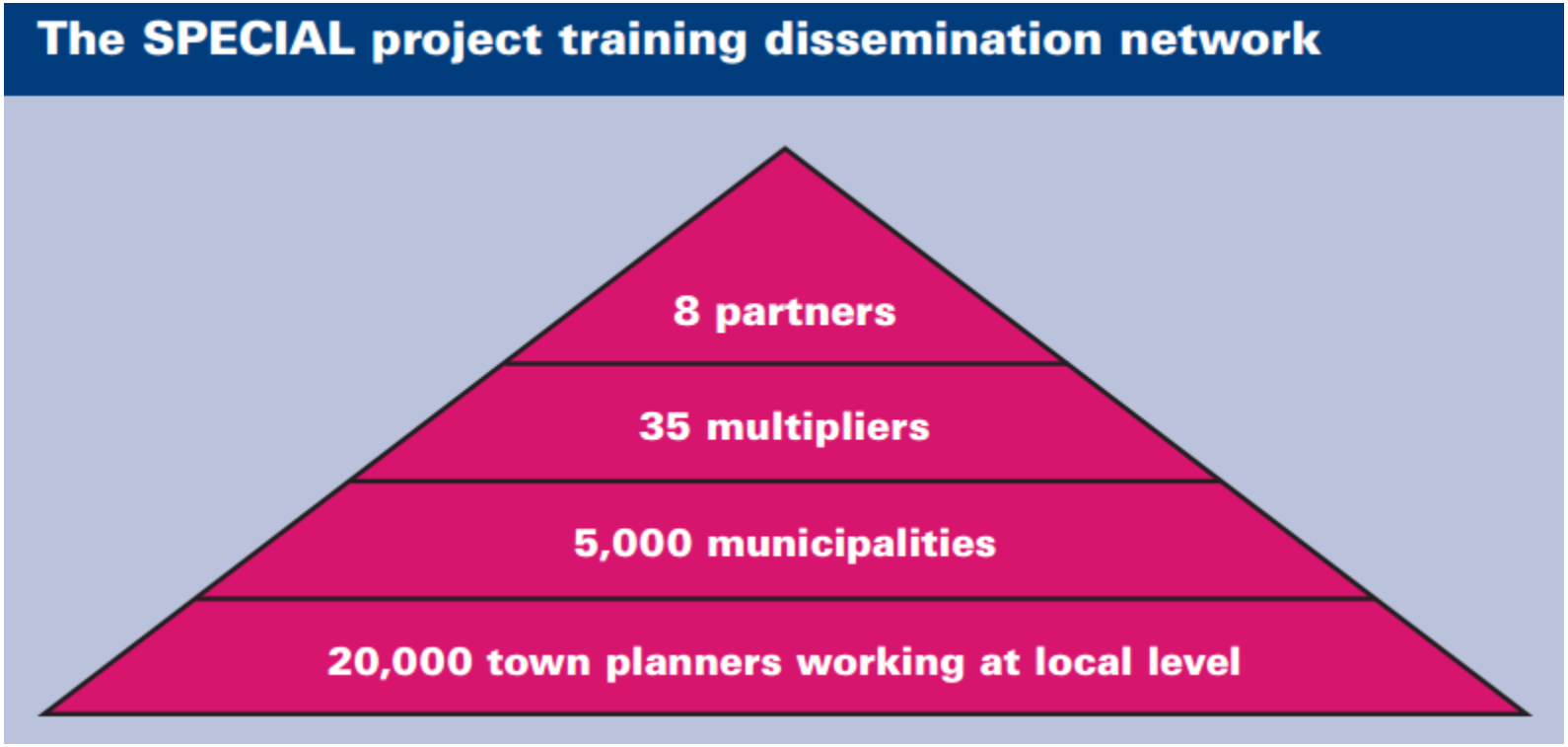

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Aligning spatial planning and energy planning:

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How to make it happen:

1. Strong **political leadership** and support

2. Effective and inclusive **cross-departmental working**

3. Effective and **integrated policy frameworks** at regional, city and masterplan scales

4. Effective and transparent **public-private partnerships** and **funding streams**

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Lessons from SPECIAL

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- Malmö, Sweden
- Hamburg, Germany
- Swindon, UK

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Sweden: Example

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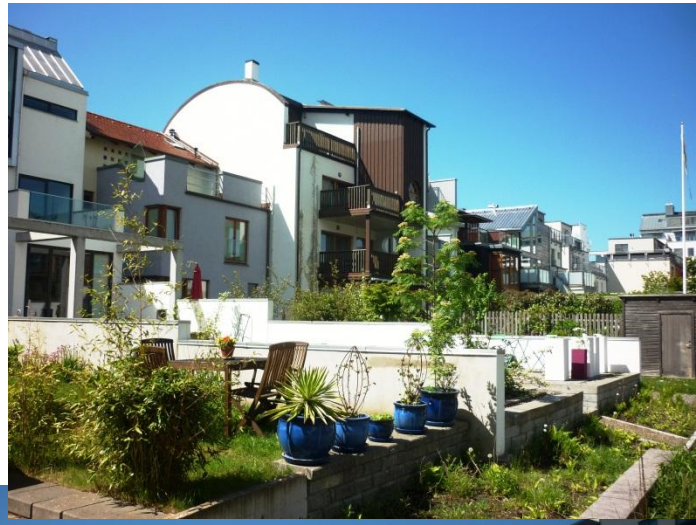
- **Western Harbour, Malmö**

The comprehensive planning approach has created a new area of Malmo in the Western Harbour which relies on **100 % locally renewable energy:**

- Sun, wind and water
- District heating linked to City DH system
- Minimised energy consumption



- **Integrated spatial planning & energy planning**

- Energy planning team integrated within the Planning Department of the municipality
- Environment Department = driving force in the Western Harbour, working groups combining all departments in the planning of the development

Germany:
Strengths and weaknesses

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Strengths

- Strong political structures – Federal and local government
- Culture – open, honest, consensus on renewables
- Local authority ownership of energy generation AND supply
- Social justice and inclusive strategies
- Several funding streams at local and Federal level

Weaknesses

- Policy not stronger
- Spatial planning not stronger

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Germany: Examples

- **Hamburg – Energy hill and Energy Bunker**

- The Energy Bunker and Energy Hill were excellent examples of how renewable energy had been positively planned for.
- The lead role of the municipality in Germany allows for much more integrated approaches with spatial planning.

- **Re-Municipalisation**

- Positive trend in Germany which helps to link spatial planning and energy planning.
- Allows more control for municipalities.
- Provides local economic benefits to the community.

LESSONS FROM GERMANY

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- Since 2007 about 170 municipalities have bought back the grid from private companies
- Over 50% total investment in renewable energy comes from private individuals and farmers
- 650 energy cooperatives
- New income streams for councils, eg Munich municipal 'Cities Utility' made profits over 200 million Euros in 2012

Hamburg Energy Hill

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From toxic waste dump to prime example of renewable energy generation

Images from IBA Hamburg and TCPA

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Wind power

Solar power

Biomass

Geothermal power

Methane gas

Hamburg Energy Bunker

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Former air raid bunker converted to hot water storage from renewable forms of energy.

Supplies district with renewable heat, while feeding renewable power into the Hamburg distribution grid.

England: Examples

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- **Low-Carbon Development Orders, Swindon**
  - LDOs to encourage renewable energy generation (PV)
  - Planners identify appropriate development sites for PV, grid connections and seek to collaborate with private developers to share the cost of substation upgrades
  - Providing solutions to local spatial challenges of where to put renewables in a growth town where 28% the municipality is designated as an AONB.

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7 STEPS TOWARDS A LOW CARBON FUTURE

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1. Political leadership
2. Economic and social opportunities
3. A new energy mix
4. Pivotal role of planning
5. Localised energy market
6. Tackling the existing stock
7. Building resilience

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THANK YOU

For more information: www.special-eu.org