1. // Policy, support schemes and financing

- Overall objective: Energy efficient urban development
  - The urban planner with little or no skills at all on energy and emissions can be a serious barrier for RES and EE implementation as all urban plans have consequences on the feasibility of various types of RES and EE measures.
  - The UP-RES Project addresses the need through implementing pilot training of urban planners to understand the requirements and opportunities of RES. The pilot training is underway in five countries and the training concept and materials will be translated into 10 languages and made available to other European planning schools to adopt similar training.

2. // Local energy (H&C) planning / data requirements

- Need for promotion and implementation of local energy concepts
  - Interaction of various stakeholders, and with urban planners in particular
  - Integration of cadastral and energy performance data
  - Application of energy demand mapping tools in urban planning
  - Agreement on one common indicator: i.e. CO2eq/inhabitant embracing all energy consumption (buildings, mobility, ….)
  - Integration of available local resources management (geothermal, solar, bio fuels, various waste sources (heat and cold) into regional and urban development plans

3.1 // Capacity building in local authorities – what is needed?

- Mechanisms to promote a common approach in urban planning issues to overcome the actual decision making process within the municipalities that does not support an interaction between the different departments / competences.
- Motivation of decision makers and actors in public institutions to go for demonstration projects on the public level.
- Mechanisms to involve the citizens (as stakeholders but also possible investors in decentralized energy generation schemes)
- Focus on district level as most feasible unit (in order to meet 20-20-20 commitments in the existing tight time schedule)

3.2 // Capacity building in local authorities – interaction on European level due to different needs

<table>
<thead>
<tr>
<th>Market penetration*</th>
<th>Initial</th>
<th>Scarce</th>
<th>Dense</th>
<th>Established</th>
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<tr>
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<td>UK</td>
<td>HU, ES</td>
<td>DE</td>
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<td>Waste heat</td>
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<td>District cooling</td>
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<td>HU</td>
<td>DE</td>
<td>FI</td>
</tr>
</tbody>
</table>

* classification just exemplary
3.3 // Capacity building in local authorities

- different levels of training for different purposes / stakeholders

Need to prepare:

- Lots – especially from public bodies (prescribers) – to get general knowledge
- Some private urban planners to attend public tenders prescribed by public bodies
- A few private urban specialists to give support to urban generalists

Private experts

- Few students
- Large duration

Knowledge to be provided

- Equivalent to duration and cost of training

Nº of people to be trained

Public bodies

- General knowledge
- Advanced knowledge

Private planners

- More students
- Medium duration
- More knowledge

General knowledge

• different levels of training for different purposes / stakeholders

Knowledge to be provided, equivalent to duration and cost of training

Nº of people to be trained