

Integrative energy planning of urban areas: Collective learning for improved governance



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This project has received funding from the *European Union's Horizon 2020 research and innovation programme* under grant agreement No 649883.

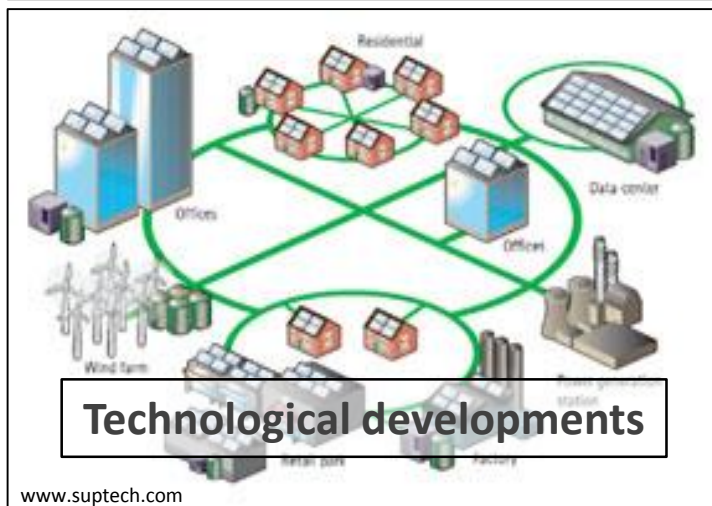
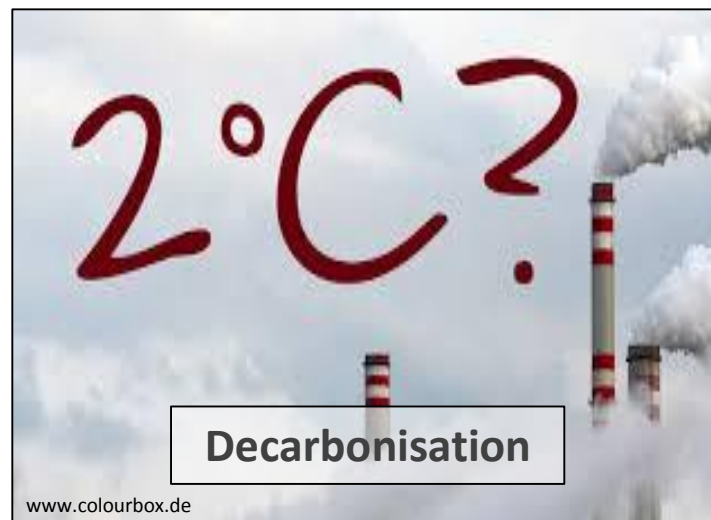
- Starting point
- Project agenda
- Findings & lessons learnt

Who are we ,URBAN LEARNERS'?

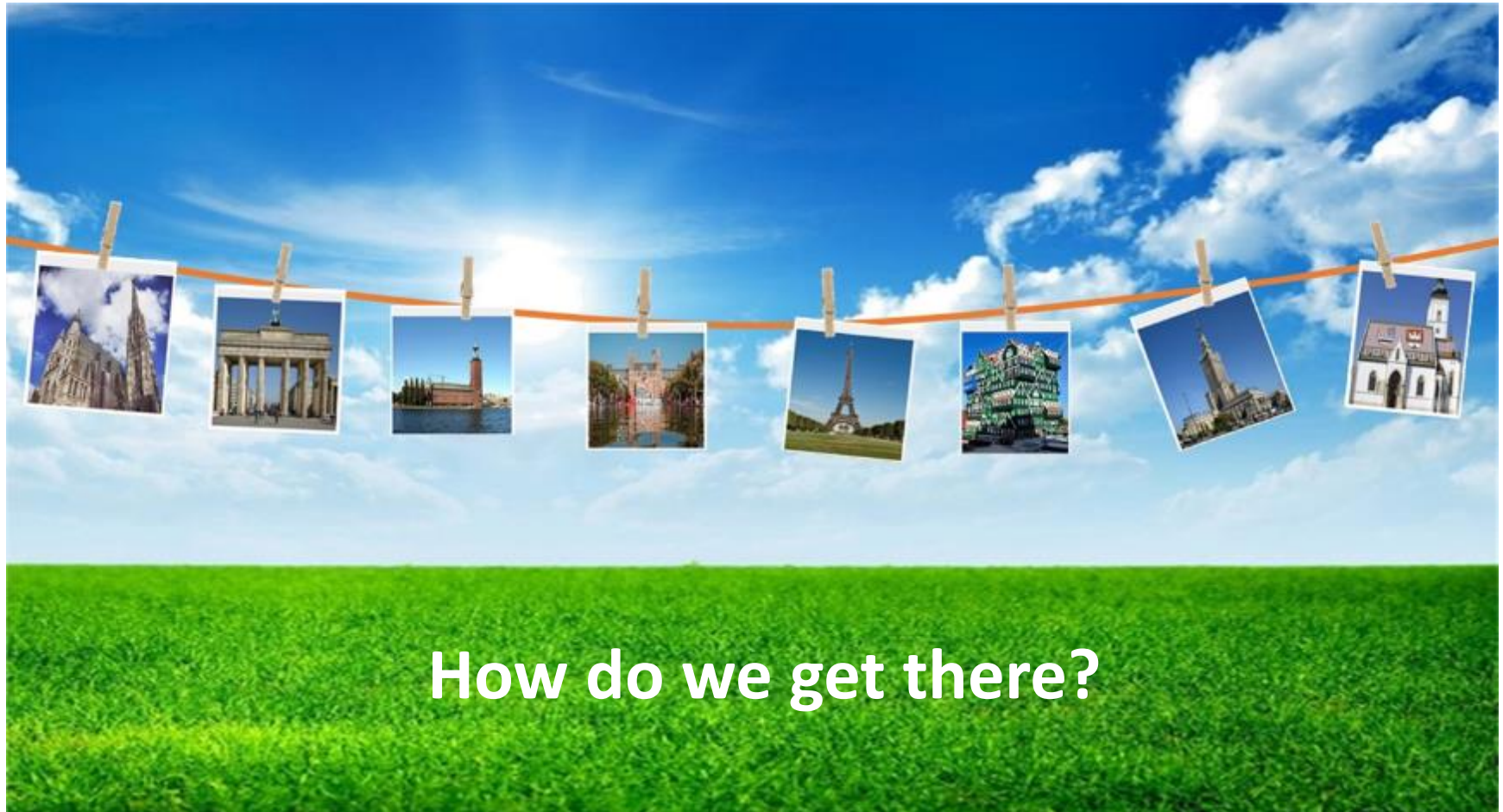
- 8 cities, mainly capitals
 - urban planning departments
 - energy (planning) departments
- partly with facilitating agencies
- 11 partners, 33 months, 1.8 mio €



Starting point



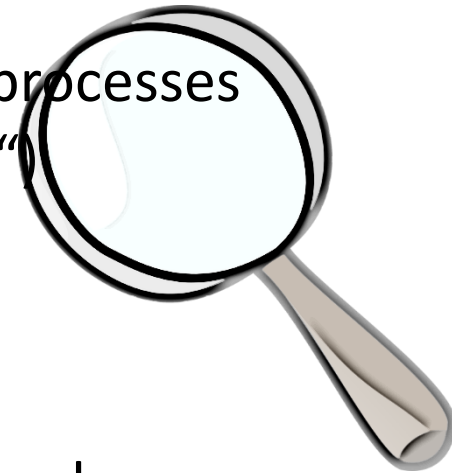
Need for integration of energy and urban (spatial) planning



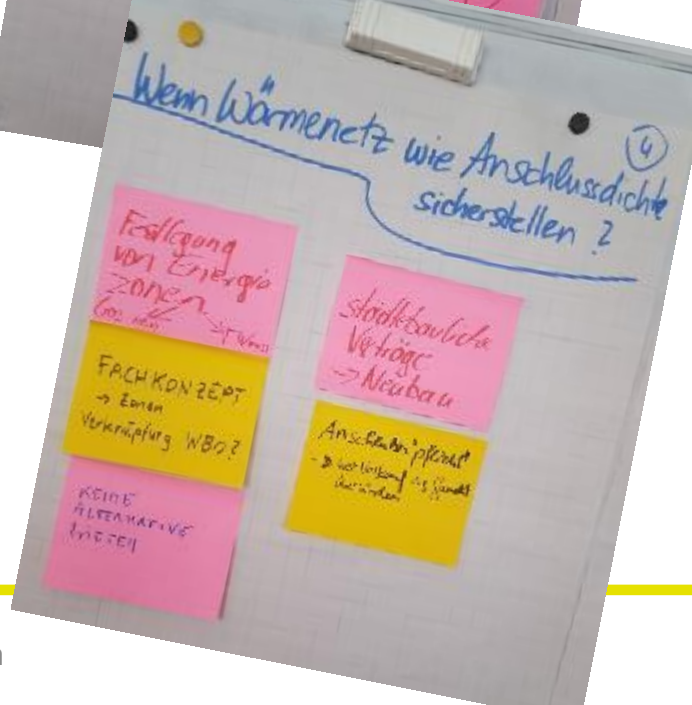
How do we get there?

URBAN LEARNING: approach & elements

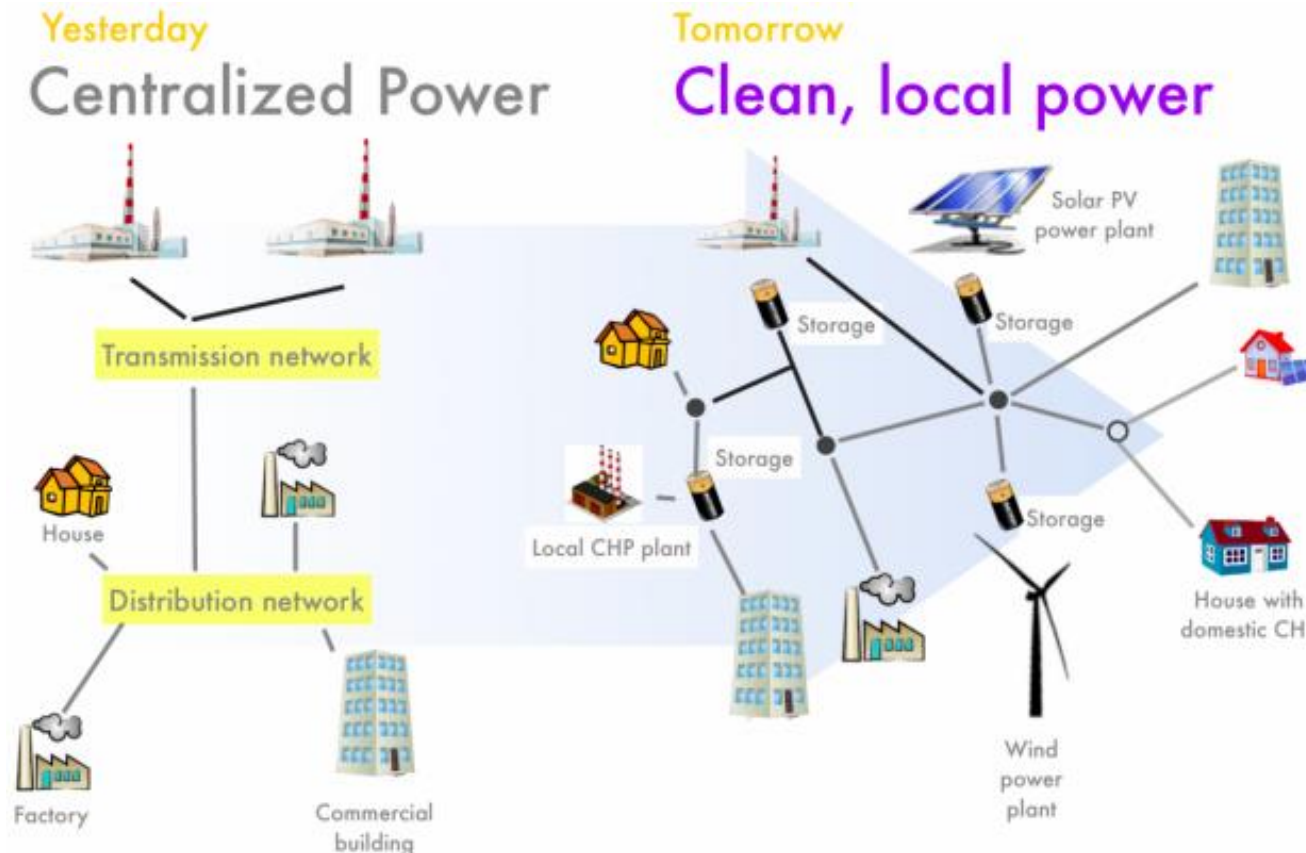
- A local working group for exchange and learning
 - between departments, with utilities & other stakeholders
- In-depth analysis of the current urban planning processes and related framework conditions („governance“)
 - + Instruments and tools in use
 - + Actors involved
 - + Low-carbon supply options available
- Proposals for upgrading the planning processes and frameworks to better include energy aspects
- Exchange between participating cities
- Share gained insights with other cities



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New low-carbon supply options



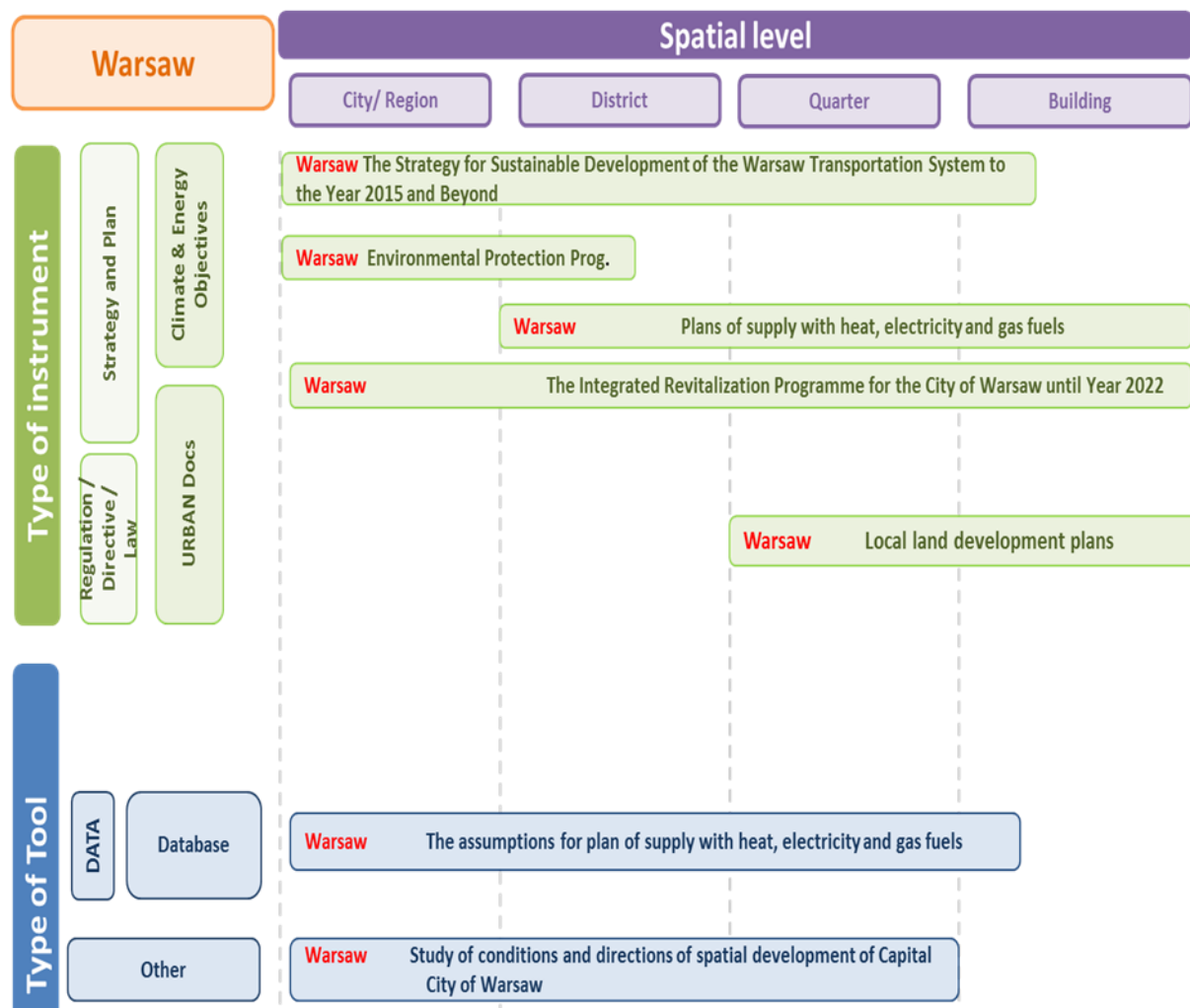
**RES and waste
heat on-site?**

**Grid or
No grid ?**

**↓
Implications for
urban planning
?**

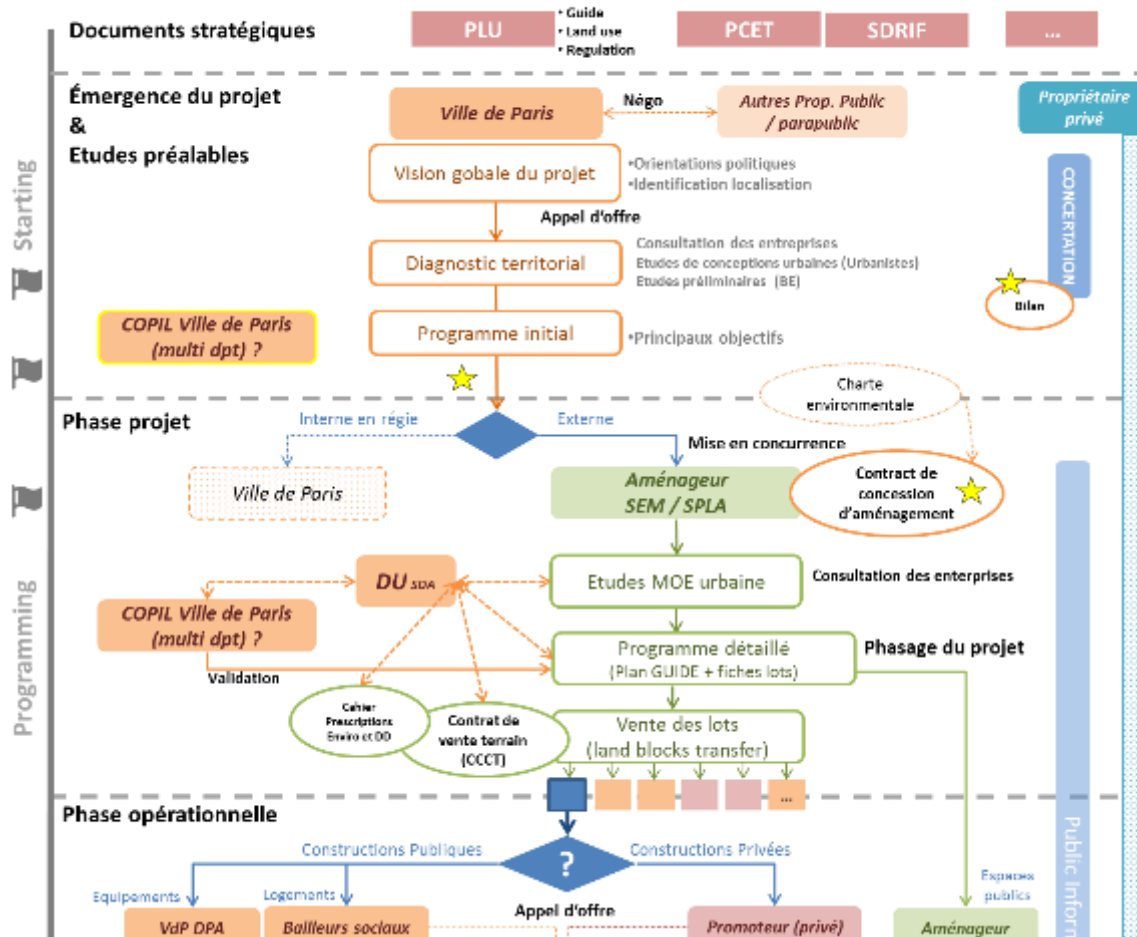
Picture from cleantechnica.com

Mapping instruments and tools



Analysis of urban planning processes

PARIS: PROCÉDURE D'AMÉNAGEMENT URBAIN



BLUEPRINT PARIS

STRATEGIE

1. Élaborer une stratégie à l'échelle de la ville pour le développement des réseaux d'énergies

COMITE ENERGIE

2. Mettre en place et maintenir actif un comité spécial pour débattre des questions d'énergie

CONTRAT

3. Travailler sur l'engagement et les objectifs dans le contrat de concession d'aménagement

EVALUATION SUIVI

4. Travailler sur les retours des quartiers labellisés Ecoquartiers pour fixer des critères / données / processus d'évaluation

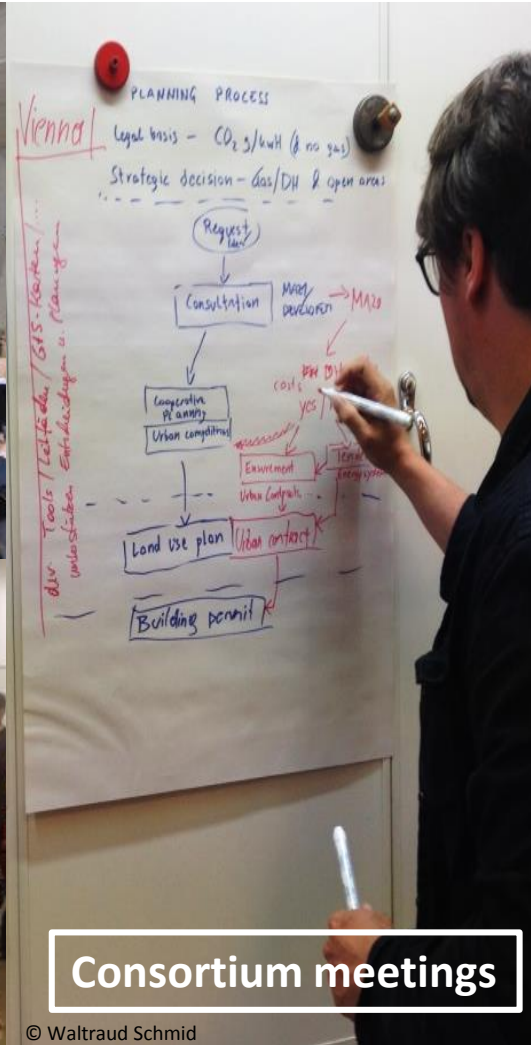
Learning from each other



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Learning from each other



Site visits
&
Study tours



Key findings

1. Context counts (immensely)
 - without a clear legal base for energy planning as such and as part of urban/spatial planning the integration of energy and urban planning does not work
 - a long-term decarbonisation strategy is big supporter
 - clear responsibilities + resources for energy planning are key
2. We need data for sound long-term (spatial) energy planning (GIS).
3. The early planning phase is crucial for energy (supply) planning of urban areas.
4. The quarter level lacks actors and instruments.
5. Qualities get lost throughout the planning process.
6. Monitoring is often not important but should be.

Key findings

7. More awareness is required about need for public energy planning competences (in city administrations and beyond)
8. Good understanding of planning processes and its framework is crucial but not trivial
9. Energy as cross-sector topic needs interdepartmental collaboration within administrations
 - Local working groups as pioneers
10. Dialogue is key - between city and energy system operators, energy suppliers, developers and planners, ...

Good practice examples

Legal framework:

- Berlin: Energiewendegesetz
- Paris: Energy transition law with requirement for energy planning

Strategic framework:

- Amsterdam: No Gas Strategy
- Fossil-free Stockholm

Organisation:

- Vienna: Department for energy planning

Planning process:

- Paris: stringent follow-up through process
- Stockholm: monitoring requirements
- Zaanstad: urban contracts with energy requirements
- Amsterdam: heating plan, energy atlas

Deliverables

Governance processes

- Scheme and analysis per city
- City comparison
- Simplified scheme
- Proposed up-graded processes & implementation plans per city

Instruments & tools used

- Mapped and assessed per city
- City comparison
- Good practice collection

Innovative supply systems

- Examples from each city
- Reports from study tours

Implementation started



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Discussing the findings of URBAN LEARNING with Vienna's Vice-Mayor Maria Vassilakou

Next steps

- Sharpen our findings and messages
- Continue to initiate implementation in our cities
- Share findings with other cities
- Final event in Vienna on 17 October 2017

Thank you!

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