

GAME
CEJU CIRTA
FNAU
IRSTV
LAVUE
LIENSs
LISST
LRA



Ce travail a bénéficié d'une aide de l'Agence Nationale de la Recherche portant la référence ANR-13-VBDU-0004-06



The Integration of urban climate issues in urban planning practices: reflections on the keys to success

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MApUCE: Applied Modeling and Urban Planning Law : Urban Climate & Energy
 Which you can find out more about today in room spot at half past four

1 . GAME
 Modélisation,
 climat urbain et
 énergie du bâti



2 . LIEU
 Droit de
 l'urbanisme



3 . FNAU
 Réseau
 d'agences
 d'urbanisme



4 . IRSTV
 Traitement de
 données
 géographiques



5 . LAVUE
 Processus
 d'urbanisation
 Comportements
 énergétiques



6 . LIENSs
 Analyse spatiale
 et statistique de
 données



7 . LISST
 Dynamique de
 territoires et
 politiques
 urbaines



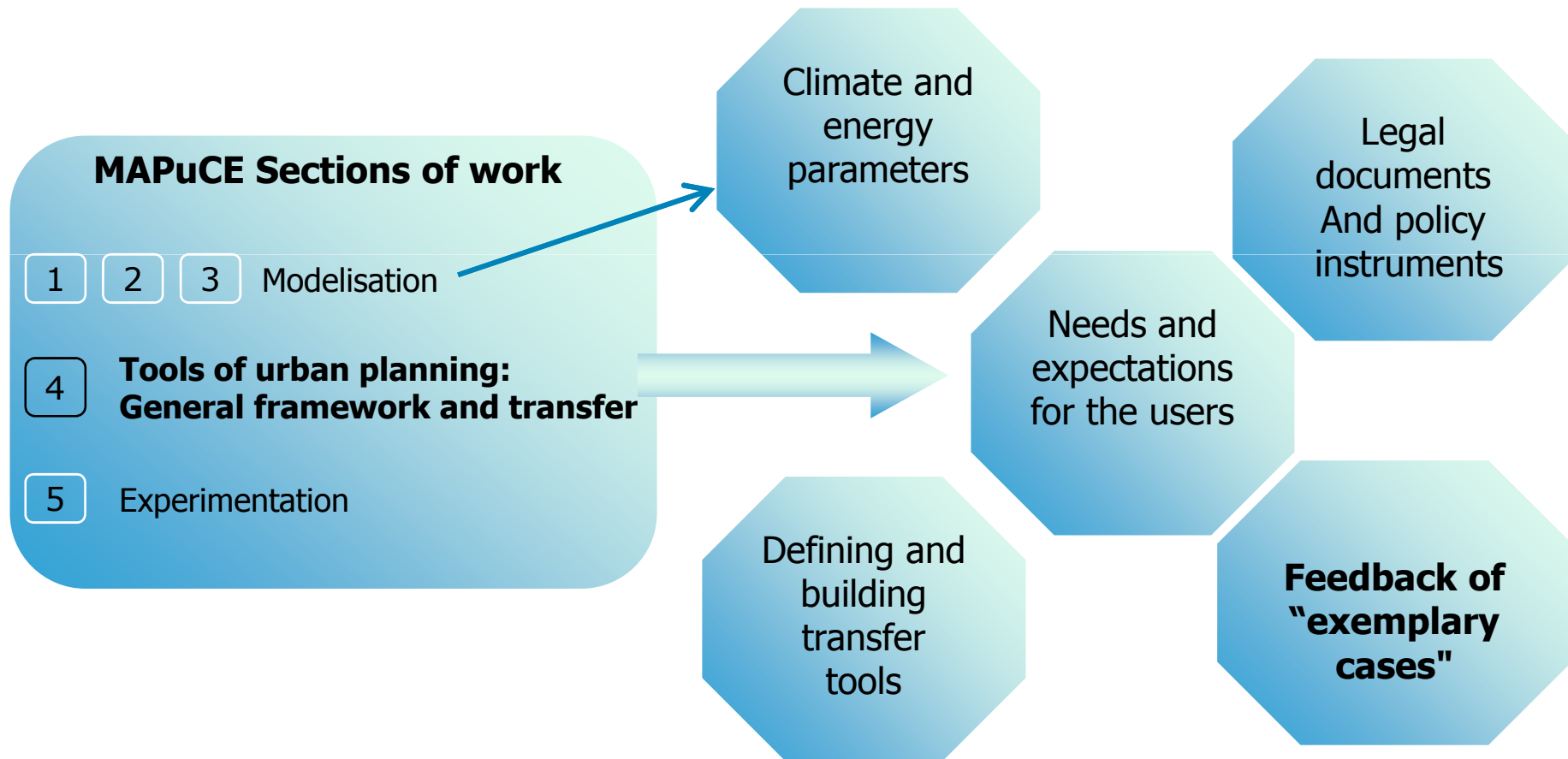
8 . LRA
 Morphologie
 urbaine,
 architecture



PLAN

1. **Our work in the context of the MAPUCE research project**
2. **The objective**
3. **Methodology**
4. **The initial results**
5. **Illustration with the Paris case study**

Our work in the context of the MAPuCE research project



THE OBJECTIVE

The objective is to analyze the levers and obstacles for the transfer from climatic information/knowledge to urban design and town planning practices.

How can we have success with this type of transfer?

The corpus construction and the criteria for selection

Panel of case studies in France and abroad



**Cities or urban
projects
have tried to integrate
the knowledge of climate**

- Documentary sources
Scientific bibliography
 1. Sustainable cities
 2. Urban Climate comfort
 3. Urban Heat island
 4. Climate maps
- Grey Literature
- Exploration websites
- **Interview with experts**

The corpus construction and the criteria for selection

- Northern and southern cities
- Close behind implementing climate polices



- Chose the pioneers in world
- Focused in the European cases



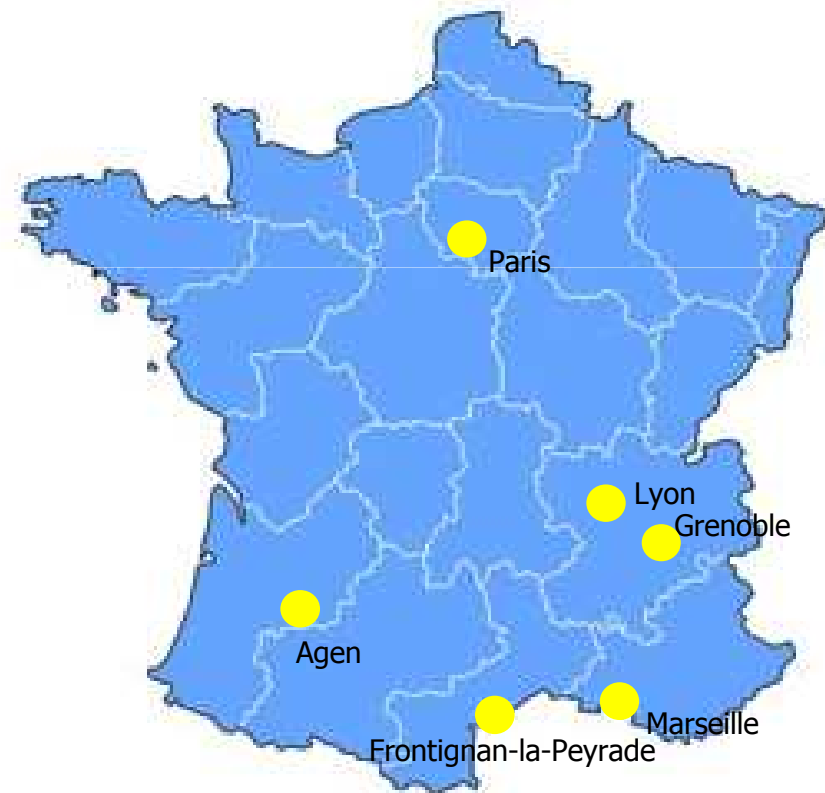
The corpus construction and the criteria for selection

IN FRANCE

Different scales of cities,

Three categories of experiences identified integrating the climate

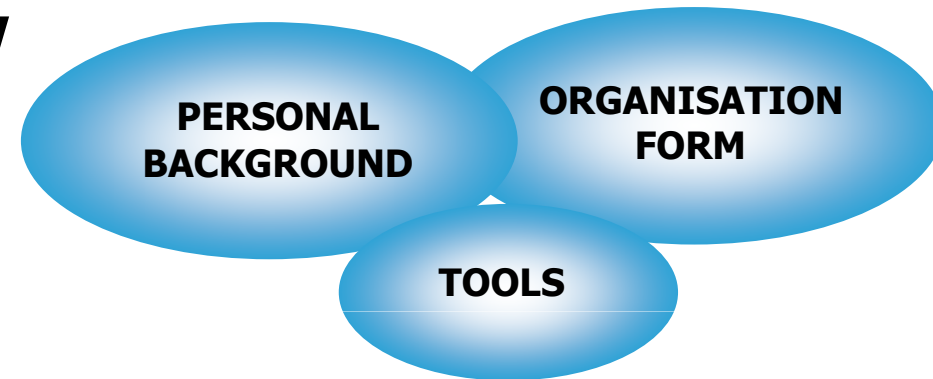
1. implementation at the urban politics level through planning documents
2. implementation at the operational level (operations of urban spaces)
3. the development of dedicated agencies and transfer tools (climatic maps or atlases).



Methodology

Semi-structured interview

- climate worker
- city planner



In each case we analysed:

- Practices,
- The working methods used,
- The productions
- The tools used
- **The role and the level of implication of the actors involved**

The initial results

Implementation Stages

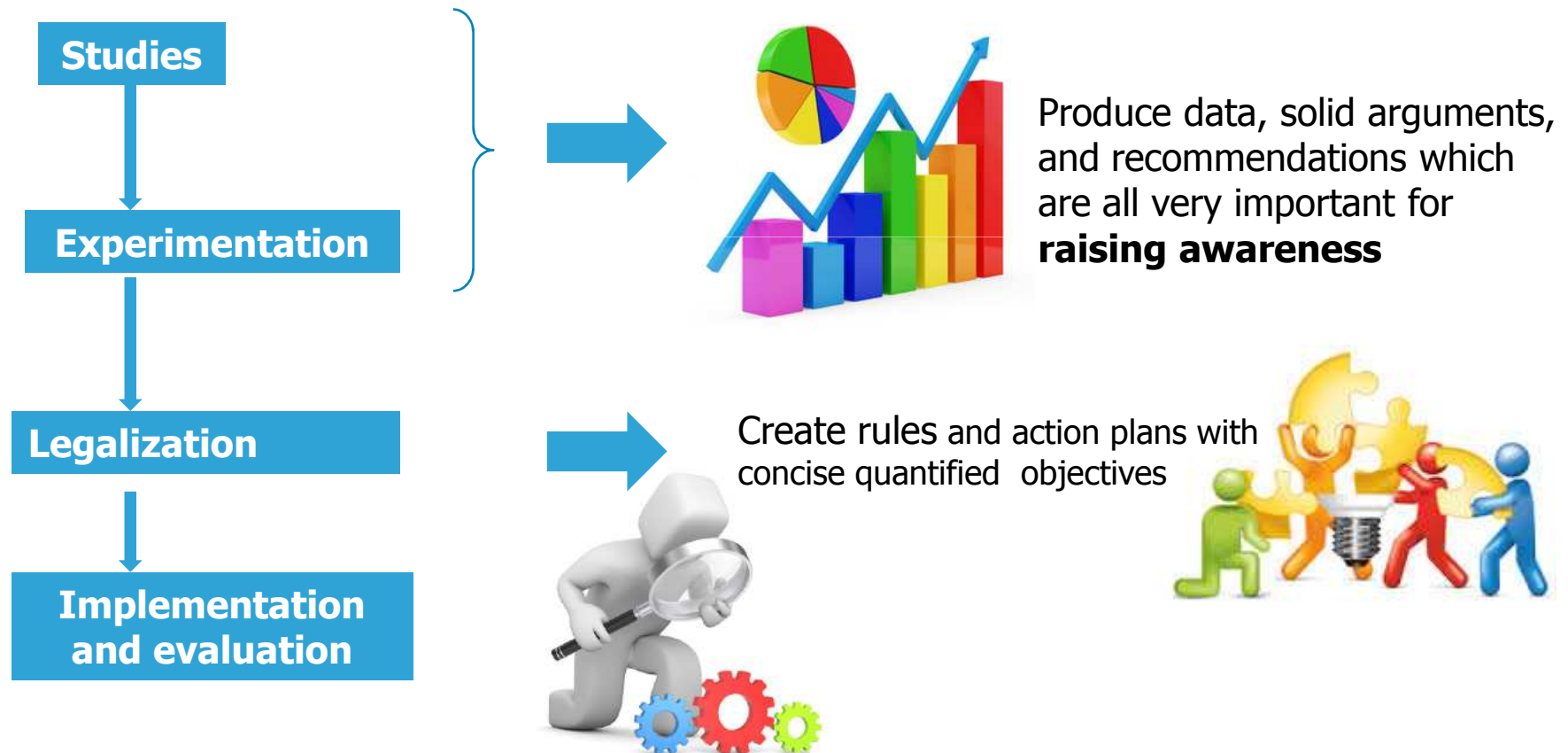
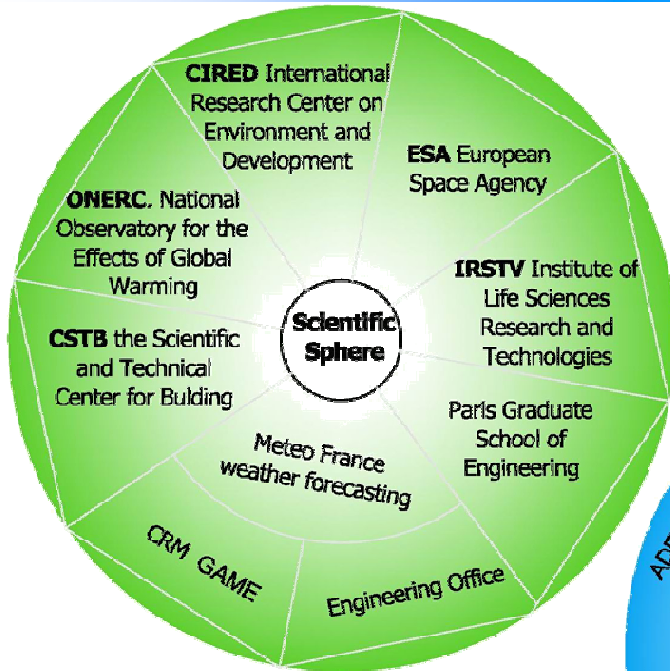


Illustration with the Paris case study



Main actors in the three different spheres

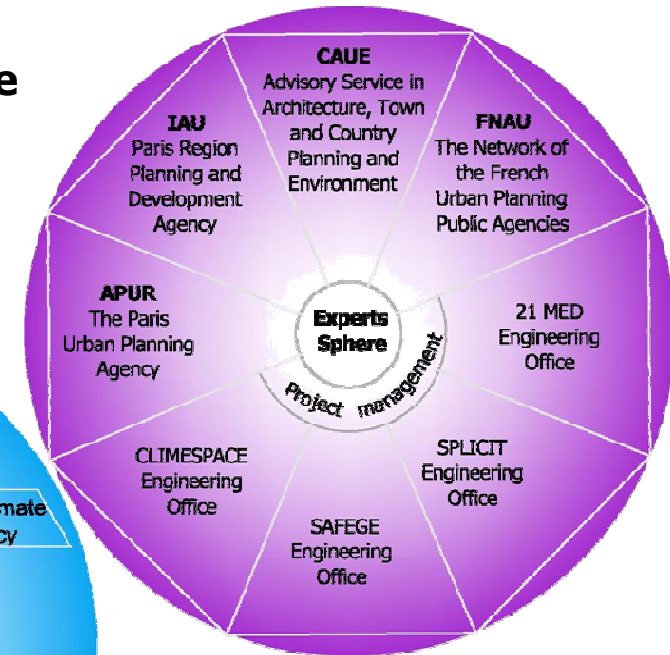
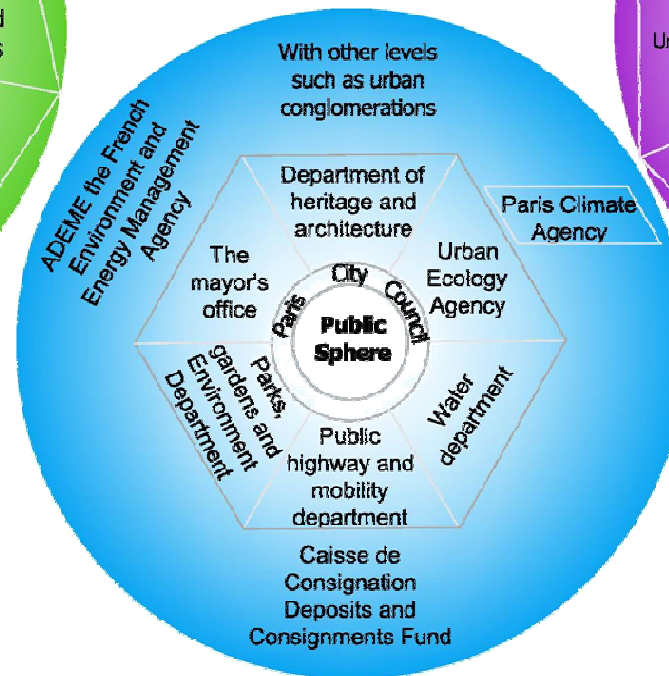
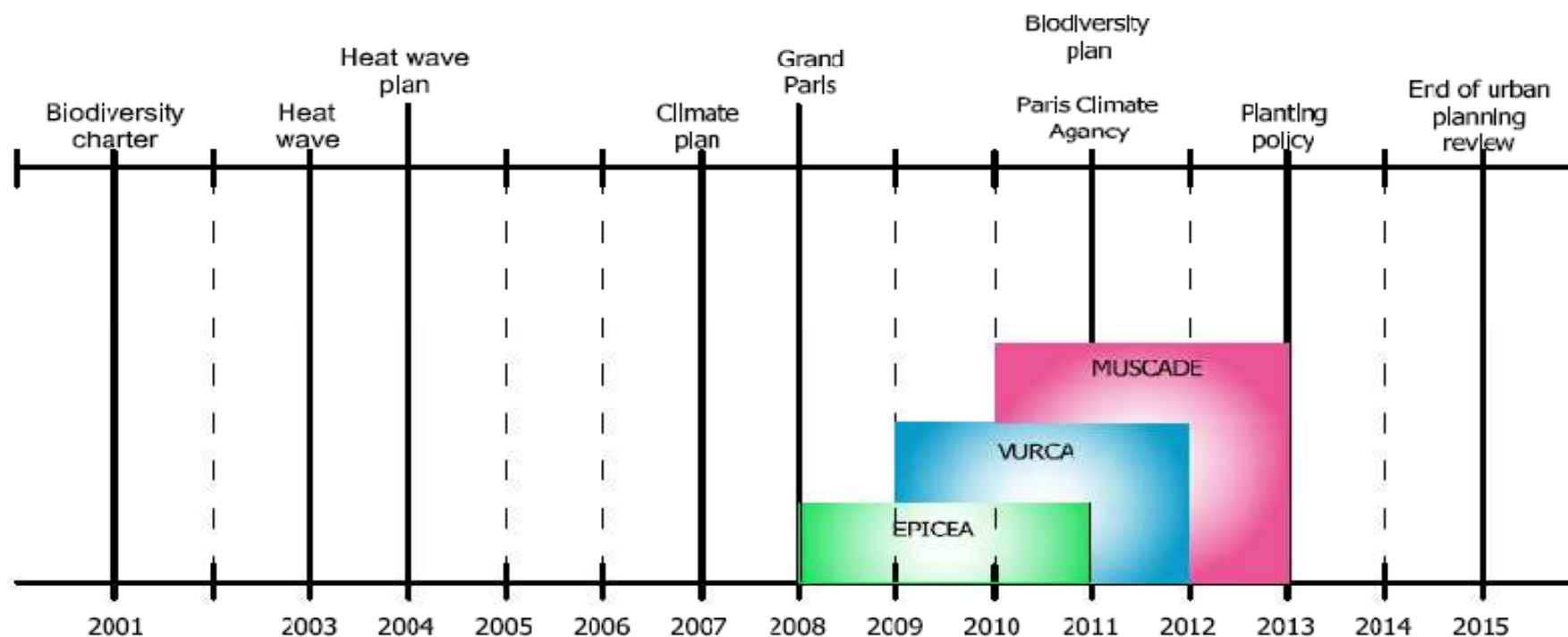


Illustration with the Paris case study



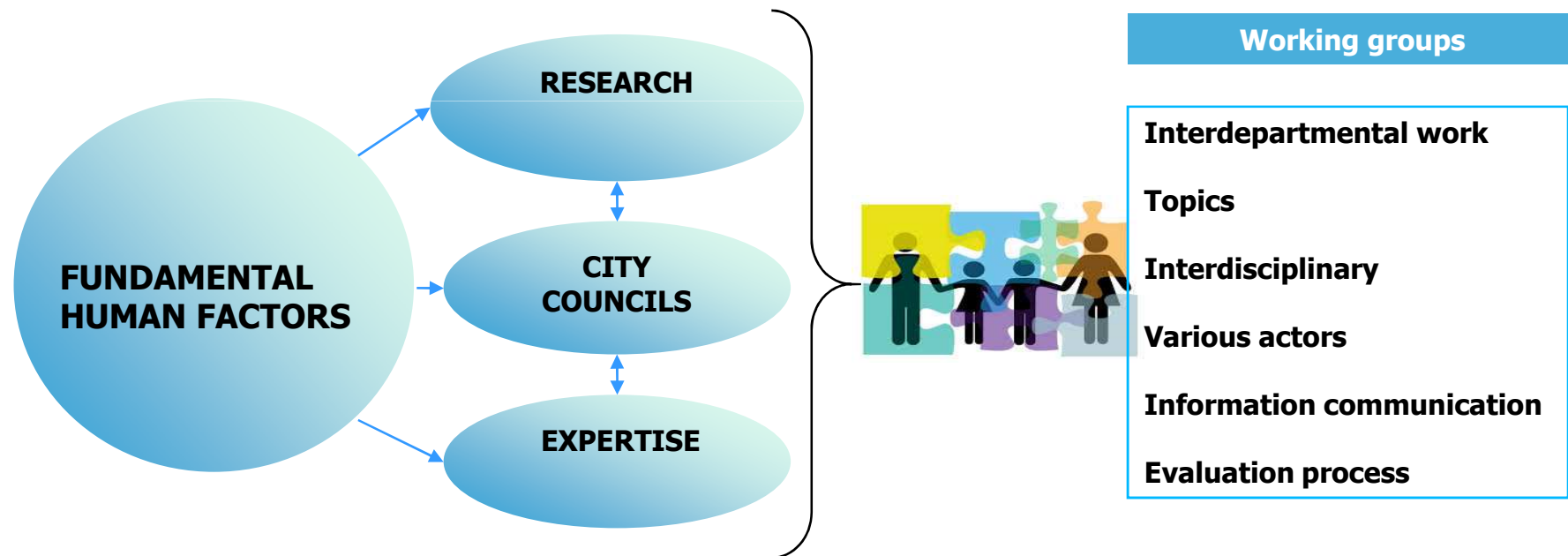
EPICEA: Study on the extreme situation of the 2003 heat wave and the relationship between characteristics of urban milieu and climate

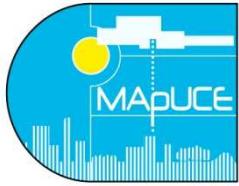
VURCA: Evaluation of the vulnerability of urban space during a heat wave in terms of thermal comfort loss and its impact on energy demands.

MUSCADE: Urban modelling and adaptation strategies for climate change to anticipate demand for energy production

GENERAL CONCLUSION

Achieving consideration of climate in town planning





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