

0268 - InSmart: Towards the New DSO Potential Roles in Low Carbon Future and Integrated Frameworks for Smart Cities

Vera Nunes EDP Distribuição Portugal Vera.nunes@edp.pt

João Pedro Gouveia CENSE, FCT – Nova Portugal jplg@fct.unl.pt

Ana M. Rodrigues EDP Distribuição – Portugal

EDP Distribuição -Portugal

Anamargarida.rodrigues@edp.pt

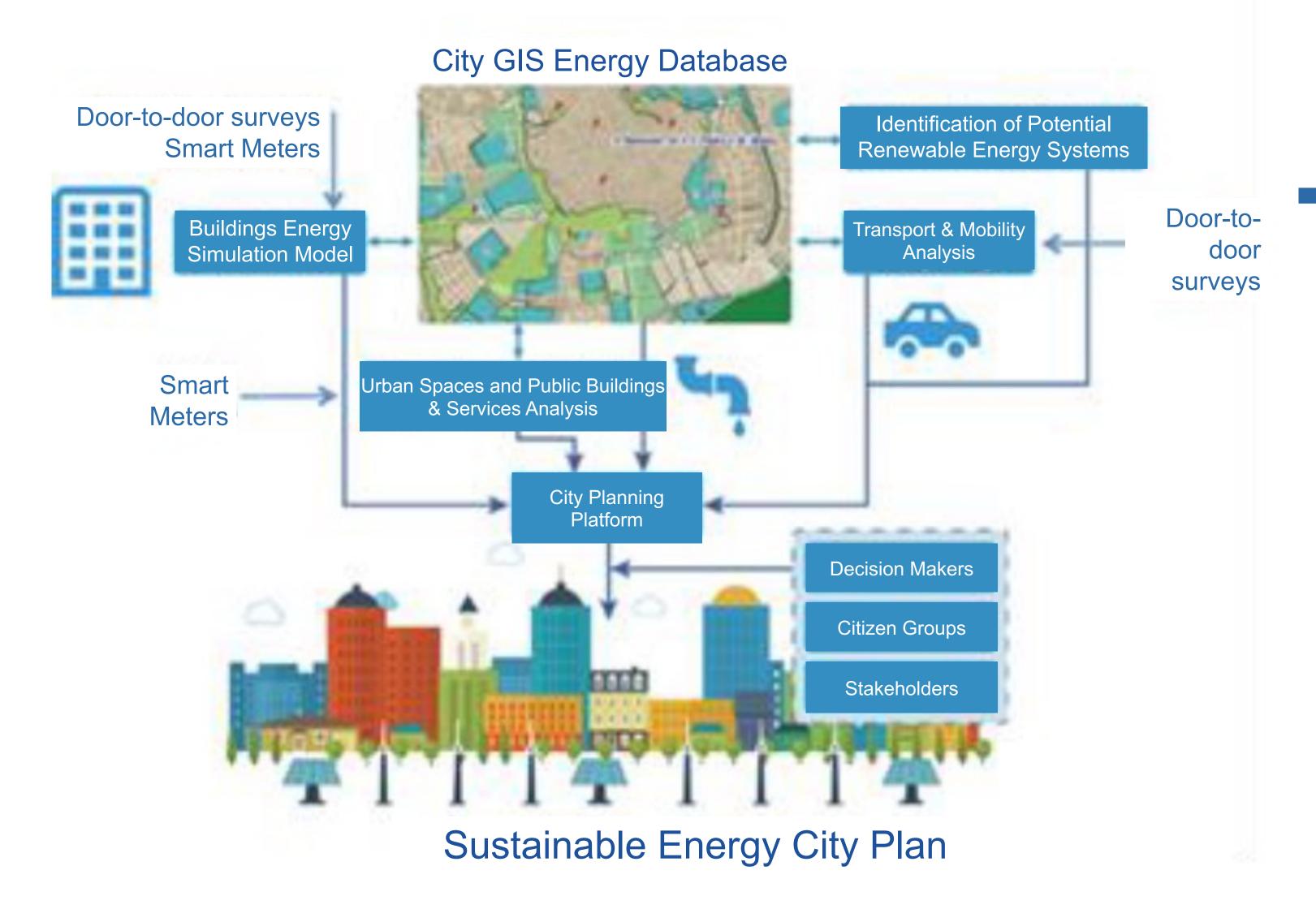
Tiagofilipe.simao@edp.pt

Tiago Simão

Introduction

Conclusion

- Integrated framework of the DSO with the smart cities of the future
- Cities represent 75% of EU energy consumption and CO2 emissions
- Identification of measures to meet smart city sustainability targets



Methodological process



From solar energy potential to DSO grid integration



From consumer segmentation to demand management



Customer relationship manager

Mid-term implementation plan







Public Lighting: 100 % LED technology



Credit schemes for building renovation (microgeneration) reviewed by city council



- Bike lanes infrastructure expansion
- Restriction of traffic (speed, circulation)
- Decarbonisation of bus fleet

- InSmart project results provided key inputs for the 2030 Implementation plans
- DSO as data manager and market facilitator enabler of smarter cities of the future
- Low carbon future smart cites will rely on DSOs' capacity to orchestrate diverse energy resources