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Overcoming technological barriers to implement PAYT tariffs in Portugal

The contribution of the LIFE PAYT project



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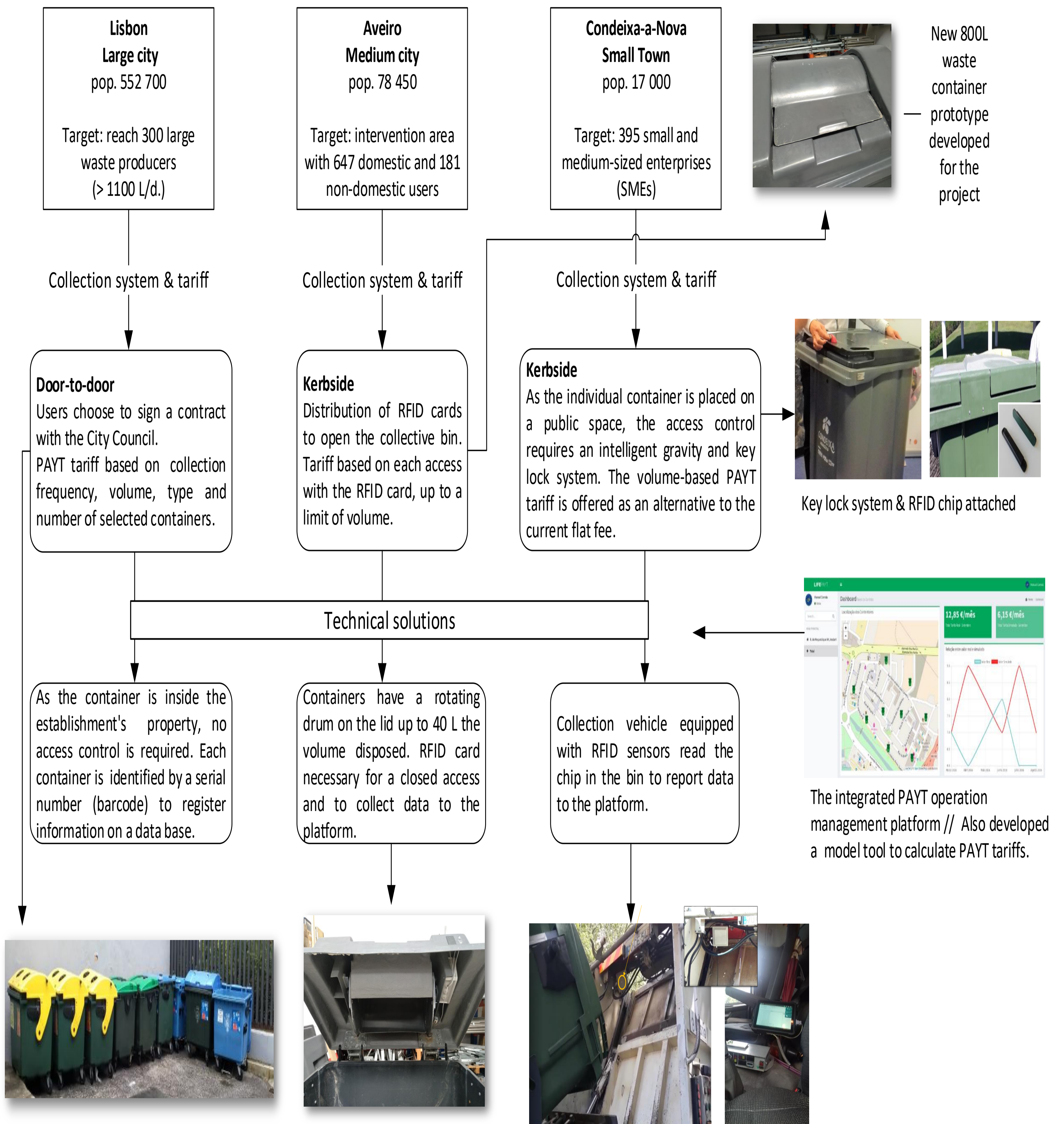
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Introduction

The introduction of **PAYT** (Pay-as-you-throw) tariffs faces technical complexity in Portugal. **LIFE PAYT** is a LIFE Environment Project, co-funded by the European Commission, aims to test the viability of PAYT tariffs in three Portuguese municipalities, one in Greece and another in Cyprus, considering each context to choose their own technological approach.

The existing commercial solutions for access-controlled waste containers adequate to PAYT are quite expensive, making difficult the wide-spread of such solutions. However, as the national market lacks necessary solutions, the priority is to cooperate with the companies to develop smart waste management field solutions adapted to the PAYT system requirements.

New low-cost market solutions need to be put forward, and three different container prototypes with RFID technology are being developed and field-tested by the LIFE PAYT project with 3 different approaches and target audiences.



Conclusion

- Technological solutions for PAYT schemes have been selected and are being tested at different demonstrations sites.
- Kerbside as an anonymous system requires a lock access control system (RFID card access in Aveiro; smart-key and RFID chip in Condeixa-a-Nova), while in Lisbon each container is identified by the barcode.
- The adapted waste collection vehicles are equipped with sensors to read the barcode or RFID chip and to transfer the data to the platform.
- The project developed a model tool to calculate PAYT tariffs according to variables, so that it could be replicated to any municipality willing to test it.

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