European Energy Network

A voluntary network of European energy agencies

Miguel de Castro Neto

President of Lisboa E-Nova

Lisbon Environment and Energy Agency

Lisbon, Portugal

Panel 2 | Challenges at Local Level

Promoting energy and water use reduction at national and local levels | Lisbon, June 8 2022

Promoting energy and water use reduction at national and local levels

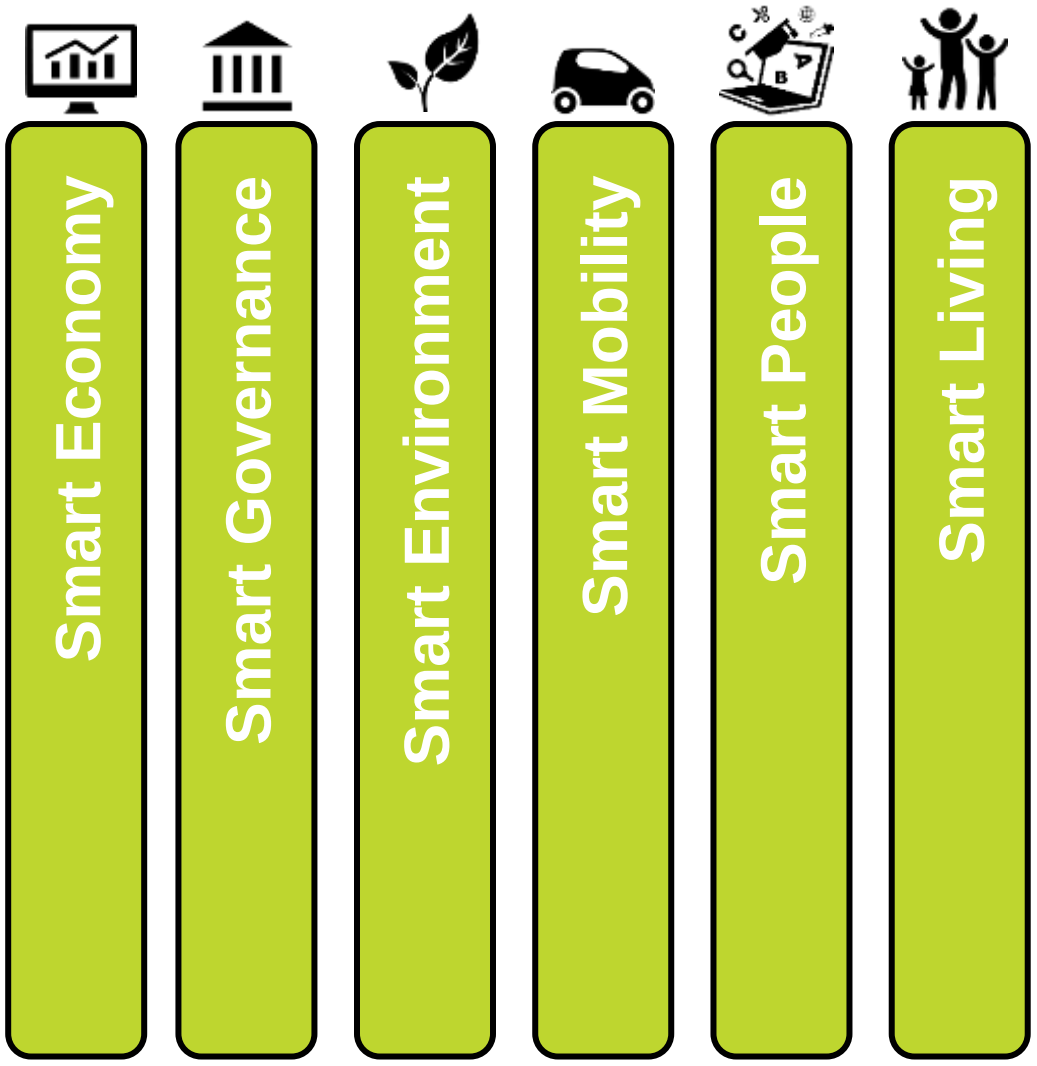
Lisbon, 8th June 2022

Smart Sustainable Cities in Portugal

Miguel de Castro Neto

LISBOA e·nova
AGÊNCIA DE ENERGIA E AMBIENTE DE LISBOA

Cluster 1. Digital Transformation



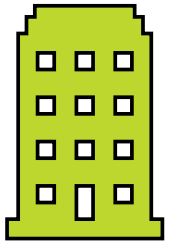
Cluster 2.
“Vertical” approach

Vertical Organizational Model

IMPACTS

Source: IDC

Smart Buildings

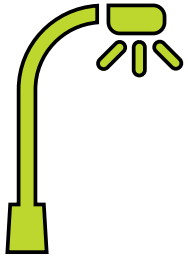


ROI in less than 6 months

Smart Waste Collection

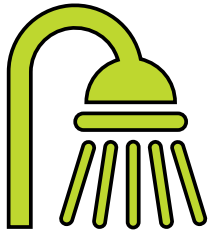
40 - 80% of cost reduction

LED + Smart Lighting



50% reduction (ROI in 6 years)

Smart Water Management



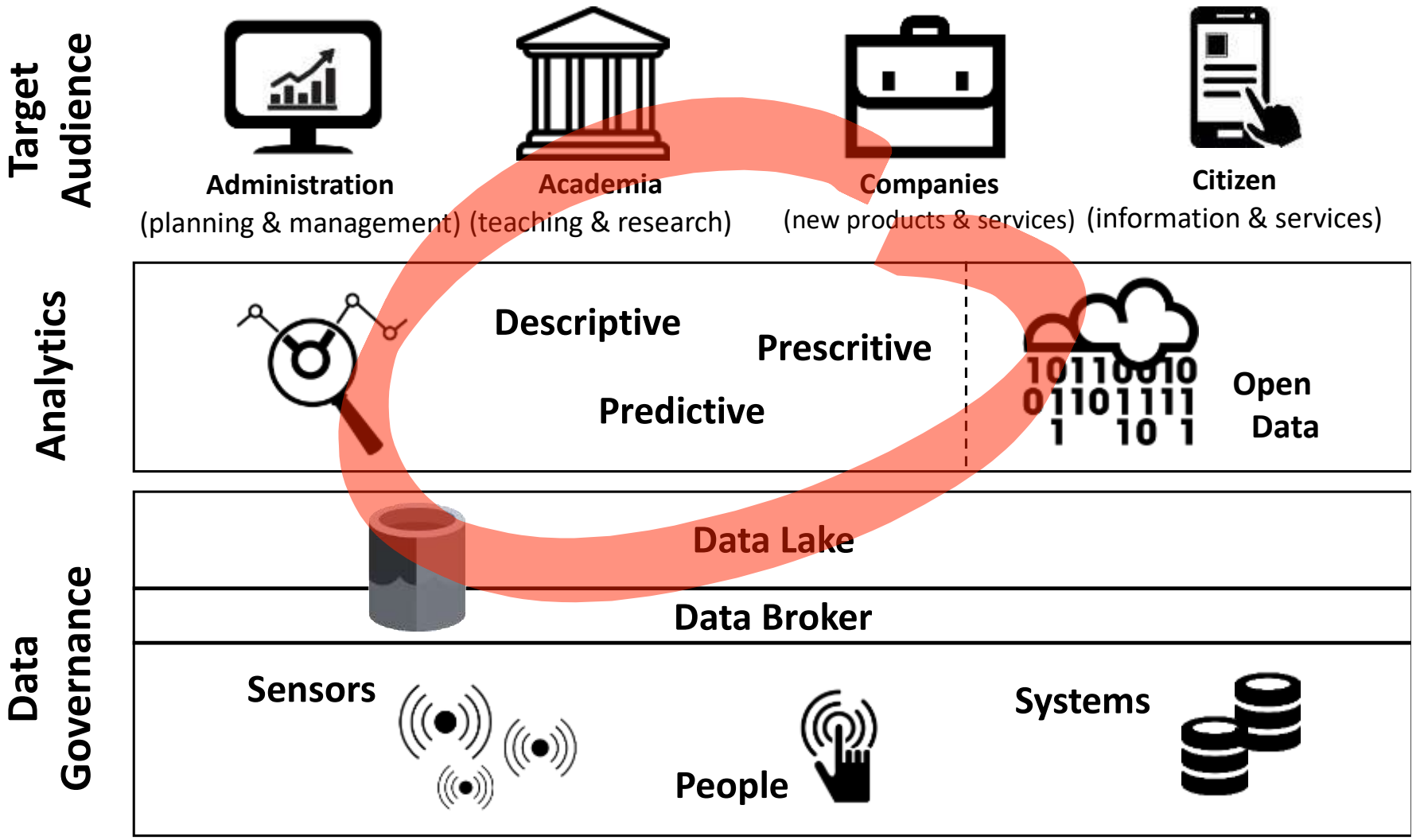
40% reduction of water losses

Smart Parking

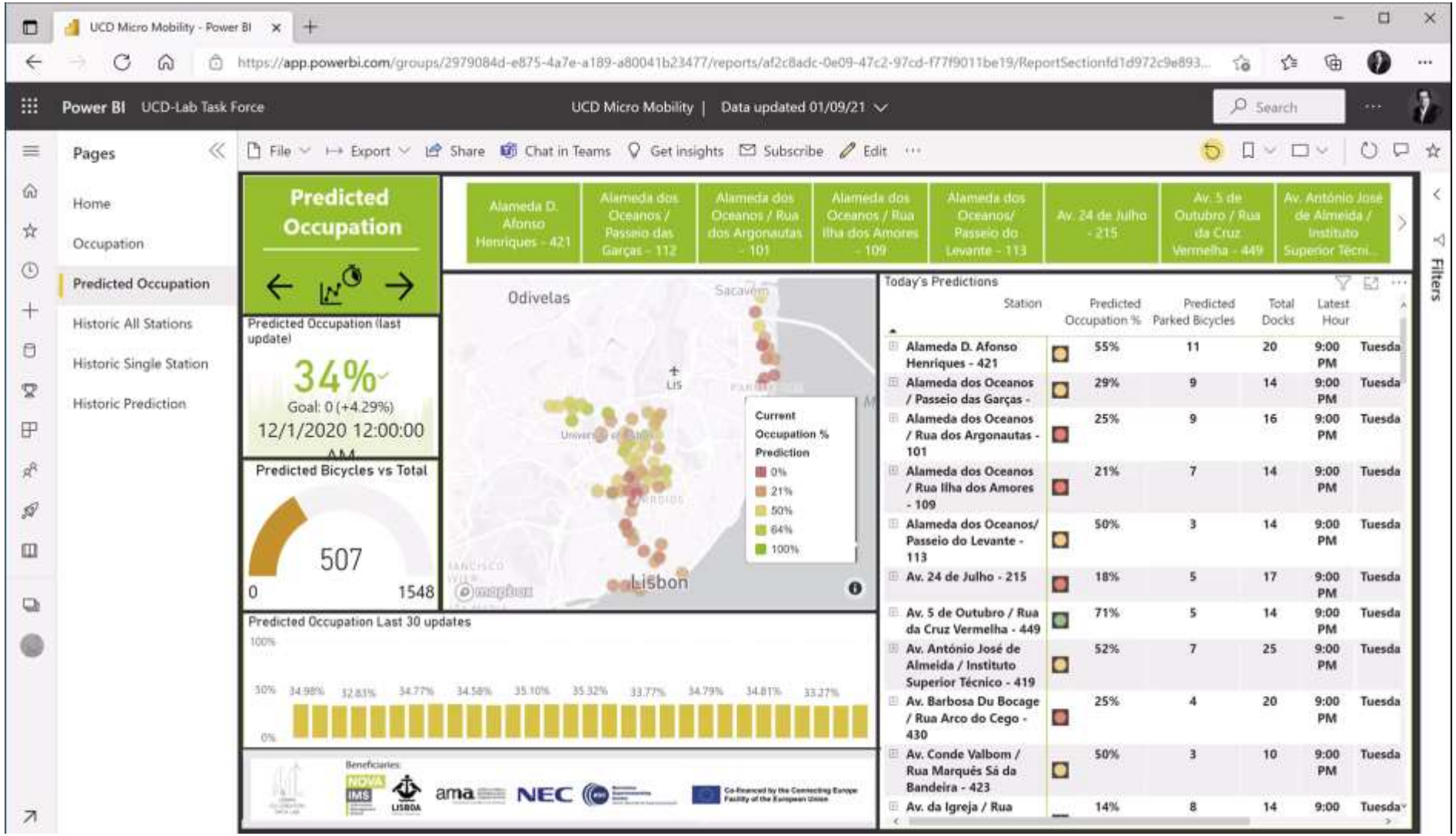
20-30% cost reduction (ROI in 2 years)

Custer 3.

City as a Plataform



URBAN
CO-CREATION
DATA LAB



3
4
5
6

Digital Twins

https://buildmedia.com/work/wellington-digital-twin

hub™ CrIativo BEato®

LIVINGLAB

Iceland Liechtenstein Norway grants

HCB Living Lab Structure

Living Lab co-design and configuration

Community activation and urban transformation

Clean Technologies Acceleration Program

Smart Energy Communities

Smart Street Lighting

Urban Agriculture

Beato BioBus

Circular Food System

HCB i-Management Plataform

HCB Sensing and Charging

HCB Data Laboratory

Monitoring and Evaluation

Energy

Buildings

Mobility

Circular Economy and Environment

Thank you for your attention

miguelneto@lisboaenova.org

Thank you!

This presentation was part of the
European Energy Network Seminar

Promoting energy and water use reduction at national and local levels

Lisbon, June 8 2022

enr.presidency@adene.pt

@EnR_Network

LinkedIn

Youtube