O QUE É UMA SMART CITY?
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(Existem centenas de definições e estratégias)

A Smart City might be described as one that...

• ...dramatically increases the pace at which it improves its sustainability and resilience,
• ...by fundamentally improving how it engages society, how it applies collaborative leadership methods, how it works across disciplines and city systems, and how it uses data and integrated technologies,
• ...in order to transform services and quality of life for those in and involved with the city (residents, businesses, visitors)

(ISO ‘Working Definition’, adoptada na Lighthouse city proposal)
O QUE É UMA SMART CITY?
UMA PROPOSTA DE ORGANIZAÇÃO DE PROJECTOS ESTRATÉGICOS

REVOLUÇÃO DIGITAL

TRANSIÇÃO ENERGÉTICA

PESSOAS

PARTICIPAÇÃO & CO-CRIAÇÃO

MOBILIDADE SUSTENTÁVEL
Big Data the “New Electricity” for Smart Cities
Where do adults taking the bus from Woodlands go to at 6 am on weekdays?
540 EV Charging Points
Energy Efficient eMobility Districts
EV Car Sharing
eBikes
EV Logistics
Ecossistemas e Clusters
‘I see Bristol as a laboratory for urban change.’
Mayor George Ferguson

BRISTOL OPEN

• We need: a massive amount of connectivity
• Flexible, programmable infrastructure for internet of things
South Korea offers 1Gb connection rate to consumers

The fastest consumer rate in the UK is 152Mb
Connectivity for R&D partners

>30Gb/s of connectivity
For Bristol Is Open R&D Partners
SOFTWARE DEFINED NETWORK
CITY OPERATING SYSTEM

DATA PRE-PROCESSING SERVICES

PLATFORM VIRTUALIZATION/SLICING

INFORMATION MODELS

DATA COLLECTION ENGINE

CITY NETWORK(S)

gw/drv

gw/drv

gw/drv

gw/drv

gw/drv

gw/drv

gw/drv

gw/drv

MULTIPLE SENSORS/PLATFORMS & HARDWARE

OpenStack, etc.

Sync
Async

SDN controller

CityOS kernel
£15M PUBLIC RESEARCH FUNDS
CARTA SOLAR
DE LISBOA
Helping cities around the world become more resilient to the physical, social, and economic challenges that are a growing part of the 21st century.
Lisboa, Western Europe’s oldest city, is a major economic center for both Portugal and the rest of the continent. However, many of the city’s buildings are centuries old, and infrastructure is likewise aging. Though the city has strong technical expertise and political will to undertake upgrades, it also faces financial constraints from the global economic crisis. Urban improvement projects will be required to ensure residents have ongoing access to services, and to reduce the risk from seismic activity, which could cripple current structures and networks. The city is preparing for other threats—especially storms—by integrating response services to increase efficiency and effectiveness. But officials recognize that they have more work to do to plan effectively for larger, more severe events brought on by climate change.
Ambição, Estratégia e Governança das CIDADES do Futuro
Paris
Intelligente
et durable
Perspectives 2020 et au-delà
Barcelona applies innovative solutions to managing its services and resources to improve citizens' quality of life.
connect

municipalities
of the Amsterdam Metropolitan Area

residents
of the Amsterdam Metropolitan Area

companies & knowledge institutions

ideas & challenges

accelerate

Amsterdam Smart City platform
Amsterdam Metropolitan Area

doing / learning

smart solutions
market development
business models
replication

strengthen
DESAFIOS

• Uma Visão Estratégica Ambiciosa

• Uma Forte Estrutura de Governança

• Uma Estratégia Integrada com diferentes Horizontes temporais

• Áreas de maior inovação e crescimento futuro são Holísticas/Convergentes – As cidades necessitam de ultrapassar as estruturas de Silos, verticais e pesadas.

• Confiança e Mobilização dos Cidadãos

• Contratação Pública e Resistencia à Adpção de Novos Modelos de Negócio

• Regulação & Standards

• Envolvimento e Confiança dos Investidores e das Empresas
Obrigado

Lisboa
2 Dezembro 2014