

SMARTCITY
EXPO WORLD CONGRESS



SMART AND SUSTAINABLE CITIES – INFRAVIA® SYSTEM

Dr. ALOISIO PEREIRA DA SILVA

REALLY, WHAT IS A SMART CITY?

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MOBILITY

EFFICIENCY

ITERATIVITY

URBAN PLANNING

ACCESSIBILITY

SUSTAINABILITY

INTEGRATION

QUALITY OF LIFE

CONNECTIVITY

TECHNOLOGY

CREATIVITY

INNOVATION

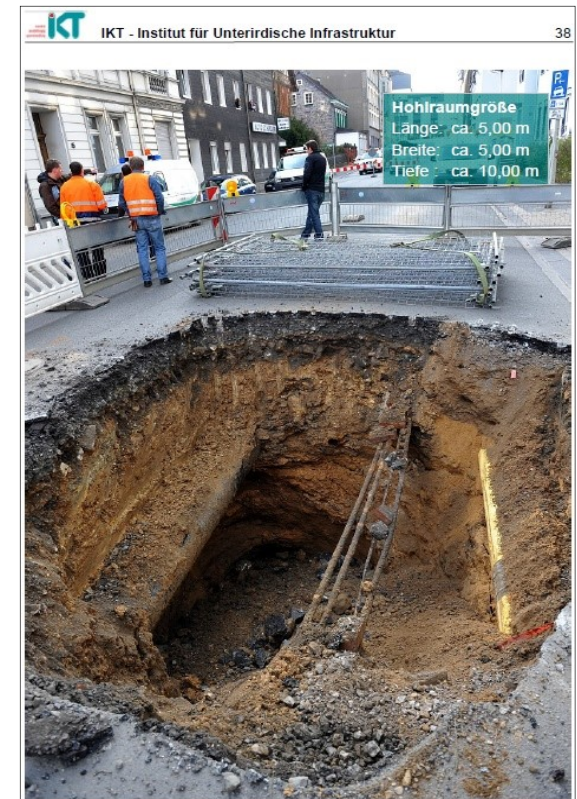
IS NOT RESTRICTED ONLY TO THE CONCEPT OF "CONNECTED CITY"



BUT TODAY,

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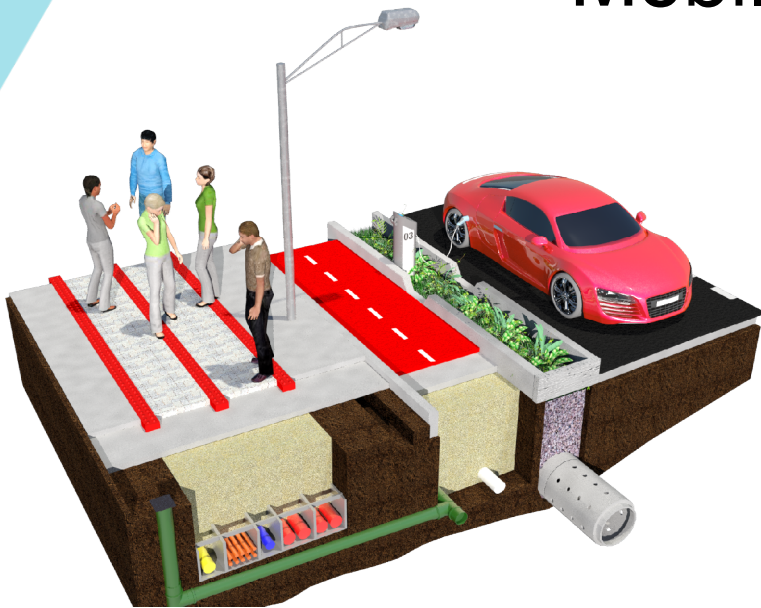
IS OUR INFRASTRUCTURE FIT FOR A SMART CITY?



- **No coordination with urban planning**
- Without standardization of underground space
- **No coordination between utility concessionaires**
- Unknown and unsafe underground
- Installations located mainly under the street
- **Only in the UK: 4 million holes / 7 billion pounds per year in direct and indirect costs**

INFRAVIA® SYSTEM

Next Generation Infrastructure and Sustainable Mobility for Smart Cities

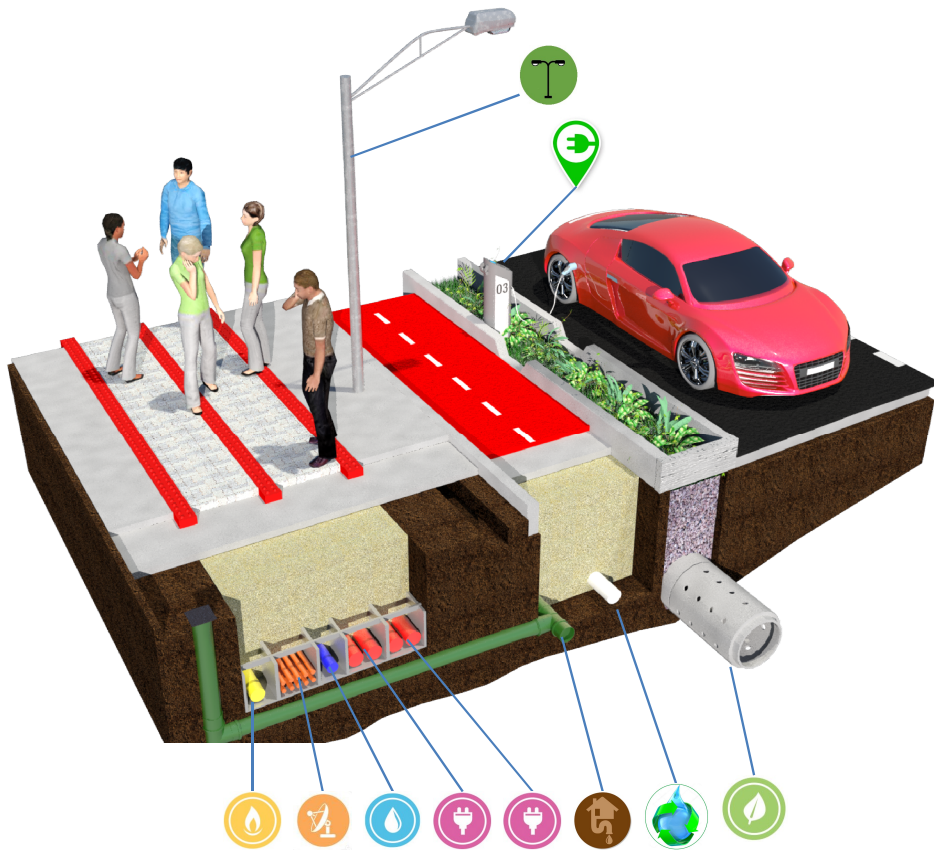


Pilot project built at Technologic Park
"Sapiens Park" - 2016

"Simplicity is the ultimate sophistication"
Leonardo da Vinci

INFRAVIA® SYSTEM

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- Integrates urban planning with networks
- No more networks under the streets
- All networks in an orderly and secure place
- Structure of recycled plastic produced through urban waste
- “Zero waste” concept
- Construction of accessible sidewalks and bike lanes
- Green infrastructure for drainage
- Integrated and efficient management

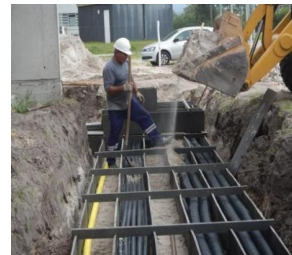
INFRAVIA® SYSTEM

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Research and projects : Started in 2007

Location: Technologic Park "Sapiens Parque" - Brazil

Production of the components: 2015 / Construction: 2016



Pilot results:
Reduces construction costs by **30%** and maintenance and operation costs by **70%**

Tests: 2016 and 2017



<https://www.youtube.com/watch?v=15ua-G6ATo&t=107s&pbjreload=10>

HIGH-LEVEL TECHNICAL DEVELOPMENT SMARTCITY EXPO WORLD CONGRESS

Brazilian standard about the theme



Highlight in specialized magazines and international awards



Companies and institutions that participated or participate in the research of the INFRAVIA® System



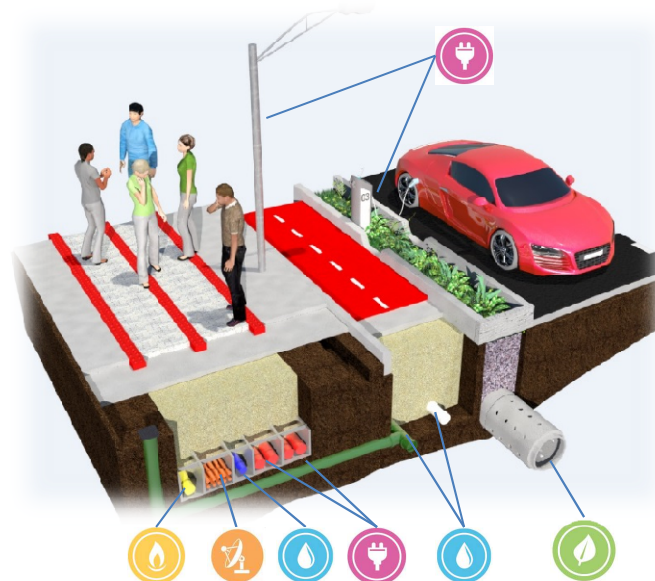
GOVERNANCE AND MANAGEMENT MODEL

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- Creation of a “entity” for the centralized management
- Private partners and government (PPP)
- May have the participation of the concessionaires
- “New concessionaire”: construction and maintenance
- Current infrastructure concessionaires: rent structure and operation



AREA OF OPERATION OF THE
“NEW CONCESSIONAIRE”



CONCESSIONAIRES

	NATURAL GAS
	TELECOM / TV / DATA
	WATER / SEWER
	ELECTRICITY / STREET LIGHTING /
	DRAINAGE

EVERYONE WINS!

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Municipality:

- Reduced costs - No holes in the streets
- Use of urban waste as raw material - Revenue
- Percentage of revenue from the integrated system

Dealers / Concessionaries:

- Reduction in construction and operation costs
- Focus on business and consumers
- No more initial investments.

Investors:

- New Business and Opportunities
- Modular and scalable business
- Circular Economy
- INFRAVIA® System can be used in ANY CITY in the world. (standard)

Society:

- Transparency in resource management
- Accessible sidewalks and bike lanes
- Sustainability



WHY IS NOT INFRAVIA® SYSTEM EVERYWHERE?

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- **Fear of innovation.**
- **Lack of planning culture.**
- **Lack of transparency in information.**
- **Lack of communication between government and concessionaires.**

So, let's start to innovate with responsibility?

We can help!

Thank you

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