

Smart Cities...

Paving The Way To Sustainable Growth



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Understanding the world we live in

The world is at a **cross road....**

WE are being **Challenged !!!**



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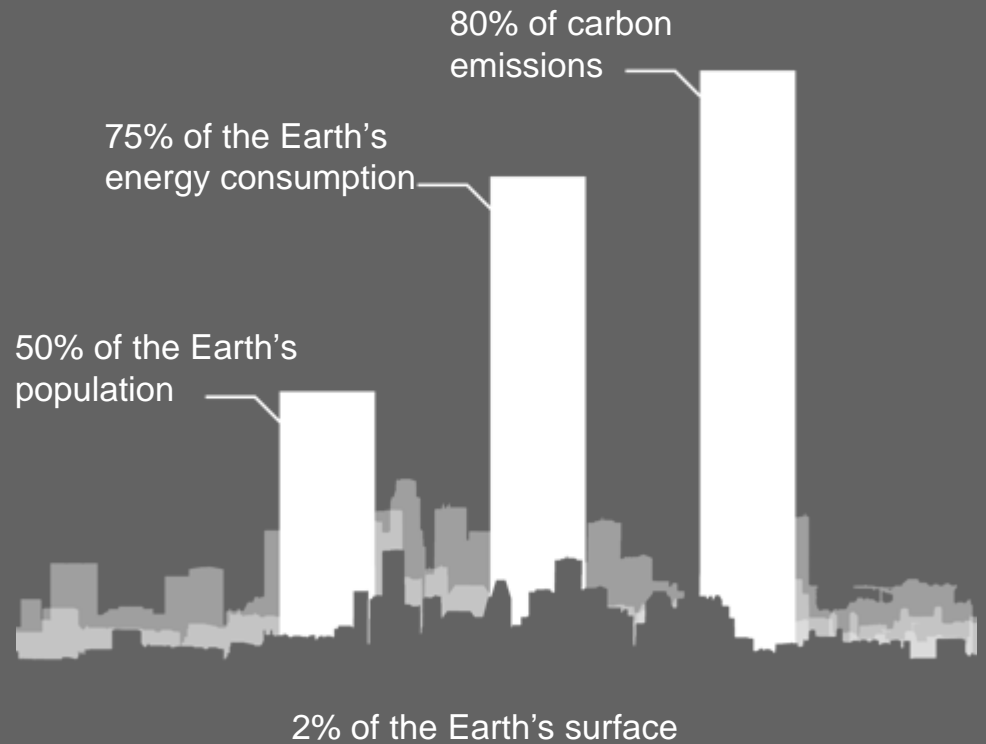
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Our cities are growing.



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Three Megatrends



The Challenges facing Cities

6000 years history of serving people

Managing Growth

- Increasing urban populations
- Increasing density
- Growing strain on infrastructure

Managing Sustainability

- National & international regulations
- Aggressive environmental targets
- Growing concern among citizens

High Quality of Life

- Differentiating against other cities
- Providing a high quality of services
- Attracting jobs and talent

Cities must manage these challenges within ever-shrinking budgets

Efficient

Sustainable

Liveable



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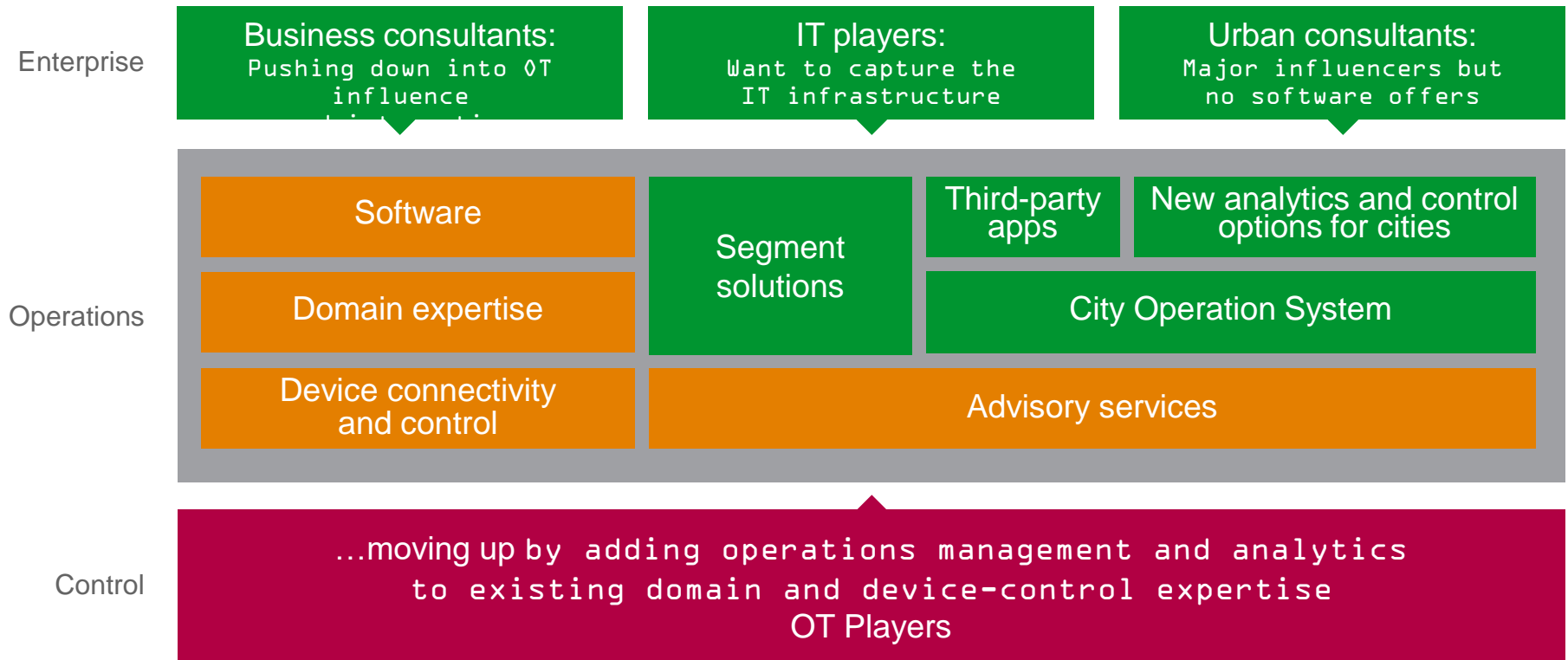


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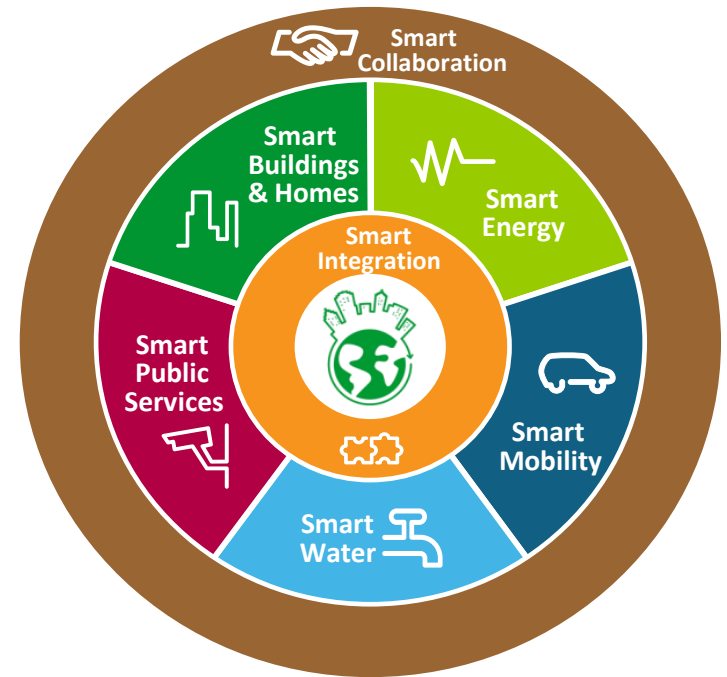
Leveraging OT and IT

The winning formula to an integrated city solution



How to deliver urban efficiency...

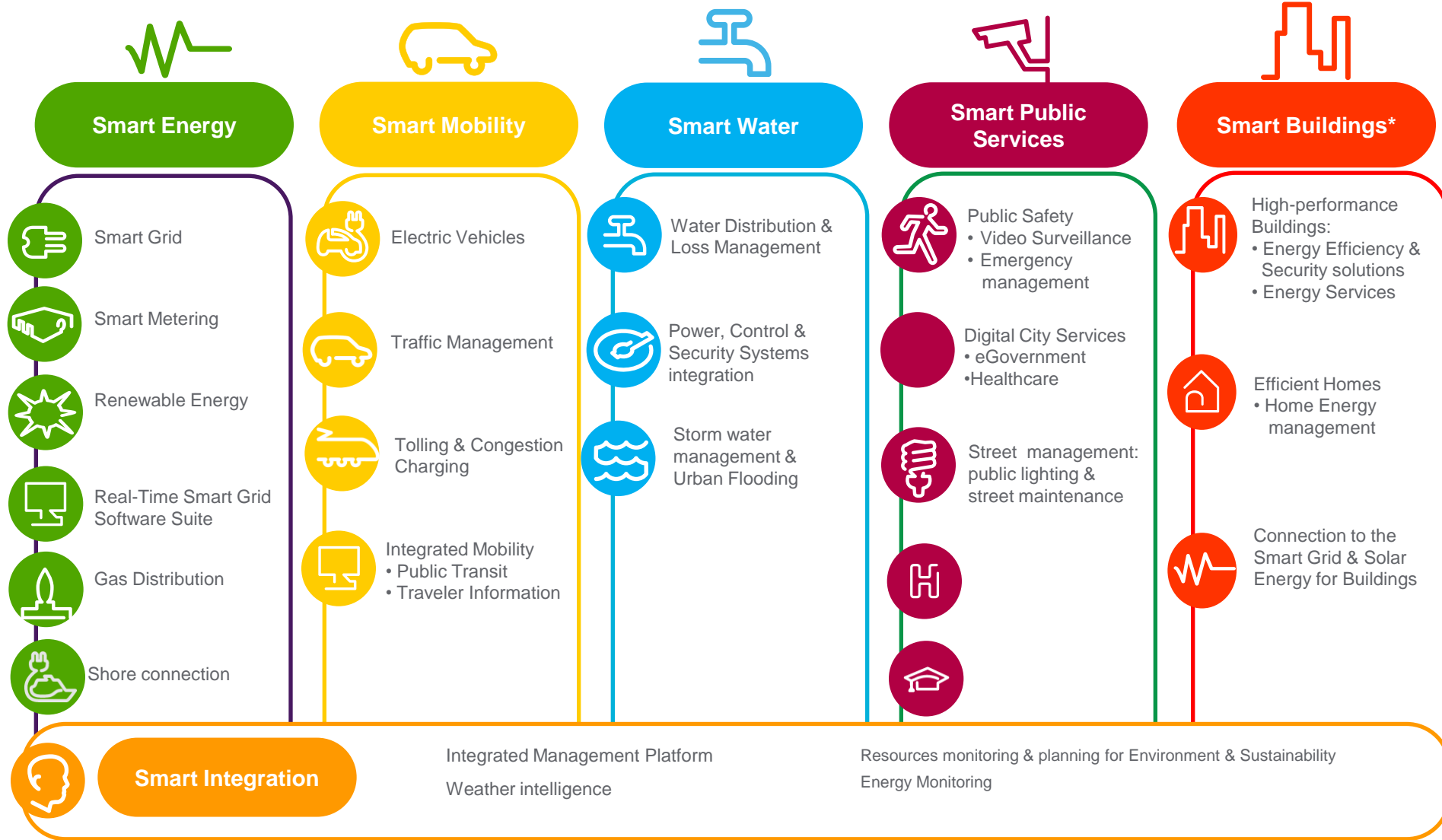
- **Solutions** to cities' immediate challenges,
- **Integration** for increased efficiency,
- **Collaboration** to make it happen,
- **Innovation** to transform our world.



Making Smart Cities a reality.

Solutions to cities needs

Improving operating systems through Operational & Information technology





Technology is important,
but...

...people are vital
to the success of a
city.



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Some Success Stories



Paris, France



Dallas, TX USA



Boston, MA USA



Frankfurt, Germany



Houston, TX USA



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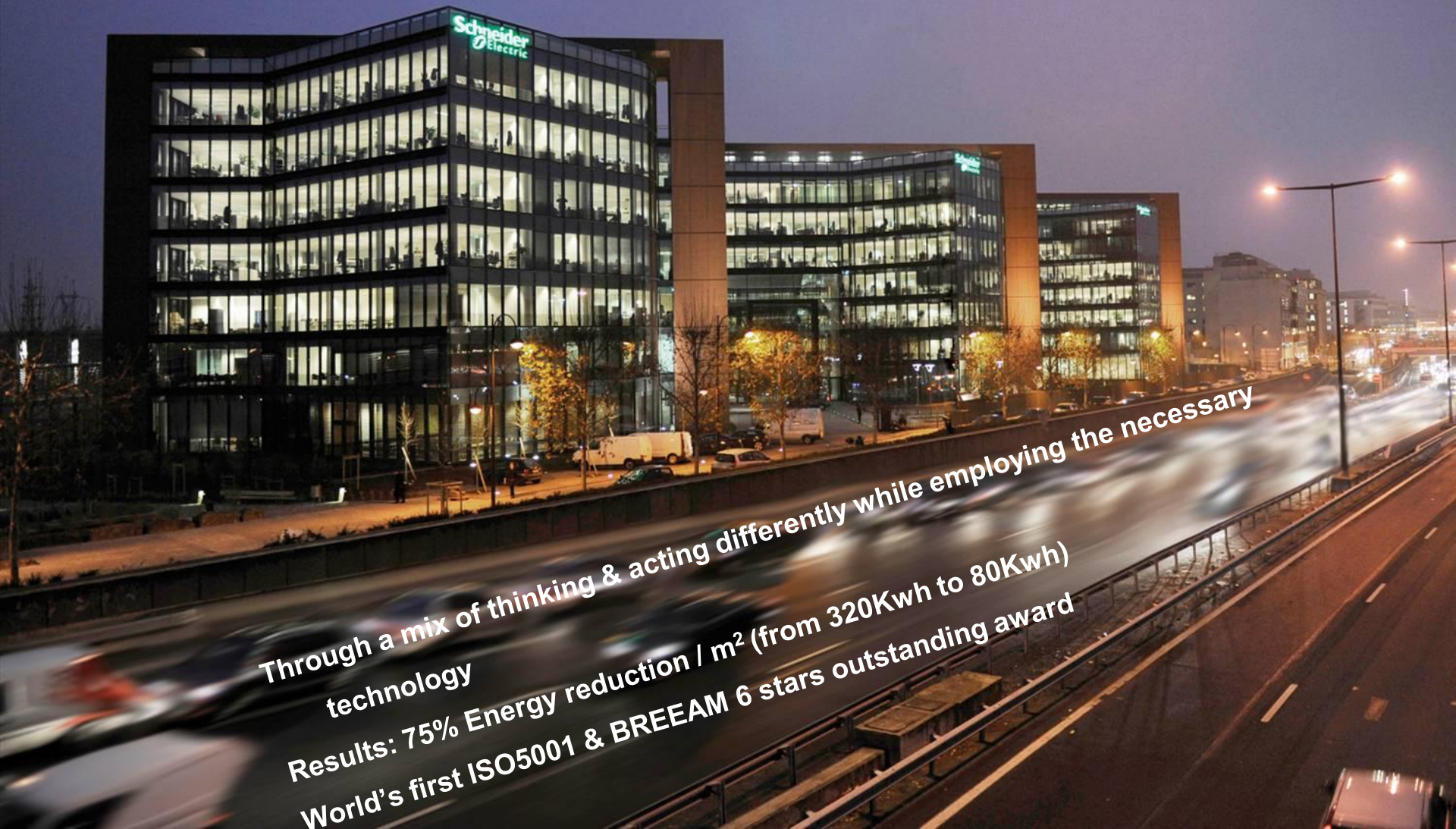
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Le Hive, Paris, France



Through a mix of thinking & acting differently while employing the necessary technology
Results: 75% Energy reduction / m² (from 320Kwh to 80Kwh)
World's first ISO5001 & BREEAM 6 stars outstanding award

Dallas, Texas USA



Boston, Massachusetts USA

Efficient planning of future energy projects


- Identify undesired spikes in energy use more quickly
- Actively manage energy use system-wide, and allow the city to closely monitor progress toward meeting the city's GHG reduction goals

Frankfurt, Germany

A nighttime photograph of the Frankfurt skyline. The city's skyscrapers are illuminated with warm yellow and white lights, standing out against a deep purple twilight sky. In the foreground, a bridge with large, rounded stone piers spans the Main River. The river's surface is calm, reflecting the city lights and the bridge's structure. The overall scene captures the urban landscape of Frankfurt at dusk.

**Saved € 65 million 2008-2012
through improved
management of Water and
Heating of 2,450 city
buildings**

Houston, Texas USA

A nighttime photograph of the Houston skyline, featuring several illuminated skyscrapers against a dark sky. In the foreground, there is a green park area with trees and a walkway, and a bridge or overpass structure. The text is overlaid on the left side of the image.

Platform that improves efficiency of Water and Electricity distribution systems; Retrofit for energy efficiency of 45+ municipal buildings delivers \$3 million yearly warranted energy and water savings.

Urban efficiency is real

- Up to
- Up to

30%

Energy savings
Public Lighting energy use reduction

- Up to
- Up to

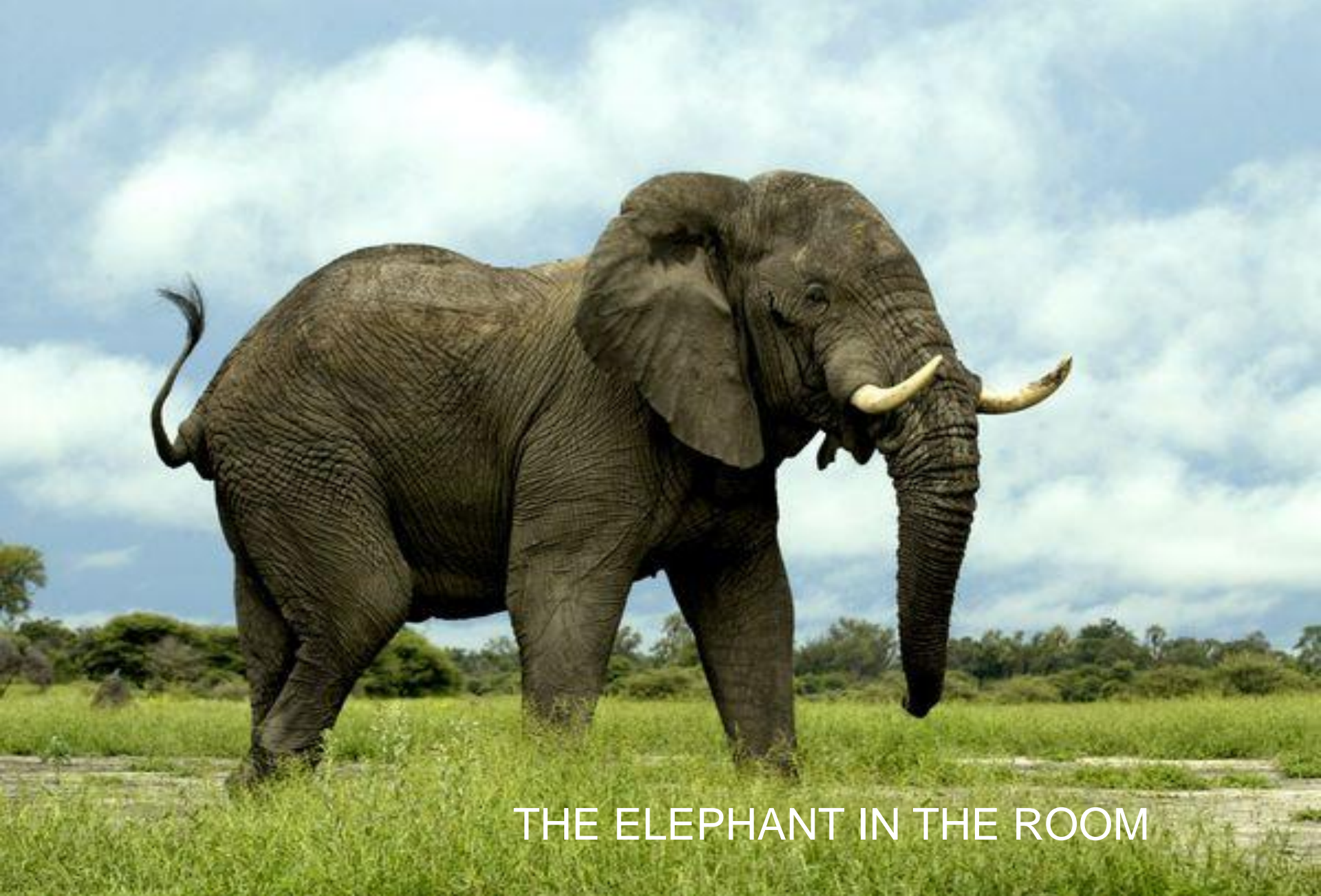
20%

Water losses reduction
Traffic delays reduction

- Up to

15%

Buildings operating costs reduction



THE ELEPHANT IN THE ROOM



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PLANNING FALLACY

Huge Optimism Bias

An Unrealistically Close To Best Scenario

Inside Rather Than Outside View

WYSIATI

Overconfidence

COMPLEX NATURE OF THE BEAST

No Single Company Can Do It All

Consortiums and JVs and SPVs

Evaluation of Offers

Limitation of Liability

Consequential Damages

Make the most of your energy™



Schneider
Electric