



CONNECT. INNOVATE. TRANSFORM

**Realizing the Smart City Vision
at the Metropolitan Level: The
Rwanda Smart Cities Experience**

Cities face important challenges... And Africa is not spared



MORE CARS

The number of cars is expected to grow from 1 billion to 2.5 billion by 2050



WATER LOSS

About 50% of the water supply in urban cities is lost due to leakages



ENERGY CONSUMPTION

75% of the world's energy is consumed in cities



COST OF HEALTH AND SOCIAL SERVICES

The cost of healthcare & social programs is \$8 trillion worldwide and increasing



Poverty alleviation

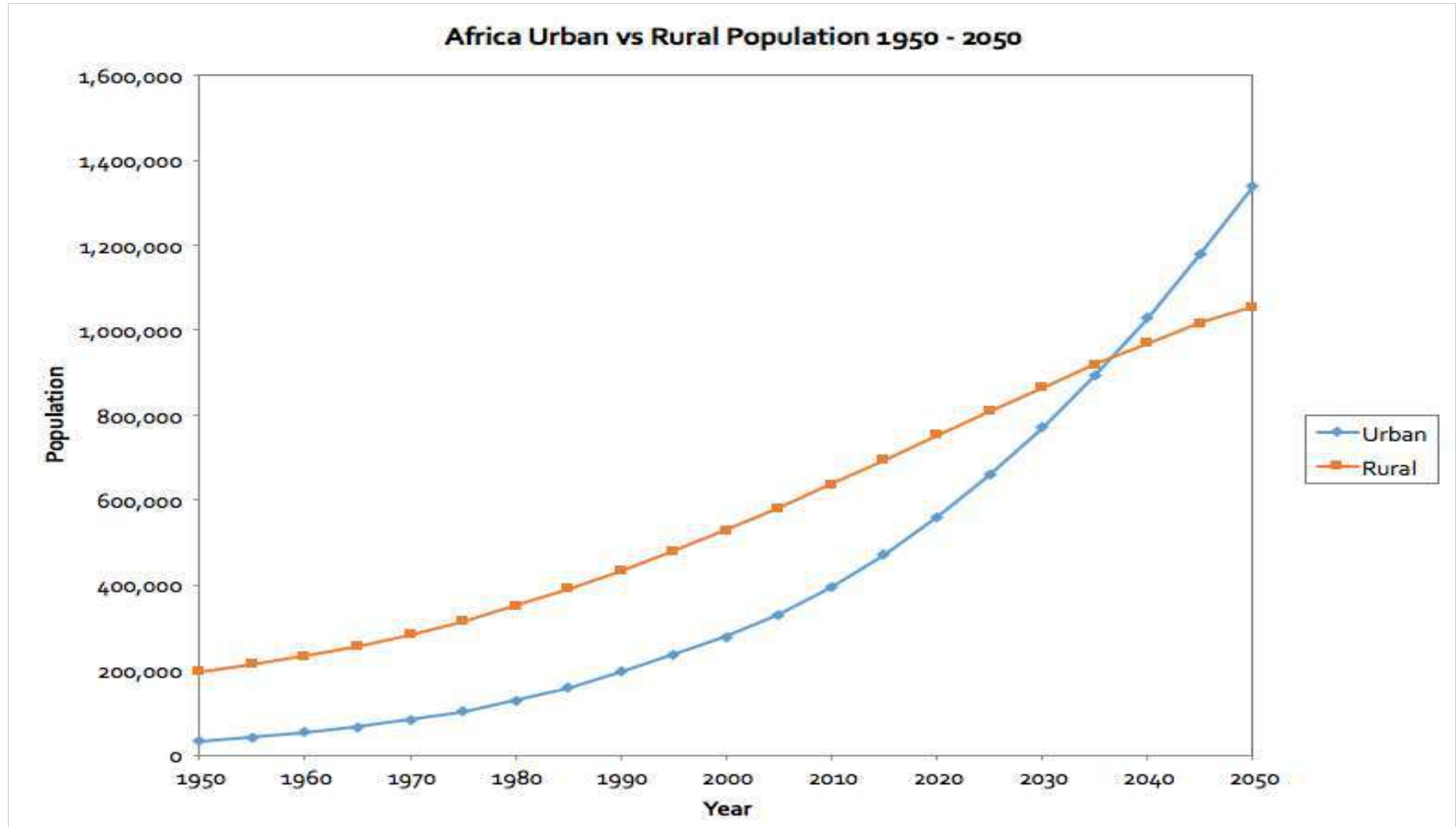
3 billion people live on \$2 a day or less



Pollution costs

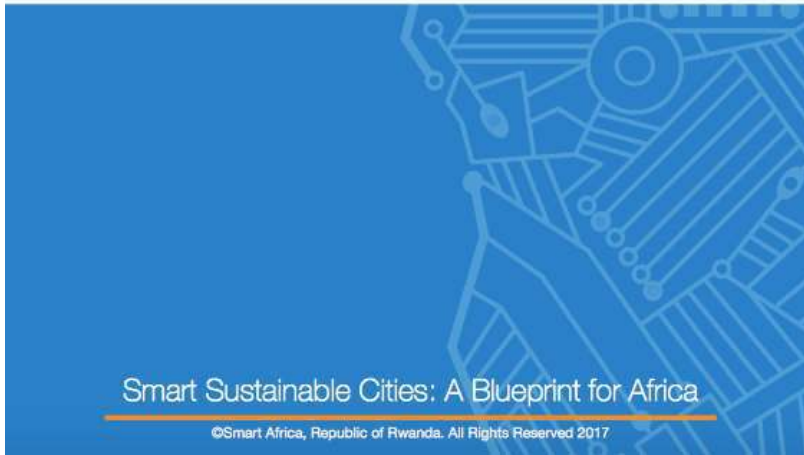
The cost of pollution is an estimated 2% of a country's GDP

Urbanization in Africa is progressing rapidly...



Source: <http://www.un.org/en/development/desa/population/theme/urbanization/index.shtml>

Smart City is a priority for Smart Africa's leadership



Launched the Africa Smart Cities Blueprint on 10th May 2017 during the Transform Africa Summit 2017

By African Heads of State



We categorized major classes of City systems

SMART CITY SERVICE DOMAINS



**City Flows and
City Services**



**Smart Business
Services**



**Smart Healthcare &
Public Health Mgt**



**Smart Public Safety &
Emergency Response**



Smart Education



Smart City Finances

SMART CITY FLOWS DOMAINS



**Smart Transportation
and Mobility**



**Smart Water and
Wastewater Management**



**Smart Energy Grids
and Buildings**



**Smart Air Quality
Management**



SMART CITY RWANDA MASTERPLAN

By ensuring inclusive data-led management and planning, efficient community-based infrastructure and services and localized and shared innovation, **cities can be drivers for economic development and sustainable development.**

The development of the Smart City Rwanda Masterplan was based on the Smart Africa Alliance Smart Sustainable Cities Blueprint for Africa.

Building smart cities: The approach taken by Rwanda

In order to help leaders and managers of Rwandan towns and cities start the process of becoming smarter:

FOUR EARLY DECISIONS need to be taken

1. Commit to becoming a smart city

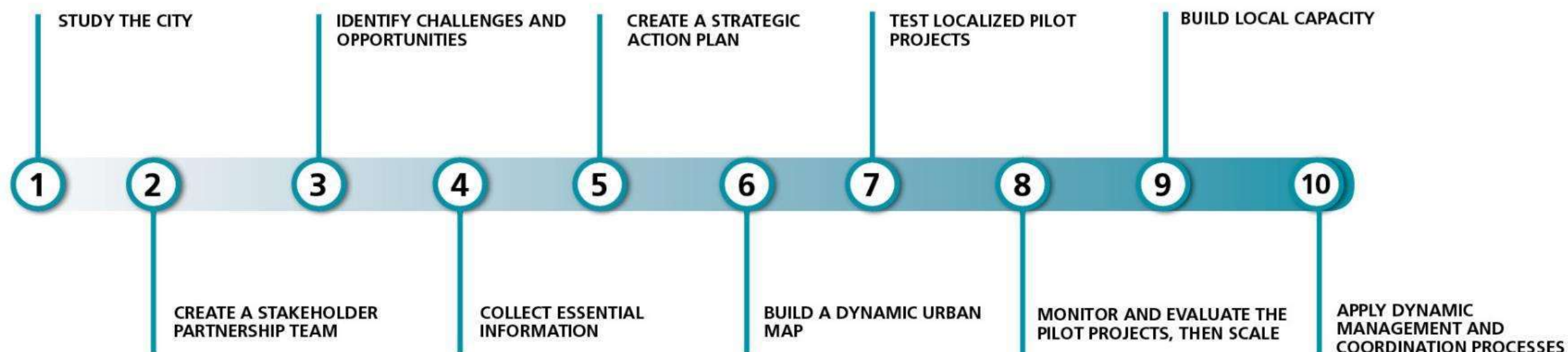
2. Identify the champions

3. Create a shared vision

4. Choose to be transparent



TEN STEPS are followed to implement the vision



Realizing the Smart City vision: What we learnt

1. Business enablers



Bold leadership and governance



Citizen centricity



**Cross agency
collaboration**



Broad ecosystem

2. Technology enablers



**Big data, analytics and
predictive**



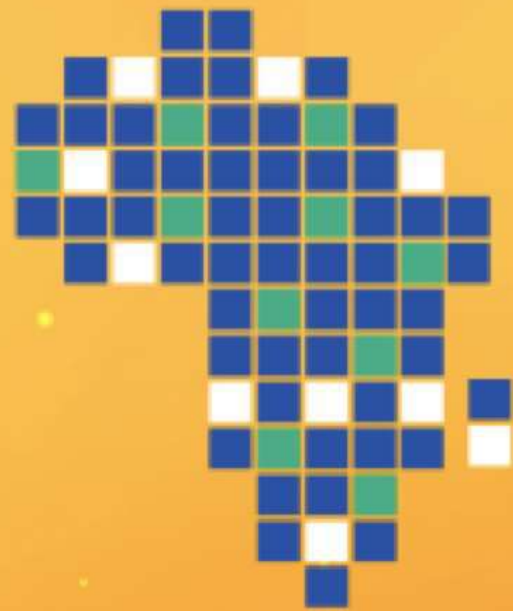
**Communication &
Engagement**



Mobile interconnectivity



**Cloud and storage
infrastructure**



smart
africa

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Thank You!