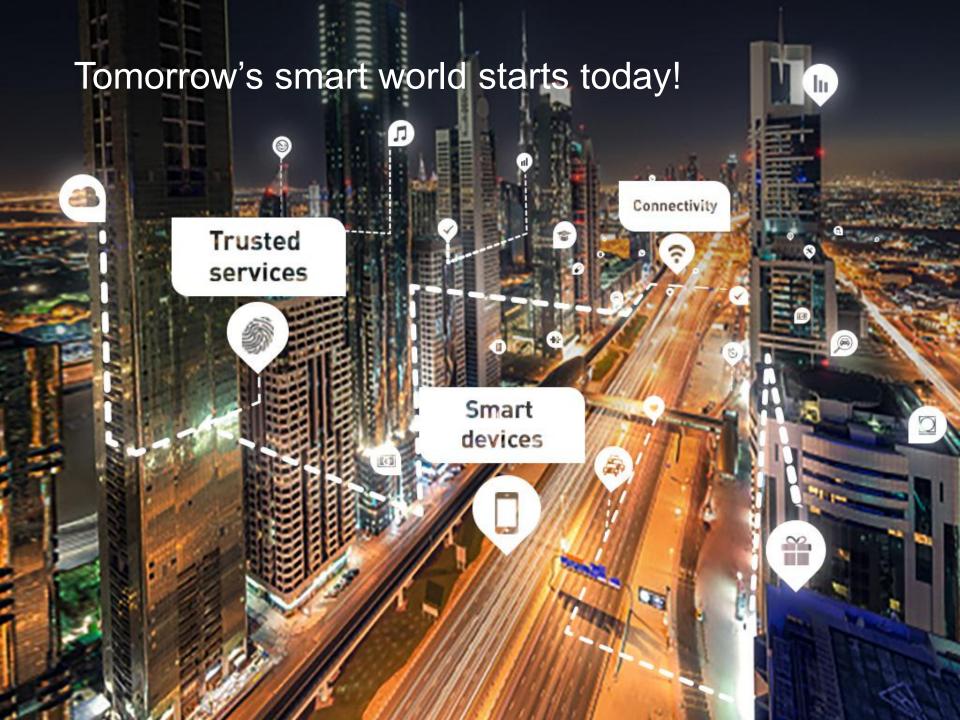
## Smart Cities in Africa Enabling TRUST



#### **Sherry ZAMEER -**

Vice President Telecommunication Solutions Middle East & Africa - Gemalto



# The making of a smart city calls for concerted efforts from public and private sectors





# Smart Cities use a set of secure and certified delivery capabilities to build a *Trust Infrastructure*



### Building a state-of-the-art trust infrastructure



- Use of state-of-the art digital encryption and tamper-proof secure elements to store and manage sensitive data
- Establish the role of a Trust Manager platform that can act as trusted third party to supervise transfer of sensitive information between service providers
- Ensure that the systems being implemented are industrially robust, reliable and scalable with more users adoption, city growth and future innovations
- Create an open eco-system by leveraging recognized standards and certifications, so that innovation can thrive, with application developers and service providers able to cost-effectively develop and onboard new services

## Create a smarter world with smart cities in Africa where:



 connectivity brings people and ideas closer together



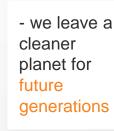
 economic prosperity and political stability underpin society progress



 people can depend on and trust the technology surrounding them



 citizens can fulfill their human potentials





 quality of everyday life brings more convenience and enjoyments







### Harness connectivity and mobility







#### **African's Digital Natives**

Sub-Saharan Africa, the fastest growing region globally of unique mobile subscriber base +18 % per year over the last 5 years

253 million mobile subscribers and 502 million connections (mid 2013)

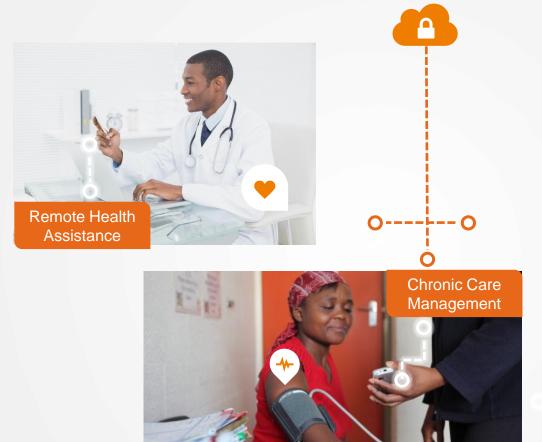
With fixed line penetration rates of less than 5%, mobile has emerged as the main medium for accessing the internet across Sub-Saharan Africa.



3G and 4G networks are gaining scale in Africa Smartphone ownership is on the rise



### Improve life expectancy with Smart Healthcare





**250 mHealth services** currently in operation across the region, supporting patients who may not have access to local healthcare services





## Improve life expectancy with Smart Healthcare

#### 101 mHealth services throughout South Africa of which 83 are live

- Strong focus on Maternal, Newborn and Child Health (MNCH)
- Most addressed medical need are HIV/AIDS with 42 live mHealth services and Tuberculosis (10 mHealth services)
- Out of 83, only 3 services address diabetes in the country, where roughly 4 million people are living with diabetes
- Out of 83, only 18 services are led by mobile operators

#### Examples of mHealth Service on the field

Hi4Life sends health information
iMobiMama sends reminders to increase earlier antenatal booking
MomConnect sends SMS reminders to the expectant mothers with HIV status

Information on Sexual and Reproductive Health, Motherhood, Fatherhood & Baby Care

Trusted health information on your mobile phone

dial: \*120\*6336# sms: hi to 43751
visit: mama.mobi o papa.mobi o baby.mobi o hi4LIFE.mobi

BabyInfo, MAMA, small-MAMA and The Baby Club sends vital health information to new and expectant mothers



' mHealth could save a million African lives by 2017'

PricewaterhouseCoopers report



#### Boost economic development with *M-Commerce*





56.9 million registered mobile money users in the region

M-PESA Success Story: 24.8 million subscribers use mobile money transfer services, like M-PESA, in Kenya, which represents 56% of the population

## Promote sustainability through Smart Energy













d.light d10g solar home system

- 3 lights with multiple brightness settings Phone charging LSB with 5 standard connections
- 4W righ quality solar panel 1 year warrarry
- Payment term; one year

#### 50 /=

Fire day + 2999 /+ depunit



d.light d20g solar home system

- 1 fights 2 wall hanging plus 1 persister tame.
- Phone charging utilities to contact connections
- Solar chargeable codes SW test, quality solar page
- 5W high quality solar panel 2 year warranty
- Typinent term inveyes

M-KOPA was established in 2011 following successful consumer trials in Kenya during 2010.

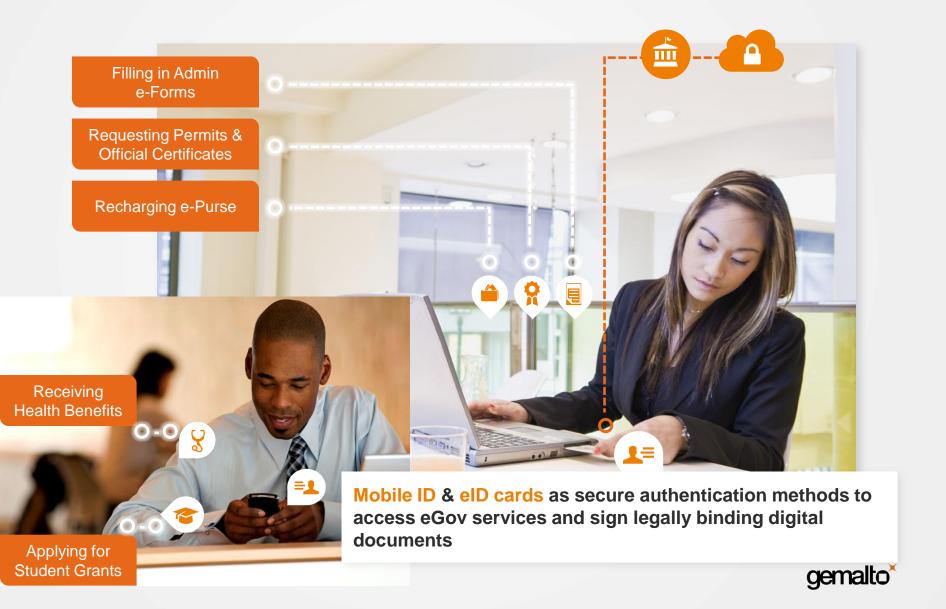
M-KOPA has developed a proprietary, patented technology platform that combines embedded GSM + mobile payments to revolutionize asset financing in emerging markets.

M-KOPA are actively providing affordable solar power to over 50,000 Kenyan households and adding 1,000 more every week.

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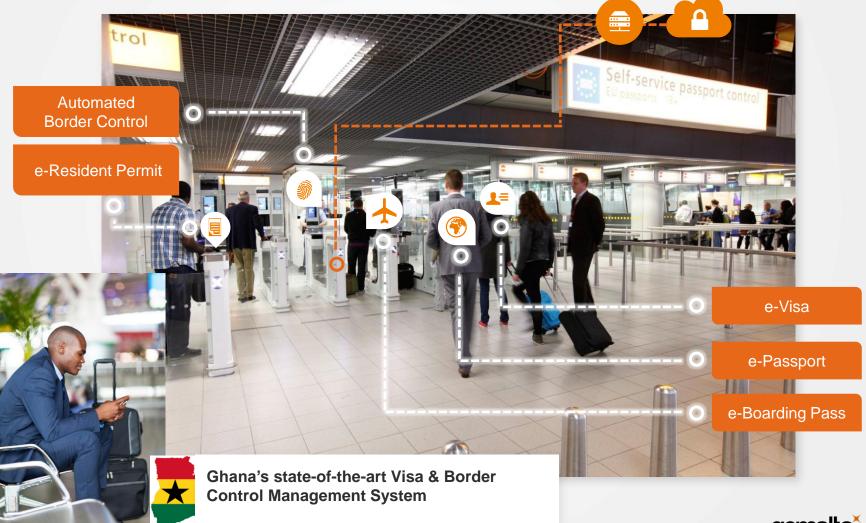


#### Enhance public services with e-Government



### Streamline immigration process with Smart Border Control





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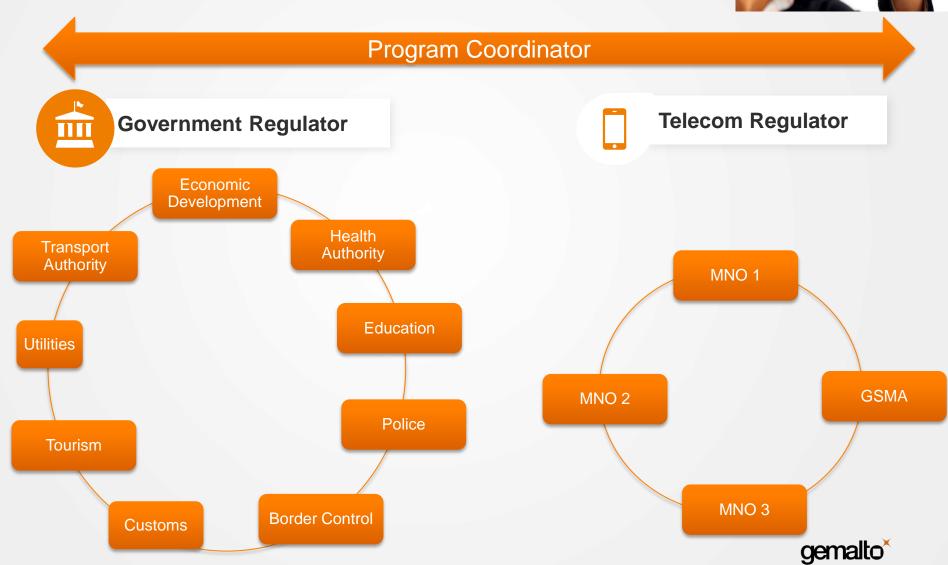
Boost economic development with Smart Industrial Management





### Best Practices - Smart City Ecosystem





# Key enablers for the success of a smart city's delivery capabilities



Thank you for your attention

Any Questions?

