

### THE MISSING PIECE: VOICE OF SMART CITY CITIZENS WUXI: FROM ANCIENT TO INTERNET OF THINGS CITY





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### **WUXI IN FOCUS**

- The study
- The city
- The citizens
- The stakeholders
- The implications
- Our support

Rethinking a city in a crisis:

- 2007 water pollution causes ecological disaster
- Subsequent deliberate economic reorientation with a focus on high-tech industries

 Today – a city orientated around the Internet of Things (IoT)





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### THE STUDY

Identifying smart cities and meeting their citizens



### THE MCI MISSION

Market and Consumer Insight (MCI) investigates links between consumer behavior, market and technological trends to help Alcatel-Lucent and its clients, communication service providers, make more informed and impactful business decisions.

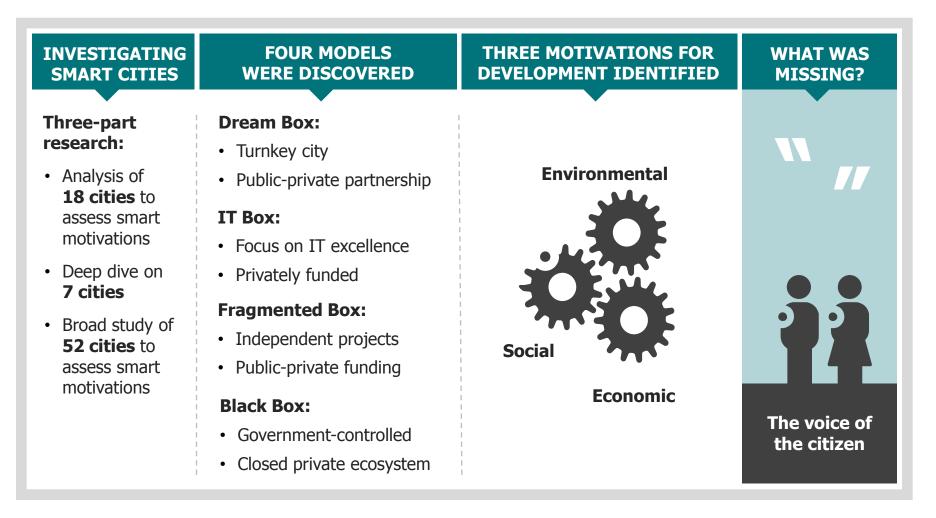
MCI experts dig deeper and reach farther to provide information that helps communication service providers formulate new thinking, including:

- Global and regional, urban and rural, insights
- Research on consumer, market and technological trends



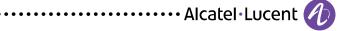


# **GLOBAL RESEARCH FINDINGS**



#### More info about the four models:

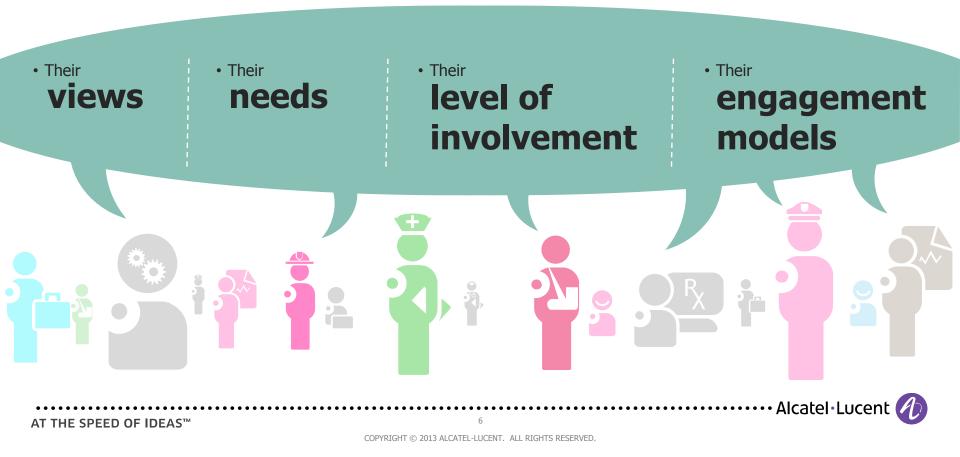
http://www2.alcatel-lucent.com/knowledge-center/public\_files/Smart\_Cities\_market\_opportunity\_ExecSummary.pdf



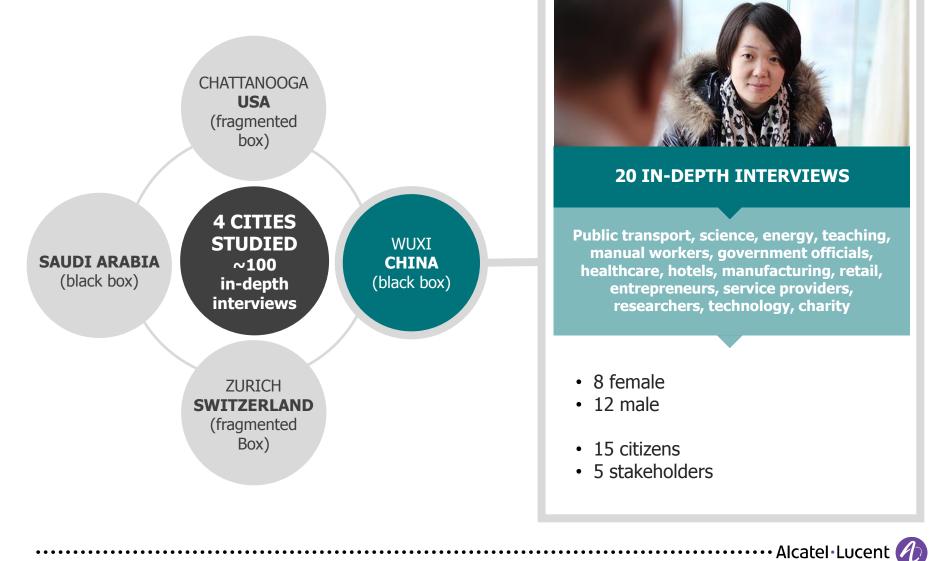
### **UNDERSTANDING THE CITIZENS**

### Other studies have neglected the voice of the citizen

We can understand resulting implications for key stakeholders including city leaders, NGOs, regulators, enterprises, utilities, and service providers if we interpret:



### MEETING THE WUXI CITIZENS AND STAKEHOLDERS

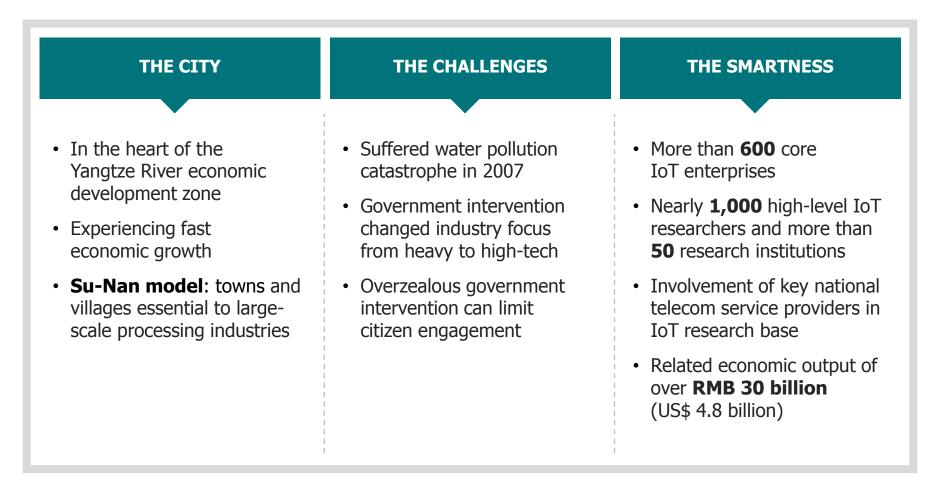




### **THE CITY** Why put Wuxi in the spotlight?



### **A CHANGE IN DIRECTION** From light industry to heavy industry to IoT





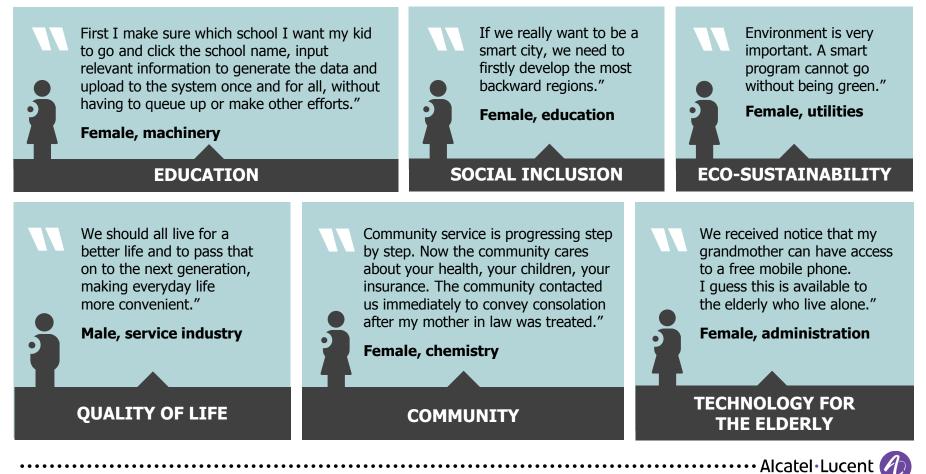


### **THE CITIZENS** Understanding the missing voice



### ECONOMIC AND SOCIAL BENEFITS TOP PRIORITY

Citizens see **technology as an enabler** and recognize that significant economic, social, and eco-sustainability benefits can be achieved via smart city projects.



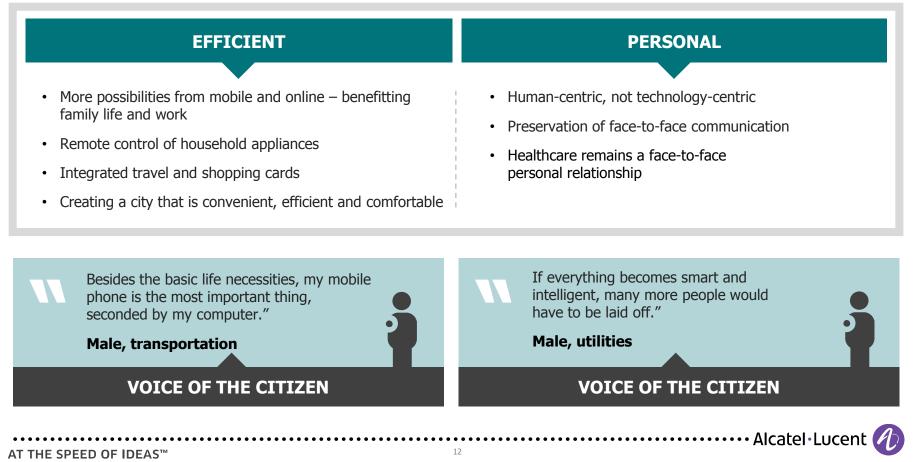
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### AN EFFICIENT, YET PERSONAL, WAY OF LIFE

Citizens are interested in services that deliver informative, networked and intelligent means of working, living, and entertaining – without compromising personalization.

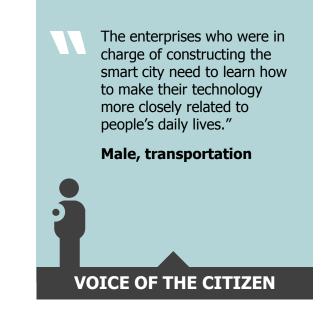


### FOR NEW SERVICES: CONVENIENCE IS KEY

Citizens don't see a need for more service provider competition. Instead, they want incumbent providers and public authorities to offer more personalized services.

# **Expectations of networked city and service development:**

- Real-time transportation information, integrating SMS notifications
- Online booking and registration for schools, hospitals and public services
- Mobile payments for low-value, everyday purchases
- Communication with friends and family wherever and whenever
- Energy and eco services, including smart home, water and air quality monitoring



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### CONCERNS OVER PRIVACY AND PERSONAL INFORMATION

### **Online and offline**

Fears and reservations cited include:

- Personal information being retrieved from the internet
- Misuse of travel cards
- Telephone harassment/internet fraud
- Malicious websites

# Overall, most see these dangers as risks worth taking –

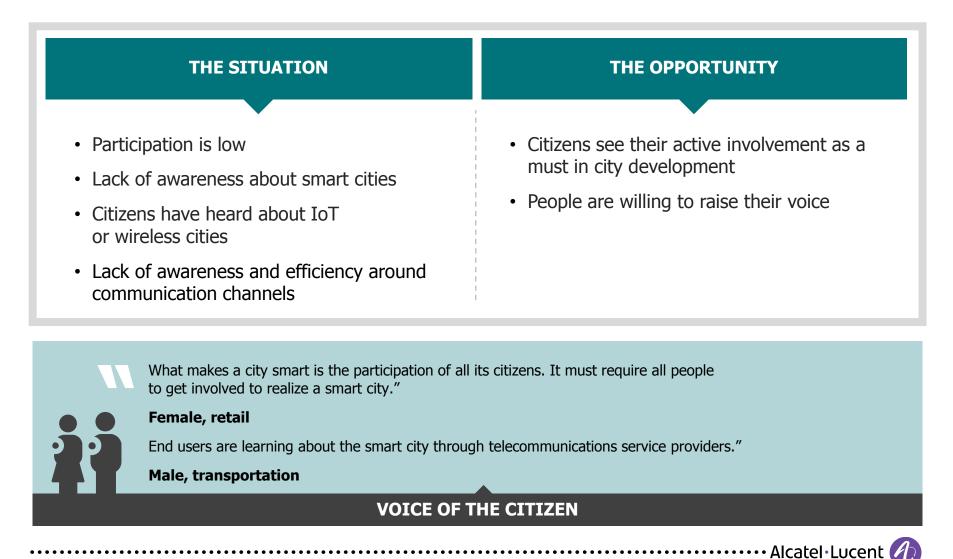
people realize they must take personal responsibility over what information they publish. But for many, **ultimate accountability** lies with government and service providers to control and protect information.

I remember the second day after my baby was born three insurance companies visited us and called my name. I was very surprised as I'd never seen them before." Male, healthcare Those who shouldn't have access to the information should not get the information. If they get it somewhere, that means there is a hole in the management. You cannot blame it on the technology." Male, government **VOICE OF THE CITIZEN** 

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### THERE IS OPPORTUNITY TO INCREASE CITIZEN INVOLVEMENT...



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### ... BUT A SIGNIFICANT BARRIER MUST BE OVERCOME

- Government communications are often one-way
- New channels are required, such as well-managed events, websites and online platforms
- Once channels are created, promotion and awareness must follow
- The local community, where the threshold is low, is key to facilitating communication



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I don't think there would be any effect if you participate, because they are unlikely to take your opinions seriously, and they just symbolically built a platform to let the citizens participate."

#### Female, chemistry

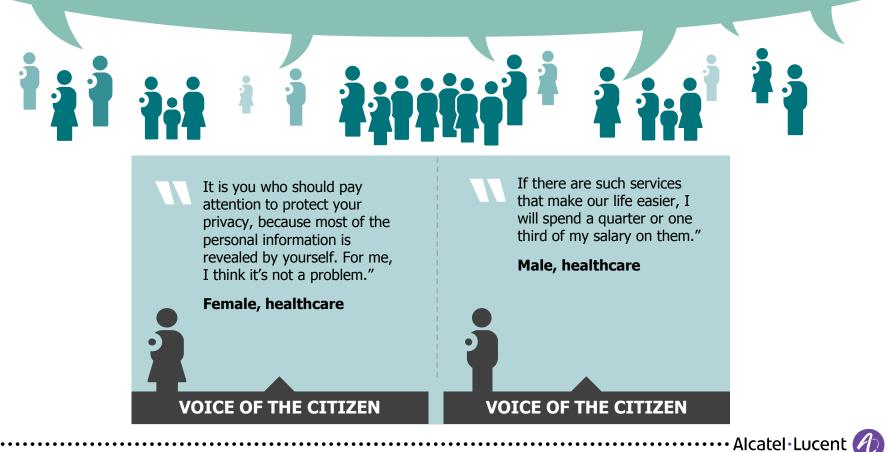


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### **IMPROVE QUALITY OF LIFE**

Citizens believe that improving quality of life is worth the risks – and the financial cost.





### THE STAKEHOLDERS

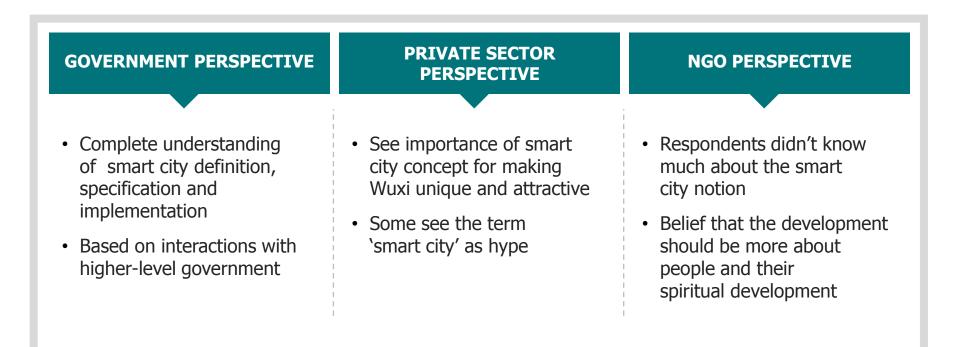
How are roles evolving to enable smart development?



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### **RELEVANCE IS KEY TO UNDERSTANDING**

Stakeholders have high understanding and awareness as it is closely linked to their professional activities.

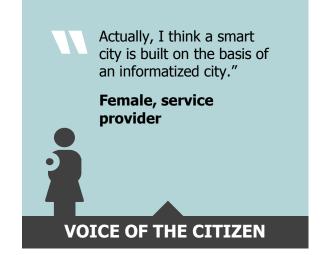


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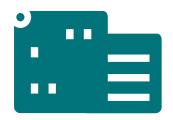
### **ACTIVE PARTICIPATION**

Project development and implementation is motivated by specific interests.

- IoT base and top-level authorities actively involved in new pilots, projects and products connected to their areas of business or responsibility
- Limited community level involvement represents opportunity for implementation in the provisioning of small applications that impact daily life



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### **Government is seen as the organizer and planner** – other stakeholders implement and execute programs

in accordance with their qualifications and specialties.





### THE IMPLICATIONS

### Technology can deliver tangible benefits

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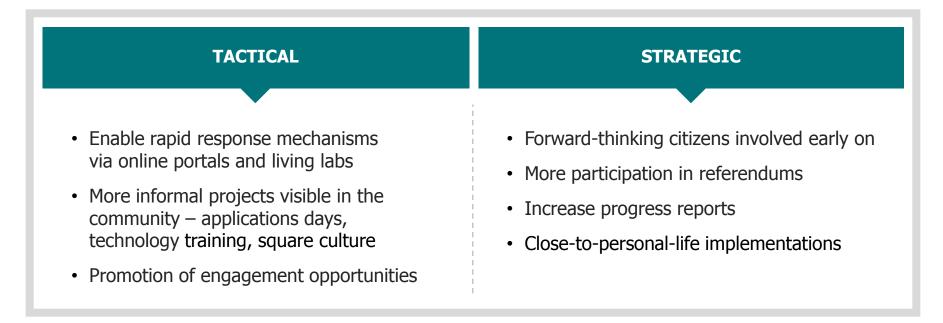
# WHAT CAN WE LEARN FROM WUXI?

- Use existing culture and customs to diffuse initiatives into society: make smart city development acceptable for the wider populace
- Involvement must be pervasive

   starting at community level
   and incorporating district and
   city-wide initiatives
- Leverage digital youth's skills to train the less skilled, elderly or impoverished to use smart devices and channels, increasing awareness and involvement of citizens of all ages and socio-economics



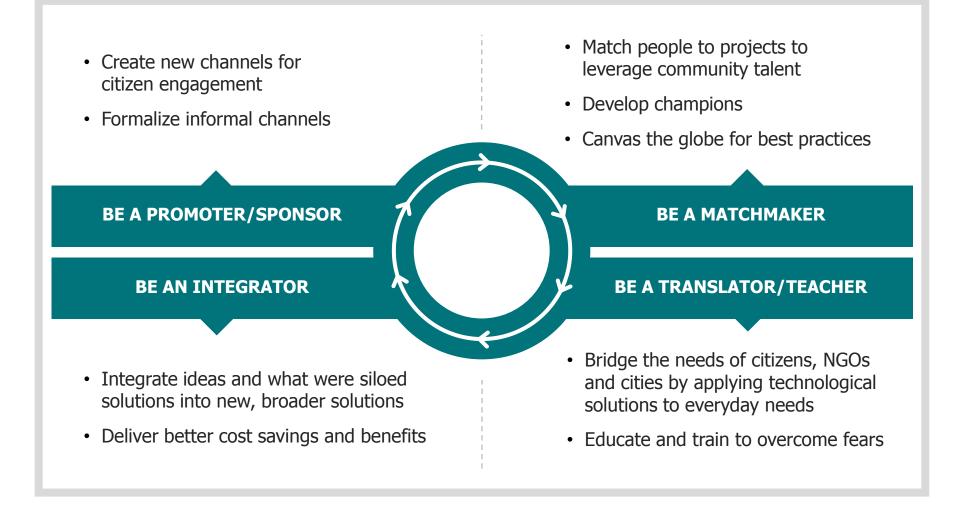
### ENGAGE CITIZENS IN TACTICAL AND STRATEGIC PROJECTS



- Ensure that stakeholders play a role in increasing awareness of participation opportunities
- Continue formally organized projects as well as soliciting involvement in informal projects
- Provide access to data to encourage development initiatives
- Focus on tactical involvement first
- Celebrate and promote successes



### **NEW MODELS, NEW ROLES**

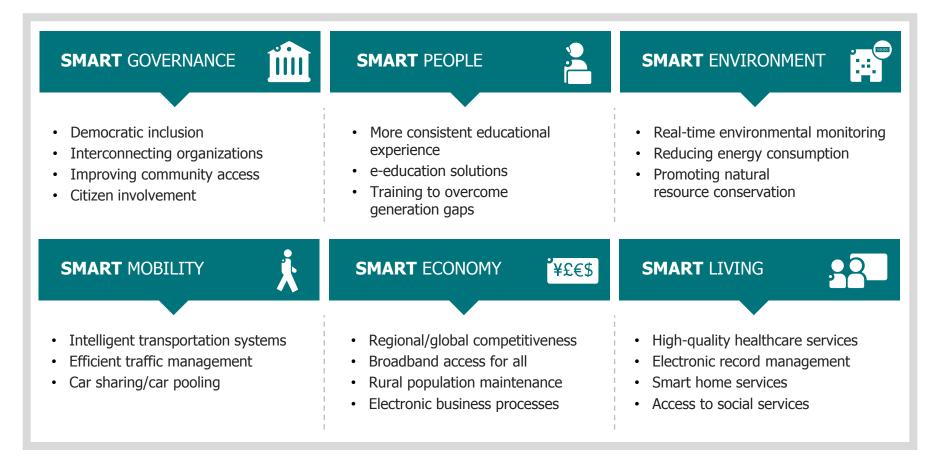


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# THE OPPORTUNITIES ARE HUGE

When the model evolves, there are vast possibilities for **innovation and new business** 



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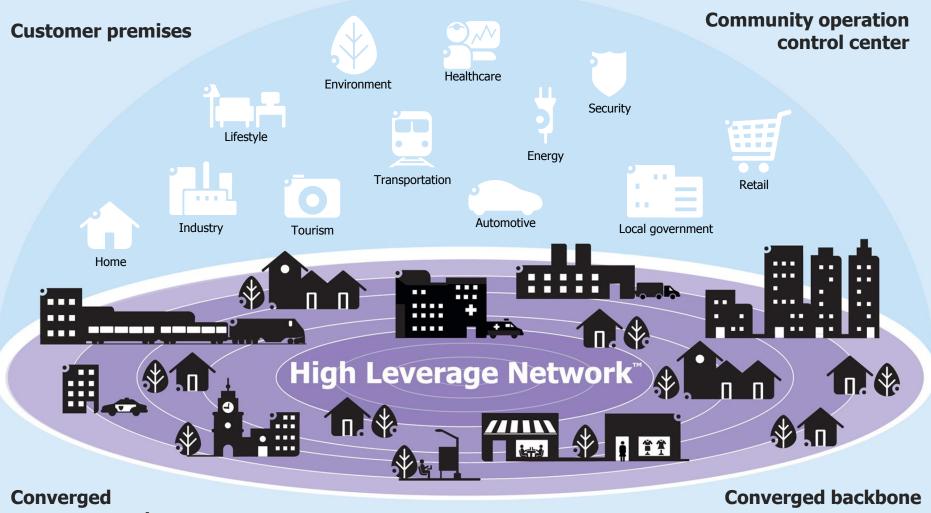
### **OUR SUPPORT** Alcatel-Lucent can help you realize the smart city vision



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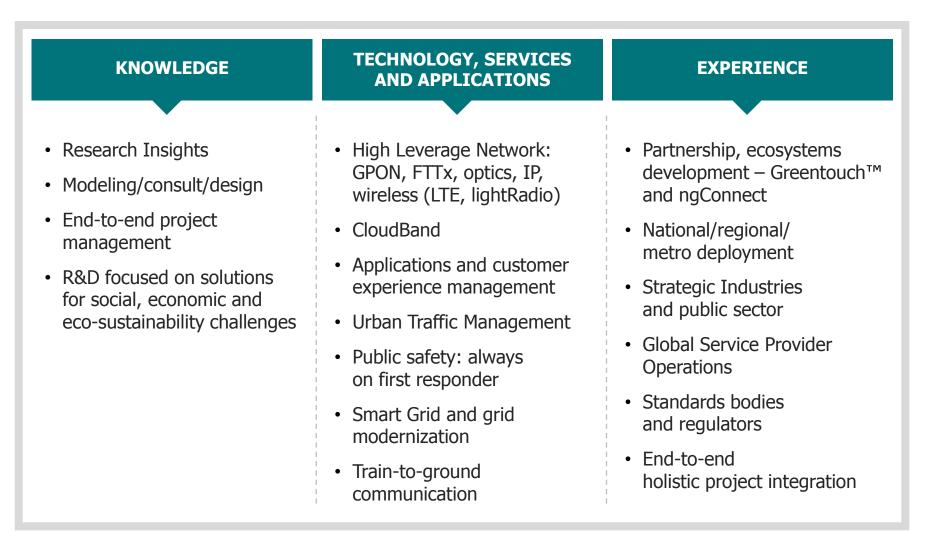
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### **EMPOWERING A SMARTER AND MORE SUSTAINABLE COMMUNITY**



access network

### **ALCATEL-LUCENT SUPPORTS SMART CITIES**



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### **MORE ABOUT SMART CITY CITIZENS**

### alcatel-lucent.com/mci

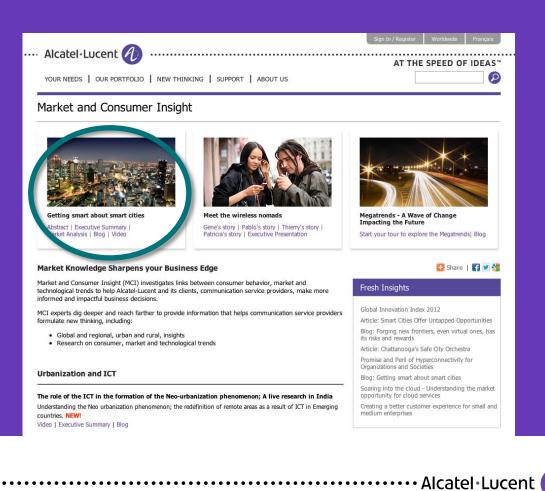
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