

THE MISSING PIECE: **VOICE OF SMART CITY CITIZENS** SAUDI ARABIA: FROM DESERT TO KNOWLEDGE ECONOMY



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SAUDI ARABIA'S SMART CITY IN FOCUS

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

A unique project:

- New smart city developed to reduce reliance on petrochemical industry
- Lures back Saudis studying abroad
- A work in progress: new Greenfield cities under development







THE STUDY Identifying smart cities and meeting their citizens



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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.

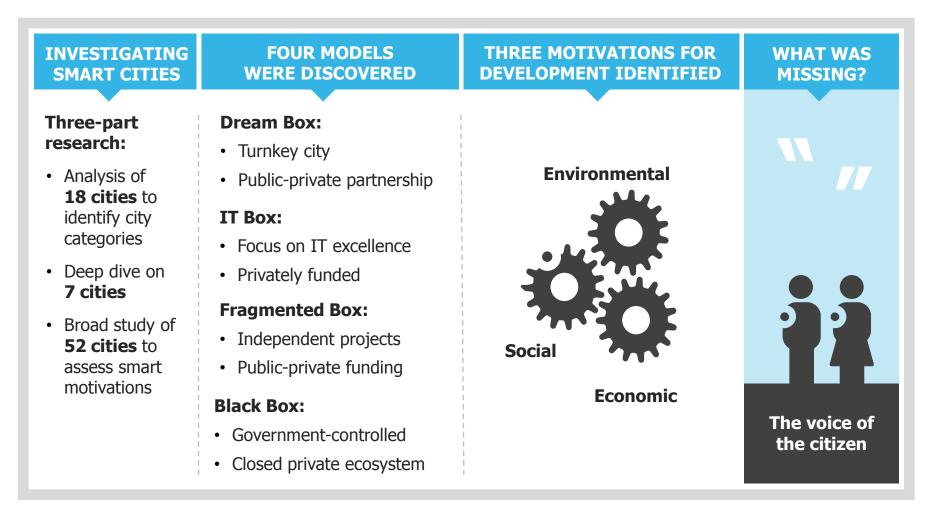
MCI experts dig deeper and reach farther to provide information that helps communication service providers formulate new thinking, including:

- 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

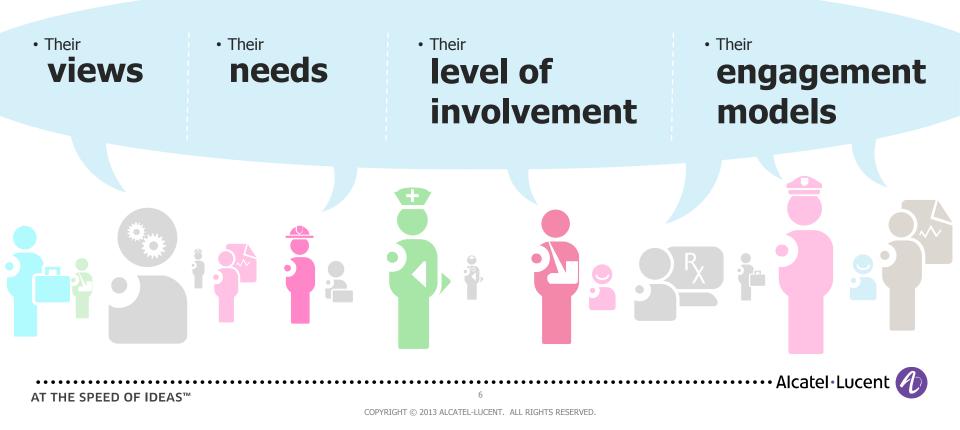
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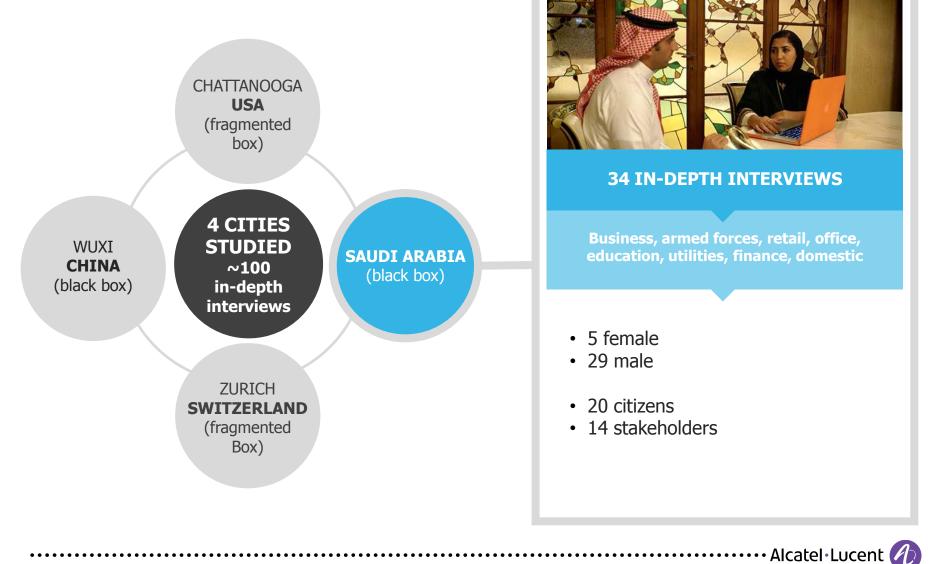
UNDERSTANDING THE CITIZENS

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 SAUDI CITIZENS AND STAKEHOLDERS



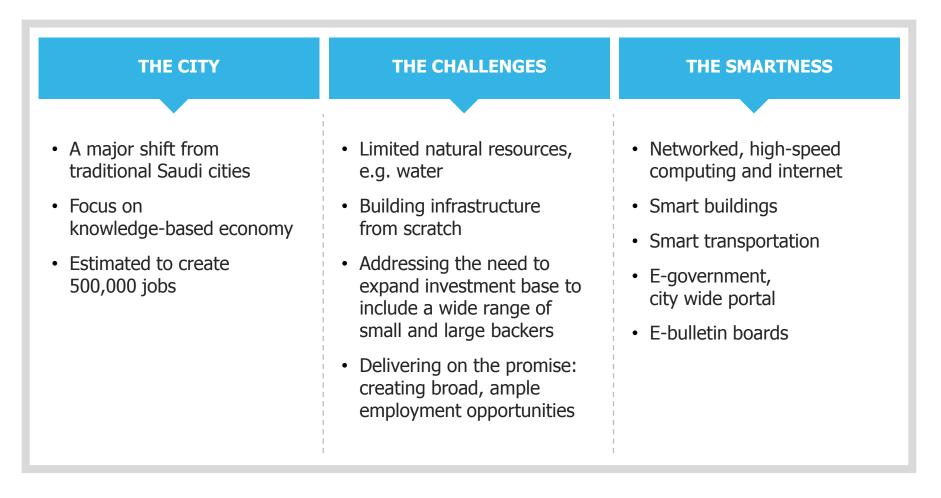
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THE CITY Why put Saudi Arabia's smart city in the spotlight?

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A GREENFIELD DEVELOPMENT Broadening opportunities to reduce reliance on petrochemicals



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THE CITIZENS Understanding the missing voice



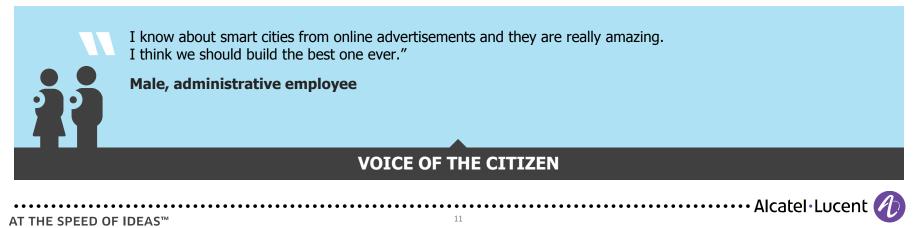
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ECONOMIC, SOCIAL AND ECO-SUSTAINABILITY IN EQUAL MEASURE

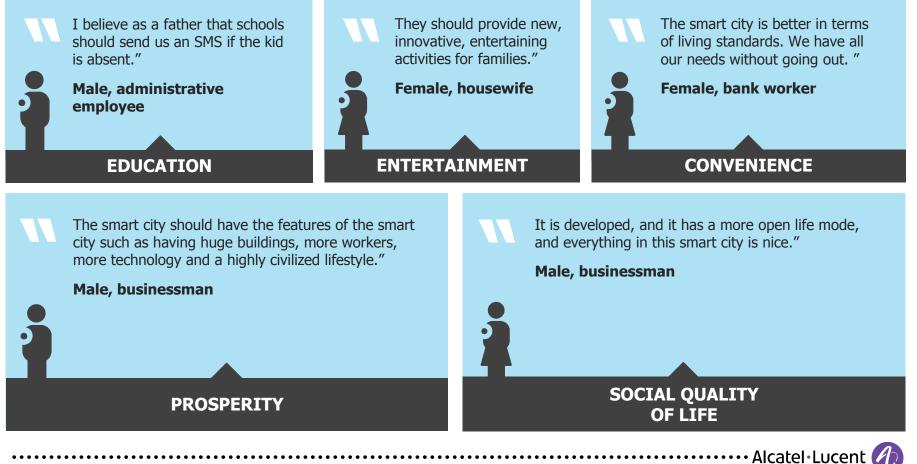
Citizens understand the smart city definition, and recognize the resulting economic, social, and eco-sustainability benefits.

- Economic creating a knowledge-based economy for well-educated Saudis who have studied abroad and returned home – building a new, broader economy in Internet, high tech and green tech
- **Social** opening up new opportunities for all Saudis, men and women. Creating a better way of life
- Eco creating a greener way of life with smart buildings and new energy sources



IMPROVED QUALITY OF LIFE

Citizens understand the significant cultural and social impact that smart cities bring.



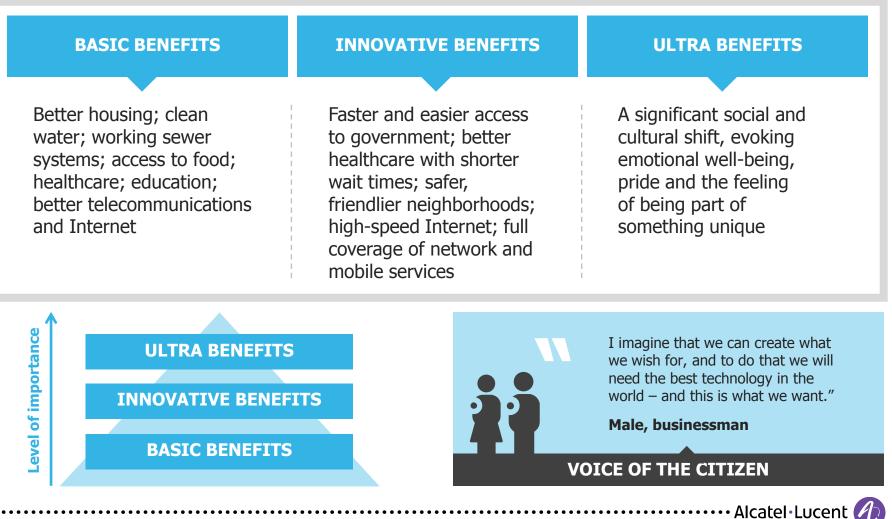
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BUILDING ON THE BASICS

Citizens have high expectations, and want services offering benefits on three levels:



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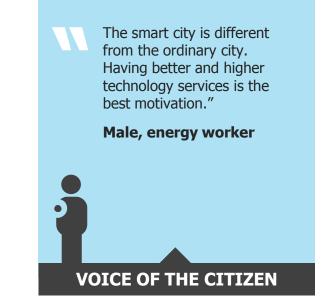
FOR NEW SERVICES: RELIABILITY AND AFFORDABILITY ARE KEY

Citizens like to have the choice that an open, competitive services market offers.

People want more interaction and better quality:

- Better customer service
- More reliable service: high speed, always-on access
- Flexible payment and finance options

New services must be relevant and applicable to everyday life – from health and education to transport and e-government.



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CONCERNS OVER LIFESTYLE AND TECHNOLOGY

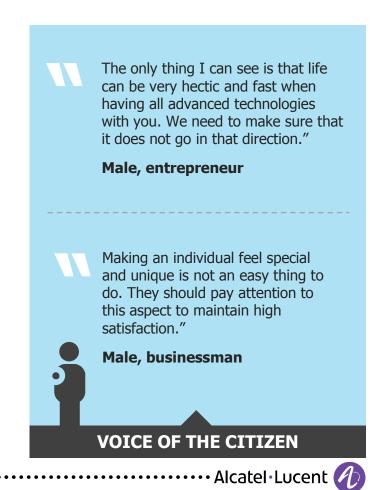
Citizens need to see that the smart city can live up to its promise – without eroding traditional values.

Key concerns revolve around:

- Finding a good job, based on the smart city delivering the broad economy it promises
- Limiting impact on the family-oriented lifestyle
- Handling increased contact with outsiders
- Coping with a busier, more chaotic pace of life
- Attaining the feeling of uniqueness

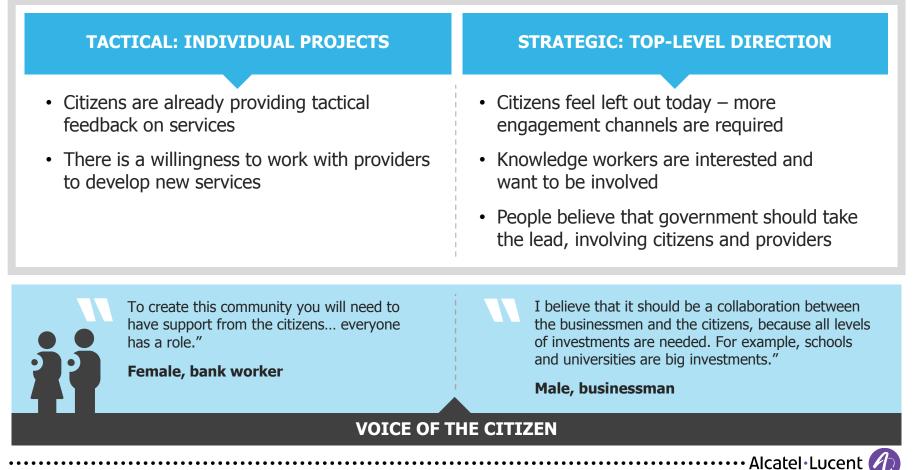
 the 'ultra benefit'

Ultimately, people want reassurance that their decision to live in the smart city was the right one.



CITIZENS ARE READY TO INCREASE THEIR INVOLVEMENT

Citizens show high interest in boosting engagement with service providers and stakeholders, at both strategic and tactical levels.



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THE STAKEHOLDERS

How are roles evolving to enable smart development?



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SOCIAL AND ECONOMIC MOTIVATIONS DOMINATE

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

Who is involved?

- Large real estate developers: enabling services and infrastructure, obtaining investment, acting as a core communication channel
- **Private enterprise**: the dynamo, driving new businesses
- **Government and regulators**: promoting participation, making key decisions, efficient regulating & monitoring

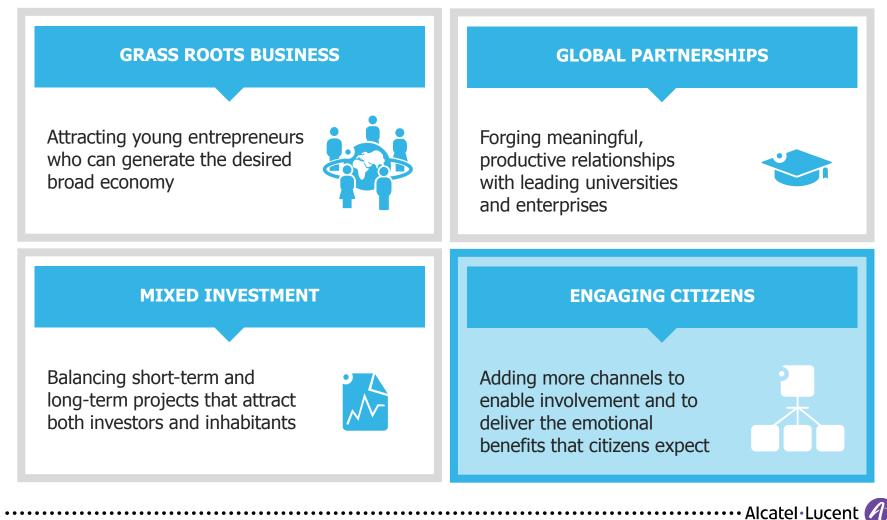
Citizens care a lot about this place and they would like to develop this area. This is great, and you don't find it in many places. This is their country and they think that it has very big future, and that's why they care a lot about it and they would like to develop it." Male, developer



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BUILDING THE DREAM

Stakeholders need to create an ecosystem that includes the citizen to fulfill the smart city promise.





THE IMPLICATIONS

Technology can deliver tangible benefits

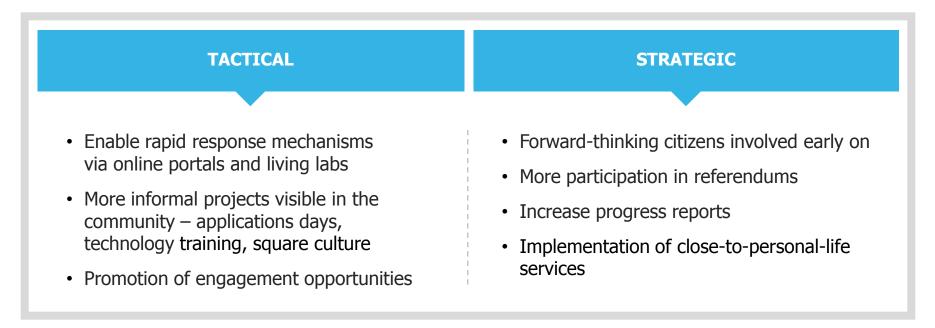
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WHAT CAN WE LEARN FROM SAUDI ARABIA?

- Technology is just the start
- Smart city developers and ecosystem players must deliver rational, emotional benefits that match citizens' lifestyle expectations
- Citizens should have multiple channels which facilitate involvement and enable them to voice their ideas
- There is a need to balance short-term and long-term planning to overcome investment challenges and generate demand for greenfield cities

ENGAGE CITIZENS IN TACTICAL AND STRATEGIC PROJECTS

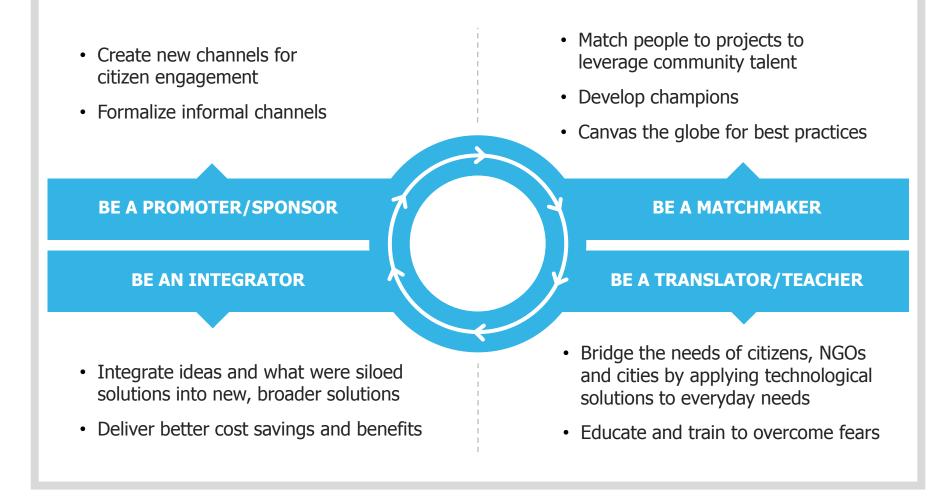


- Ensure that stakeholders play a role in increasing awareness of participation opportunities
- Continue formally organized projects as well as soliciting involvement in informal projects
- Provide access to data to encourage development initiatives
- Focus on tactical involvement first
- Celebrate and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

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NEW MODELS, NEW ROLES

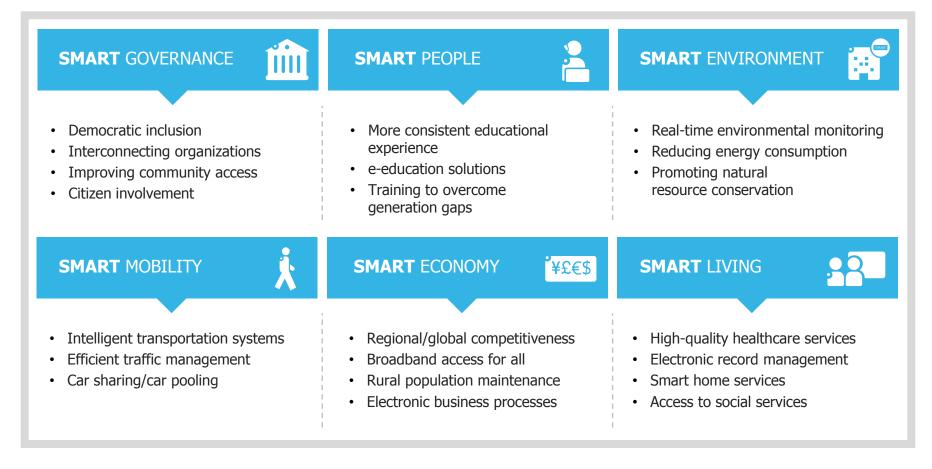


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THE OPPORTUNITIES ARE HUGE

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



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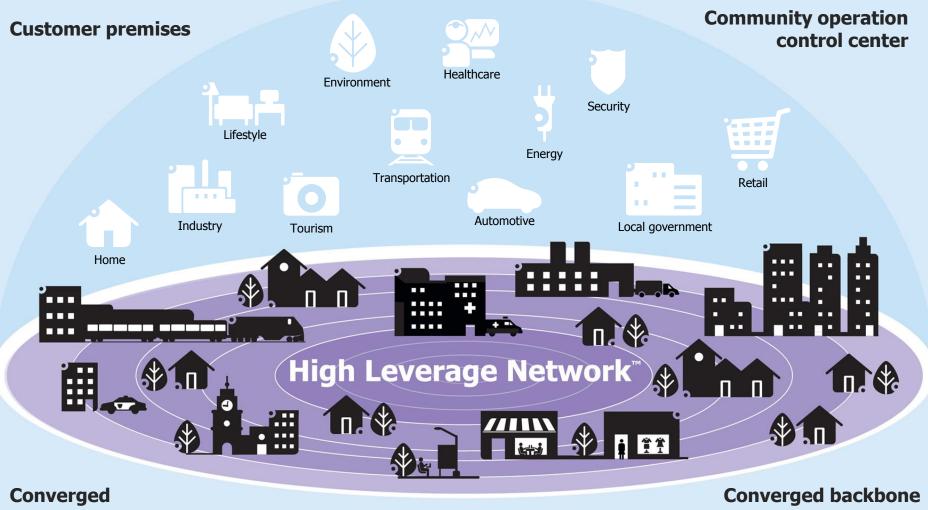
OUR SUPPORT Alcatel-Lucent can help you realize the smart city vision



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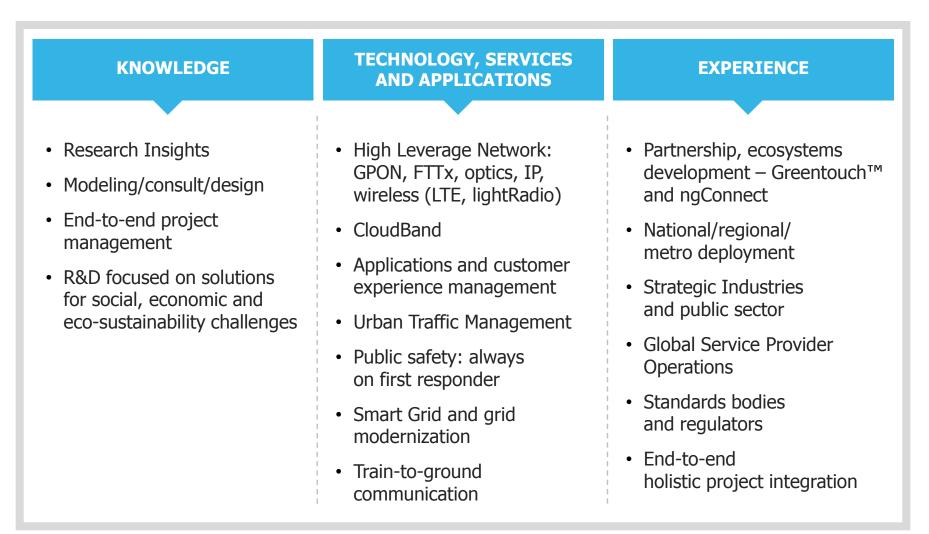
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EMPOWERING A SMARTER AND MORE SUSTAINABLE COMMUNITY



access network

ALCATEL-LUCENT SUPPORTS SMART CITIES



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MORE ABOUT SMART CITY CITIZENS

alcatel-lucent.com/mci

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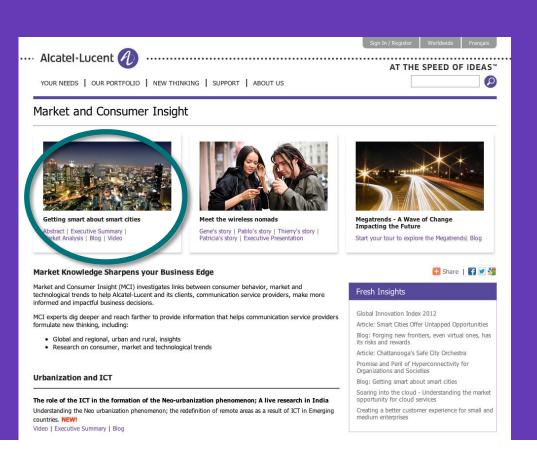
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