

# Everyone Benefits From The Intelligent City



## TRANSPORT

Getting people smoothly in and out of the city helps commerce, creates jobs, and reduces pollution and frustration. Commute and parking apps make it all work better.



Bonnie has a lunch date downtown. She checks her citizen commute app, and sees there are slow downs on every route. So she checks the bike sharing app, finds a close-by bike, and meets her friend with no delays. On the way back home, her one-bus-away-app tells her exactly how long she will wait for the bus.



The downtown commute and parking app gives shoppers directions and real-time parking availability, so more people shop. Relevant geofenced promotions also help increase traffic to downtown stores.



Smart parking could create \$41B by providing real-time visibility into the availability of parking spaces across a city.<sup>1</sup>



## ENERGY

When people have digital visibility to their energy rates and usage, they're able to better manage and control their energy use, save on their bills, and reduce pollution.



Theodore receives a customized report from his energy provider with tips on how to reduce his home energy consumption and costs—like running his appliances when rates are lowest.



City administrators are able to reduce their carbon footprint and improve renewable integration with real time consumption monitoring.



Consumers could save over \$443B a year with energy conservation.<sup>2</sup>



## WATER

A system of sensors, smart meters and flexible billing systems can help identify and alert residents to leaks—a major source of wasted water and high water bills.



Olivia's smart water meter lets her know via a text message that she is using much more water than usual. Her water app emails the water department, which sends her an automated email on how to turn off the water to her house, and a list of approved contractors who can fix her water line.



An approved water line contractor gets the call and fixes the line before more water is wasted. The contractor gets more customers, improving his bottom line and increasing taxes paid on that revenue.



More than 1/3 of the world's drinking water is wasted from unseen leaks, resulting in estimated lost revenue to utilities of \$14B annually.<sup>3</sup>



## GOVERNANCE

Governments can use digital platforms to decrease costs and increase transparency, tax revenues and customer service, all at the same time.



When Sean moves to a new apartment, his open government portal lets him send one email to set up his water, electricity, garbage and sewer accounts. His government portal also provides an easy way to see proposed developments in his neighborhood, and check crime stats.



This same portal gives businesses a way to request utility services, compute and pay their city taxes, and work with the planning department on new construction. Energy conservation services are also available through the portal.



\$1T global annual savings could be attained by optimizing public infrastructure.<sup>4</sup>

## Digital Governments Do More With Less & Improve Citizen and Business Relationships



By encouraging the use of transit via commuter apps such as bus locators, the Intelligent City reduces traffic and pollution and makes it easy for citizens to get to downtown businesses and jobs—which grows tax receipts.



The Intelligent City, through smart meters and smart billing, can vary electricity rates by times of day and seasons to more efficiently manage consumer demand while reducing their carbon footprint.



Water apps and smart meters can identify water leaks faster—which results in faster repairs and increased water conservation that helps the Intelligent City better manage growth and droughts.



Governments can reduce silos between departments and improve transparency by building city and customer apps that automate customer service. This allows cities to do more with less and deliver more value to their citizens and businesses.

TCS Digital Software & Solutions (DS&S) Group helps city governments and urban planners build smart, vibrant cities where citizens, businesses and governments thrive. Streamlined, flexible and delivered by cloud, TCS Intelligent Urban Exchange Solution (IUX) serves as the engine to launch

smart city initiatives quickly with an open data platform, a core set of urban planning applications, and citizen mobile apps that leverage its real-time analytic capabilities. Intelligent Cities—Intelligent Customer Interactions. It's all possible with IUX.

<http://www.tcs.com/digital-software-solutions/Pages/Intelligent-Urban-Exchange>