



The Computerworld Honors Program

Honoring those who use Information Technology to benefit society

Final Copy of Case Study

Status:

Laureate

Year:

2013

Organization Name:

Cisco

Organization URL:

www.cisco.com

Project Name:

Smart+Connected Communities: Lake Nona

Please select the category in which you are submitting your entry:

Innovation

Please provide an overview of the nominated project. Describe the problem it was intended to solve, the technology or approach used, how it was innovative and any technical or other challenges that had to be overcome for successful implementation and adoption. (In 300 words or less.)

Cisco's Smart+Connected Communities (S+CC) initiative is aimed at transforming global cities on both a digital level and physical level, effectively creating an electronic infrastructure that enables a truly "smart" city. Currently, cities across the world are designed as physical infrastructures and lack core technologies that provide sustainability and increase citizen access to vital services. Cisco's Smart+Connected Communities, like that at Lake Nona, optimize environmental footprints through energy awareness, while providing the means for city dwellers to efficiently access services such as healthcare and education. Cisco will help transform the city of Lake Nona into a connected and sustainable community, using the intelligent network as the core technology

platform. Residents, workers and visitors will experience urban services that provide enhanced living standards and Lake Nona can drive additional revenue by monetizing technology-led service offerings. Technology solutions, such as integrated data and voice and wireless services, fiber to the home, digital signage, common area IP video surveillance, energy management systems, unified communications, video and collaboration will deliver more than 20 smart services across the entire Lake Nona community. An integrated urban plan will enable information exchange between services, fulfilling the need for increased security, energy conservation, enhanced productivity and a digital lifestyle. Conceived to be an integrated city for working, living, learning and playing, Lake Nona will be home to world-class education, recreational facilities, a medical city, diverse workspaces, retail centers, entertainment choices and residential options. All this, of course, advances the community's blueprint as a smart community and "city of the future."

When was this project implemented or last updated? (Please specify month and year.) Has it incorporated new technologies and/or other innovations since its initial deployment? (In 300 words or less.)

In October 2012, Cisco and Lake Nona announced a formal partnership to transform the city of Lake Nona, one in which Cisco was appointed the lead partner for Information and Communications Technology (ICT) planning. Over the next 15 years, the two parties will work to build out different Smart+Connected Communities solutions. With an intelligent digital infrastructure, Cisco is creating a sustainable urban development at Lake Nona, an area half the size of Manhattan, to connect healthcare, real estate, retail, education and other community services. Cisco is collaborating with Lake Nona on a number of key initiatives aimed at advancing the community's vision of becoming a global model and standard for sustainable urban development. On October 23, 2012, Lake Nona kicked off its inaugural Impact Forum in Orlando, Florida, celebrating key milestones in development of the community, the first Iconic S+CC city in the U.S. Working with Cisco and Cisco registered partner Dais, Lake Nona has integrated the latest networking technologies and digital infrastructure design to enrich the experience for more than 25,000 planned residents, tens of thousands of on-site employees and countless visitors. Pursuant to the proposals, Lake Nona will significantly expand its current IP-enabled smart services to deliver hundreds of additional services such as Smart Work Centers, intelligent buildings, a virtual safe community, and unified lifelong health care delivery, learning and education.

If this is a previously submitted project that has been significantly updated and/or expanded, please describe the nature of the update here. (In 300 words or less.)

N/A

Is implementation of the project complete? If no, please describe the project's phases and which phase the project is now in. (In 300 words or less.)

The project is not complete. In total, Cisco's work will take place over a 15-year period during which time Cisco will significantly expand the current 20+ citizen services to include: Unified Medical City Virtual Safe Community Unified Life Long learning and Education Smart Work Centers: Transportation, Sports and Entertainment, and Retail.

Please provide at least one example of how the technology project has benefited a specific individual or organization. Feel free to include personal quotes from individuals who have directly benefited from the work. (In 300 words or less.)

As competition between cities for talent, business, investment and tourism increases, city leaders see a growing role for technology to enable the development of communities that champion social, environmental and economic sustainability. A Smart+Connected Community is designed with technology at the center to improve the efficient management of city operations and the development and delivery of new services to citizens. Because Lake Nona is adjacent to the Orlando airport, it is being developed as a World Class Medical City and Aerotropolis "Airport City." By definition, an Aerotropolis is an urban plan in which the layout, infrastructure, and economy is centered on an airport, existing as an airport city. Situated adjacent to the Orlando International Airport, Lake Nona will have the characteristics of an Aerotropolis with the ability to more easily connect workers, suppliers, executives and goods to the global marketplace. The Medical City has already brought together the brains associated with Nemours Children's Hospital, the U.S. Department of Veterans Affairs Hospital, the University of Central Florida Medical School and Sanford-Burnham Medical Research Institute. At the beginning of 2012, 400 people were employed at Lake Nona. This figure is projected to rise to 4,000 by the end of 2013, with the majority being newly created jobs. Ultimately over 2 decades, 40,000 new jobs could be created here, with 35,000 residents in the community.



Would this project be considered an innovation, a best practice or other notable advancement that could be adopted by or tailored for other organizations and uses? If yes, please describe that here. (In 300 words or less.)

Cisco's work with Lake Nona can be considered an innovative best practice for other organizations to adopt. Lake Nona is the first and currently ONLY Iconic S+CC City in the U.S. An Iconic S+CC City requires a high-touch team, non-standard business model and development of broad partner ecosystem. With Lake Nona, Cisco is driving starburst opportunities on global basis. At this point, only two other S+CC Iconic Cities exist in the Americas, one in Rio de Janeiro, Brazil; the other in Toronto, Canada. When investing in a Smart+Connected Community, Cisco recommends looking for visionary leadership in transforming a city, enterprise or a vertical. It's imperative to understand if the community embraces global standards for health, education, safety and security. Cisco also bases its work on open standards using IP as the platform, creating new opportunities for collaboration a true public/private partnership.