

Consumer  
Electronics Show  
Recap

January 28, 2020

# Consumer Electronics Show



## What is CES?

CES is the world's gathering place for all who thrive on the business of consumer technologies. A high-level business event that touches all industries, it's the place where business gets done.

- 175,000+ attendees
- 160+ countries represented
- 4,500+ companies exhibited



**SUSTAINABILITY**

**MOBILITY**

**LIVABILITY**



# International Pavilion



Holland, Japan, Switzerland, Italy, France, Israel, Hong Kong



# Why Coral Gables?

*Coral Gables was the only city in the U.S. to exhibit.*

## Mission

- Promotional
- Educational
- Research





# Coral Gables Exhibit Booth at CES 2020



## ❑ Smart City Framework, Initiatives, Best Practices Exhibition:

- Live Demo: Smart City Hub Public Platform, Transparency Portals, Open Data, IOT, Smart Buildings, BI/AI/ML, CIC, City Apps, GIS, Other Technologies
- Smart Districts, Infrastructure, Technology, Network Resilience
- Strategic Plans - City, IT, Sustainability, Mobility, Horizontal Integration
- Smart City Engineering Framework, Smart City Tech Governance Models
- Quality of Life & Customer Service Benchmarks

## ❑ Innovation Hub and Economic Opportunities:

- Economic Profile, Coral Gables unique advantages, City Benchmarks

## ❑ Handouts and Support Material:

- Coral Gables Brochures (Smart City, Economic Development)

- Gables Chamber of Commerce, MD Beacon Council, Innovate Miami

## ❑ Meetings, Demonstrations, Visitors:

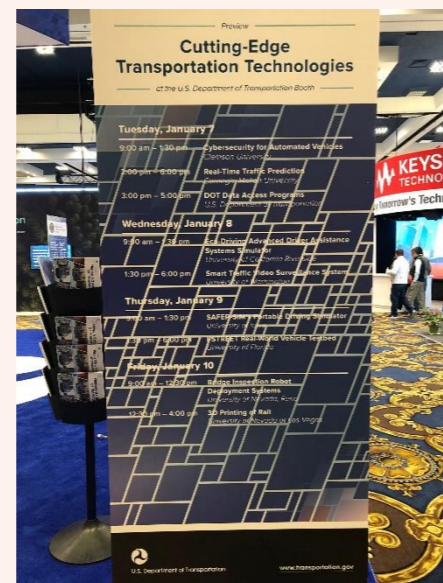
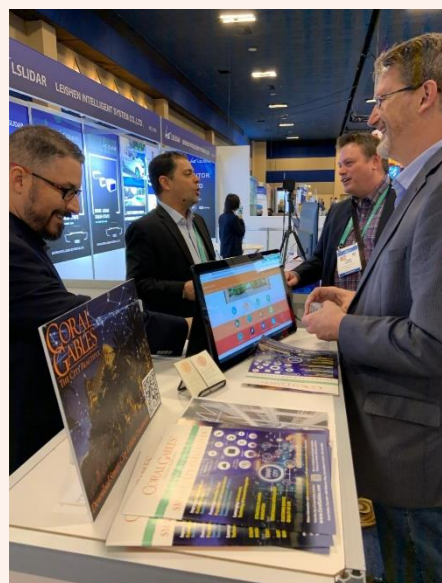
- NIST, UM & other Universities, Smart City Lab, Non-Profit/Research Orgs
- International Trade Organizations, Startups, Industry Leaders, Investors, Experts
- Media: CTA/CES Media, Smart Cities World, WaPo, Kurrent Insights



# Smart City Learning & Collaboration at CES 2020

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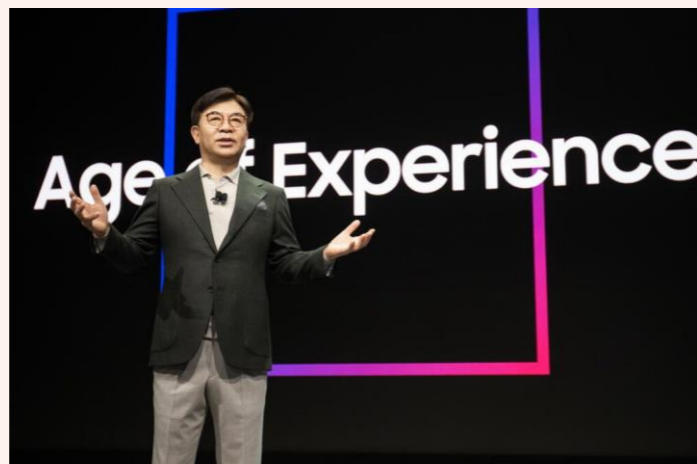
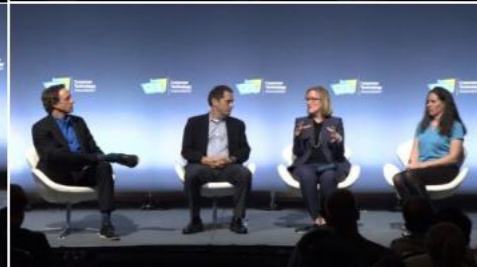
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- National Institute of Standards & Technology (NIST)
- Smart City Lab & Fiware Foundation, European Union
- Smart Cities Council
- University of Miami (UM) and others (ASU, SNU...)
- US Department of Commerce (USDOC)
- US Department of Transportation (USDOT)
- Department of Homeland Security (DHS & CISA)
- Federal Aviation Administration (FAA)
- Internet of Things Consortium (IOTC)
- Cellular Telecommunications Industry Association (CTIA)
- Consumer Technology Association (CTA)
- Other municipalities (Las Vegas, Cary, LA, San Jose...)



# Smart City & High-Tech Sessions at CES 2020



- Smart City Resilience & Public Safety Technologies
- Smart Cities Public-Private Partnerships (P3)
- Smart Buildings, City Infrastructure Technology
- Internet of Things (IOT)
- Keynotes from Renown Tech Leaders and Top Experts
- Electronics industry new products and innovation
- Robotics & AI
- Electric/Connected/Smart/Autonomous Vehicles
- 5G and smart cities wireless communication networks
- Security Trends



# Smart City Cutting-Edge Technologies at CES 2020

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- ❑ **Mobility:** prototypes and new products related to AVs, EVs, LiDAR, photonics, robotics, smart parking systems and other impressive tech
- ❑ **Artificial Intelligence (AI) & Robotics:**
  - Tools that automate development of AI models -data scientists & engineers can rapid-deploy realtime analytics from video, IOT & data sources. Bots.
  - Robots & Drones for public safety, smart parking, EVs, datacenters, warehouses, SCM/delivery, city use cases, Education
- ❑ **Resilience, Public Safety, Security:**
  - Energy management, EV charging stations, Green Tech
  - Internet of Things (IOT), Smart Infrastructure, Smart City control platforms
- ❑ **Network Electronics (Backend & Client hardware):**
  - Augmented Reality, Virtual Reality electronics, applications, use cases
  - Computer systems, quantum computers, AV systems, user interfaces



# CES 2020 Follow Up: Lessons Learned, Projects & Partnerships

**smart city**

**CORAL GABLES**  
THE CITY BEAUTIFUL  
A World Class City with a Hometown Feel

**SMART DISTRICT PROJECTS**

STRATEGIC PLANNING – INNOVATION    CONTINUOUS IMPROVEMENT    CUSTOMER SERVICE – QUALITY OF LIFE

**SMART CITY ECOSYSTEM**    COLLABORATION, PARTNERSHIP, INTELLIGENCE / CUSTOMERS, STAKEHOLDERS AND TECHNOLOGY

PEOPLE    BUSINESSES    ORGANIZATIONS    THINGS    I.T. SYSTEMS

**SMART CITY HUB**    VALUE, TRANSPARENCY, OPEN DATA AND ANALYTICS, ACTIONABLE INFORMATION, EFFICIENCIES  
CITIZEN ENGAGEMENT, MOBILITY, ACCESSIBILITY, INCLUSION, CROWDSOURCING, COLLABORATION

**DATA MARKETPLACE**  
OPEN DATA PORTALS

**APP STORE**

**TRANSPARENCY PORTALS**

**CRIME INTELLIGENCE CENTER**

**IoT DASHBOARDS**

**ENTERPRISE SYSTEMS • eGOV**

**CITIZEN ENGAGEMENT**

**GIS PORTALS**

**DATA PLATFORMS**    DATA AGGREGATION, INTEGRATION AND CORRELATION / BUSINESS INTELLIGENCE AND ANALYTICS BACKEND

**PUBLIC & PRIVATE CLOUDS & DATACENTERS**

**BIG DATA-AGGREGATION & ANALYTICS**

**ARTIFICIAL INTELLIGENCE & MACHINE LEARNING**

**VIDEO ANALYTICS**

**OPEN DATA & APIs**

**HORIZONTAL & VERTICAL INTEGRATION**

**INTERNET OF THINGS**    REAL-TIME URBAN AND ENVIRONMENTAL VISIBILITY / PHYSICAL INTERFACING

**SMART LIGHTS**

**TRAFFIC & PARKING SENSORS**

**PUBLIC SAFETY SMART EQUIPMENT**

**ENVIRONMENTAL SENSORS & ACTUATORS**

**SMART DEVICES**

**SMART KIOSKS & DIGITAL SIGNAGE**

**ROBOTICS & SMART VEHICLES**

**HIGH SPEED COMMUNICATIONS AND RESILIENCE**    ROBUST, RESILIENT SMART CITY NETWORK FOUNDATION

**RESILIENT NETWORK**

**FIBER OPTICS**

**WIRELESS BACKBONE**

**METROPOLITAN ETHERNET**

**PUBLIC & PRIVATE WI-FI NETWORKS**

**SATELLITE & CELLULAR COMMUNICATIONS**

**SMART ENERGY RESILIENCE**

- Open data platform with Smart City Lab & Fiware Foundation
- AI models for enterprise systems & IOT sensors test/pilot
- Smart city street safety/telecom hubs demo/pilot (new technology)
- Robotics educational games for Children
- Smart City Demo Lab with UM, follow up with other universities
- Immersive Reality (XR) pilot project
- Follow up with trade organizations, businesses, and innovation district organizations (Economic Development)
- Strategic partnerships with leading industry/gov organizations; participation in thinktanks & collab. programs (IOTC, GSX, CTIA, NIST/NTIA/DHS/GCTC)
- Insight gained from meetings with Industry Leaders (IOT, connected vehicles, telecommunication, smart cities innovation) used for strategic planning, engineering, process improvement and project management
- City Projects: smart districts, IOT, data/transparency portals, geofence, mobility tech, smart parking, sustainability, network resilience, Innovation hub, ERPs...



# City of Coral Gables Recognition at CES 2020

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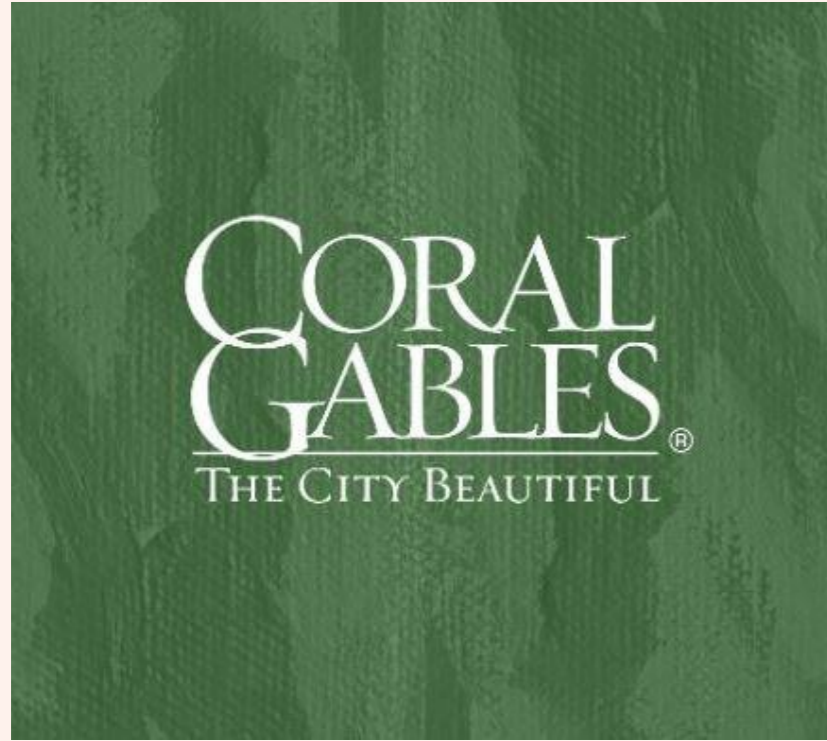
## ❑ NIST & GCTC:

- "Coral Gables innovative approach to solving problems is a great model for Communities."
- "Cities like Coral Gables demonstrate a concern for both economic and social value propositions."
- "Coral Gables has created their own ecosystem and a partnership model at a City level."
- "Impressive work on transforming Coral Gables into a smart city by embedding the concept in many traditional infrastructure projects."

## ❑ Industry leaders:

- "Great exhibit", "The hit of the show!"
- "Coral Gables shining during CES 2020! Nicely done"
- "The City of Coral Gables is dedicated to promoting the development of a smart city ecosystem by continuously developing and fostering innovation."
- "Coral Gables rock it! You are the benchmark! Looking forward to our collaboration!"
- "Looking forward to learning more about your experiences as you evolve your smart city!"
- "We look forward to work with you on a Smart City Demo Lab to pilot new innovations."
- "It is great to see my community getting involved in the planning for and implementation of one of our cities to become smart. I am hoping the trend is catching on in all of South Florida."





Thank you

January 28, 2020