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Town of Cary



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ABOUT RIOT

RIoT is a 501(c)(3) brought to you by the Wireless Research Center and our sponsors. RIoT has grown significantly since starting as a Meetup group in 2014, and while RIoT continues to serve as a convener for the IoT community, RIoT also offers a startup accelerator, R&D lab, educational programs, and more.

A Network of Living Laboratories

Many made possible by DHS Support



Winchester
Virginia
Municipal Drone Ops

ROANOKE
Integrated Water Management



TOWN of CARY
NORTH CAROLINA
Civic Infrastructure



RVA
Airspace Awareness

Garrisonville
Smart Bases
Workforce Development
AR/VR/Immersive Tech



WASHINGTON DC
In-Building Sensors



STAFFORD
Virginia
Smart Communities
Secure IoT
Public Safety



NORFOLK
THE CITY OF
Port Security
Advanced Air Mobility



RIoT Accelerator Program (RAP)

- 12-week intensive program (September 28th - December 15th) | Apply by July 29th
- Located both virtually and in person @ Virginia Smart Community Testbed | Stafford, VA
- Access to 100+ Mentors & Corporate Partners with expertise across industries
- Creative startup environment to develop fresh ideas
- Validate business viability of a new product offering
- Develop new technical capabilities and test MVPs

<p>Validation <i>Startup Foundations & Customer Discovery</i></p> <p>Week 1: Orientation - Business Best Practices, Key Performance Indicators</p> <p>Week 2: Startup Foundations & Customer Discovery</p> <p>Week 3: Startup Legal & Financial Management</p>	<p>Product & Business Development <i>Prototyping & Go To Market Strategy</i></p> <p>Week 4: MVP Strategy & Design Review</p> <p>Week 5: Go to Market Strategy</p> <p>Week 6: Data Engineering</p> <p>Week 7: Sales & Branding</p> <p>Week 8: Pitch Prep, Stakeholder Engagement</p>	<p>Growth <i>Storytelling & Scaling Strategy</i></p> <p>Week 9: Growth Strategy - Team Building</p> <p>Week 10: Growth Strategy - Funding</p> <p>Week 11: Pitch Practice, Mock Board Meetings</p> <p>Week 12: Pitch Night</p>
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IoT Data Infrastructure Supports Many Types of Devices



Air Quality/
Wildfire



Weather
Stations

Smart Lighting/
WiFi



Drone Video/Data



Information
Kiosks



Flood

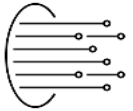


Robotic
Devices

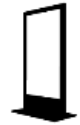
Digital Infrastructure

Scalable/Interconnected

Fiber IoT Cell-Macro, Small & DAS Wi Fi Private LTE & 5G Smart Poles Devices



Cameras



Kiosks



Computers/Tablets



Sensors

LoRa®



DenseNetworks.com



CORNING

“When business development decided to transition some of our networks to fiber deployments, we approached MEC and they asked us ‘what took you so long?’ – they were all in,” explains TWN’s VP of Sales/Marketing & Business, Ami Rodriguez.

“MEC had a desire to not only improve broadband services and increase bandwidth, but they also wanted to utilize the fiber network for several of their own infrastructure improvements.”

Why Go It Alone? There’s Power in Partnerships

TWN Communications & Mohave Electric Cooperative



CORNING

“I’m a big believer in taking care of issues now and not leaving problems for the future. Baldwin City’s governing body and department heads have many accomplishments that I’m proud of, and chief among them is gigabit fiber. It will serve our community for the foreseeable future, helping the people and businesses in Baldwin City to realize their potential right here at home.”

Marilyn Pearce, Mayor of Baldwin City

Baldwin City, Kansas

Local leaders seize the promise
of community broadband

Smart buildings & campus: Challenges



Disparate building automation and energy systems; islands of information



No established baseline to compare asset performance and identify energy losses



Traditionally geared towards retro commissioning



Lack of diagnostic/predictive capabilities



No single view of building portfolio: Scattered information cause people to miss patterns



Solutions need to be more secure and IT-friendly

Smart buildings & campus: Capabilities

Are the lights left on when not in use? Is the air conditioning optimized when the room is empty?

Building automation solution provides integration to multiple systems like building controls, security, utilities, maintenance and energy monitoring systems.



Fault monitoring



Heterogeneous building systems integration



Energy consumption analytics



Bi-directional control



Condition-based predictive maintenance



Campus safety & security



Rule-based equipment control



Work order management integration



Edge device security



Digital twin

Smart buildings & campus: Key outcomes



Buildings tell you when there's going to be a problem



You plan maintenance instead of responding to emergencies



Improved tenant well-being



Productivity measures Increase



Reduces your energy consumption



Space utilization is optimise using real-time data



Your buildings evolve as your occupants change



Occupant user experience is enhanced

CORNING

Reducing construction costs was necessary for making rural expansion economically feasible. And partnership was the key to achieve the results

Reducing costs to reach
fiber expansion goals

How SaskTel partnered with Corning to reduce fiber buildout costs by 27%