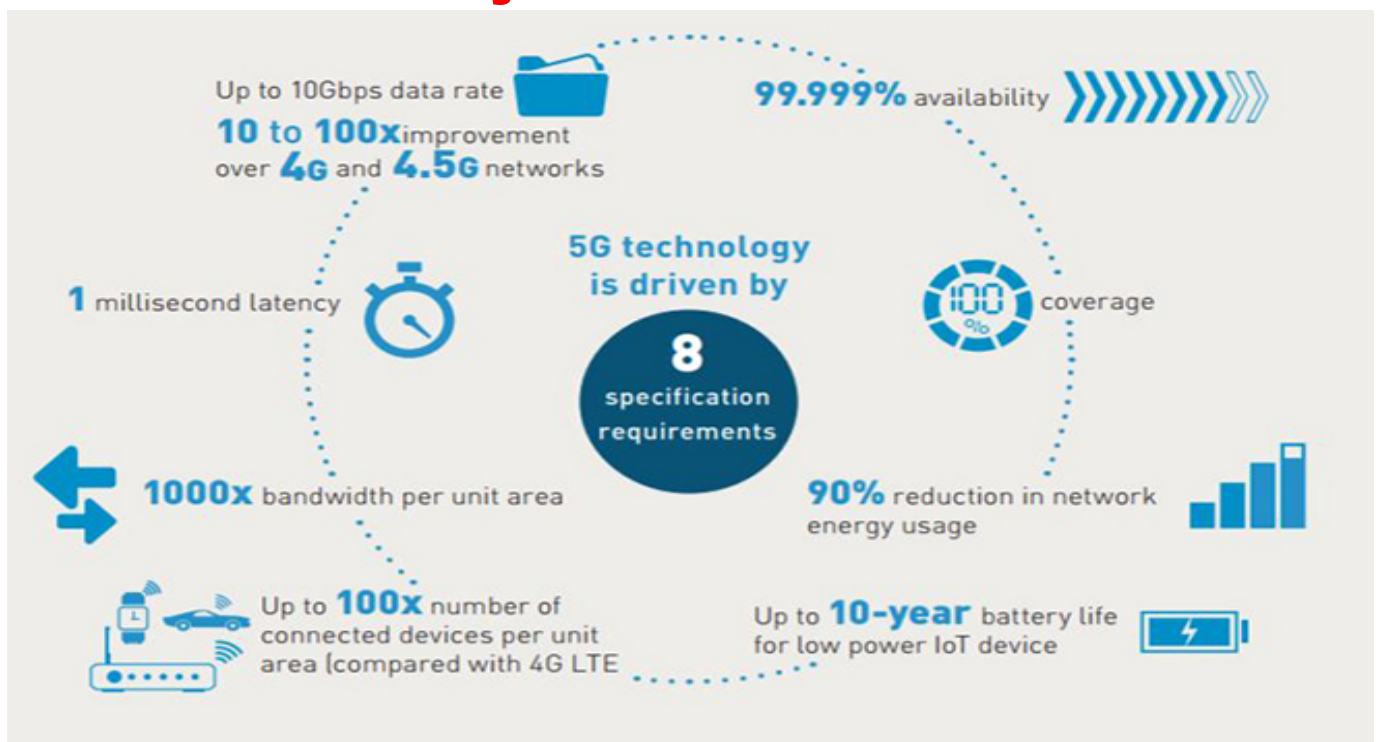




NEWSLETTER

MAY 2019
ISSUE #5-VOLUME 2

Are You Ready for The 5G Revolution?



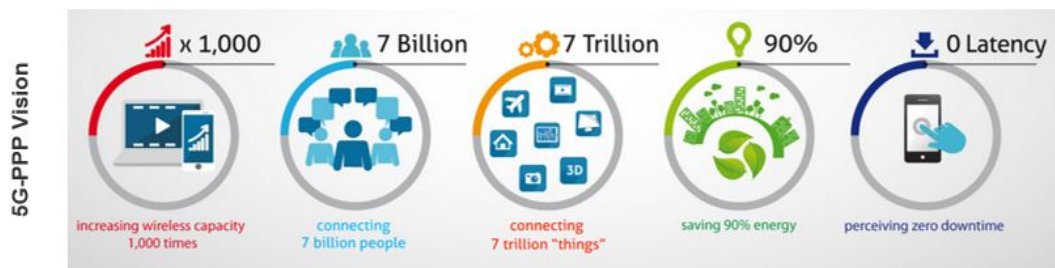
First of all, the big question is, "What Is 5G and What's So Great About It"? The answer is 2 fold; **Speed and Connectivity**. In the image above you can see the improvement of your signal from 10 to 100 times using a 4G and 4.5G network! This is not even 5G and right now the 4G network is 99.999 percent available. So driving through places where we drop calls out, and in rural areas where connectivity is very limited will be a thing of the past. Imagine no buffering or lag time while watching an internet movie on Netflix or YouTube.

So here is 5G in a nutshell:

- 5G networks started hitting the market at the end of 2018, and expanded worldwide
- Speed improvements (see image above)
- 5G is expected to unleash a massive IoT ecosystem where networks can serve communication needs for billions of connected devices
- Balanced trade-offs between speed, latency and cost.

5G technology is driven by 8 specification requirements (see image above):

- Up to 10Gbps data rate - > 10 to 100x improvement over 4G and 4.5G networks
- 1-millisecond latency
- 1000x bandwidth per unit area
- Up to 100x number of connected devices per unit area (compared with 4G LTE)
- 99.999% availability
- 100% coverage
- 90% reduction in network energy usage
- Up to 10-year battery life for low power IoT devices
 - Refers to LPWAN (Low Power Wide Area Network) primarily remote devices used over the network



Source: 5G Infrastructure Public Private Partnership (5G-PPP) <https://5g-ppp.eu/> Reprinted with permission.



This is just the start of an integral part of the IoT revolution. Just like television changed the standards to will our homes, communication, transportation and too many components to think about will change.

The Internet of Things is a network of smart objects and cloud infrastructure; exchanging data and then transforming it into actionable intelligence. This convergence of IT (information technology) and OT (operations technology), draws its strengths from both worlds such as use of sensor technology to gather insights from the field, and using data analytic capabilities in the cloud.

Currently the 5G process is limited to trial cities, but by the end of 2020 many more cities will be included in the process. Currently these companies have established networks and hotspots. Most cell carriers are offering 5G compatible cell phones. Follow the links below to stay informed about 5G and what's next.

Verizon
Indianapolis
Houston
Los Angeles
Sacramento
Chicago
Minneapolis

ATT
Atlanta
Charlotte
Raleigh
Dallas
San Jose
Houston
Indianapolis
Jacksonville
Louisville
New Orleans
Oklahoma
San Antonio
Waco
Orlando
Florida
Las Vegas
Nashville
Los Angeles
San Diego
San Francisco

T-Mobile
Listing Not Available

Links to complete articles on this fascinating information:

<https://www.verizon.com/about/news/top-5-things-you-need-know-about-5g>

http://www.skyworksinc.com/Products_5G.aspx?gclid=EAIaIQobChMIxeDki_GB4gIVBNvACh2A7QvpEAAYAiAAEgJdA_D_BwE

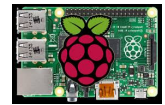
<https://www.digitaltrends.com/mobile/att-5g-rollout/>

Sign up now for summer 2019 during May

Toyota/Bodine Aluminum - Sponsor



Want to learn how to use computers...in your everyday life?
 Want to learn how to build...your own computer or a digital power stick?



Are you entering 3rd, 4th, 5th, 6th, 7th, 8th, 9th or 10th grade this fall?
 If you are interested in how computers actually work and don't have a PC of your own...sign up

Sponsored by:

North County Churches Uniting / Toyota/Bodine Aluminum Computer Training Academy

North County Churches Uniting For Racial Harmony and Justice (NCCU)
 Co-sponsor at **John Knox Presbyterian Church** with **Computer Village**

In this program, you will build or repair a computer and learn how to use the software you install on the computer. Plus, you get to keep a computer or a digital power stick!

Program takes place on Wednesdays, Thursdays and Fridays
10 am to 12:10 pm – or 1pm to 3:10pm
dates are June 12th, 13th, 14th, to July 3rd, 5th, 6th (Saturday awards)

***Cost: \$60.00** for the whole program includes training and a desktop computer a limited number of scholarships are available (24 hours of class time). All training sessions will be held at John Knox Presbyterian Church, for details see below.

Applications are due by **Monday, June 5th**. Mail applications to:
 John Knox Presbyterian Church 13200 New Halls Ferry Rd. Florissant, MO 63033
 contact 921-5833 Kim Chandler or Don M. Holt at 537-0274

Specify when you write or call NCCU - Toyota/Bodine Aluminum Computer Training Academy

A total of 40 seats are available on first come, first served basis.

Open to 40 students entering 3rd, 4th, 5th, 6th, 7th, 8th, 9th or 10th, grade in the fall of 2019

Class Dates (morning group 10 am to 12:10pm--or--afternoon group 1pm to 3:10pm)

<u>JUNE</u>	<i>Wednesday</i>	<i>Thursday</i>	<i>Friday</i>
	12th	13th	14th
	19th	20th	21st
	26th	27th	28th
<u>JULY</u>	<i>Wednesday</i>	<i>Thursday July 4th no class</i>	<u><i>Saturday Awards Ceremony</i></u>
	3rd	Friday July 5th	6th

Application for Summer Computer Training 2019

Sponsored by:

Toyota/Bodine Aluminum Computer Training Academy

North County Churches Uniting

For Racial Harmony and Justice (NCCU)

with Computer Village and co-sponsor John Knox Presbyterian Church

2019 Training provided by:

Computer Village, a non-profit bridge over the digital divide and a community based technology and computer training organization

Please Print Clearly:

Student Name	
Address with zip code	
Phone	
cell phone	
e-mail address	
Parent Name	
<i>Parent or guardian (to contact in case of emergency)</i>	
Parent Phone	
Grade entering in fall, 2019 along with school you attend	
Computer experience	
Student's Name	
<i>has permission to participate in the summer program at John Knox in conjunction with Computer Village.</i>	
Signature	
<i>Signature of parent or guardian</i>	

How did you hear about this program?

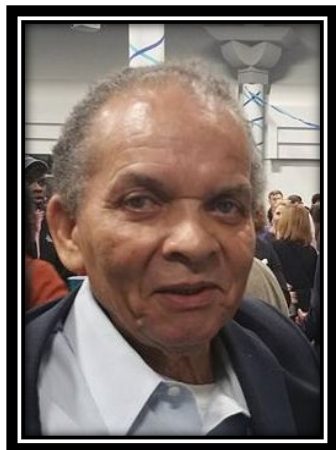
You must apply early....applications can be submitted now!!

Make your application and \$60 program fee check made payable to NCCU no later than 5:00 pm Monday June 5th, 2019

Mail applications to:

John Knox Presbyterian Church 13200 New Halls Ferry Rd. Florissant, MO 63033
contact **921-5833 Kim Chandler**, or Don M. Holt – Computer Village 741-4854

Specify when you write or call NCCU / Toyota/Bodine Aluminum Computer Training Academy



Don has been on the battle field for youth development and education for over 30 years. Retirement from Xerox only gave him more time for his passion. Don Holt is an “Unsung Hero” and advocate for youth, education and the black community.

“Don continues to stress the importance of IoT as a major component for the growth of young people associated with job stability and economic success in our community.”

Computer Village



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