

**SARASOTA TECHNOLOGY USERS
GROUP
ROUND TABLE DISCUSSION
5G TECHNOLOGY
PAUL S. WAX, INSTRUCTOR**

What Is 5G Technology?

- **5G is the fifth generation of wireless technology which will be significantly faster than its predecessor the 4G technology that we are using today.**
- **(4G) Long-Term Evolution (aka LTE) wireless technology provides the foundation for 5G. 5G will:**
 - **Provide a faster and more reliable wireless network**
 - **Utilize a type of broadband wireless communication to transmit data signals and voice signals on a worldwide basis**
 - **Improve network infrastructure which is one of the biggest reasons why it hasn't been fully deployed as of yet.**

- **5G will be 100 times faster than the 4G networks today.**
- **5G will relieve the current congestion problems due to an increase in the use of wireless networks.**
- **Think of it as Route 75 being widened out in both directions to handle more traffic and raising the speed limit - (Safely, of course!)**
- **5G will work on different radio frequencies than the current 4G Networks which should avoid slowdowns and allow the use of more devices at the same time.**
- **For example 4G Networks run at 45MB per second; 5G at 1 GB per second**
- **What does this all boil down to for me?**
 - **Faster speeds - faster downloads - an entire movie in seconds!**
 - **More detailed video**
 - **Clearer audio reception**
 - **Use of augmented and virtual reality applications even on smart phones and tablets**

- **Faster computing for drones and robots - AI**
- **Internet services will allow users to have a much higher data limit in their homes along with better speeds.**
- **Will it cost more? - Depends on provider (Verizon, Comcast/Xfinity, AT&T, etc.). ET CAVEAT EMPTOR!**
- **First 5G enabled phones to be rolled out this year (2019) - Motorola to be the first.**
- **Will overlap with existing 4G Networks until they are phased out. This will take a few years - so don't hold your breath!**