



## [Brooklyn 5G Summit 2017 wrap-up](#)

[Steve Taranovich](#) - April 21, 2017

[Lauri Oksanen](#), VP Research and Technology at NSN-Nokia Solutions and Networks gave a nice summary wrap-up of the two-day Brooklyn 5G Summit held at NYU Tandon School of Engineering and co-hosted by NYU WIRELESS and Nokia that ended today on April 21, 2017 (see his interview with CNBC below).

### **5G selling has already begun**

Oksanen referenced [Dr. Frank Fitzek](#), TU Dresden, Germany who had commented that first time providers were talking to their customers already.

Seizo Onoe, CTO at NTT DoCoMo said that we should all jump on the 5G bandwagon and talk about it. The reason is that 5G can create new business and ecosystems by collaboration between industries and verticals. One excellent example of a benefit is connected cars, which was discussed quite a bit at this summit.

### **A surprise**

One thing that surprised me was that there was much discussion and disagreement regarding the definition of [Massive MIMO](#) and also the meaning of [Slicing](#). Mr. Oksanen said that regarding both of these terms, a common language is not there. The question is whether the issue is semantics or as I see it, a difference of opinions of the definition of these technologies by the different players. He says clearly the definitions have some more to be discussed as 5G moves toward maturity.

### **5G will come soon**

The first phase of the non-standalone standards will be by the end of 2017. Some on one of the panels asked if the RF standards will also be ready by then; the panel was cautiously optimistic about that schedule. A commercial network technology platform has already been shown and the device modem technology is on track.

Two years from now, in 2019, 5G will be deployed commercially; even at “mmW” frequencies of 28 and 39 GHz.

### **Prepare for the unexpected**

# But prepare for the unexpected

| Generation | Expectation     | Happened                 |
|------------|-----------------|--------------------------|
| 2G         | Better voice    | SMS                      |
| 3G         | WAP, video call | Web                      |
| 4G         | IMS             | YouTube, chattering apps |
| 5G         | Low latency     | ??                       |

After Henning

## Image courtesy of Brooklyn 5G Summit

Stay tuned to EDN [5G](#) and [Analog Design Centers](#) and watch for my in-depth 5G articles on this wealth of topics that were discussed over two full days by industry experts at the Brooklyn 5G Summit.

### Also see:

- [Struggling towards 5G](#)
- [Intel discusses 5G on the road to WRC-19](#)
- [5G: The race is picking up pace](#)