WiFiUS: Future Small-Cell Networks using Reconfigurable Antennas

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Project Scope

- Big picture: reconfigurable directional antennas in future 5G small cell networks
  - reconfigurable directional leaky wave antennas developed in Drexel
  - processing algorithms and directional network design
  - Interference mitigation, capacity enhancement and device localization
  - combining theory, algorithms and testbed development
Collaboration

- Good FI-FI and FI-US-FI collaboration practices already exist from earlier joint activities
- In practice this means mutual researcher exchange, research visits, joint publications and joint demonstrations
- Particularly putting the different elements (antennas, algorithms, system design) together
- Good examples of previous joint work:
  

Steering Group

- Nokia
- Ericsson
- Huawei Finland
- Samsung
- Elektrobit
- Elisa