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| Lab-10 |
| *10* | *LTE site planning with EDX* |
| **Advanced Wireless Lab** |
| TLEN 5830-AWL |
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1. Simulate an LTE network scenario in Boulder region with 3 eNodeBs. Import the EDX Terrain Data and Clutter data to the defined study grid.
2. Define the Area Studies and run the studies – RSRP, RSRQ, C/(I+N) at remote for the best channel, CQI regions (uplink & downlink), Adaptive modulation data rate (uplink & downlink).

* 1. Define each area studies (parameters) in a couple of sentences.
  2. Mention the modulation coding schemes in the LTE Adaptive modulation.
  3. Paste the respective screenshots.
  4. Include the System Report files along with the Lab report.

1. Define and run the Inter-eNB/intra-LTE roaming scenario. You can define the value of the parameters which initiate roaming in Network design/Analysis > LTE Networks > System Details/Service Area.
   1. Define the handoff terms – handoff threshold, minimum useable level, and PLMN offset.
   2. Explain how Inter-RAT handoff is different from Intra-LTE handoff.
   3. Explain about ping-pong roaming and the reason for its occurrence.