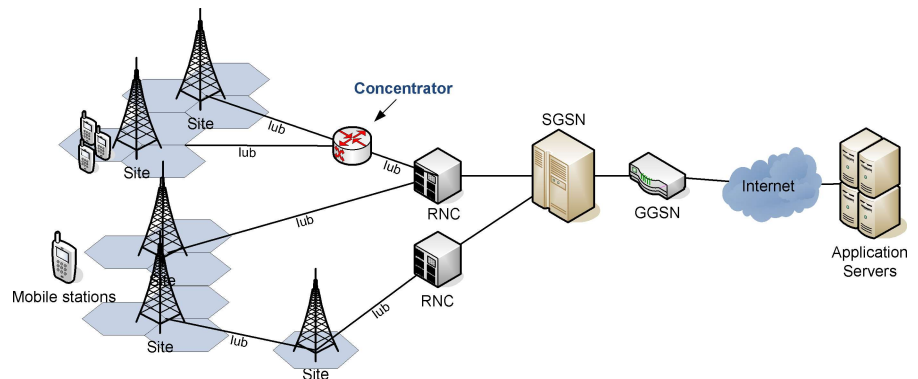


## MSc Thesis Project 5G mobile backhaul networks

**Introduction:** LTE (Long Term Evolution) seems to be the technology of choice for future mobile communication systems. As more and more uses are being added to the network and the bit rates to each user also increases the total demand for capacity is exploding. All base stations must be connected to the Internet and

the infrastructure for doing this is called the mobile backhaul (MBH) network. In 5G networks there will be many more cell and they need to cooperate to meet the capacity requirement of future networks.



**Contents:** This project is about finding the most desirable solution for MBH networks in terms of architecture, technology and dimensioning. The goal is to develop a computer model of an entire 5G MBH network and use that to make conclusions based on what-if scenarios.

### Prerequisites:

- 34330 Introduction to mobile communication
- 34354 Network modeling and simulation
- (preferably) 34343 Mobile Backhaul networks

**Practical details:** The project is intended for 1 student, 30-35 ECTS-points.

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