

Yun Ai  
Qihang Li  
Mohsen  
Pooja  
Raul  
KAZI

<https://plus.google.com/communities/107897964181233758835>



	literature, present the results towards the other students and discuss the advantages and shortcomings. This introductory work is mandatory for the participants, as it forms the basis for a home work, analysing selected topics in dedicated areas. The home work will be a report, and contributes to the final grade. Simulation of throughput in a network simulator is the second topic relevant for the final grade. Participants will learn to use the network simulator, and analyse specific radio interfaces." cannot be used as a page name in this wiki.
<b>Keywords</b>	Radio, Antennas, Propagation, Bandwidth, Gain, Capacity, Mobile Systems, Shannon, Mobility, MobileIP, MobileIPv6
<b>Research Area(s)</b>	Security, Radio technology
<b>Type of course</b>	Master

Edit the page by <Special:FormEdit/Course/UNIK4700>.

#### Lecture overview

	<i>Date</i>
<a href="#">Antennas and their communication parameters</a>	19 September 2014
<a href="#">Near Field Communication, Bluetooth, ZigBee and ANT+</a>	12 September 2014
<a href="#">Basics of Communication and Assignments</a>	5 September 2014
<a href="#">UNIK4700/9700-Introduction</a>	27 August 2014

To add new lectures, use: [Add a lecture](#)

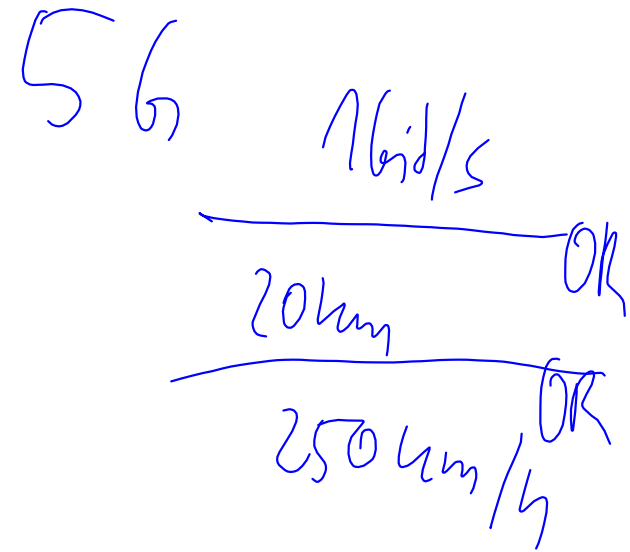
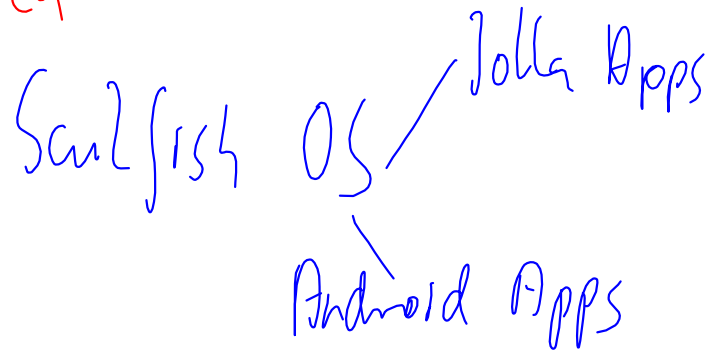
Lot's of course material is still on our old [wiki.unik.no](http://wiki.unik.no), [Courses](#), [UNIK4700](#)

1 Info	2 Earlier Lectures	3 References	4 Video conferencing	5 Revisit lectures	edit
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	<i>Date</i>
<a href="#">Interference level and modelling</a>	13 December 2013
<a href="#">Evaluate COST 231 WI for handover</a>	6 December 2013
<a href="#">Handover modelling model using COST 231 WI</a>	29 November 2013
<a href="#">Implementation Cost231 models</a>	26 November 2013
<a href="#">Implementation evaluation of Cost 231 WI model</a>	18 November 2013
<a href="#">Cost 231 propagation model comparison</a>	8 November 2013
<a href="#">Cost231 propagation models</a>	19 October 2013

Phones

Jolla



# Building Mobile & Wireless Networks

Internet.org  $\frac{1}{3}$  have Internet  $\left\{ \begin{array}{l} \text{availability} \\ \text{affordability} \end{array} \right.$

Ericsson: cover 50% people by Mobile Networks  
(450-700MHz) 70% people by 2017

\* Basic Internet.org — free access to text & pic  
compressed

\* "build your own network" — forest



sensor, video

mobile Virtual  
Network Operator

\* Reverse of MVNO (SIM)

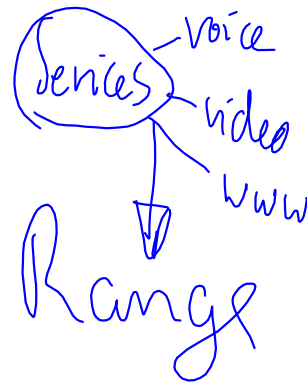
UIC "mobile" network (Wifi + 4G = 5G)

Physics  
frequency

antenna

(Power Tx)

Interference



Capacity

Mobility

Service infrastructure

514

- Norway!
- Arpanet 1973
  - GSM (12 Standards) (Telenor) TF  
Shtef, FFI

# What To Achieve

## Academic work

- how we build up list of references
- modelling approach
- detailed list of topic (*next slide*)

Scholar  
 Microsoft Academics } IEEE  
 Springer  
 ACM  
 :  
 :  
 Social Networks:  
 Research Gate  
 Academia.edu

