

Introduction to Wireless Infrastructure Economics

Jan Markendahl, Associate Professor,
Wireless Infrastructure Deployment and Economics
Communication Systems, KTH
March 2, 2015

Markendahl March 2 2015 Wireless Infrastructure economics

1


Case: Spectrum and network economics

Scope

- Analyze drivers, benefits and obstacles for operators to build and operate efficient mobile networks
- Each of you will get a country to analyze

Your tasks

1. Describe the overall situation and main challenges in your country for spectrum and mobile networks
2. Compare the network strategy, deployment status and offered services for two operators in your country




Markendahl March 2 2015 Wireless Infrastructure economics

2

What to do in order to pass

- Prepare a draft report and send for review
Max 4 pages in total
- Review reports of others in the review group
- Present review comments in group session
- Make a oral presentation of results
Max 6 minutes and 3 slides
- Attend the presentation seminar
- Revise report according to the review comments and submit a final version




Markendahl March 2 2015 Wireless Infrastructure economics

3

Schedule for the Case: Spectrum and network economics


- March 2,
 - Lecture: Introduction to tele-economic modelling and analysis and the student case to analyse
 - Each student gets individual assignment
- March 9
 - Lectures on operator challenges and spectrum
 - Q&A session for your assignment
- March 18
 - Oral presentation of your case
- March 2- 20
 - You will work with your case, report and presentation and review work of others, see details next slide



Markendahl March 2 2015 Wireless Infrastructure economics

4

Activity	Deadlines
Home work is assigned to each student	15-03-02 ; 12:00
Draft report sent to teacher & reviewers filename: "country"_v1.doc	15-03-10; 16:00
Review comments sent to teacher and authors filename: "country"_review_by"name"	15-03-12; 10:59
Review session and discussions in review groups (no teacher present)	Anytime before 15-03-13; 16:00
Do your presentation slides, put together all slides in the review group and send to teacher filename: "countryA, countryB, countryC".ppt	15-03-16; 11:59
Oral presentation, Each review group will present together	15-03-18; 09:00-12:00 Max 6 min per student
Send final report version to teacher filename: "country"_v2.doc	15-03-20; 11:59
Feedback and grading send to student	15-03-27; 12:00 latest



Markendahl March 2 2015 Wireless Infrastructure economics

5

Reviewgrupper

- Grupp A: Österrrike, Frankrike, Kenya
- Grupp B: Portugal, Tyskland, Nigeria
- Grupp C: Grekland, UK, Iran, Nederländerna
- Grupp D: Estland, Australien, Norge, Sudan
- Grupp E: Danmark, Ghana, Finland



Markendahl March 2 2015 Wireless Infrastructure economics

6