telenor

Operational excellence Yogesh Malik - CTO of Kyivstar



Operational excellence is a mindset not a task



Business oriented CTO function

Traditional thinking

- Roll-out and technology focus
- Securing network capacity

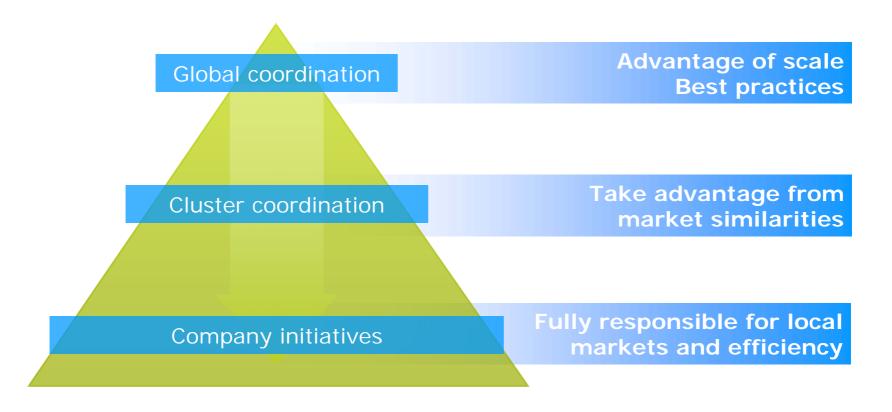
Telenor CTO role

- Business-oriented and holistic approach
- Joint responsibility for product, price and profitability

Responsibility: 90% of CAPEX and 20% of OPEX

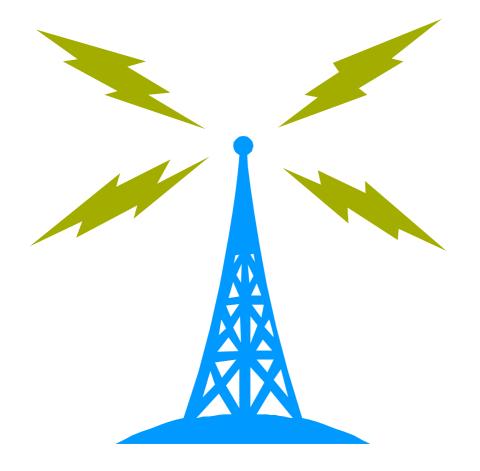


Striking the right balance between global and local entities





CAPEX planning



- Why invest?
- What to invest?
- From whom?

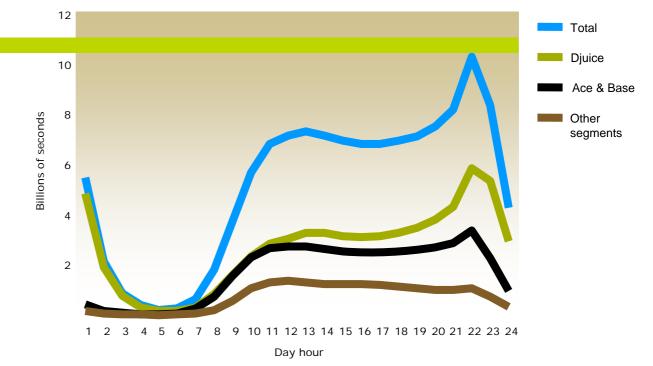


Controlling the peak hour

Erlang – traffic unit to supply one hour continous call (in busy hour)

 Maximize revenues in peak hour

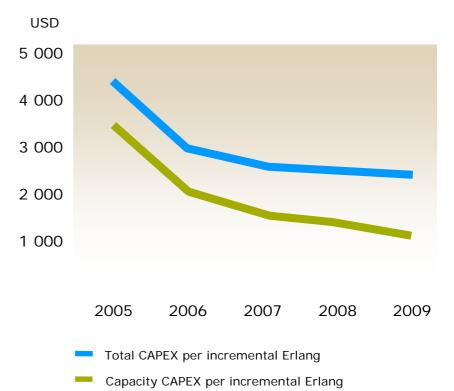
 Utilize spare capacity





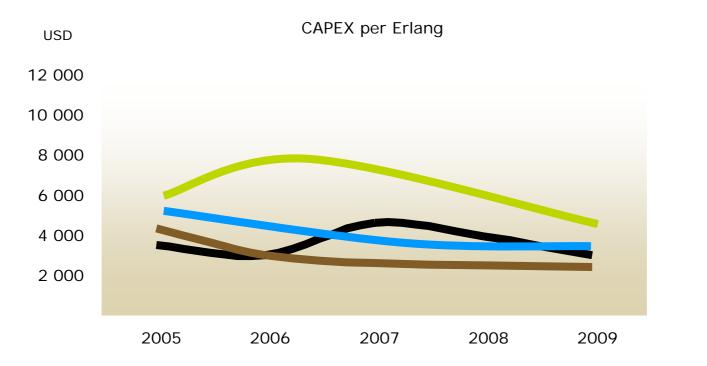
Example - CAPEX/Erlang in Grameenphone

Pay back time on capacity CAPEX of 6 – 8 months



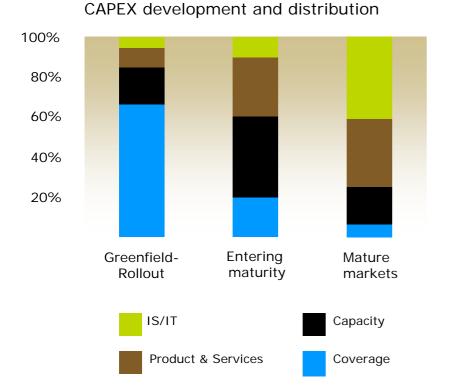


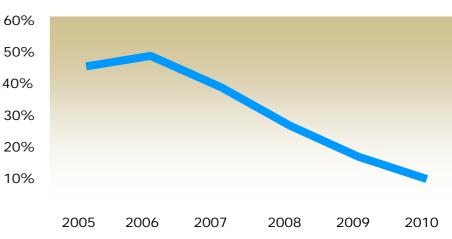
Benchmarking CAPEX efficiency across the group





CAPEX/Sales in saturating markets should come down to 10%

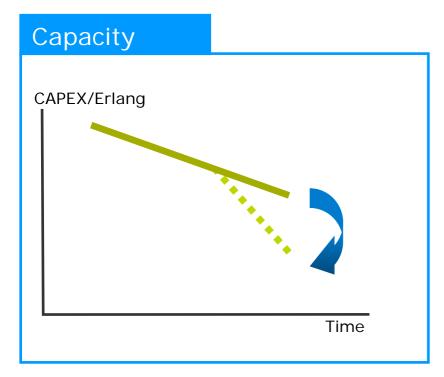


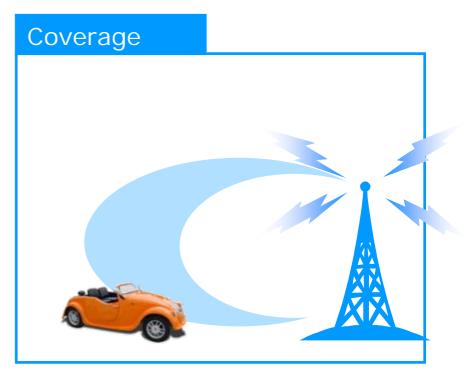


CAPEX/Sales



How do we improve network efficiency?







Coverage enhancement solutions

Diversity and combined transmitter units give wider coverage

Example

Covering 350 km highway requires:

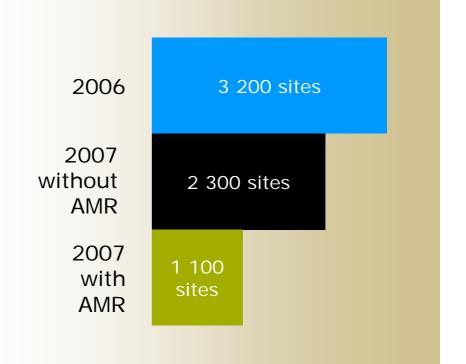
- 20 sites with new radio features
- 30 sites with traditional cell range





Capacity enhancement solutions

AMR reduces need for new sites by more than 50%

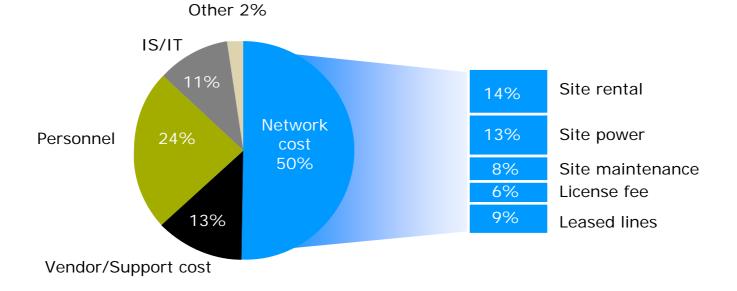




Note: AMR means Adaptive Multi-Rate (new coding scheme on new handsets)

Optimization of OPEX

Technical cost distribution







- Business focused CTO role
- Systematic use of group scale and best practice sharing
- Proactively optimizing CAPEX and OPEX

