



Broadband communication for everybody and everywhere

presentation by Ole Lars Øye General Director



Nera has provided wireless transmission solution to the market for more than 60 years





Nera's vision

A leading microwave solutions company, our customers' fast and flexible specialist

Leading:

- Nera shall achieve at least a 5% market share in the total market for microwave transmission in 2010
- Nera shall be the leading competence center for microwave transmission

Microwave solutions:

- Market leading microwave based solutions portfolio
 - -Primarily microwave products
 - -3rd party products as needed to optimize microwave solutions
 - Optimum balance of Quality,Price and "plug and play"
- Services related to above portfolio; planning and design, SLA, repair, installation etc.
- · Customer driven solutions

Fast and flexible:

- Always deliver as promised to the customer (but don't promise more than you have to)!
- Module based building blocks for faster logistics and flexible product ranges
- High service degree and fast response time
- Rapid time to market for New products
- · Willing to go the extra mile

Specialist:

- Complete and undivided focus on microwave solutions
- The most competent microwave transmission people
- The most innovative company within microwave transmission



Nera moved production into a new optimized factory in Slovakia in mid 2008.



- Nera moved its production from Bergen to Slovakia (next to Eltek) in 2006-2007 to achieve competitive production value add costs
- June 2008, the production was moved into new facilities that are optimized for Nera's needs
- Approx 200 highly skilled employees
- More than 26000 radios produced 2008
- Export value 80 M EUR

The new Evolution Series



A market leading, common microwave platform radio system

Evolution Series offers several key improvement areas

- ✓ Software Defined Radio
- ✓ Scalability the same hardware to be used in all parts of the network
- ✓ Easy upgrades grow with the traffic and pay as you grow
- ✓ Traffic Node several radio directions in one node
- Future proof Evolution towards packet based transport network
- ✓ Quality in focus improved Reliability - reduces the operational cost









Services Nera can offer from Slovakia

- Additional to production Nera has established
 - Strong Quality organisation
 - Global logistics centre
 - Global Service & Repair centre
 - Project management team
 - Group of field engineers
 - Customer training centre
 - Sourcing activities
 - Sales office
 - Good relation with local partners



Training centre in Liptovsky Hradok

This ensures superior service for local and regional customers

Nera core business



World-class wireless transmission

 Providing wireless transmission solutions to Network providers:

Mobile, Fixed, Broadcast, ISPs, Offshore, Utilities, Defence and Governments.

Turn key solutions

Handling all aspects of the network developing process.

Future proof networks

 Future-oriented attitude, enabling you to stay at the forefront of technological developments.

Low operational cost

Strong focus on Quality in design, production and project implementation



Nera solutions and client examples



Mobile & WiMAX BackHaul

Nera is a Wireless backhaul specialist that provides equipment and services needed to design, build and maintain a future proof network during the migration to all IP connectivity

Wireless Access Networks

Nera offers the best of the breed WiMAX portfolio, supporting a wide range of applications

Nera clients - samples



wireless communication

solutions for moving rigs and ship-to-shore connections

Fixed Networks

Nera has the ability to implement all carrier-class wireless transmission solutions for telecommunications carriers worldwide

Network Management

Nera NetMaster NMS is offered to manage and control Nera P-P radios, our WiMAX elements and other 3rd party elements

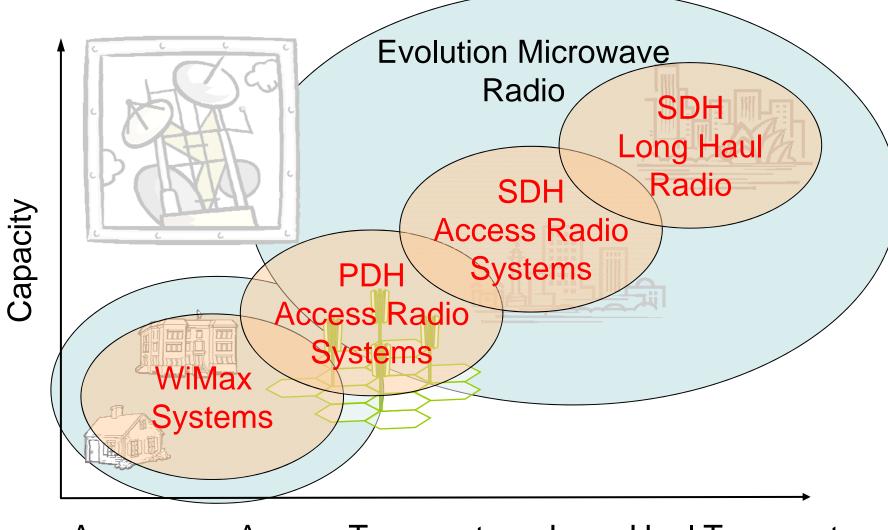
Government & Defence

Nera provides all aspect of planning, designing and deploying wireless solutions for Government authorities and Defence agencies

Support all relevant frequency bands use by government and agencies globally

Nera Wireless Solutions





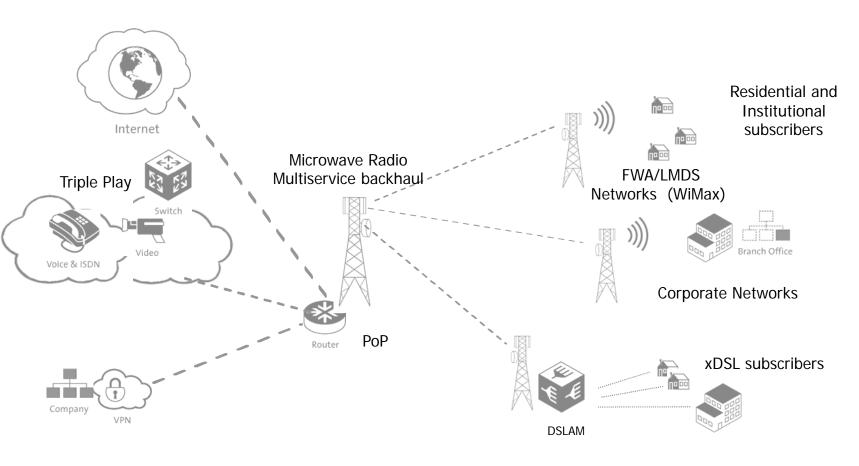
Access

Access Transport

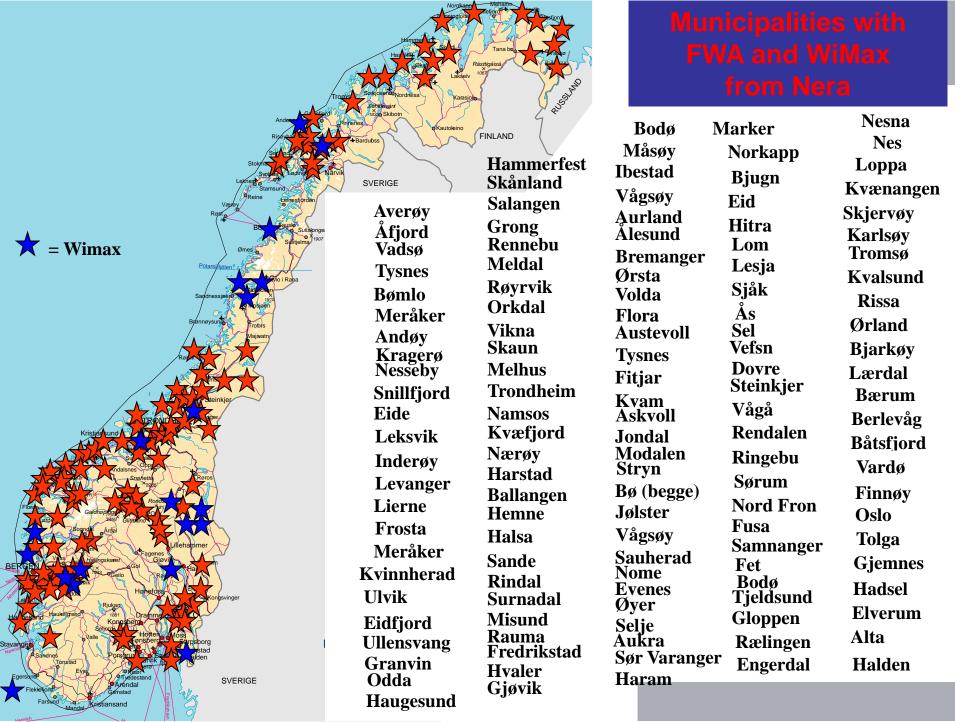
Long Haul Transport

Basic Design of Microwave backhaul





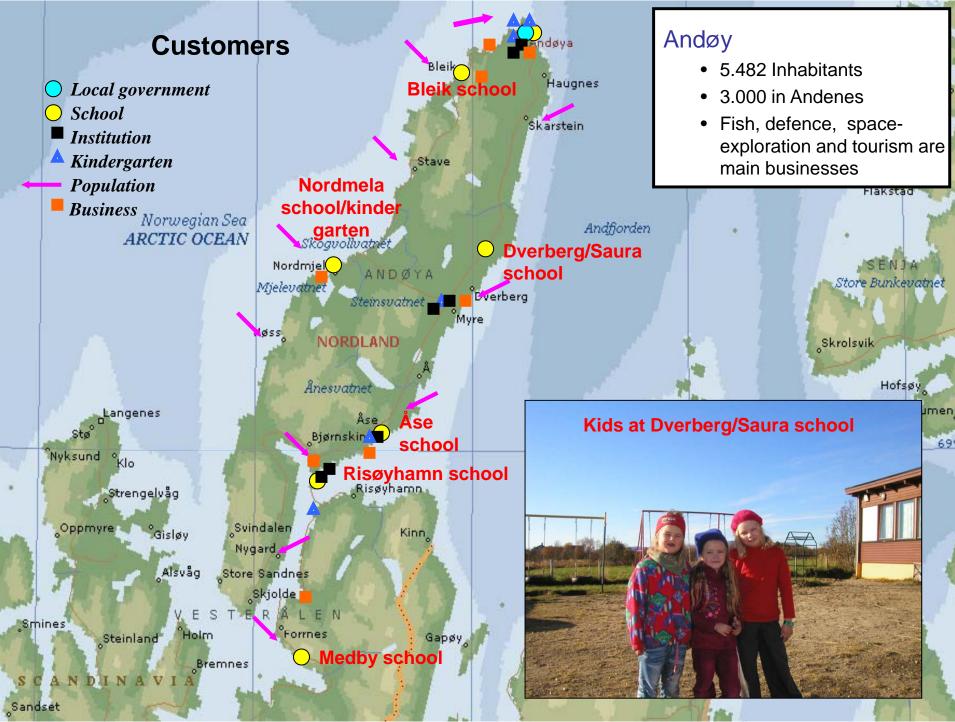
- Backhaul of PtMP basestation traffic
- Backhaul of DSLAM
- Scalable capacity with effective QoS support for mixed services
- Ethernet only or Ethernet over SDH
- Mixed Ethernet and TDM services
- Ethernet L1 or Switched VLAN transport



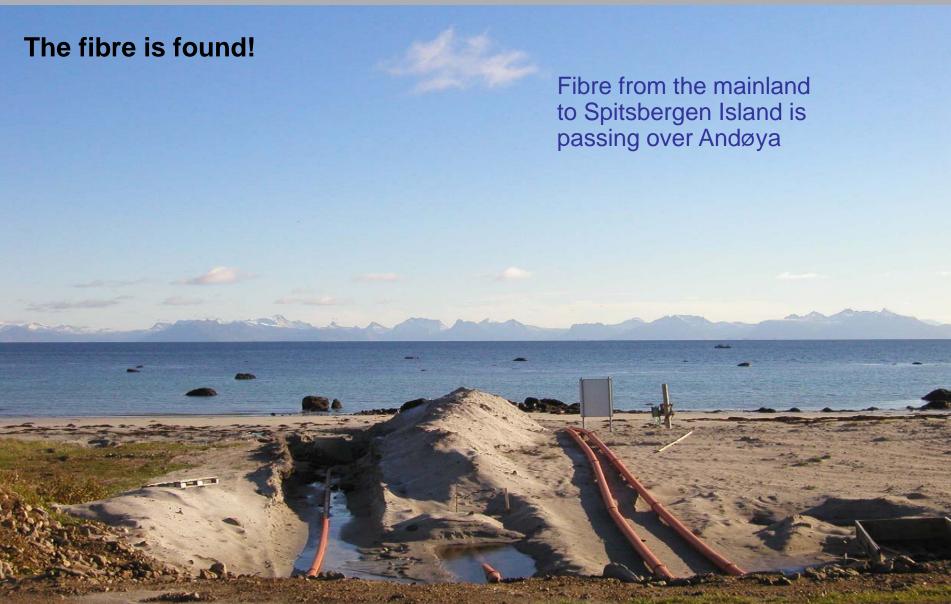


Andøya - a small piece of BroadbandNorway

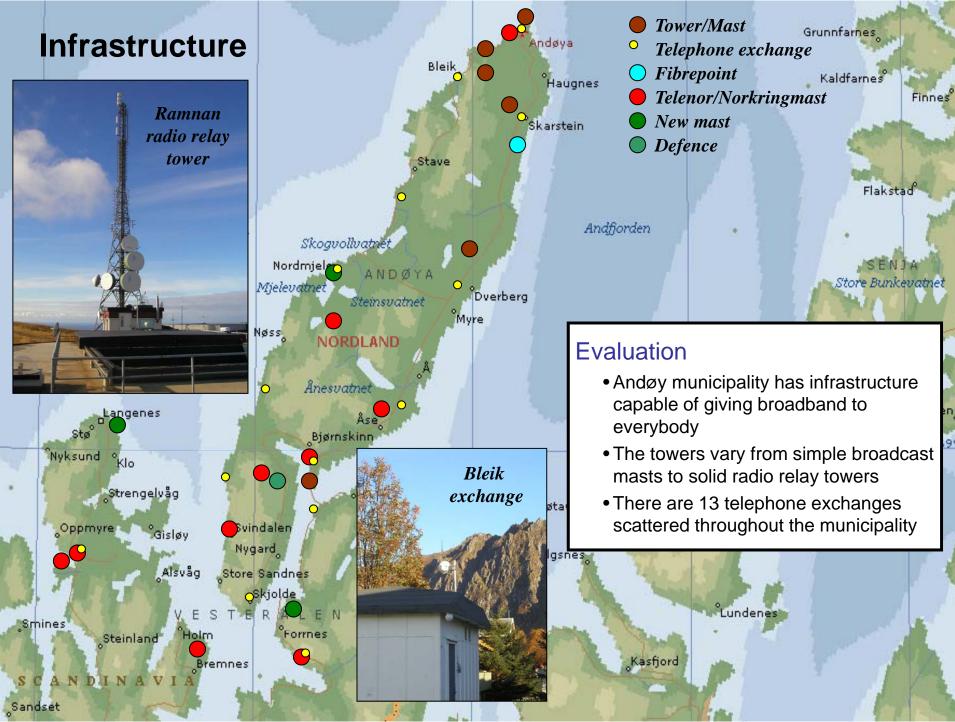


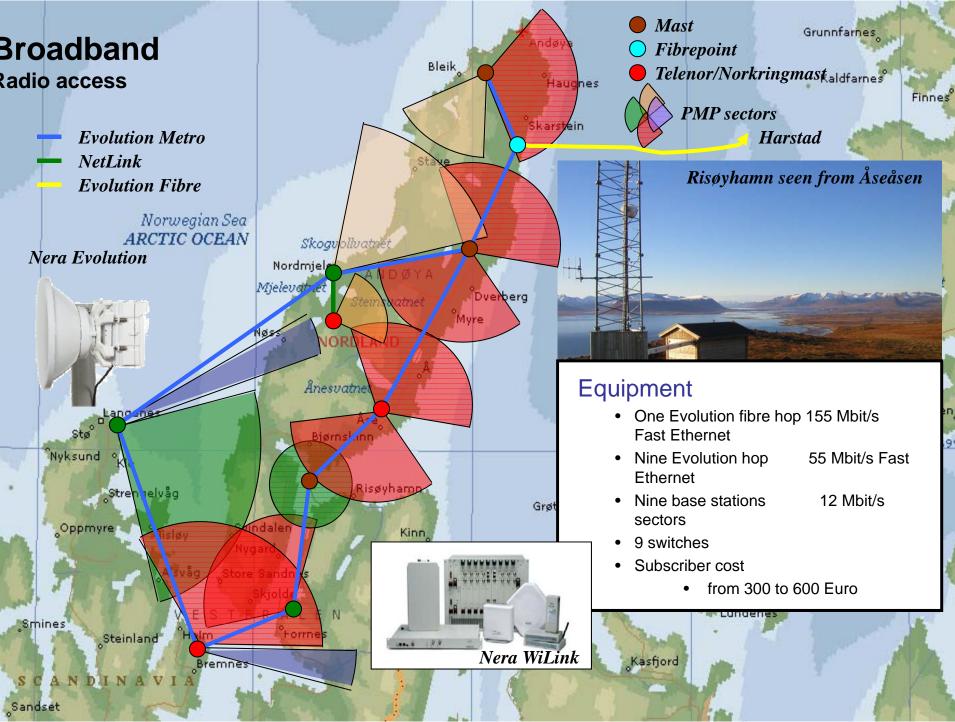


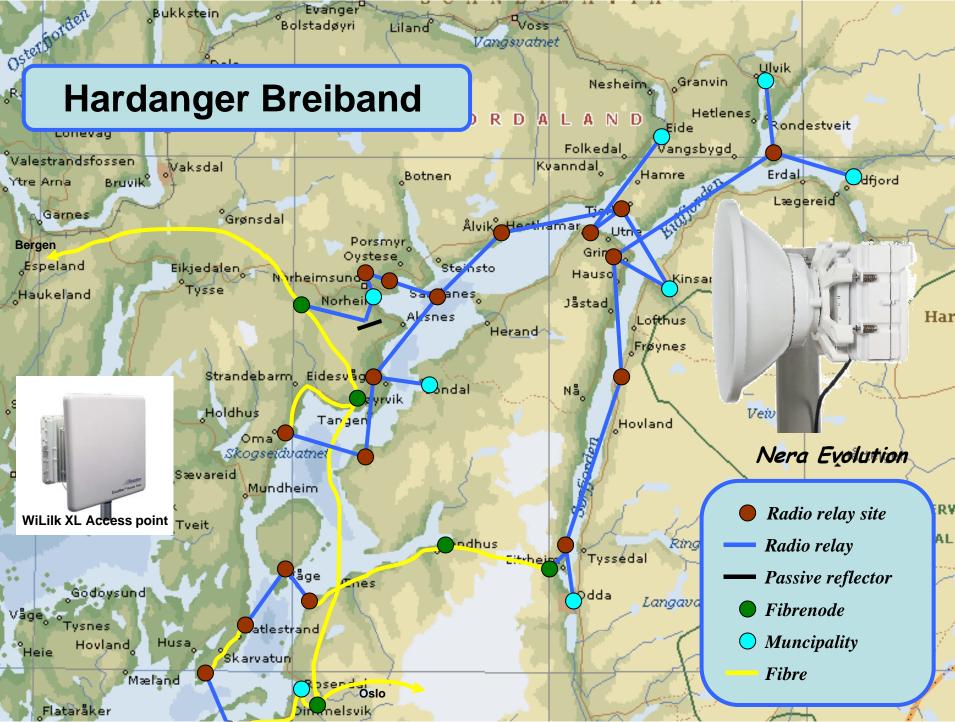




Termination in Breivika







Broadband for everybody



Approach

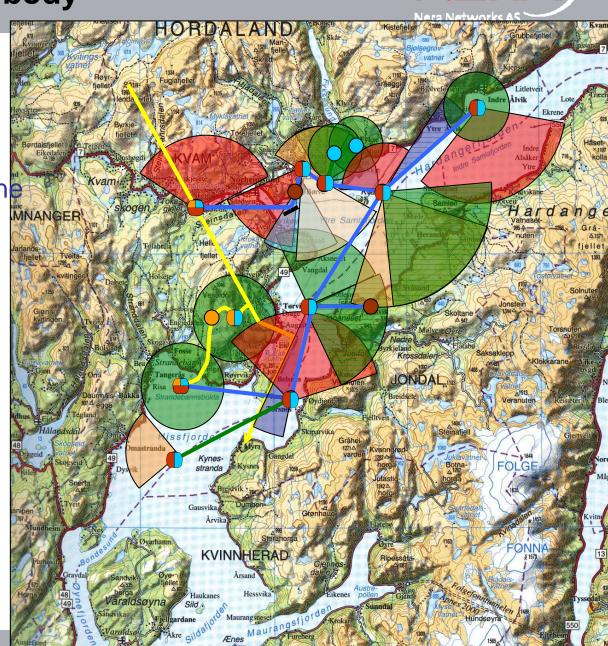
- Locate fibre terminations
- Install microwave backbon
- Place the microwave connection to:
 - Feed WiMAX BS
 - Feed DSLAM switches
 - Feed local fiber

WiMax BS and CPE





Evolution microwave



What about the abroad?



