



# Nordic Network Research Luxury or Necessity?

Presentation Nordnet 2002

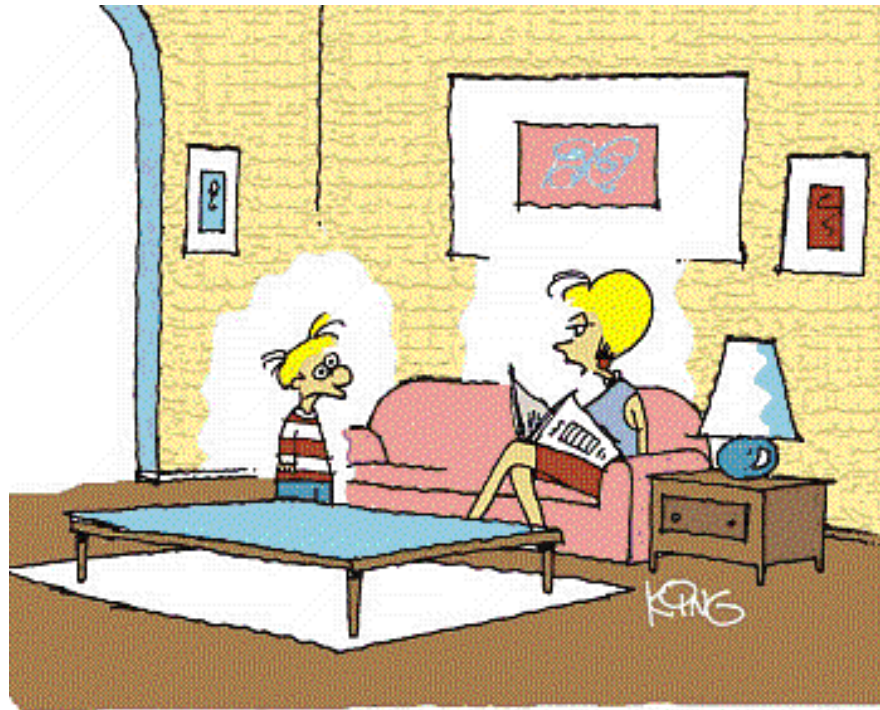
Øystein Johannessen, Deputy Director General

Norwegian Ministry of Education and Research/

Chair, IT Policygroup, Nordic Council of Ministers

# Tribal Language

UFD



*"No, you weren't downloaded.  
You were born."*

# Topics

UFD

- + Building the Case: What is the importance of Network Research?
- + What is the Nordic perspective?
- + The future of Nordic Network Research?
- + Concluding remarks



# Importance of Network Research

UFD

- + The Promise of Grid computing
- + Same old story?
  - Supporting and Enhancing existing technologies
  - Technological Innovation
  - Improvement of Work organization

# Who is Homo Zappiens?

UFD

- + The E-Generation is the generation of
  - the remote-control
  - Riven, Atlantis, Planetarion, Unreal Tournament, PlayStation I and II
- + The generation that talks gaming at breakfast and dinner
- + The generation for which learning is playing and having fun

# H o m e Z a p p i e n s a t W o r k

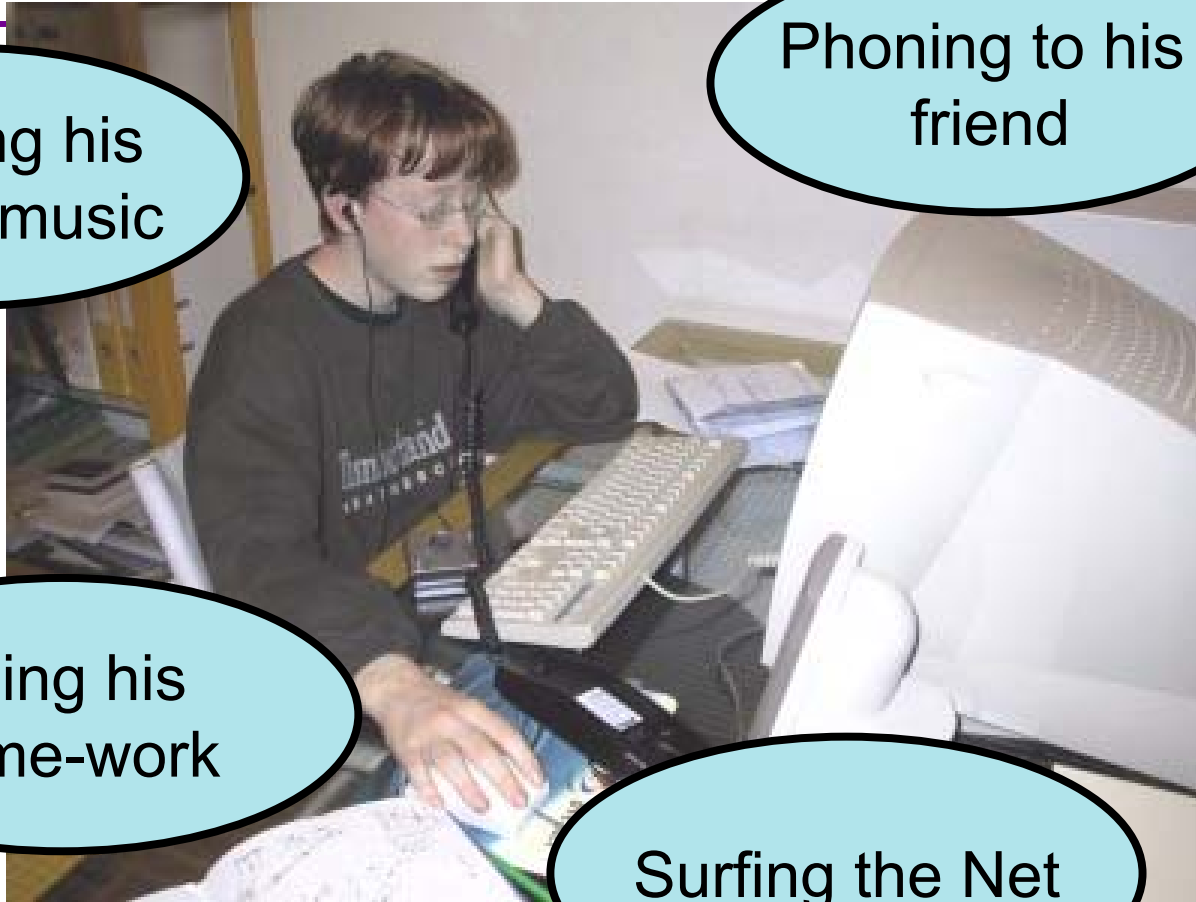
UFD

Listening his  
favorite music

Phoning to his  
friend

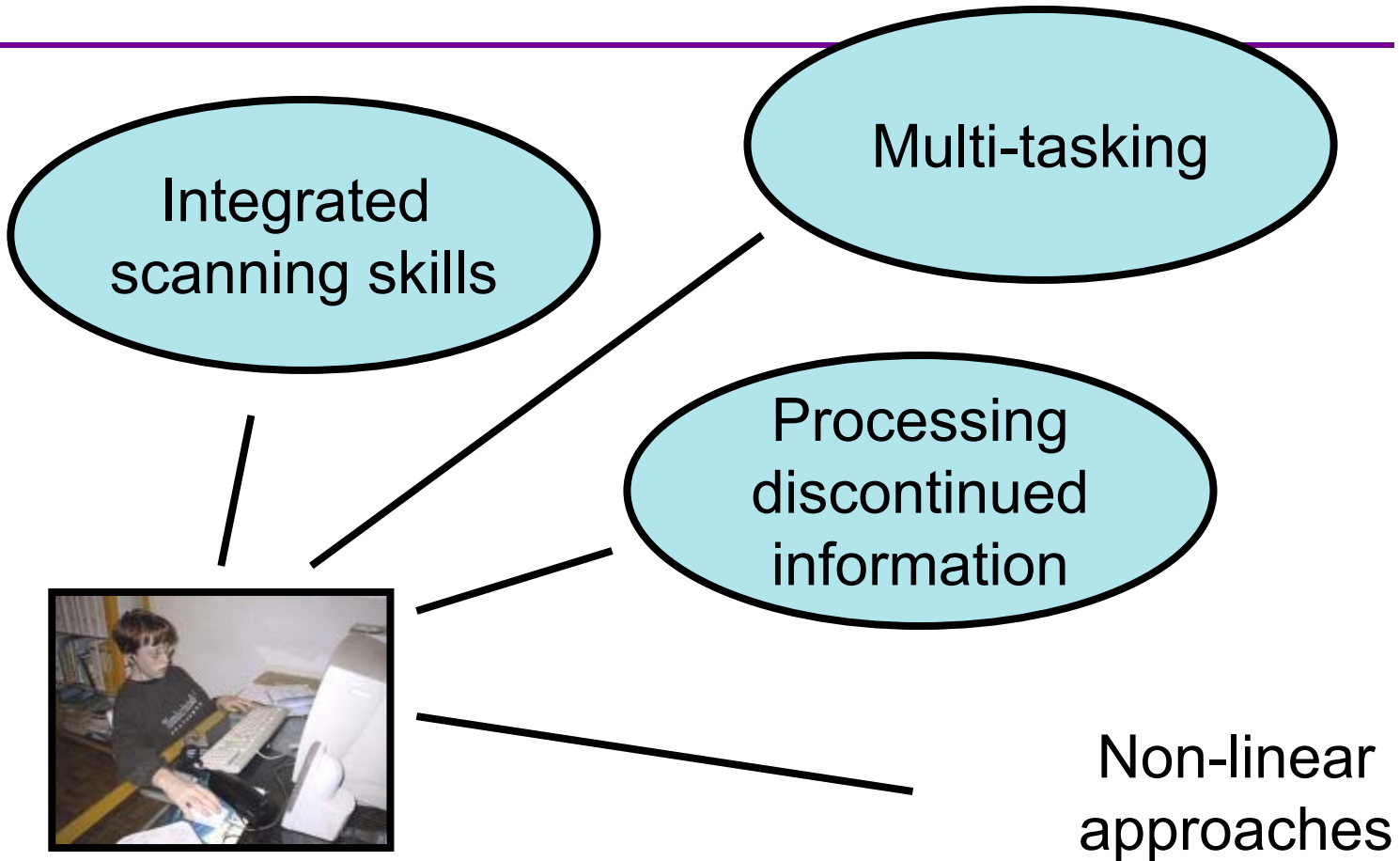
Doing his  
home-work

Surfing the Net



# Homo Zappiens at Work

UFD





# The Case for Education

UFD

- + Future cohorts of learners will need access to a distributed universe of learning objects
- + Real-time, multimedia virtual collaboration





# The Nordic perspective

UFD

- + Common understanding of the strategic importance of ICT
- + High level of ICT penetration
- + Similar cultural, material and political basis
- + The Nordic countries are sparsely populated, and we need to use our resources as effectively as possible

# The Nordic perspective (cont.)

UFD

- + Heavy Net infrastructure
- + Testbeds, experimental testnets
- + Experiences and results from a number of collaborative ventures (e.g. NorduNet and Nordunet2)



# The Future of Nordic Network Research

UFD

## Nordunet2 goals

The overriding aim of the Nordunet2 programme is to help secure the position of Nordic countries at the forefront of Internet development. Its focus is on network utilization and network-based applications.

# Recommendations Nordunet2

## Evaluation Report

UFD

- + More emphasis on infrastructure services, both on the network and on the application layer, with more emphasis on "mobility" and GRIDS,
- + NORDUnet and the NRENs should play a much more prominent role,
- + More attention should be given to international co-operation with other world-class initiatives,
- + More emphasis on the dissemination of progress and results, both on a national/Nordic level and the international level,
- + More attention should be given to quality assurance, not only during the selection but also in the operational phase of the projects,
- + The organizational structure needs to be strengthened.

# The next phase: Preparing the new initiative

UFD

- + Develop a proposition for the content and profile of a continued and strengthened Nordic research co-operation on Internet and application research and development
- + Propose a new organizational structure for the cooperation
- + Propose a model for budget and funding. This includes possibilities for cofinancing from commercial as well as other national agents
- + Create an overview of ongoing and planned research efforts with relevance to the Nordic collaboration in this field
- + Proposal to the Nordic Ministers of Education and Research for a reinforced collaboration on Internet and Application R & D



# Concluding remarks: The Commission Challenge

UFD

- + We must build a strong and transparent case for the decision-makers
- + We must work along both top-down axis as well as the bottom-up axis
- + We need to reach out and involve - research councils, universities, and industry



# A Revolution under way... •

UFD

”This report is about a revolution that is under way in communications technology, a revolution that has the potential to eliminate distance and reduce time as factors in human life. Fundamentally, therefore, it is about a technological revolution that will affect the way we live, our place in the world and our relations with each other - for better or worse.”

(”National Broadband Task Force”, Canada, 2001)



Only the paranoid survive... .

– Andy Grove



# History has taught us...

UFD

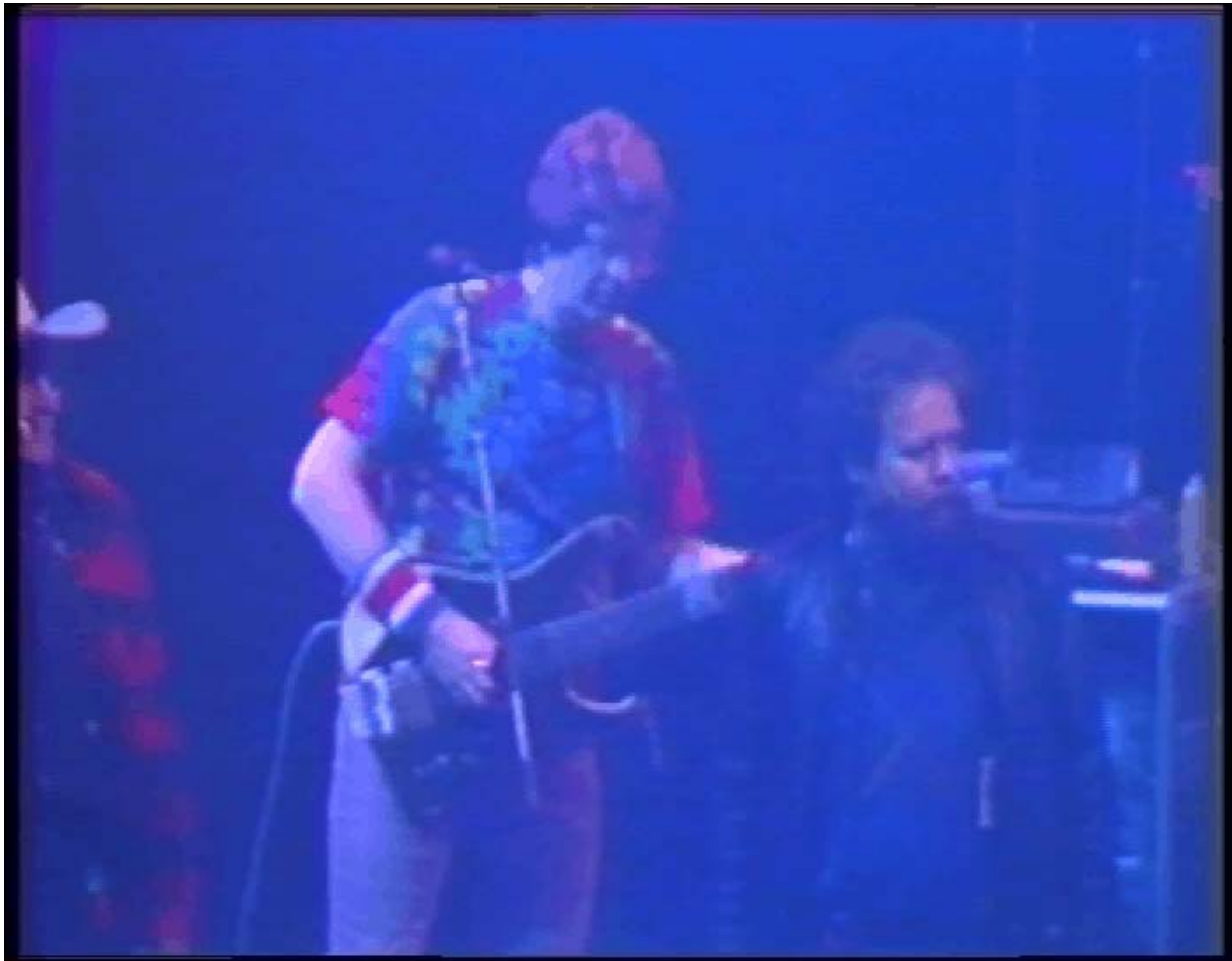
Would you have invested?



Microsoft Corporation, 1978

# Reach for the Sky.. .

UFD



Oystein.Johannessen@ufd.dep.no