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Nordisk Ministerråd

Visions for an infrastructure for Nordic eScience

"Nordic Grid Infrastructure - Now and in the Future"

Copenhagen 3.3.2008

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Background

1. Co-operation within the field for a long time!



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Like the Nordunet3 Background

- 1985 – 91 Nordunet (1) programme: Building of a joint data communications network for research and education
- 1993 NORDUnet A/S Company: Operational joint Nordic Stock Company, owned by the 5 Nordic Government according to a GDP share
- 1999-2001 Nordunet2 programme: Research within Distance education, Tele Medicine, Digital libraries, Infrservices (protocols, security)
- 2003 Nordunet3 policy document: "A Nordic eScience Area", by IT-policy Group
- 2003 Nordunet3 research proposal: By Joint Committee of the Nordic Natural Science Research Councils, NOS-N
- 2004 Nordunet3 funded by NCM and NOS-N: 1 M€ pr year for 4 years => NCoE in 2009?
- 2005 Nordunet3 Memorandum: Network security; Internet and communication services
- 2005 NeDAP AL 1 Proposal: 10% in reserve dedicated cooperation with Baltic/Russian + ?
- 2006 Feasibility study: Opening up Nordunet3?



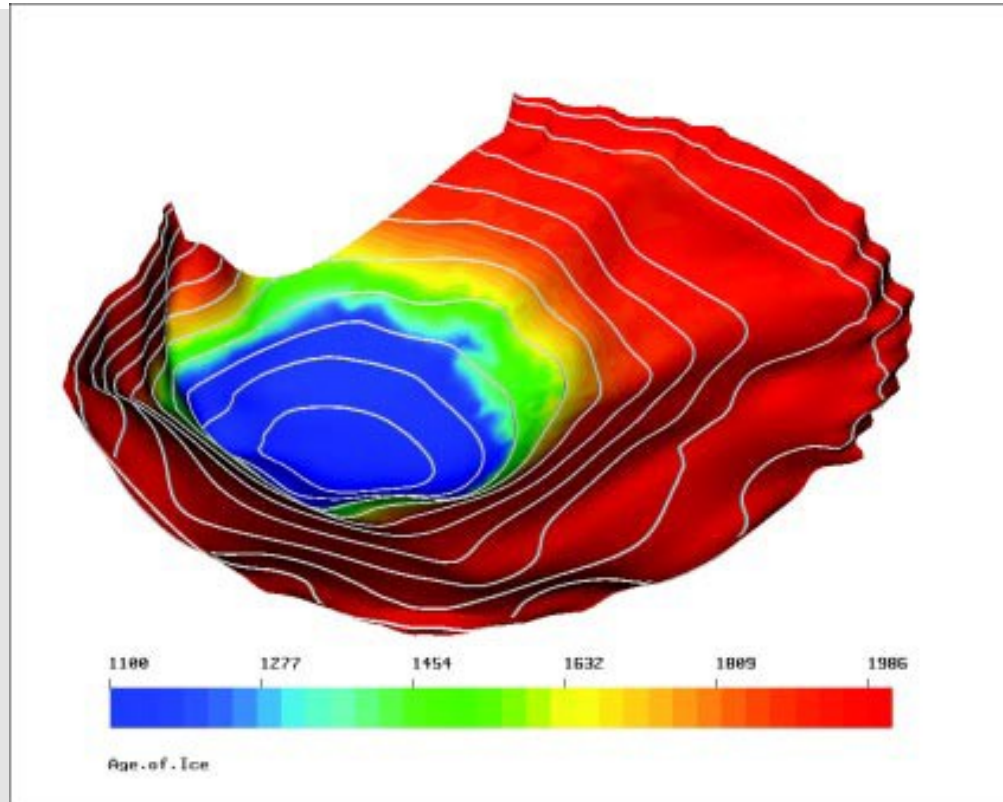
19.6.2007

2. Nordic premiers meet at Punkaharju to promote a more skilled, visible and thriving Nordic region

- A positive attitude towards the opportunities and challenges of globalisation for the Nordic countries.
- Developing further the Nordic model, the fundamental parts of which are citizens' future welfare, competitiveness of enterprises, employment and economic growth, as well as a common culture and investment in sustainable development.
- Develop the strengths of the Nordic countries, the high-standard and extensive education system, expertise and research work, the ability to utilise information technology, as well as creative implementation of innovations.
- Launching a new Nordic endeavour in globalisation. The synergy benefits of the work carried out at the European and regional level will be utilised in the implementation. More profound co-operation with the Baltic countries reinforces the competitiveness of the entire Baltic Sea region and increases opportunities to utilise globalisation.



3. eScience – strategy for Norden



Nordic Council 2007 November in Oslo



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Strategy for education and research



eScience



Presentation for the Nordic and Baltic Ministers for Education and Research – 1/11/2007

- 1. Nordunet AS – co-ordinating infrastructure
- 2. Nordunet 3 – Internet research programme
- 3. eScience – draft Nordic strategy
- 4. Follow up: Draft agreed minutes Nordic and Baltic Ministers for Education and Research



Excerpts from agreed minutes Nordic and Baltic Ministers for Education and Research



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- 6. The Ministers ask that a Nordic-Baltic action plan for the period 2008 – 2010 be drawn up, defining the key issues, effective instruments and the suitable way forward for the follow-up and continuation of the work to develop Nordic-Baltic co-operation in the area of education and research.
- The Ministers agree that the action plan 2008 – 2010 should include the following main points:
 -
 - Exploration of the possibilities to extend Nordic-Baltic co-operation in the area of internet research to the next generation Nordunet3.

Rekommandations from the Nordic eScience working group:



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- The need for long term sustainable collaborations to maintain and develop Nordic eScience infrastructures such as computer networks, High Performance Computing (HPC) resources and Grid infrastructure.
 - A programme for resourcing computational “grand challenge” research.
 - A programme for establishing a Nordic infrastructure for databases and data repositories.
 - A programme for Nordic eScience collaboration with The Baltics, Europe and beyond.
 - Nordic Master and PhD education programmes on eScience technologies.

Decision by EK-U 14/2/2008 (the Senior Officials – Education and Research)



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- att ta informationen till orientering
- att man är enig i att eScience kommer att spela en nyckelroll i utvecklingen av framtida vetenskapliga metoder och att de nordiska länderna långsiktigt bör stärka sitt samarbete på detta område för att upprätthålla och utveckla nordisk eScience
- att man är enig i att det inom ett femårsperspektiv bör etableras ett program för att utveckla nordisk eScience och att man bör sträva till strategiförslagets positionering av nordisk eScience på lång sikt
- att man ber NordForsk att se speciellt på möjligheter till koordinering av eScience med de nordiska ländernas forskningsråd.
- att man ber sekretariatet att värdera ett tematiskt utlyst Nordic Masters program på eScience området med HÖGUT, Nordiskt Universitetssamarbete och andra relevanta aktörer
- att **rekommendera MR-U att be NORIA-net arbetsgruppen att ta fram en handlingsplan för att förverkliga strategin**



19.6.2007

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The Globalisation Initiatives Decided by the Ministers for Cooperation (MR-SAM) 29/2/08

- 1. Nordiskt Globaliseringsforum 2008
- 2. Förslag om främjande av toppforskning
- 3. Udredning til samarbejdsministrene om nordiske innovationsrepræsentationer i Asien
- 4. Initiativ om att instifta ett innovationspris för nordisk kvalitet
- 5. Energiexpo 2009
- 6. Nordisk insats för världsutställningen i Shanghai 2010
- 7. Nordisk engasjement som medvirker til et godt forhandlingsresultat om en ny global klimaavtale etter 2012
- 8. Globaliseringsarbeidet rörande gränshinder
- 9. Övergripande plan för utvecklingen av det nordiska forsknings- och innovationsområdet (NORIA)
- 10. Främjande av högre utbildning i Norden
- 12. Konsekvensene av klimaendringene på naturressurser i Norden skal belyses
- 13. Utveckling och profilering av Norden som center för kreativa industrier
- 14. Harmonisering av nordiska elmarknaden

Fra NORIA initiativet



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- Koordinering av utvalda nationella forskningsprogram
 - Detta utvecklas genom verksamheten i relation till och inom NordForsk, samt i dialogen mellan de forskningsfinansierande organisationerna. Exempel på tänkbara områden för koordinering av forskningsprogram är klimatforskning, eScience och forskningsinfrastruktur (se även Rapport om Arktisk klimatforskning och Program om konsekvenserna av klimaendringene på naturresurser og mat i Norden).

The Times
May 21, 2007

Asia threatens to knock British universities off the top table

“If we don’t act we will see an uptake or overtake by Chinese or Indian universities. Indian technology is seen as the third best in the world. China itself decided it wants several top universities by 2015.”

Jan Figel, Kommissær for utdanning, EU

Nordisk Master

The foundation for the pilot projects:

- Working together in specifically defined fields will provide a boost to Nordic institutes of Higher Education
- Improving the relative competitiveness of the Nordic Region in this part of the HE sector will help make the region a more coherent unit
- Attracting non-Nordic (HE) students and retaining the best local students

The objective of the pilot project is to:

- Lead to academically robust and highly attractive Nordic master programmes. This will be achieved by the HE institutions working together and building upon the best that each country has to offer.
- Involve the development of programmes of the highest academic quality in order to boost the competitiveness of the Nordic universities.

Nordic Masters

- Pilot program
- Contribute to Nordic attractiveness
- Barriers and pitfalls should be identified and good solutions established
- Students should receive a unique degree: Nordic Master
- Cooperation with Nordic Quality Assurance
- The way forward – a part of the Nordic Globalisation initiative
- Discussions about the next steps
- To be evaluated

The NCM Presidency's Conference 2008:

- Research Infrastructures
- Focus on eScience
- Time: Between Mid-September – Mid-October
- Organised by the Swedish Presidency, Vetenskapsrådet, NCMS and NordForsk

Favorable framework conditions

- Support for the ideas in the eScience strategy
- Invitation for providing an action plan
- Globalisation initiatives which can promote eScience
- Visibility, attention and opportunities provided by the Presidency's Conference
- International attention on the Nordic level



- The visions for an infrastructure for Nordic eScience are in your hands
- The work can be boosted by the globalisation initiatives and your self

The Icefjord, Greenland



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