

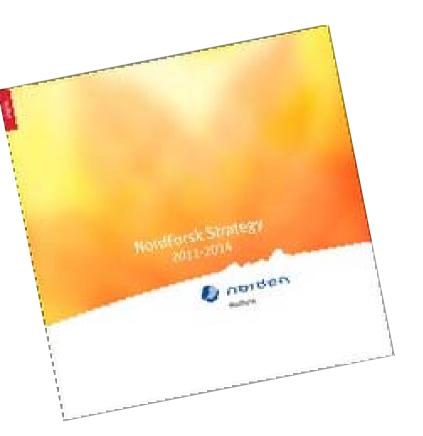
Nordic eScience

Erlendur Helgason Senior Adviser



th the Nordic eScience Globalisation iative and the Nordic Collaboration on mputing and Data are hosted by rdForsk





NordForsk is a <u>platform</u> for joint Nordic research and research policy development. The aim is to <u>facilitate cooperation</u> in all field of research, higher education, and research driven innovation when this adds value to whis being done nationally

One of the priorities is to initiate and participation multidisciplinary programs formulated in



Nordic eScience Action Plan 10 concrete actions to implement the Nordic eScience Strategy

Science is about developing and applying advanced ols within information and communication technology CT) in order to exploit a new mode of advancing search, complementing theory and experiments. Science is also about global collaboration within key eas of science, and about the next generation of frastructures that will enable it."



Computational science is now indispensable to the solution of complex problems in every sector, from traditional science and engineering domains to such key areas as national security, public health, and economic innovation. Advances i computing and connectivity make it possible to develop computational models and capture and analyze unprecedented amounts of experimental and observational data to address problems previously deemed intractable or beyond imagination. [2005 report from the US President's Information] echnology Advisory Committee (PITAC)]

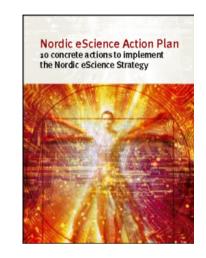
eScience, promises to revolutionise the scientific discovery process, as did the 'Scientific Renaissance' in laying the



NordForsk

Way back

The eNORIA grou



Nordic e-Scie Globalisation Initia

Now

Nordic collaboration computing and stora

ivities in the Nordic ıntries

Science research

Science education

Infrastructure

laborative efforts, | joint/coordinated ticipation in e.g. initiatives





rway: eScience - Infrastructure, Theory and Application VITA). 2005 – 2016. Ca 60 MNOK/year <u>for both eScience ar</u> mputing/data infrastructure

veden: Strategic Research Area efforts (SeRC, eSSENCE). 10 – 2014 ++. 58 MSEK/year.

nland: LASTU research programme. Calls in 2009 and 2011, 5 MEUR each.

nmark: No coherent initiatives, but very strong research oups with substantional funding

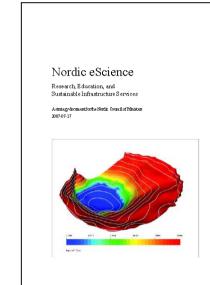


ottom-up + top-down approach!

"Nordic e-Science ad-hoc group"
Nordic e-Science report (2007)

NordForsk Noria-NET on e-Science ORIA), commissioned by Nordic Council of sters (NCM)

Nordic e-Science Action Plan (2008)



Nordic eScience Action Plan
to concrete actions to implement
he Nordic eScience Strategy

oosal for the Nordic e-Science Globalisation ative by the Nordic Council of Ministers



ring Researchers in e-Science Tools and Methods rdic e-Science Masters Education ring and Specialising Nordic e-Science Educational Modules ering Nordic e-Science Collaboration through Mobility

rdic e-Science Program for Research into Grand Challend and Ingthening National e-Science Initiatives

n Access to National Data Repositories itating Sustainable Grid Infrastructure Collaboration ementing Cross-Border Sharing of Resources ronmentally-Friendly Nordic High Performance Computing



twin-organisational framework:

The eScience Globalisation Initiative (research, education Nordic Collaboration on Computing and Storage

- uilds on
- The eNORIA action plan (and work by eNORIA Task Forces)
- Strong national activities
- Existing and emerging Nordic collaborative frameworks
- itial funding 12,5 + 6,5 M€ for 2011-2015 (National Agencies, ordForsk, Nordic Council of Ministers)
- rector of the eScience lobalisation Initiative, is





ordic Council of Ministers

ordForsk

ne Research Council of Norway

cademy of Finland

ne Swedish Research Council

servers

anish Agency for Science, Technology and Innovation



ures:

- ordinated effort eScience research education infrastructon verned by national funding agencies (activites aligned with national strategies)
- mmon pot funding (no "juste retour" principle)
- -Science research and education: Calls for proposals open to all Nordic countric ofrastructure for computing and data: Coordinated by the Nordic Steering Group
- cus on supporting leading e-Science research and education bloit "regional added value"
- tward-looking activities coordinated efforts within e.g. EUtives
- raging in discussions within a gatha CyharDaltia initiativa



NordForsk

Climate/ Environ ment		Health		Other strategic area?	
eScienc	е	methods a	an	d tools	
P	h	D educati	or		

eInfrastructure (computing data)





NORDUnet is a joint collaboration by the Nord National Research and Education Networks



EGI – European Grid Infrastructure. Participation by DK, FI, NO, SE. Nordic Collaboration on Computing and Storage coordinates the participation of the Nordic National grids in EGI.



PRACE – Partnership for Advanced Computing in Europe. ESFRI-project for massive-scale HPC. Participation by DK,FI, NO, SE



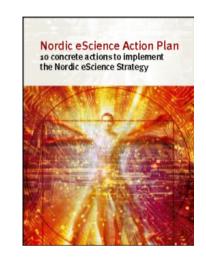






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Great future!



Thank you for your attention!

http://www.nordforsk.org/

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