





- has emerged as the third pillar underlying research, complementing theory and experiments
- builds on developing, implementing and using computerbased tools in research where traditional experimental and theoretical approaches are not sufficient
- provides new opportunities for collaboration in academia and industry, within the same and different disciplines, and over short and long geographical distances
- is connected to the development of computational tools and methods, as well as to the readiness of application areas to novel paradigms and to meet challenges from new directions

e-Science Initiatives in Sweden

- eSSENCE (LU, UmU, UU)
- SeRC (KTH, SU, KI, LiU) www.e-science.se



- e-Science Centre (Chalmers) www.chalmers.se/rss/e-science-en
- Initially, funded 2010—2014. Goal: permanent funding



e-Science selected as one (of 20) Strategic Research Areas in 2008 Government Bill on Research and Innovation

- In total 1350 MSEK/year additional funding to **Swedish Universities**
- Grants for 2010-2014 (3-year ramp up)
- Intention that the funding becomes permanent after evaluation
- 56 MSEK/year to e-Science research:
 - SeRC grant 30 MSEK/year
 - eSSENCE grant 26 MSEK/year



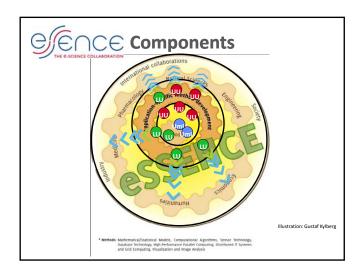
Vision

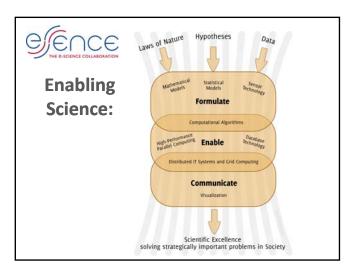
Provide excellence and scientific solutions at all stages of the e-Science process

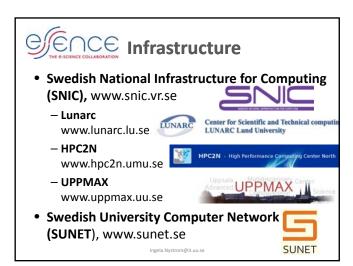
- e-Science for disciplinary progress in distributed research collaborations
- Interdisciplinary collaboration for progress in methods and tools for e-Science applications

Advancing science through leading computation, information and communication technologies

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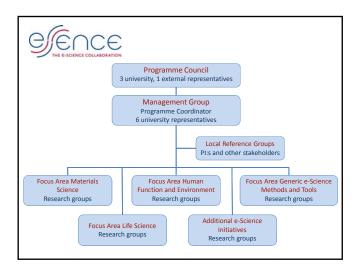




SUNET

- The Swedish University Network
- www.sunet.se
- Supports the needs of the research and education communities within Sweden
- Offers high-capacity computer networks
- Hosts a wide variety of services for connected organisations
- The Swedish Research Council is administratively responsible for SUNET
- Director of SUNET: Hans Wallberg





©©©© Principal Investigators

- Prof. Tord Ekelöf, Physics and Astronomy, UU
- Prof. Hans Ellegren, Evolutionary Biology, UU
- Prof. Erik Elmroth, Computing Science, UmU
- Prof. Olle Eriksson, Physics and Materials Science, UU
- Prof. Kersti Hermansson, Materials Chemistry, UU
- Prof. Bo Jönsson, Theoretical Chemistry, LU
- Prof. Bo Kågström, Computing Science, UmU
- Prof. Tore Risch, Information Technology, UU
- Prof. Anders Lindroth, Physical Geography & Ecosystem Analysis, LU
- Prof. Sven Strömqvist, Linguistics and Phonetics, LU



- Programråd –
 Program Council
- Programberedning Management Group
- Samordnare –
 Director
- Administered by the Faculty of Science and Technology, UU

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Management Group

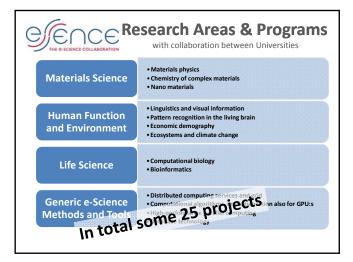
- Göran Sandberg, LU
- Magnus Ullner, LU
- Bo Kågström, UmU
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- Ingela Nyström, UU, Chair
- Carmen Medina, research secretary UU

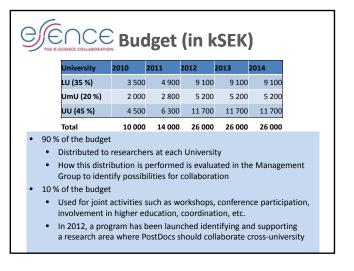
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©€∩C€ Current Status

- A set of focus areas has been selected for funding of eSSENCE programs
- Several PostDoc projects initiated after application rounds
- A group of application experts supports researchers in usage of HPC
- Workshops
- Seminars
- Host of 35th CERN School of Computing 2012
- www.essenceofescience.se

Thanks to Pavlin Mitev!







- 60 participants
- 12 oral presentations
- 16 posters
- Panel discussion
- Lunches, dinner, coffees

