

SeRC Annual meeting Villa Aske, May 14-15, 2018

Monday 14/5

- 11.00 (Sharp) **Chartered buses** leaves from KTH, Lindsteds väg 3 (registration needed)
- 12.00 **Lunch**
- 13.00-13.30 **Welcome**
Dan Henningson, SeRC Director, KTH
- 13.30-14.15 **Ericsson and e-Science**
Kristina Gold, Director of Technology, Ericsson
- 14.15-14.45 **OpenSpace**
Anders Ynnerman, Visualization, SeRC
- 14.45-15.15 **Coffee and check-in**
- 15.15-15.45 **Computing in Science Education**
Anders Malmthe-Sorensen, Center for Computing in Science Education, UiO
- 15.45-16.15 **ELIXIR and e-Science**
Niklas Blomberg, Director, ELIXIR
- 16.15-16.45 **The search for cell assemblies in the brain**
Arvind Kumar, Brain-IT, SeRC
- 16.45-17.30 **Multidisciplinary Collaboration Program (MCP) presentations**
The seven MCP proposals are presented (5 min each)
- 17.30-18.30 **Activity: MCP mingling and pub**
MCP representatives answer questions and describe their proposals.
- 18.30 **Antipasti in the lounge**
- 19.30 **Dinner**

Tuesday 15/5

- 9.00-9.45 **Data driven Material Science**
Matthias Scheffler, Director, Theory Department, Fritz Haber Institute
- 9.45-10.15 **Deep learning for prostate cancer histopathology classification**
Mattias Rantalainen, eCPC, SeRC
- 10.15-10.45 **Coffee**
- 10.45-11.15 **Unsteady aerodynamics simulations**
Prabal S Negi, FLOW, SeRC
- 11.15-11.30 **EuroHPC**
Erik Lindahl, Co-Director, SeRC
- 11.30-11.45 **The WASP AI initiative**
Anders Ynnerman, Visualization, SeRC
- 11.45-12.00 **Closure**
- 12.00 **Lunch**
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Connected meetings:

- Monday 14/5** 9.30-12.00 SeRC Board and Advisory Board meeting (Coffee from 9.00)
- Tuesday 15/5** 13.00-16.00 SeRC Board meeting

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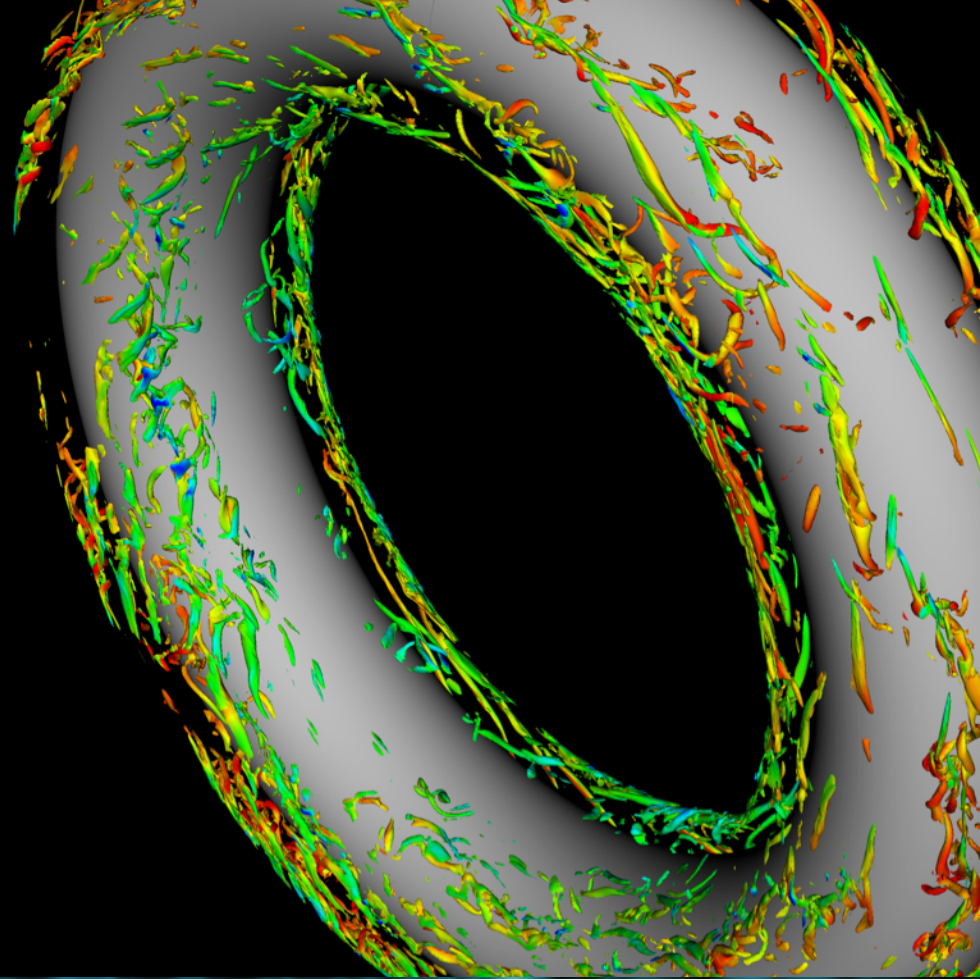
SeRC

Swedish e-Science Research Centre

Next phase:
SeRC 2.0

What is e-Science?

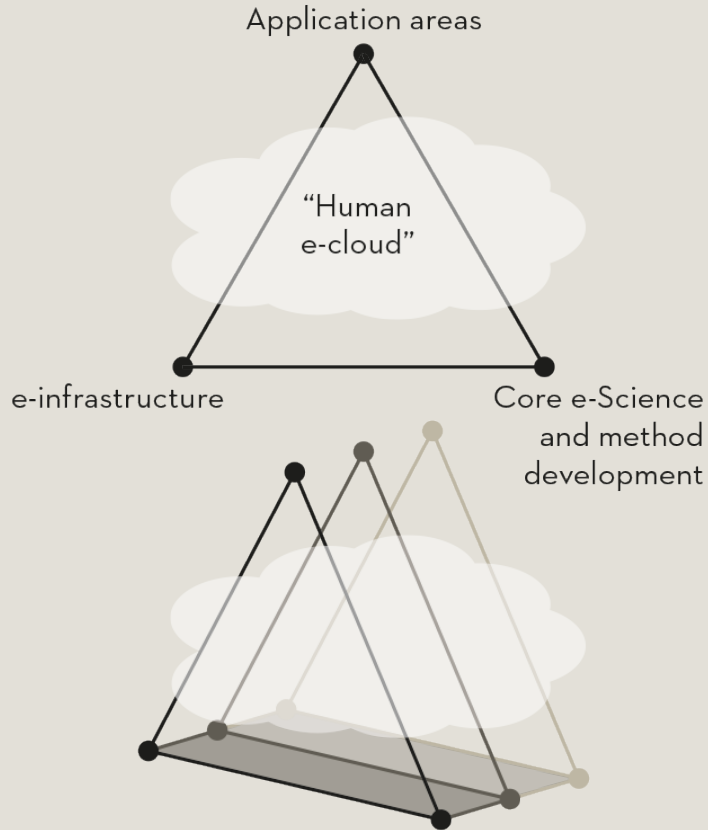
- e-Science = using digital information and the processing of this information to gain new scientific insights



What is SeRC?

- A strategic research centre within the strategic research area (SRA) of e-Science ...
- ... which is one of 24 SRAs
- Funded by the Swedish government Strategic Research Area Initiative
- Founded in 2010 resulting from the Swedish Government Bill on Research Policy
- Based on a collaboration between KTH, SU, KI, and LiU

SeRC



How do we work?

SeRC's three-pillar model

- Pillar 1 – application areas
- Pillar 2 – e-infrastructure
- Pillar 3 – core e-Science and method development
- "Human e-cloud" of application experts facilitate interaction
- Bottom pillars mutual for several application areas
- Multidisciplinary Collaboration Programs (MCPs) encompass several pillars

**Strategy for the future:
SeRC 2.0**



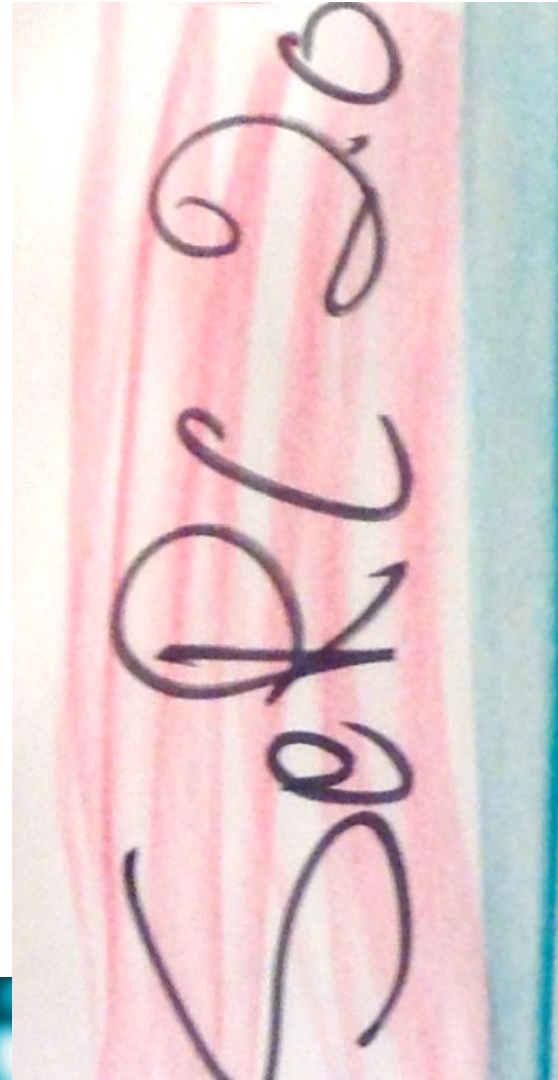


Developing SeRC 2.0

- SeRC moves from communities to MCP's
 - SeRC will be renewed entirely
 - all funding is discussed
 - MCP's are in the process of being defined
- MCP's best way to foster collaboration between researchers from all three SeRC pillars
- Real renewal is necessary for SeRC's survival

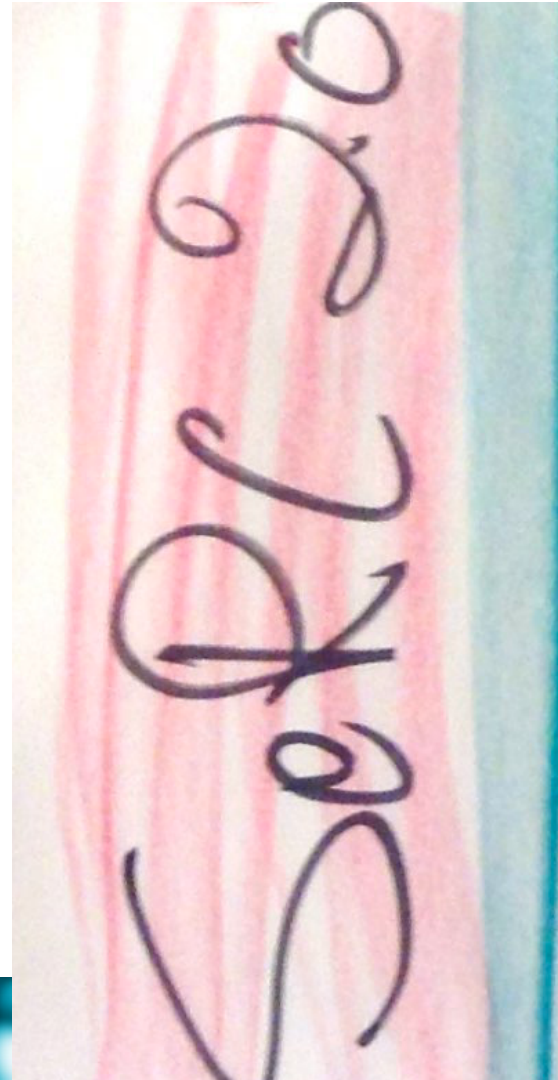
Strategy and board meeting fall 2017 resulted in seven MCP areas

- MCP's to be defined or renewed
 - Brain-IT
 - Material design: DCMD
 - eCPC
 - Large scale ML
 - Probabilistic ML
 - Exa-scale: SESSI
 - VIZ
- Ideas briefly presented at 16:45




MCP funding criteria

- MCP's should address
 - Build scientifically strong research groups
 - Develop new tools for several applications
 - Facilitate new funding
 - Involve e-Science experts
 - Create large impact
 - Interface with university education
 - Improve gender balance
- Used in proposal evaluation





Way forward:

- Board takes a decision about how to proceed with proposals tomorrow
 - Possible modification of proposals during fall
 - Fall strategy meeting dealing with MCP's
 - Decision about funding at the fall board meeting
 - SeRC 2.0 fully implemented 2019
 - We should be well prepared for 2021 evaluation
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SERC

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www.e-science.se