

DataKube

empowering domain experts with scalable knowledge discovery

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Outline

- 1 A need for Human Informatics
- 2 SDU eScience Center
- 3 SDU DataKube

DataKube

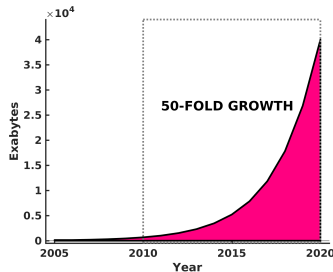
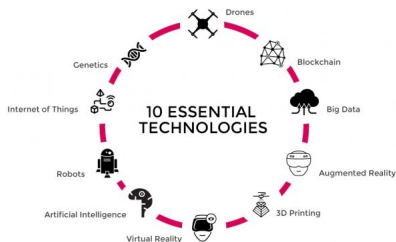
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A need for Human
Informatics

SDU eScience Center

SDU DataKube
organization
activities

A need for Human Informatics



the data deluge is transforming knowledge discovery and understanding in every domain of human inquiry

a large part of these data are soft and unstructured \Rightarrow to get value from these data, humanities (and social sciences) must utilize automation

human informatics - automatic information processing in the humanities

eScience Infrastructure at SDU

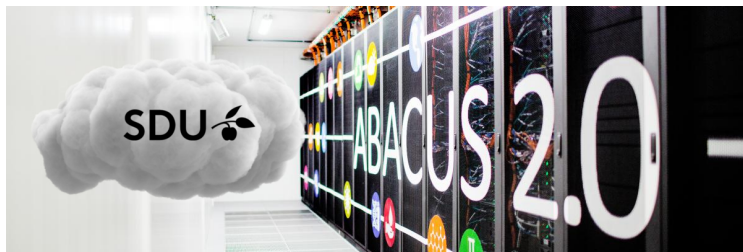
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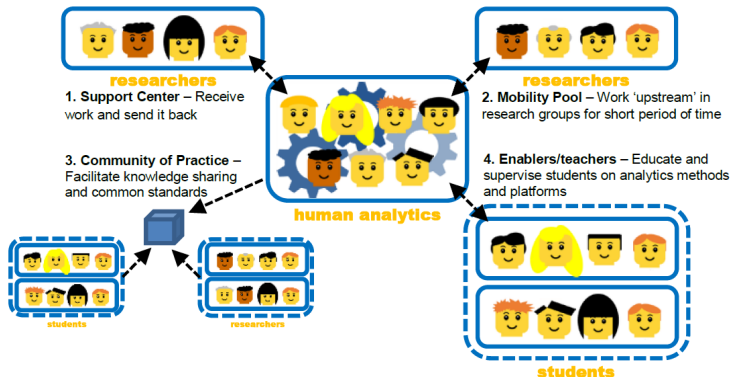
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14.016 cores, 392 slim nodes, 64 fat nodes, 72 GPU nodes with two Nvidia K40/node

the center is expanding its userbase to include more SSH relevant areas and competencies, e.g., DL, NLP, computer vision

cloud offers a fully GDPR compliant environment for cloud computing with a cumulative codebase



- Research support through collaboration (pilot, shared funding, shared authorship)

- Recently turned to tool and competency development - software development in the humanities

empowering domain experts with scalable knowledge discovery

STDOUTREACH

- standardized resource for competency development text analytics
- datakuben YouTube
- InfoVis/visual analytics for Scandinavian Textual Cultural Heritage

NDHL

- modelled over the NLPL template, we are proposing a *Nordic Digital Humanities Laboratory*
- “computing allocations of at least one million node*hours pr. year for a project directory (for domain-specific software and data) of at least a handful of TB, and mechanisms to allow NDHL members from Denmark, Finland, Norway, and Sweden to obtain user accounts and make use of these allocations”

