### DataKube

Software Development for Researchers by Researhers

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October 2, 2018

## Outline

#### DataKube

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A need for Human Informatics

DU eScience Center

SDU DataKube Organization Activities

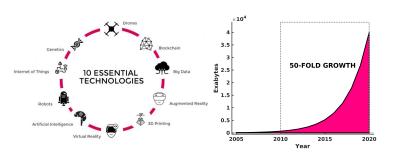
1 A need for Human Informatics

2 SDU eScience Center

3 SDU DataKube



# 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 ⇒ to get value from these data, humanities (and social sciences) must utilize automation

human informatics - automatic information processing in the humanities

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A need for Human

SDU eScience Center

Organization



### eScience Infrastructure at SDU



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 complient environment for cloud computing with a cumulative codebase

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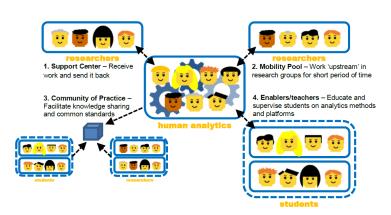
SDU eScience Center

DU DataKube

Activities



#### SDU DataKube



- Research support through collaboration (pilot, shared funding, shared authorship)
- Recently turned to tool and competency development software development in the humanities

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Organization Activities



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"



