FILLING INSTITUTIONAL DATA REPOSITORY

UNIVERSITY OF TARTU PERSPECTIVE

Maksim Misin
Data Management Specialist
University of Tartu Library

https://commons.wikimedia.org/wiki/File:University_of_Tartu_Estonia_optimized.jpg

PLAN...

- The Story so Far
- Addressing Challenges
- Looking forward

PART I
THE STORY SO FAR

https://unsplash.com/photos/o6GEPQXnqMY

TIMELINE OF TARTU DATA REPOSITORY

2012

- Scientists approached library

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doi

DataCite
FIND, ACCESS, AND REUSE DATA

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2017

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- Organised "Open Research Data" conference

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DATA REPOSITORY POLICIES

MISSION:

Support of research lifecycle in the University of Tartu

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All types of research data, with the focus on long-tail data without discipline-specific repositories

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Either with the help of a librarian, or independently. In the later case submitted material should be reviewed before it will be made public

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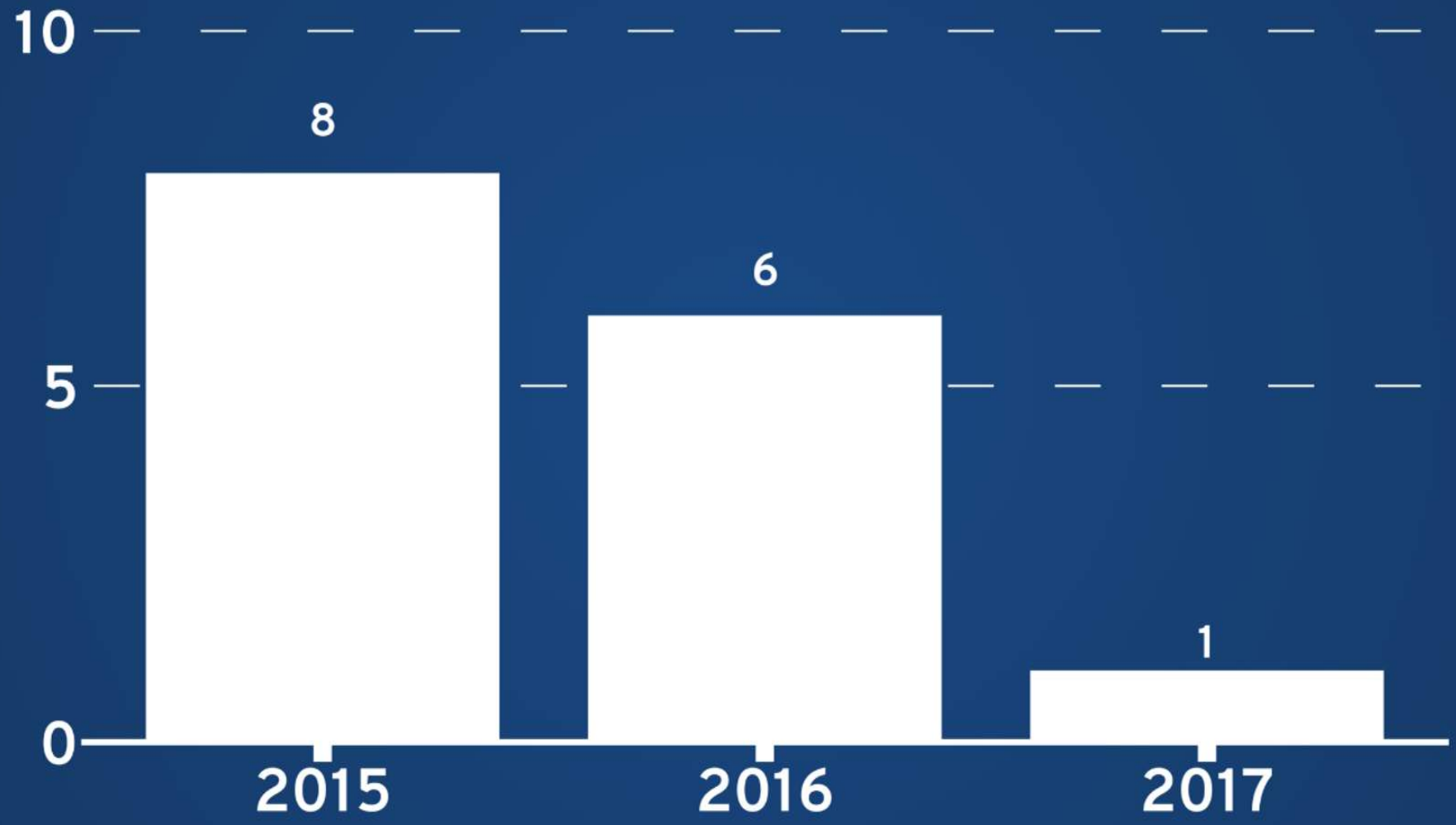
OPEN ACCESS:

Encouraged but not enforced

TIMELINE OF USER SUBMISSIONS



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PART II
ADDRESSING CHALLENGES

A FAMILIAR STORY...

UNIVERSITY OF CAMBRIDGE:

72 datasets over a decade (2005-2015) [1]

UNIVERSITY OF ROCHESTER:

7 datasets submitted since 2006 [2]

UNIVERSITY OF CORNELL

114 datasets since 2005 [3]

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1632

[1] https://unlockingresearch.blog.lib.cam.ac.uk/?p=221
[2] https://urresearch.rochester.edu/viewRepositoryStatistics.action
[3] https://ecommons.cornell.edu/browse?value=Dataset&type=type

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UNIVERS

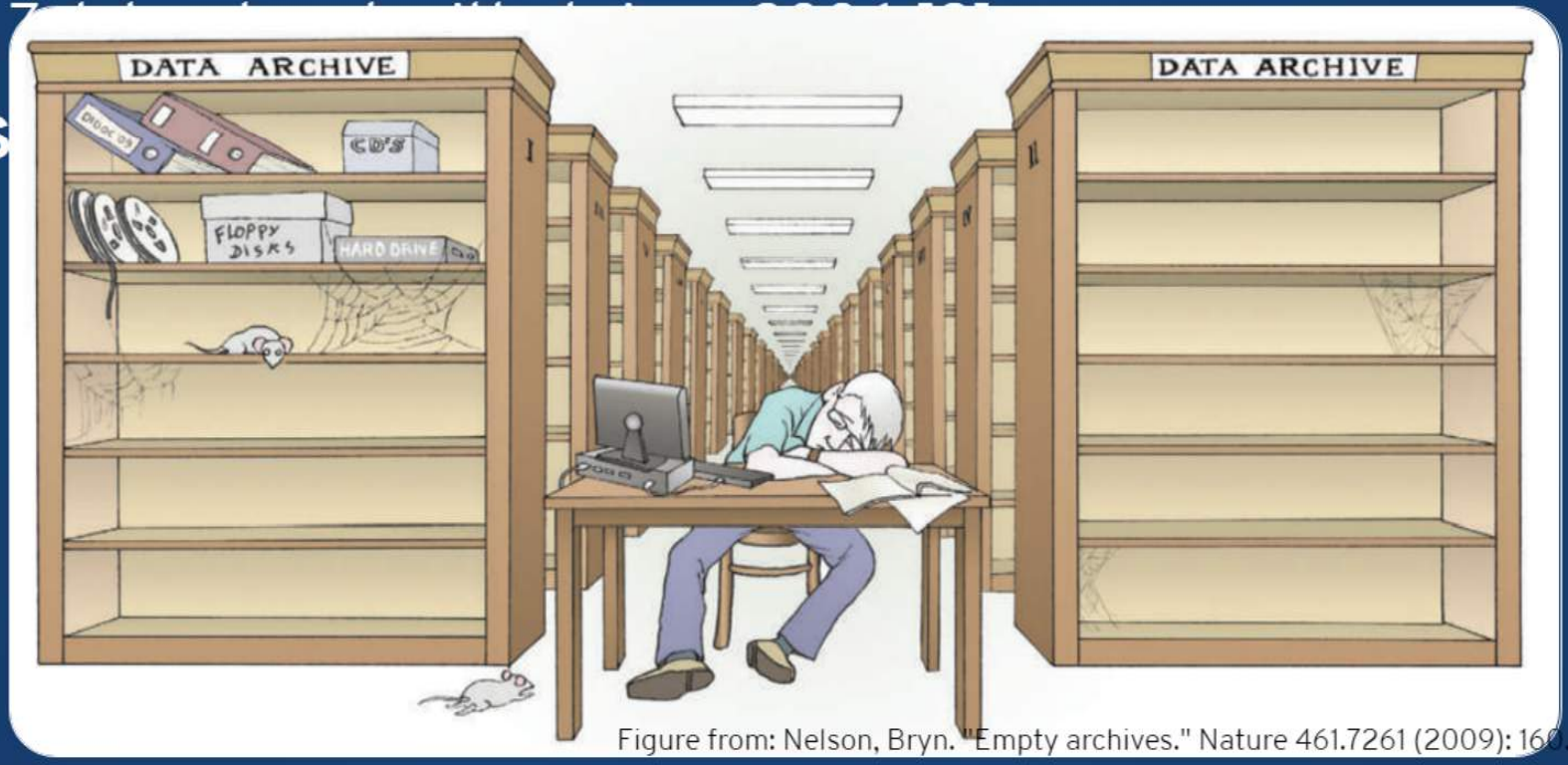

Figure from: Nelson, Bryn. "Empty archives." Nature 461.7261 (2009): 160.

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[1] https://unlockingresearch.blog.lib.cam.ac.uk/?p=221
[2] https://urresearch.rochester.edu/viewRepositoryStatistics.action
[3] https://ecommons.cornell.edu/browse?value=Dataset&type=type

PLAN FOR THE NEXT YEAR

- Simplify use and submission
- Engage students
- Engage governmental agencies

https://www.flickr.com/photos/metaljar/14402635864

DATADOI.UT.EE TWO MONTHS AGO

Datadoi is a digital service that collects, preserves, and distributes scientific research data. Open data can freely and without any restrictions be downloaded, disseminated and re-used

Communities in Datadoi

Select a community to browse its collections.

- Füüsika
- Sotsiaalteadused

Recently Added

Informatsiooni vahendamise teooria ja praktika probleeme Eesti Raadios
Raudam, K.; Saar, A. (Tartu Ülikool, 1984)
Informatsiooni vahendamist Eesti Raadios on käesolevas töös käsitletud keskse infosaate "Päevakaja" baasil, sest selles väljenduvad kõige selgemalt probleemid, mis on seotud informatsiooni edastamisega kuulajale. Selleks ...

Päeviku 3/93 lisaleht
Kaldaru, Hella (Tartu Ülikool, 1993-11)
Uuring Eesti venekeelse telepubliku eelistuste kohta eesmärgiga saada teada, kui vaadatav on VENE VIDEOKANAL ja mille järgi tehaksi valik kanali ning saate osas. Küsimustikus osales 198 inimest.

ENSV MN Koondise "Eesti Põllumajandustehnika sotsiaalse arengu aluste väljatöötamine. ITP enesetäiendussüsteem EPT süsteemis tervikuna.
Auväärt, L.; Mikson, M.; Lupp, E.; Titma, Mikk; Trummal, M. (Tartu Ülikool, 1975)
Aruanne sisaldab ülevaadet koondise „Eesti Põllumajandustehnika" personaliuuringust, mille eesmärgiks oli

DATADOI.UT.EE TODAY

DataDOI

English Login

The DataDOI is an open access repository for publishing research data from the University of Tartu

Search DataDOI Search

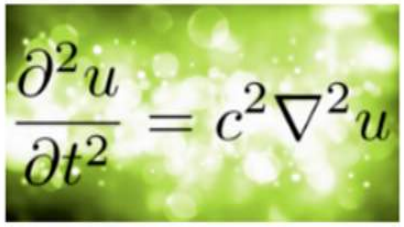
Submit Dataset

DataDOI

Communities in DataDOI

Humaniora

Medicina



Realia

Socialia

Teised/Others

ITEM VIEW TWO MONTHS AGO

Vertical profiles of atmospheric variables based on tethersonde soundings from Ny-Ålesund

Palo, Timo; Jakobson, Erko

URI: http://dx.doi.org/10.15155/repo-6
http://datadoi.ut.ee/handle/33/11
Date: 2015-04

Abstract:

The melt of snow and sea ice in Svalbard and its fjords is strongly controlled by the radiative and turbulent surface fluxes. The fluxes depend, among others, on the structure of and processes in the ABL. Over a complex topography, such as Svalbard mountains and fjords, the state of the ABL is not well known. It is affected by the synoptic-scale flow conditions, which vary between cases of advection of warm, marine air masses from open ocean and cold-air outbreaks from the north or east. Data of vertical profiles of atmospheric variables were collected as a part of the project "Atmospheric boundary layer and its interaction with snow and sea ice in Svalbard fjords". The principal objective of the project was to better understand and quantify the processes in the atmospheric boundary layer (ABL) over complex topography in Svalbard and their interaction with the snow and sea ice surface. Soundings archive consists 17 high-resolution vertical profiles of the measured atmospheric characteristics (air temperature, relative humidity, wind speed and direction, and air pressure) acquired from the tethersonde soundings campaign in Ny-Ålesund (Svalbard archipelago) between 21 March and 2 April in 2009.

Description:

Soundings were carried out on daily basis by using Vaisala tethersonde system DigiCORA TT12 with maximum altitude of 2000 m. The instrumentation consisted of 7 m3 helium filled balloon for lifting sondes, an electrical winch, three sondes suspended on the tether line below the balloon at approximately 20 m vertical intervals, and a ground station. Limited by the wind speed, however, soundings were not possible to perform every day. Each profile in dataset includes ascending and descending profiles of variables. Dataset presents raw data where no averaging over the sondes and heights is done. Yet, data is checked manually for errors. Some distinct obviously erroneous signals and spike values were removed from the data. More about the methods is described in ReadMe text file.

Show full item record

Files in this item

Name: ReadMe_vert_profi ... View/Open
Size: 19.49Kb
Format: PDF

Name: vert_profiles_Ny_ ... View/Open
Size: 5.064Mb
Format: Microsoft Excel

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ITEM VIEW TODAY

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Export

Name	Size	Description
ReadMe_vert_profiles_Ny_Alesund.pdf	19.49Kb	
vert_profiles_Ny_Alesund.xls	5.064Mb	

Date
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Metadata
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Keyword
vertical profiles of air temperature; realtive humidity; wind speed and wind direction; Svalbard; Spitsbergen; Ny-Ålesund; tethersonde soundings; atmospheric boundary layer; Arctic; atmosphere; Arctic climate

Item type
Dataset info:eu-repo/semantics/dataset

Collections
Füüsika instituut [9]

Search

Search DataDOI
This Collection

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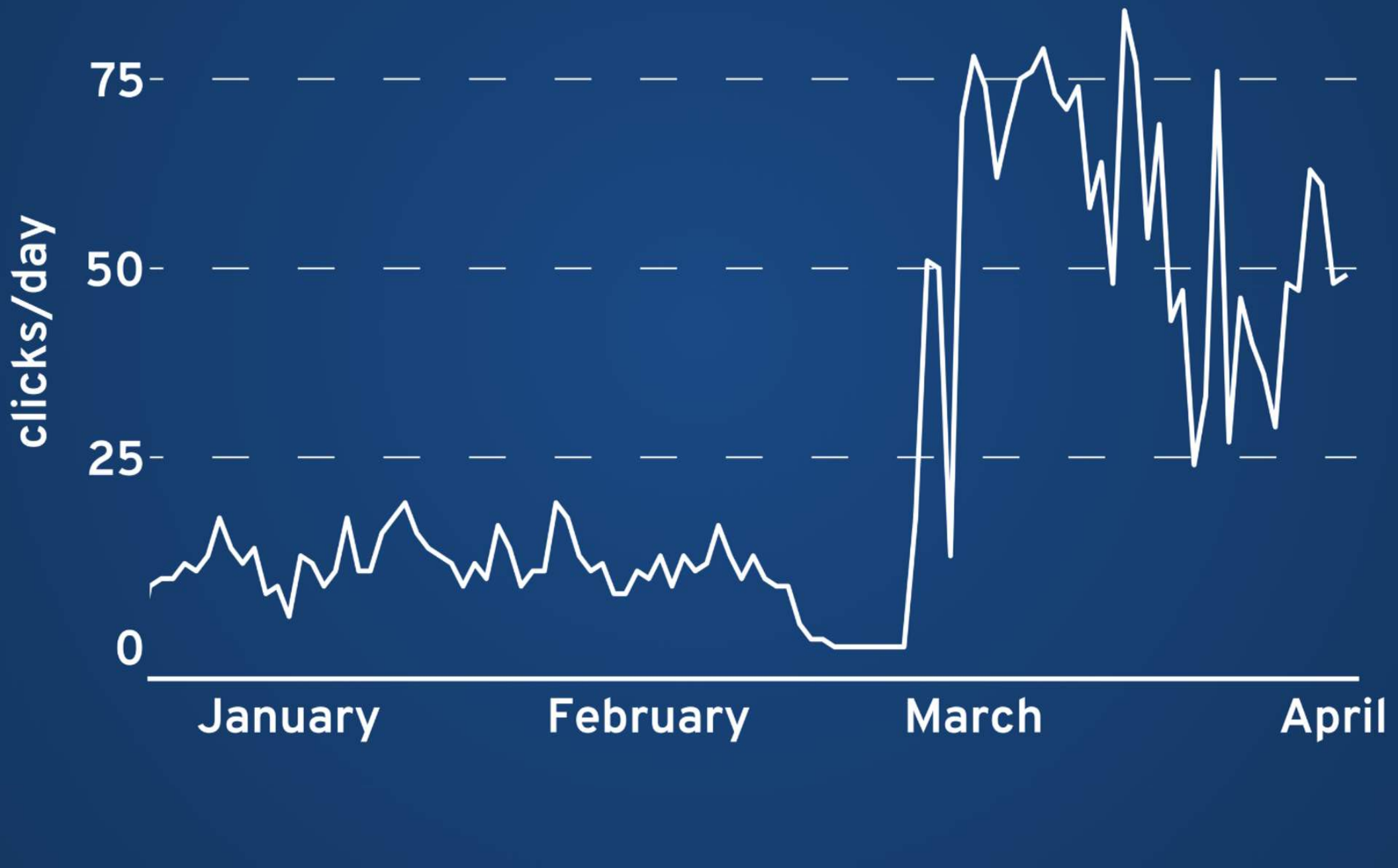
Communities & Collections
By Issue Date
Authors
Titles
Subjects
This Collection
By Issue Date
Authors
Titles
Subjects

MY ACCOUNT
Login
Register

STATISTICS
View Usage Statistics

USER TRAFFIC IN 2017



FURTHER WORK

- Actually enabling all staff and students to submit
- Additional functionality
- Tutorials and policies
- First stage should be completed by June 2017

MAKING STUDENTS SHARE DATA

- Might be simpler than with academics
- Planned for autumn
- Start with Bachelor and Master's students
- Should include lectures for students
- ... and for faculty

https://commons.wikimedia.org/wiki/File:Universit%C3%A9_Missouri_School_of_Journalism.jpg

WORKING WITH RESEARCH COUNCIL

- Might be simpler than with academics
- Probably more effective
- The aim is mandatory data archiving for projects funded by Estonian government

https://www.flickr.com/photos/afge/30538590281

PART III
LOOKING FORWARD

https://unsplash.com/photos/MS7KD9Ti7FQ

POSSIBLE LONG-TERM OPEN DATA SOLUTIONS

- Encouraging faculty and postgraduates to become "data champions" and help them spread their passion [1]

[1] http://www.data.cam.ac.uk/intro-data-champions

POSSIBLE LONG-TERM OPEN DATA SOLUTIONS

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- Integrate data archiving in other university data management systems such as OwnCloud

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POSSIBLE LONG-TERM OPEN DATA SOLUTIONS

- Encouraging faculty and postgraduates to become "data champions" and help them spread their passion [1]
- Integrate data archiving in other university data management systems such as OwnCloud
- Make data publications equivalent to article publications (very long term)

[1] http://www.data.cam.ac.uk/intro-data-champions

POSSIBLE LONG-TERM OPEN DATA SOLUTIONS

- Create a single repository for all scholarly output

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- Move away from institutional data repositories to national archives

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- Move away from institutional data repositories to national archives
- Switch to cloud solutions (Zenodo, EUDAT, Dryad)

CONCLUSIONS

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- We built a data repository but (almost) no one is using it
- To promote it we will need to improve design and functionality as well as help from other people
- Judging from the experience of other universities (Harvard, Leiden, Edinburgh) widespread data archiving *is possible*, but takes years to cultivate

See it again:

https://slides.com/maksimmisin/tartu-dr

Check out DataDOI code:

https://github.com/University-of-Tartu-Library/DataDOI-Theme

THANK YOU!

Maksim Misin
maksim.misin@ut.ee

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1632

https://commons.wikimedia.org/wiki/File:Tartu_%C3%BClikooli_raamatukogu_2014.jpg