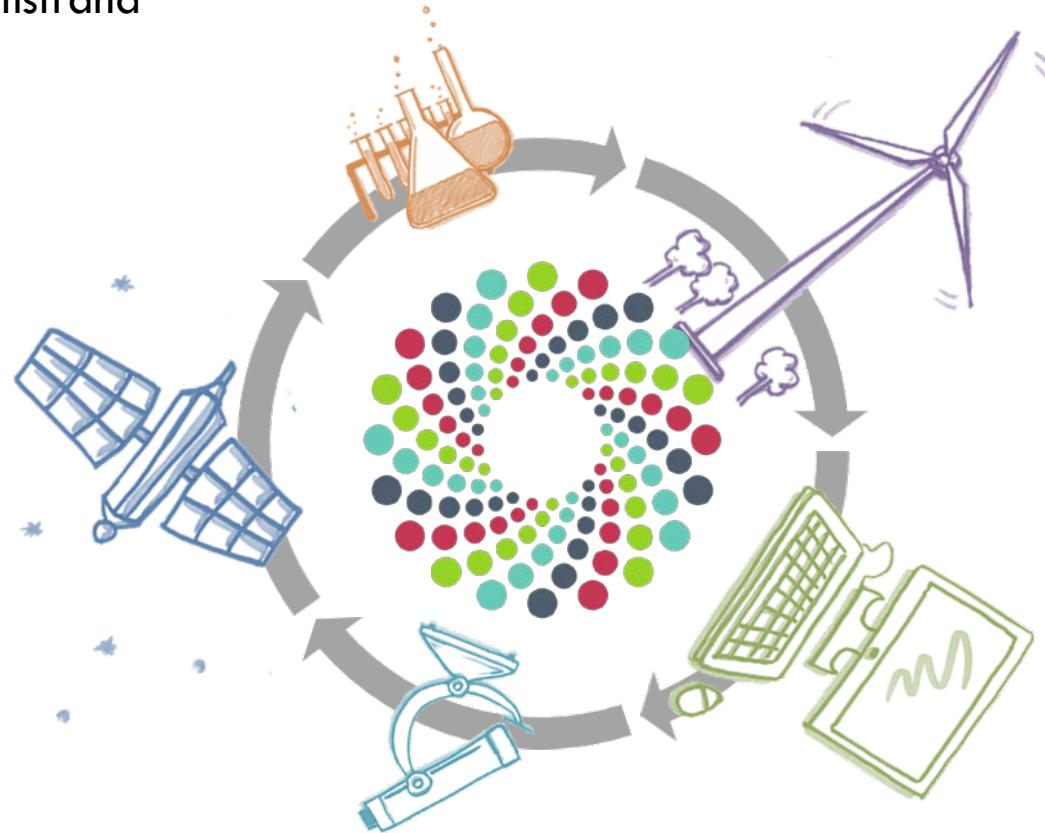


FRA figshare TIL DTU Data

Katrine Flindt Holmstrand

kafh@dtu.dk

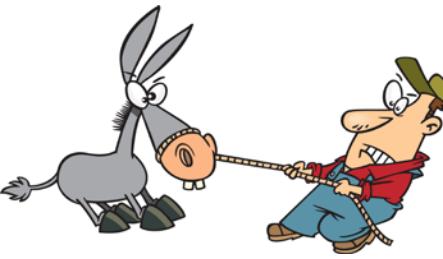


$$f(x+\Delta x) = \sum_{i=0}^{\infty} \frac{(\Delta x)^i}{i!} f^{(i)}(x)$$

$\Delta \int_a^b \Theta + \Omega \int \delta e^{i\pi} =$
 $\Sigma \infty = \{2.7182818284$
 $\geq 0, \leq$
 $\geq \Sigma!$

- Nu
- Om 3 år
- Ideelt om 5 år

Research Data Management
drevet af national lovgivning og uni. politikker



RDM supporteret af
Forskningskontorerne

RDM supporteret af
bibliotekerne



Book-a-Librarian



RDM drevet af forskerne

FRA figshare TIL DTU Data

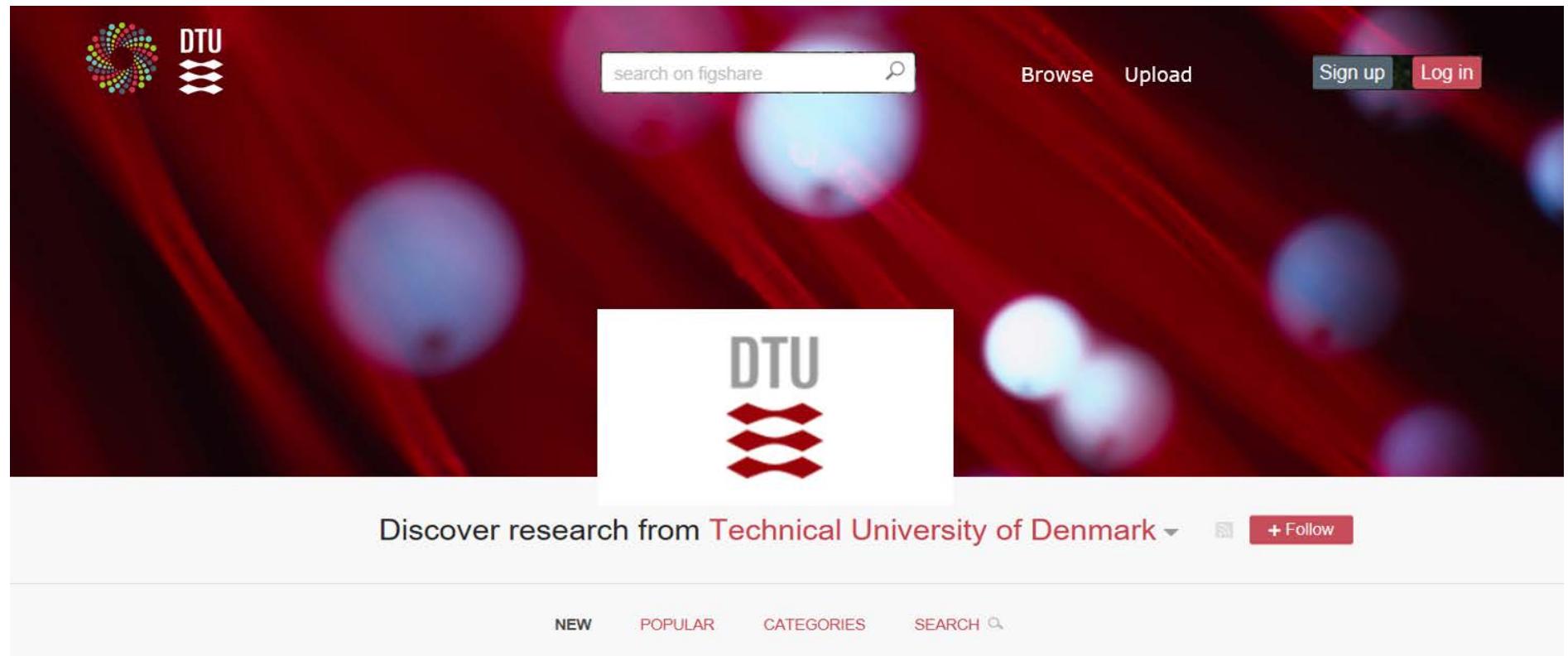
- FAKTABOX
- VEJEN TIL (DTU) DATA
- HVOR FAIR ER DTU DATA
- HVAD KAN DTU DATA
- LIDT OM PILOTERNE



DTU'S DATA ARKIV OG PUBLICERINGSVÆRKTØJ

DTU Data er et arkiv hvor forskere kan dele og publicere **forskningsdata**

- Så det bliver søgbart, tilgængeligt, citerbart og genanvendeligt
- En skræddersyet applikation (repository) bygget på figshare's platform



Projektgruppe: DTU Bibliotek, Gitte Bruun Jensen

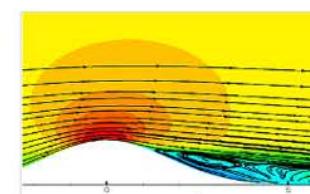
Paula Martinez Lavanchy, Projektmedarbejder

Falco Hüser, Projektmedarbejder

Søren Hovmand, IT konsulent



Steady State Comparisons HAWC2
v12.5 vs HAWCStab2 v2.14
David Robert Verelst ✓ yesterday



Flow field over a Gaussian hill by
RANS simulation
Ju Feng ✓ yesterday

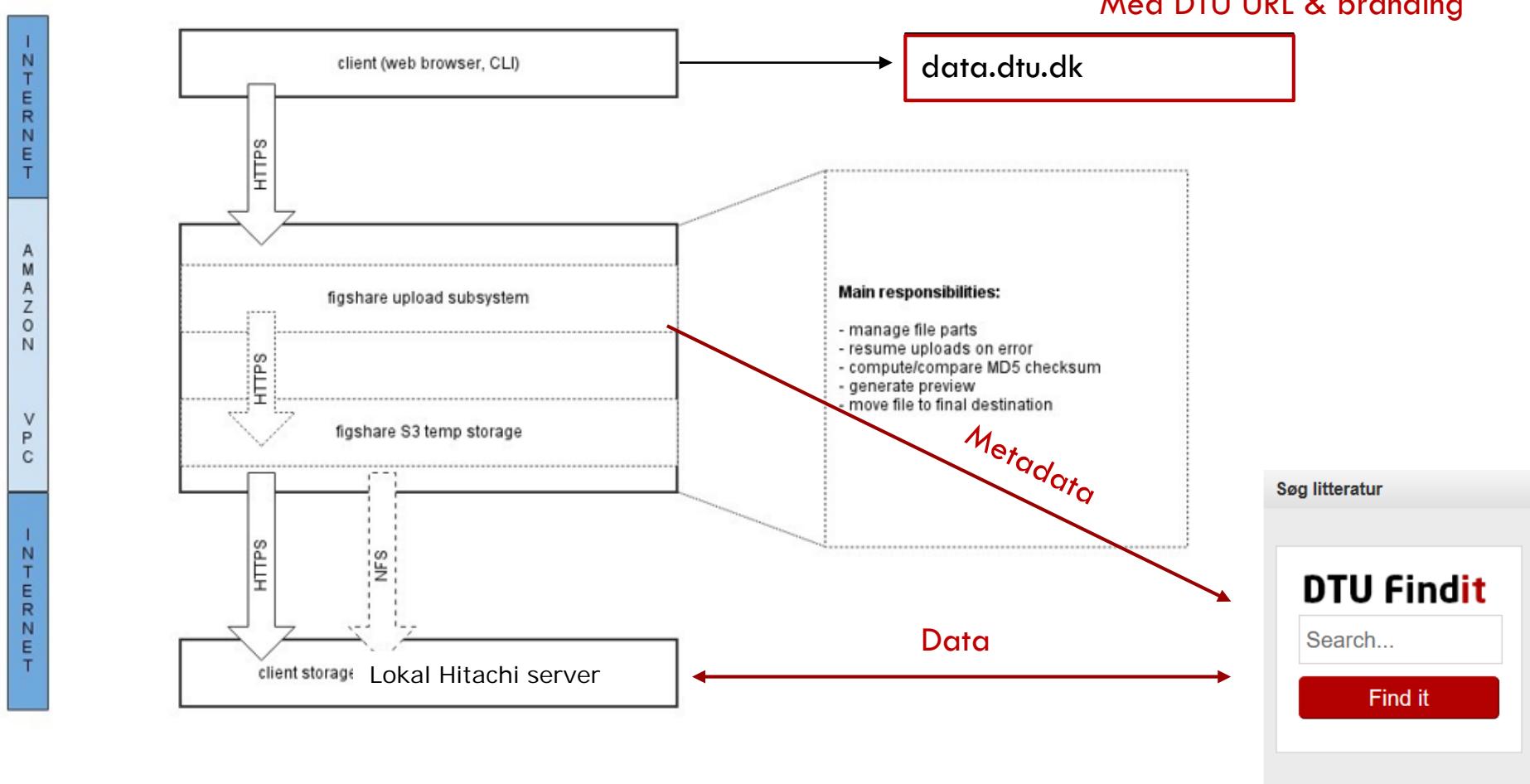


Perdigão-2015: multi-lidar flow
mapping over the complex terrain...
Nikola Vasiljevic ✓ yesterday

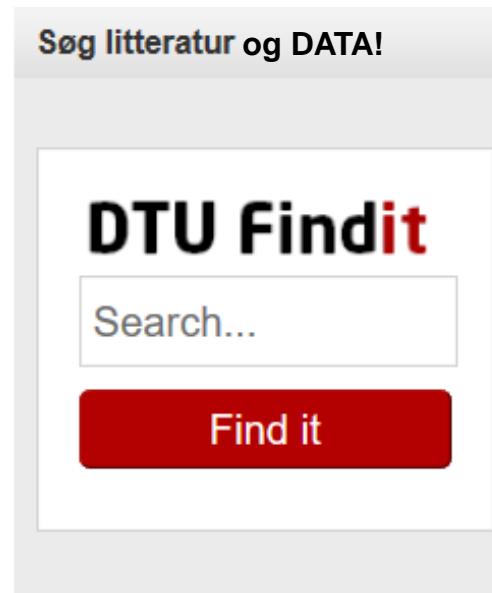
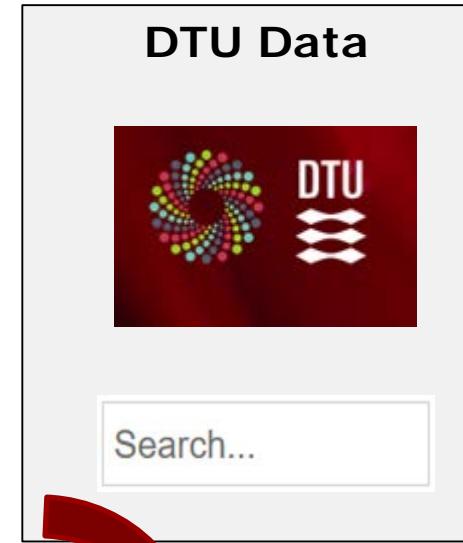


Perdigão-2017: multi-lidar flow
mapping over the complex terrain...
Robert Menke ✓ yesterday

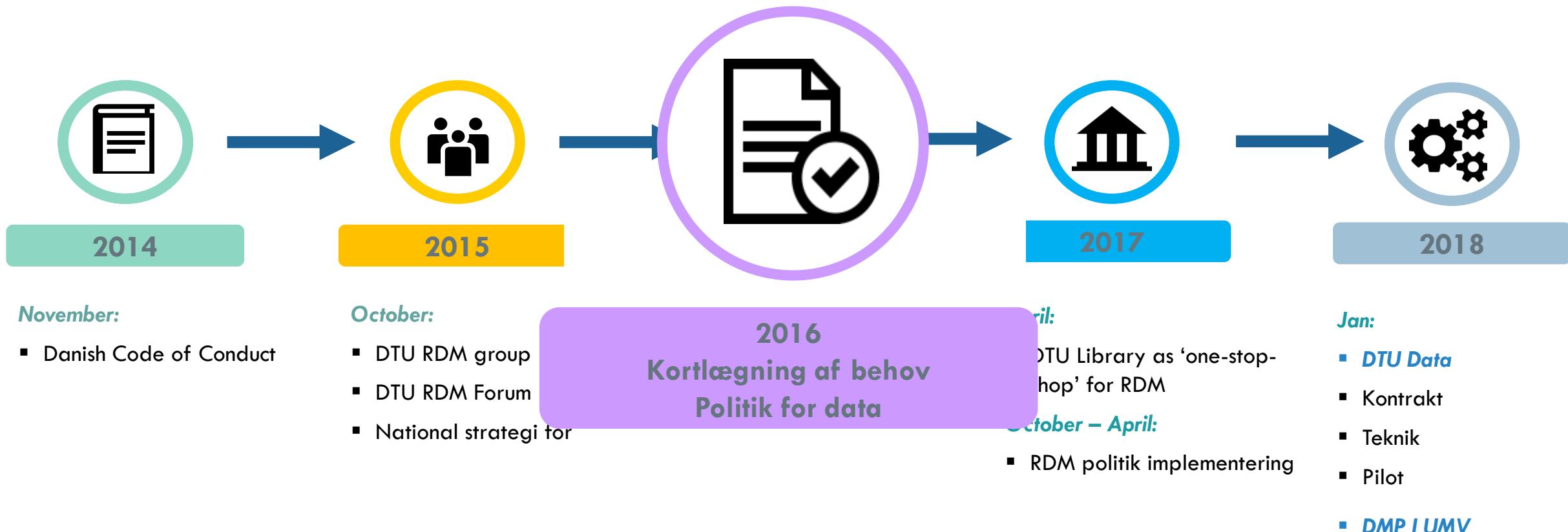
OG SÅ BARE EN SMULE TEKNIK



DTU's BIBLIOTEKS SERVICE SUITE

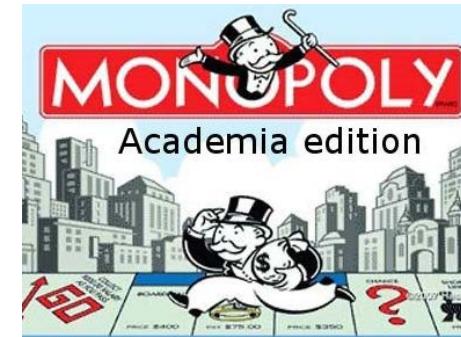
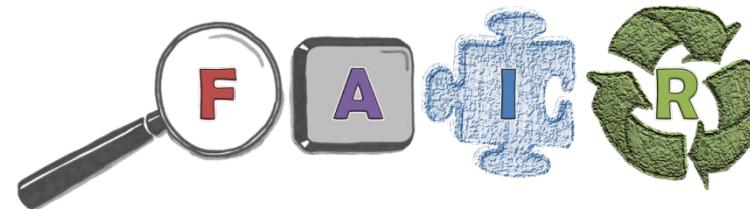


VEJEN TIL



ET DTU DATA REPOSITORY SKAL

- Være et værktøj til at skabe FAIR forskningsdata
- Være kompatibel med DTU AIT storage
- Tilbyde open API
- Supportere DataCite og tilskrive DOI'er automatisk
- Ikke kræve (for mange) IT udviklere – altså ikke være open source
- Være sustainable
- Minimere Vendor-lock-in



POLITIK FOR OPBEVARING AF PRIMÆRE MATERIALER OG DATA - FORMÅL

DTU's POLITIK VIL

- være i overensstemmelse med bedste praksis på de enkelte forskningsområder, normer, etiske protokoller, herunder fortrolighed og privatliv samt andre retlige krav, herunder **Danish Code of Conduct for Research Integrity*1**.
- sikre, hvor det er relevant, at der er adgang til primære materialer og forskningsdata, der **kan understøtte forskningsresultater, og bidrage til andre forskningsprojekter**.
- sørge for, hvor det er relevant, at forskningsdata understøtter Open Science ved at sikre, at **data kan findes, er tilgængelige og genanvendelige**.
- afstemme håndteringen af forskningsdata med **krav** fra bevillingsgivere og udgivere af videnskabelige tidsskrifter.
- At fremme synligheden og **anerkendelsen** af DTU's forskning.

www.dtu.dk/om-dtu/strategi_aarsrapporter_mv/politikker/delpolitikker

POLITIK FOR OPBEVARING AF PRIMÆRE MATERIALER OG DATA - PRINCIPPER

DATA SKAL:

- Anerkendes som **værdifulde**
- Indtænkes ved planlægningen (ved opstart af et nyt forskningsprojekt) **DMP**
- Opbevares sikkert og forsvarligt (**storage**)
- Kunne findes, være tilgængelige, interoperabel og genanwendelige (**FAIR principperne**)
- Opbevares i overensstemmelse med de faglige traditioner eller i mindst **fem år** efter publicering eller offentliggørelsen af forskningsresultaterne
- Bortskaffes på korrekt vis (**Rigsarkivet**)
- Håndteres i overensstemmelse med etiske protokoller og møde juridiske krav om privatliv og databeskyttelse (**Sensitiv data**)

POLITIK FOR OPBEVARING AF PRIMÆRE MATERIALER OG DATA - ANSVAR

Lagring af data: DTU skal tilvejebringe et lagringssystem, der giver forskere mulighed for at forvalte deres data ansvarligt. Et sådant lagringssystem indebætter: opbevaring, adgangskontrol og sikkerhedskopiering.

Forskningsdatakatalog: DTU skal stille et forskningsdatakatalog til rådighed, der gør det muligt at finde data, gøre dem tilgængelige og citere dem.

Støtte til forskningsdata management: DTU skal:

- 1) give mulighed for uddannelse og **efteruddannelse**
- 2) **rådgive** om praksis, juridiske problemstillinger og infrastrukturer
- 3) **udvikle** og vedligeholde almindelige systemer og infrastrukturer til forskningsdata management.

SPØRGSMÅL: ER DTU's POLITIK SÅ KLASK ELLER KAROTTER?



Data Repository (DTU's bibliotek)



Image: CCO

Archive storage (DTU's afdeling for IT)

- Understøtte FAIR principperne og eksterne krav
- Facilitere genanvendelse af data
- Promovere forskningsresultater
- Åbne muligheder for metrics & rewards for dataset
- Link mellem data og publikationer
- Være et katalog over forskning

- Understøtte Code of Conduct (opbevaring af data i mindst 5 år efter publikation)
- Indeholder data and dokumentation
- Indeholder ikke-publiceret og sensitiv data
- Opbevaring af person data = Rigsarkivet
- Storage plads, adgangskontrol og back-up

PISK KRAV FRA FONDSGIVERE



SOLUTION

Horizon 2020 already mandates open access to all scientific publications



From 2017,
research data is
open by default,
with possibilities to opt out

“As open as possible, as closed as necessary”

HOW IT WORKS



PUBLICATIONS AND DATA
RDA Plenary Cartoons by Auke Herrema



DATA SHARING
RDA Plenary Cartoons by Auke Herrema

KRAV FRA FORLAG

- Authors are required to make materials, data, code, and associated protocols promptly **available to readers** without undue qualifications.
- Any **restrictions on the availability** of materials or information must be disclosed.
- Supporting data must be made available to **editors and peer reviewers**.
- All manuscripts must include a **data availability statement**.

<http://www.nature.com/authors/policies/availability.html>

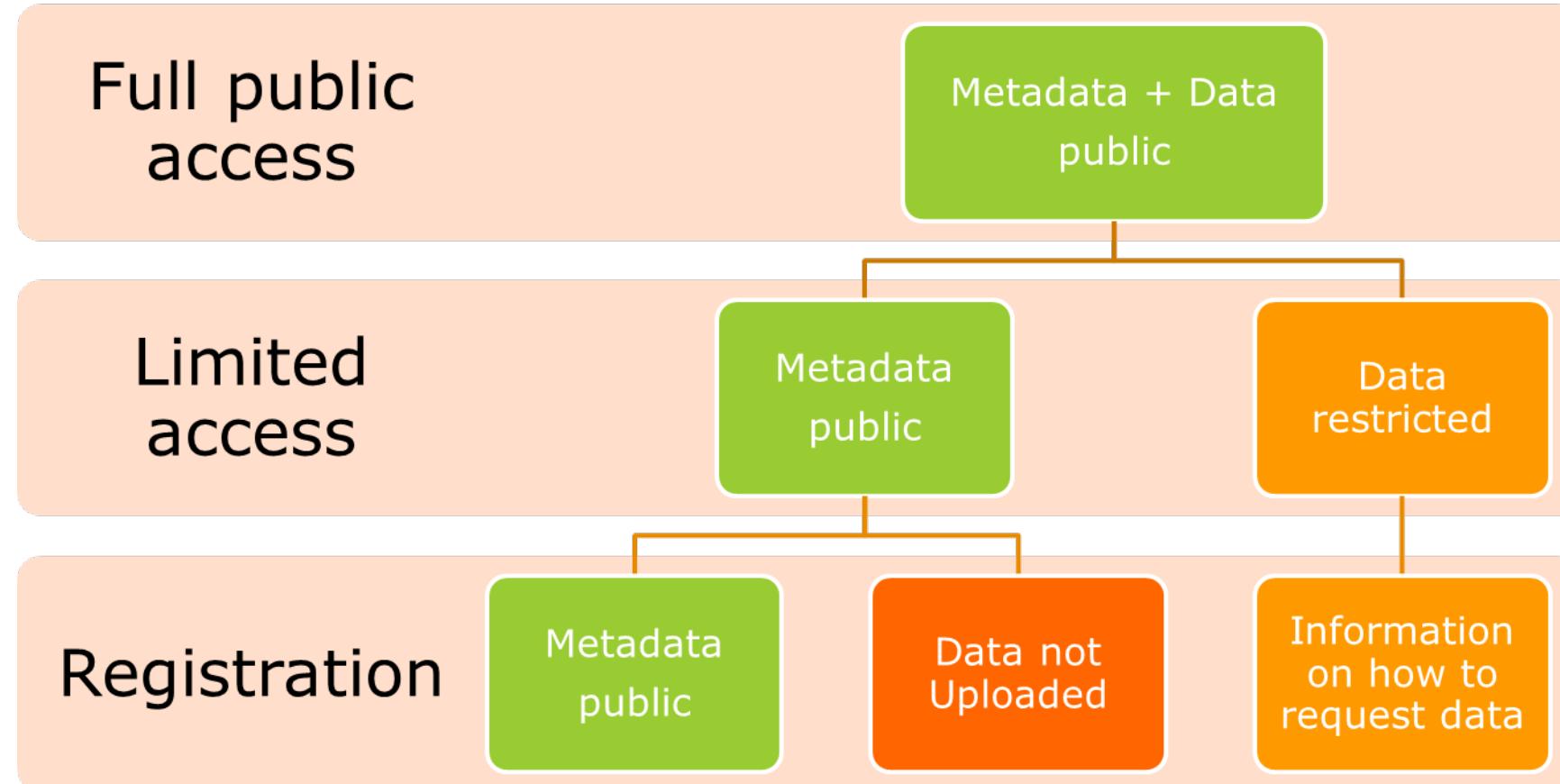


Data availability

The data shown in the plots and that support the findings of this study are available from the Research Data Repository of the University of Bristol at <https://doi.org/10.5523/bris.2ymwd4m50qkt26mtrhpli3d1i>.

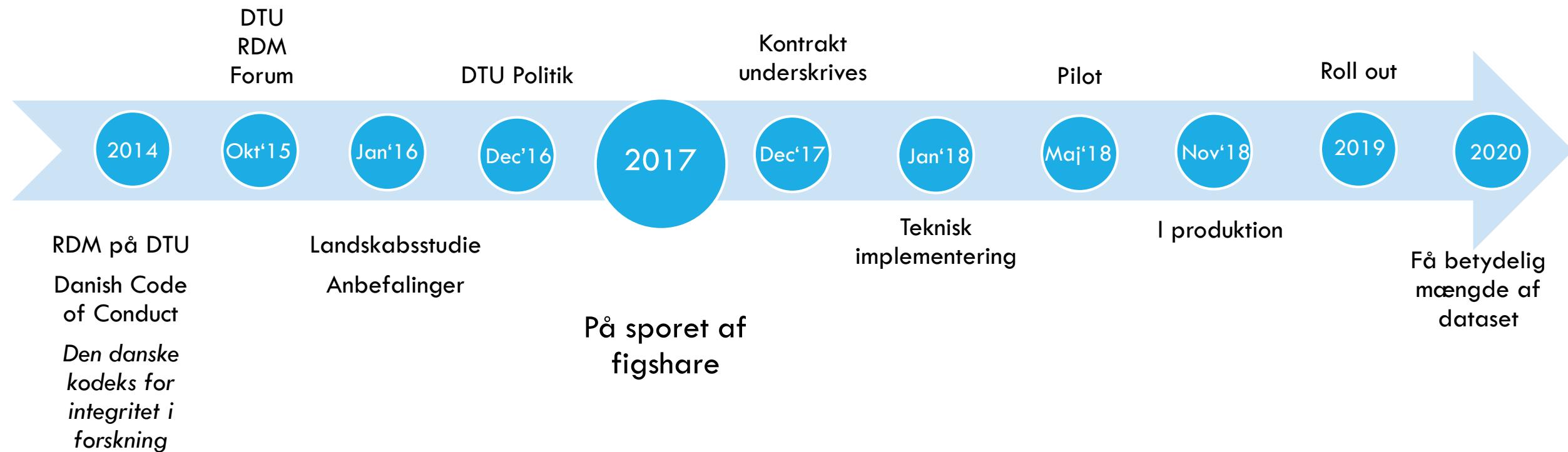
Received: 11 October 2017; Accepted: 21 March 2018;
Published online 30 May 2018.

TRE NIVEAUER AF DELING



SÅ ÅBENT SOM MULIGT – SÅ LUKKET SOM NØDVENDIGT

SIMPELTHEN OG HJEM



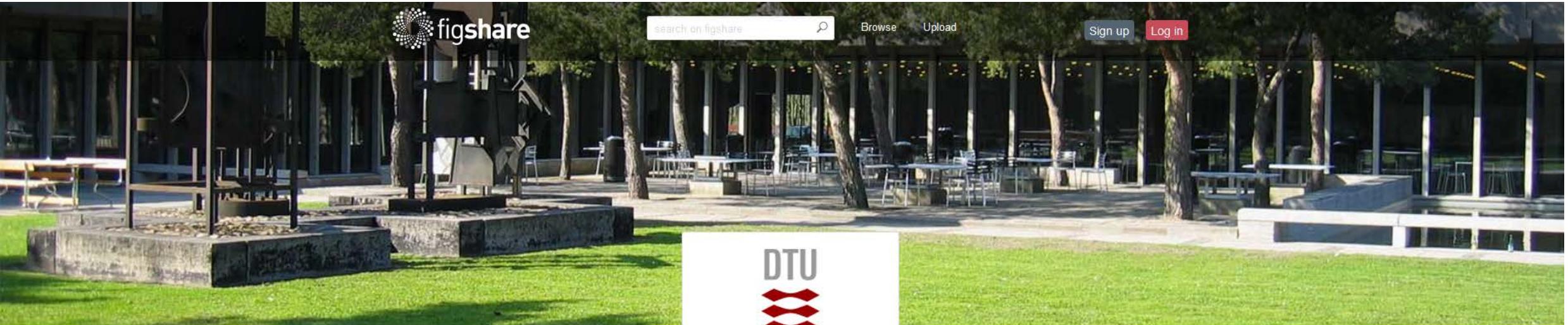
VALGET

- Ingen Cloud
- Ikke Open source
- = figshare

Table 1. Comparison of Data Archive solutions	Zenodo (cloud)	Figshare (cloud/local)	ERDA (cloud)	4TU. Data Archive (cloud/local) OS
Features				
Software				
Deployment (Installation package, service, etc)				
Possibility of local installation at DTU				
Open source				
Documentation of the code				
Support and training service				
Customization of GUI				
Institutional DataCite DOIs				
OAI-PMH				
Open API				
Storage				
Storage locally at DTU				
Extraction of data and metadata				
Functionalities				
Single sign-on (SSO)				
ORCID				
Set up of individual workspaces / group spaces				
Define different user roles				
Review function / validation workflow				
Embargo (access) management				
Handling of real-time data (auto upload)				
Flexible Metadata schema				
Record license specification				
Minting DataCite DOIs to data sets and metadata				
Logging of data view/downloads				
Altmetrics				
Links to research grants				
Links to publications				
Price				
Initial subscription price				
Free storage size limit				
Price per GB above this limit				
Price per year				
Size limit				
Default uploaded file size limit				
File size limit on request				
Number of files that can be stored				
Total allowed storage capacity				
Data				
Withdrawal				
Revocation of DOIs				
Encryption				
Virus check				
Storage of sensitive data				
Preservation				
Retention period				
Functional preservation				
File preservation				
Fixity and authenticity				
Curation				

HVOR FAIR ?

		Figshare	EUDAT-B2Share	Zenodo
		https://figshare.com/	https://b2share.eu/dat.eu/	https://zenodo.org/search?page=1&size=20&q
FINDABLE				
(meta)data are assigned a globally unique and eternally persistent identifier		g	g	g
data are described with rich metadata		g	r	o
(meta)data are registered or indexed in a searchable resource (able to google data-objects)		g	g	o
metadata specify the data identifier		g	g	g
ACCESSIBLE				
(meta)data are retrievable by their identifier using a standardized communications protocol		g	g	g
the protocol is open, free, and universally implementable		g	g	g
the protocol allows for an authentication and authorization procedure, where necessary		g	g	g
metadata are accessible, even when the data are no longer available		b	b	b
INTEROPERABLE				
(meta)data use a formal, accessible, shared, and broadly applicable language for knowledge representation*		g	g	g
(meta)data use vocabularies that follow FAIR principles		r	r	r
(meta)data include qualified references to other (meta)data		g	r	g
RE-USABLE				
meta(data) have a plurality of accurate and relevant attributes		o	r	g
(meta)data are released with a clear and accessible data usage license		g	g	g
(meta)data are associated with their provenance		r	r	r
(meta)data meet domain-relevant community standards		b	b	b



Discover research from **Technical University of Denmark** ▾

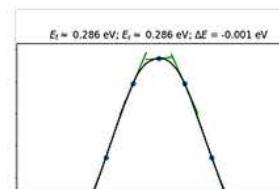
+ Follow

NEW

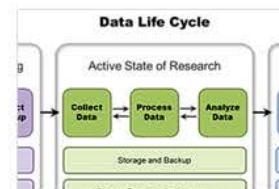
POPULAR

CATEGORIES

SEARCH 



Supporting data - Effects of the cooperative interaction on the diffu...
Ivano Eligio Castelli  01/03/2018



DTU Research Data Life Cycle
Falco Jonas Hüser  25/11/2016



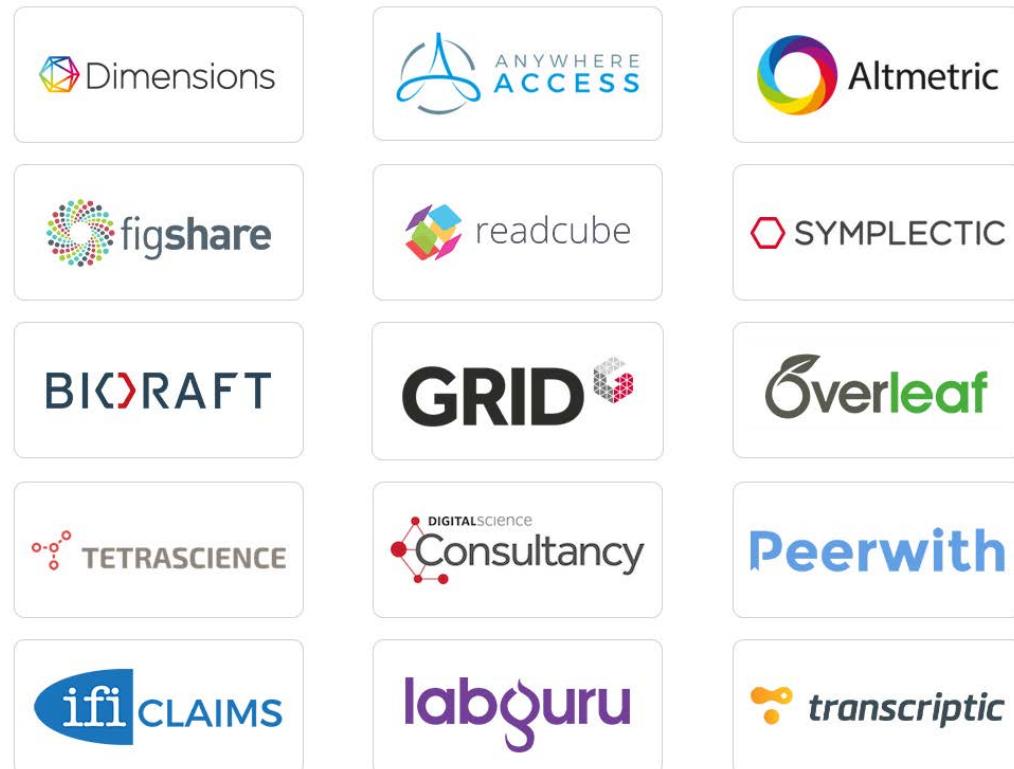
OM FIGSHARE

Holtzbrinck Publishing Group

Udspringer af [Nature Publishing Group](#)/[Macmillan](#)

Implementering:

- Team fra Figshare
- Basecamp
- Md. Zoom møder



DTU Figshare sandbox - for testing only. This is NOT the production environment



Discover research from
Technical University of Denmark - Test Environment ▾



+ Follow

NEW

POPULAR

CATEGORIES

SEARCH 



CODE



CODE



PROJECT



METADATA RECORD

This small MATLAB code has been used to generate the plots in the W...
Georg Pirrung 22/08/2018

Aerodynamics code used in Wind Energy Science paper "Compariso...
Georg Pirrung 22/08/2018

Project: Group project - part of a collection
Søren Hovmand 21/08/2018

Test of project within a collection
Søren Hovmand 21/08/2018



METADATA RECORD



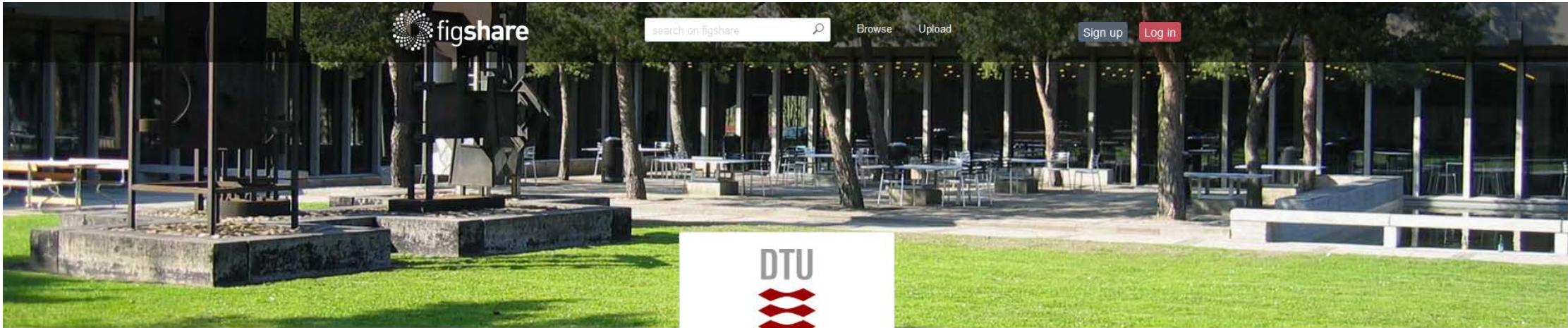
METADATA RECORD



DATASET



DATASET





My data

search on figshare

Browse Upload

Katrine Admin...



My data

search on figshare

Browse Upload

Katrine Admin...



My data

search on figshare

Browse Upload

Katrine Admin...

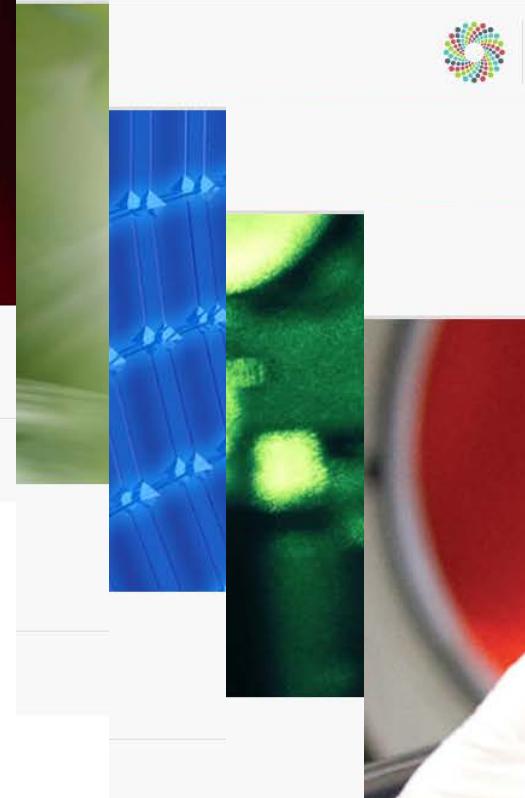


My data

search on figshare

Browse Upload

Katrine Admin...



Discover research from DTU Nanotech



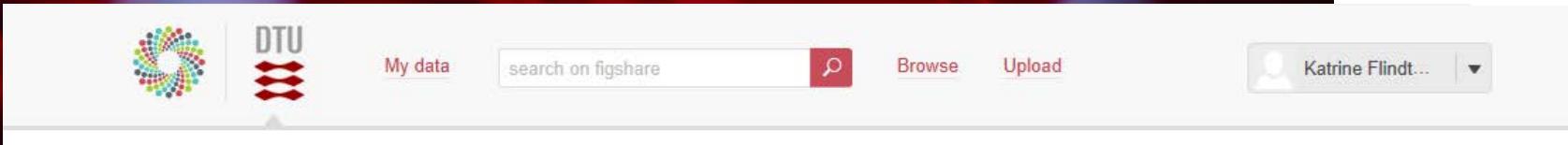
+ Follow

NEW

POPULAR

CATEGORIES

SEARCH 



My data

Browse Upload Katrine Flindt... ▾

 My data

 Projects

 Collections

 Activity

Drag files to upload
You can add keywords and other details later

HVAD KAN DTU DATA



+ Create a new item



0 kB 953.67 MB

search my data...



Actions ▾

STATUS ▾

TYPE ▾

CREATED ▾

SIZE

Untitled Item



27.6.2018
14:06

0 kB

15. november 2018

UPLOAD ET DATASET

to upload, drag file(s) on the page or [browse](#)

Metadata record only [Link file](#)

needed to publish & get DOI

Title
Untitled Item

Authors
Paula (User) Martinez Lavanchy 
Search co-authors by name, full email or ORCID. Hit enter after each.

Categories
Select categories

Item type (what's this?)
Dataset

Keyword(s)
Add keywords for easy discovery. Hit enter after each

Description
Describe your data as well as you can

References
Link to references or related content

Tips

- Use this form to edit all information related to your data. Please be as descriptive as possible. The file upload is independent from the rest of the form, so you don't need to save an upload. This message will be replaced with helpful tips and suggestions as you begin interacting with the form.

Preview item (private)
Last edited on 15 Aug 2018 - 12:10

SIZE
0 kB
0 kB

References
Link to references or related content

Funding
Add grant number or funding authority

Licence (what's this?)
CC BY

This item is a draft (metadata required for publication missing)

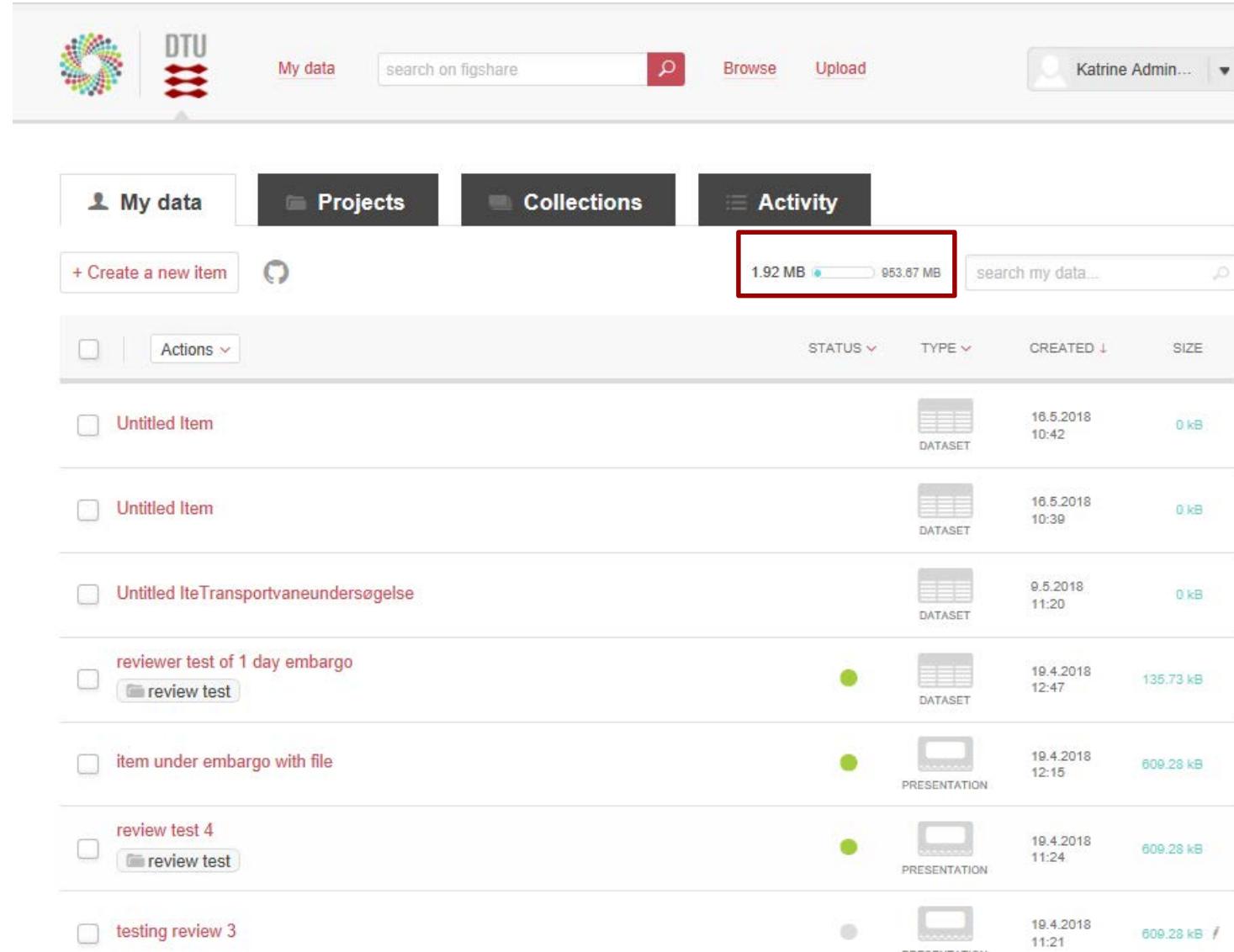
Apply embargo
 Make file(s) confidential
 Generate private link

DOI Reserve Digital Object Identifier

[Delete item](#)

[Cancel](#) [DOI](#) [!\[\]\(c57b5aba03bcbfd34c74be97a3eb85ed_img.jpg\)](#) [!\[\]\(c22b9cc9139b765d17d2f169478cc5d5_img.jpg\)](#) Publish **Save changes**

STORAGE MANAGEMENT



The screenshot shows the Storage Management interface. At the top, there is a header with the DTU logo, search bar, and user profile. Below the header, there are tabs for My data, Projects, Collections, and Activity. The Activity tab is selected. A red box highlights the storage usage information: "1.92 MB" used out of "953.67 MB". Below this, a table lists various items with columns for Actions, Status, Type, Created, and Size.

	Actions	Status	Type	Created	Size
<input type="checkbox"/>	<input type="checkbox"/> Untitled Item		DATASET	16.5.2018 10:42	0 kB
<input type="checkbox"/>	<input type="checkbox"/> Untitled Item		DATASET	16.5.2018 10:39	0 kB
<input type="checkbox"/>	<input type="checkbox"/> Untitled Item Transportvaneundersøgelse		DATASET	9.5.2018 11:20	0 kB
<input type="checkbox"/>	<input type="checkbox"/> reviewer test of 1 day embargo <input type="checkbox"/> review test	●	DATASET	19.4.2018 12:47	135.73 kB
<input type="checkbox"/>	<input type="checkbox"/> item under embargo with file	●	PRESENTATION	19.4.2018 12:15	609.28 kB
<input type="checkbox"/>	<input type="checkbox"/> review test 4 <input type="checkbox"/> review test	●	PRESENTATION	19.4.2018 11:24	609.28 kB
<input type="checkbox"/>	<input type="checkbox"/> testing review 3	●	PRESENTATION	19.4.2018 11:21	609.28 kB

Modify storage

Current quota is 953.67 MB

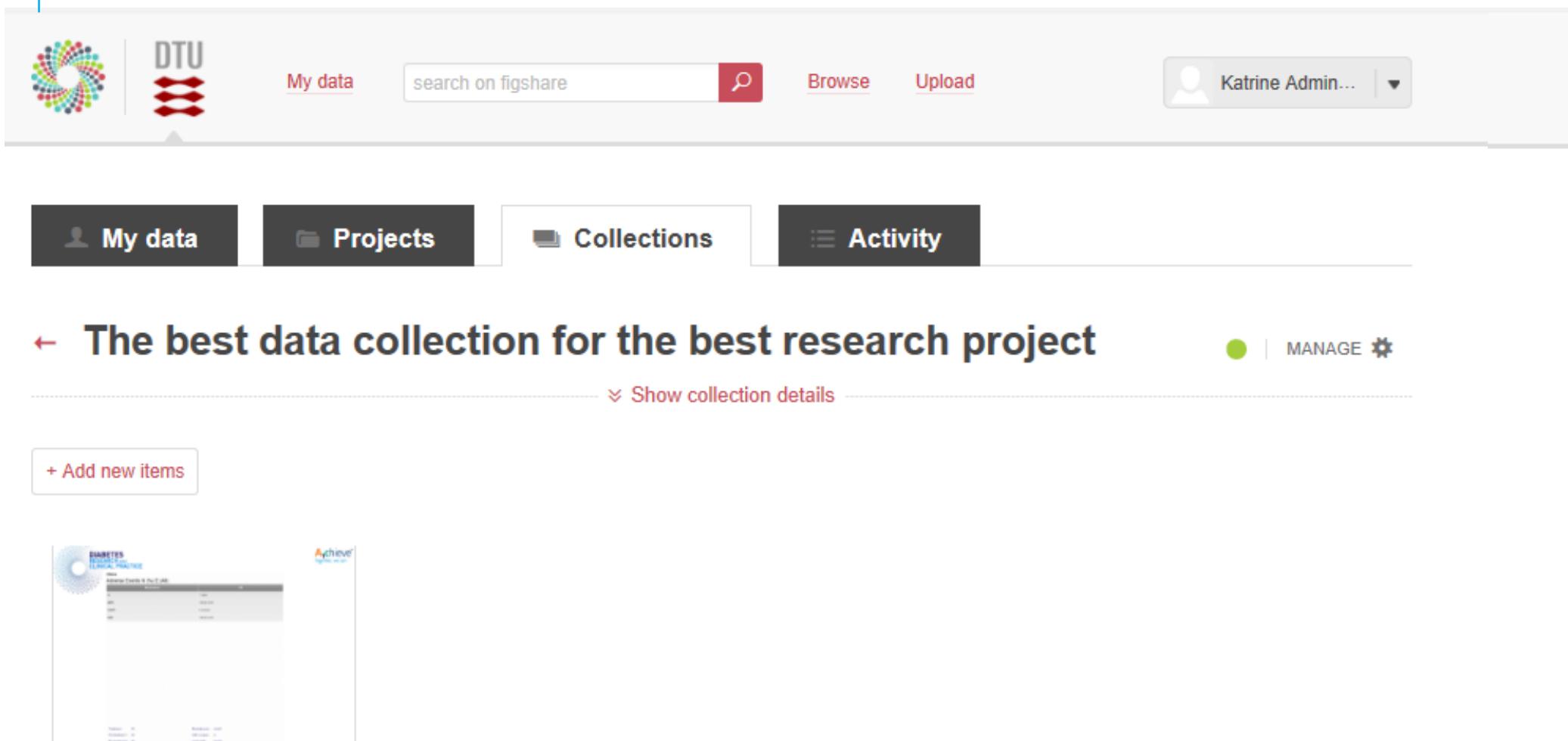
New quota:

add your reason and comments here (optional)

[Cancel](#)

[Submit](#)

SAMARBEJDE OG DELING



The screenshot shows the figshare user interface. At the top, there are navigation links for 'My data', 'Projects', 'Collections', and 'Activity'. The 'Activity' tab is currently selected. Below this, a collection is displayed with the title 'The best data collection for the best research project'. A green circular icon indicates the collection is public, and a 'MANAGE' button with a gear icon is shown to its right. A red link labeled 'Show collection details' is also present. On the left, a red button says '+ Add new items'. At the bottom left, there is a preview of a document titled 'review test 4' which contains a table with data from 'American Diabetes Association' and 'Archived'.

review test 4

Katrine Admin Holmstrand v

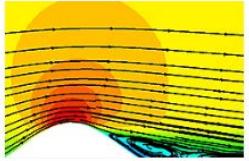
24/04/2018

DATA I DTU DATA

 figshare

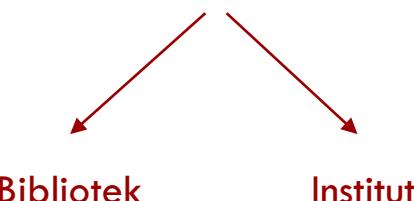
search on figshare  Browse Upload Sign up Log in

 ARCHIVE

structures_scripts.zip (35.9 MB)  WaAVWOT.jpg (209.38 kB)  NEB_MgO-100-1... .png (30.61 kB) 

Cite  Download all (35.93 MB) Share Embed + Collect (you need to log in first)  3 files 

Kuratering ved publikation



Cite  Download all (35.93 MB) Share Embed + Collect (you need to log in first)  3 files 

Supporting data - Effects of the cooperative interaction on the diffusion of hydrogen on MgO(100)

Fileset posted on 01.08.2018, 11:36 by Ivano Eligio Castelli, Stefan Gabriel Soriga, Isabela Costinela Man

This dataset is the supporting data for the manuscript "Effects of the cooperative interaction on the diffusion of hydrogen on MgO(100)", I.E. Castelli, Stefan G. Soriga, Isabela C. Man, J. Chem. Phys. 49, 034704 (2018). In the manuscript, we have investigated the role of pre-adsorbed fragments on H diffusion on MgO(100).

The data set contains all the relaxed structures and Nudged Elastic Bands (NEB) calculations in xyz and traj (Atomic Simulation Environment - ASE) format. Each structure can be visualized with the command:
`ase gui filename.traj (or .xyz)`

The NEB calculations with:
`ase gui -n -1 *initial.traj *im?traj *final.traj`

and then select NEB from Tools. An example of the plot of a NEB calculation is the figure included here.

The scripts used to run and analyze the calculations are included in the archive.

A README file with more information about the data set and links have been provided.

The ASE code can be found here: <https://wiki.fysik.dtu.dk/ase/>

REFERENCES

- <https://wiki.fysik.dtu.dk/ase/>

RELATED PUBLICATION REFERENCES

- <http://doi.org/10.1063/1.5029329>

[Log in](#) to write your comment here...

663 views 75 downloads 1 citations 

CATEGORIES

- Catalysis and Mechanisms of Reactions

KEYWORD(S)

- DFT Calculations
- Catalysis on Semiconductors
- Cooperative Interactions
- Hydrogen Diffusion
- Nudged Elastic Bands

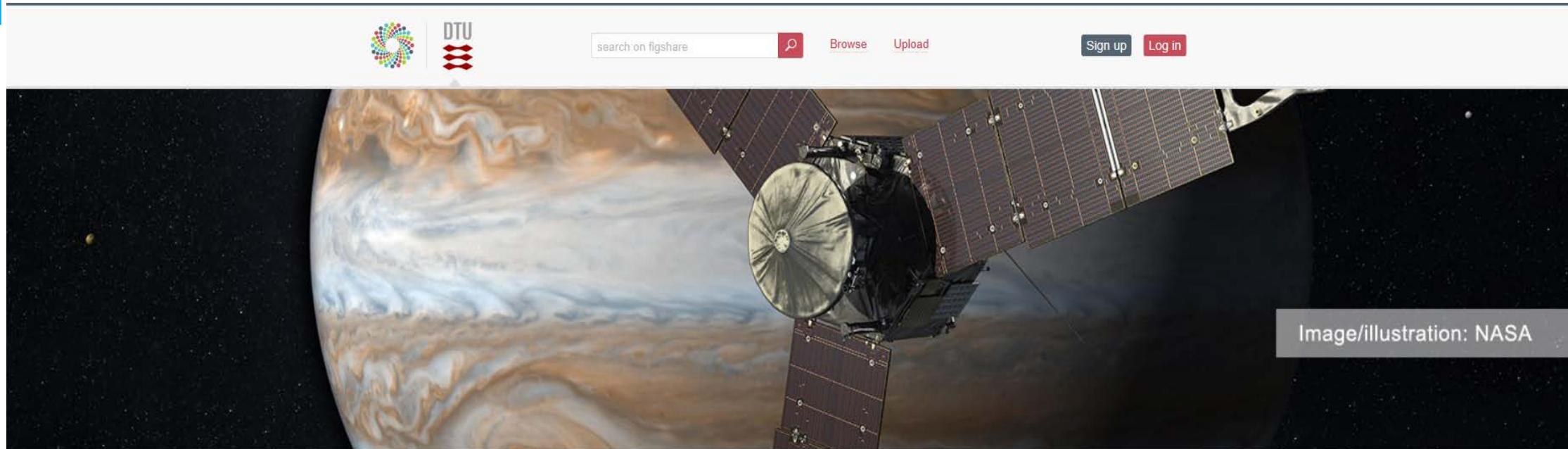
LICENCE

 CC BY 4.0

EXPORT

- RefWorks
- BibTeX
- Ref. manager
- Mendeley
- Endnote
- DataCite
- NLM
- DC

PILOTER - HVORDAN



Discover research from **DTU Space**



+ Follow

NEW

POPULAR

CATEGORIES

SEARCH 

4 institutter.. 4 behov og 1000 ønsker



DATASET



FILESET

Geomagnetic data - ASCII

FHB_20160601.cdf

Præsentationer, møder, ambassadører

Klistret op på politikimplementering

Transparent samarbejde



BROWSE PAGE



DTUfigshare



figshare pilot - DTU Fotonik

[Home](#)[figshare pilot - DTU Space](#)**figshare pilot - DTU Fotonik**[figshare pilot - DTU Compute](#)[figshare pilot - DTU Wind](#)[figshare pilot - DTU Library](#)[Notebook](#)[Documents](#)[Invite Users](#)[Site Contents](#)

Example Dataset and webpage from Søren Forchhammer's group

The links are the following:

<http://resources.mpi-inf.mpg.de/LightFieldVideo/Dataset.html>
<https://www.iis.fraunhofer.de/en/ff/amm/dl/lightfielddataset.html>

The first link contains all meta data. In addition, the licenses are directly included.

The same hold for the second link. The references are in @InProceedings{Ziegler2017,
 Title = {Acquisition system for light field video},
 Author = {Ziegler, Matthias},
 Booktitle = {3DTV-CON 2017},
 Year = {2017}},

meeting notes 28.06.2018 (Lars, Søren)

Metadata & Keywords

- Photonics does not need custom
- Department section should not be
- The pilot phase with Photonics should

Lars data set

- Lars is ready to upload a small dataset
- Paula will send him instructions to do so

Søren dataset

- Søren has an H2020 project RealLight
- Within the project they will develop a dataset
- Question: is there code also part of the dataset?
- 1 Zip file with a collection of pictures
- 1 Zip file contains one folder for each image
- They would initially need 2TB for the dataset
- External partners will need access to the dataset

To do:



DTUfigshare

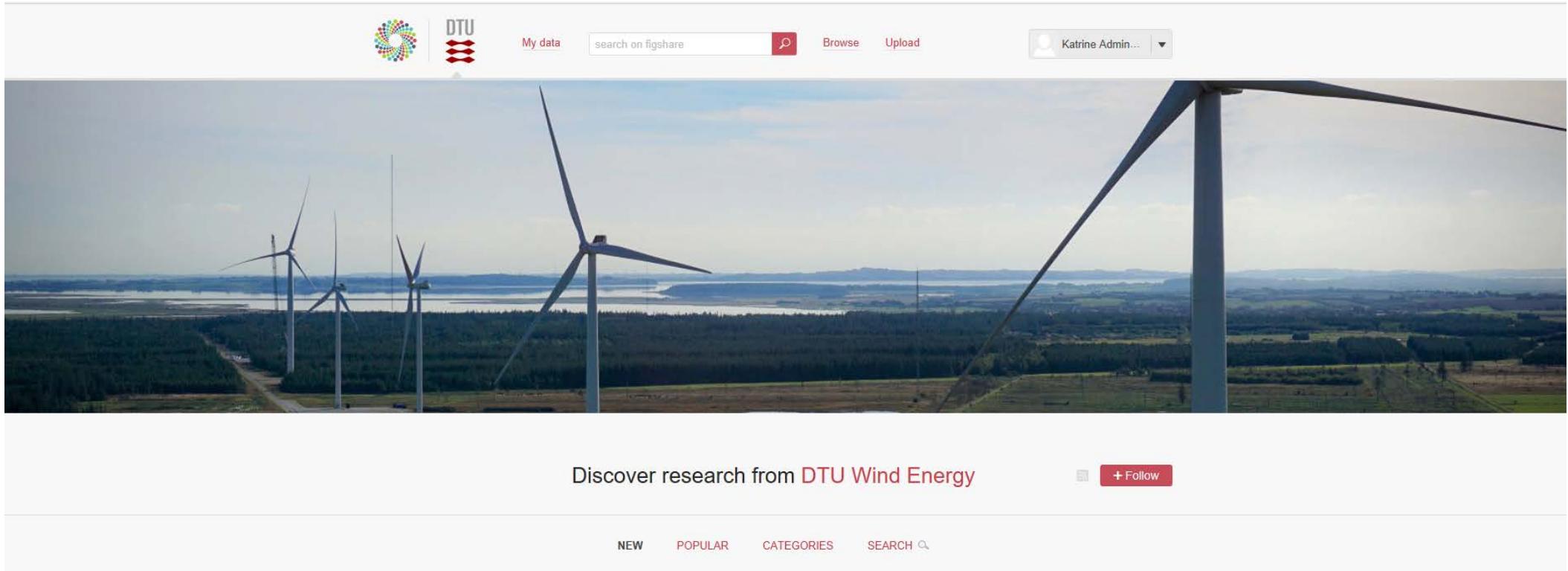


figshare pilot - DTU Compute

meeting notes 29.05.2018 (Tommy, Per, Henning, Falco, Katrine)

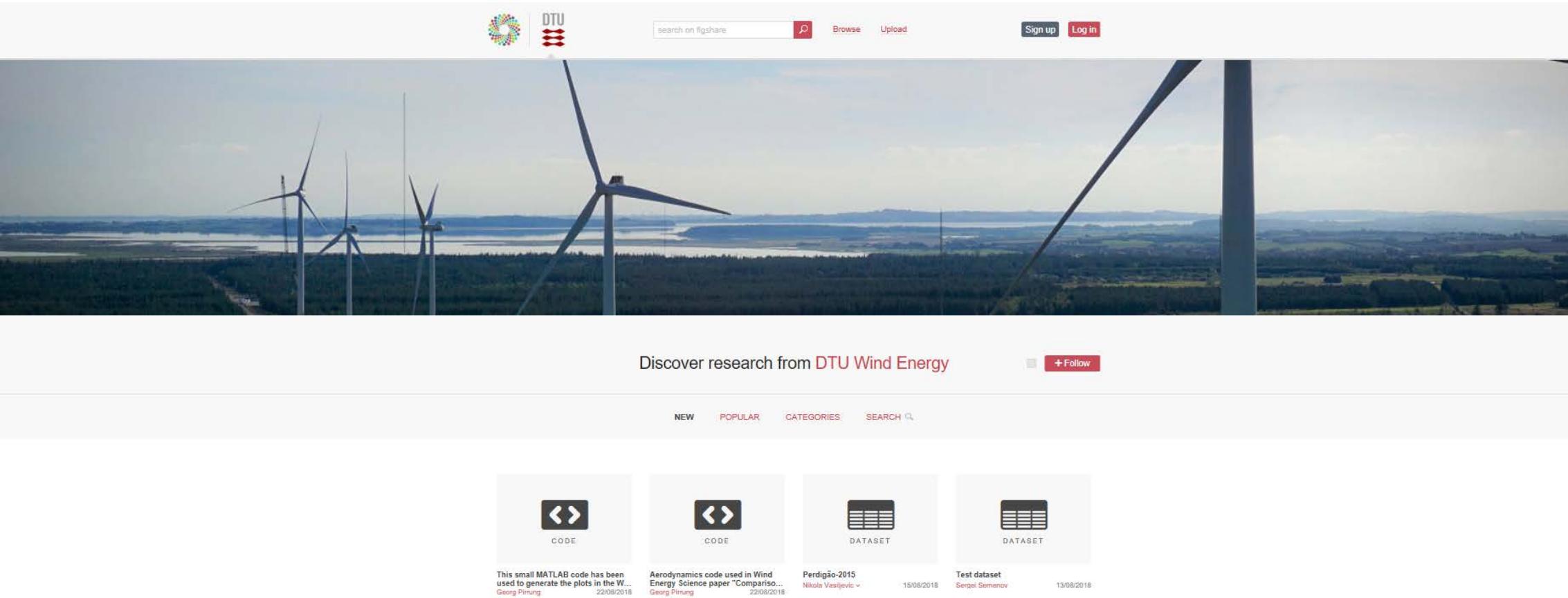
- check access to SharePoint site (**Falco**) - **done**
- adjust notifications upon publishing items (**Falco**)
- test automatic upload of metadata (**Tommy, Per, Henning**)
- revise process of selecting categories - **reported to figshare**
- discuss usefulness of categories - **reported to figshare**
- simplify download of most common citation styles - **this is already available on the right-hand side for each publication**
- test upload of complete folders (**Tommy, Per, Henning**)
- test upload of zipped folders (**Tommy, Per, Henning**)
- show affiliations for all authors of an item - **reported to figshare**
- investigate possibility for multiple project owners - **not possible**
- easier navigation - **reported to figshare**
- set "uncategorised" as category default - **reported to figshare**
- display top level categories - **reported to figshare**
- revise list of data types - **reported to figshare**
- retraction of published files - **only possible for system administrators**
- publication of erratum (**Falco**)
- pull keywords automatically from description (**Falco**)
- adjust metadata scheme depending on data type (**Falco**)
- text formatting in description field (**Falco**)

DTU DATA ET OPDATERET FAIR VÆRKTØJ



The screenshot shows a research profile for DTU Wind Energy on the figshare platform. At the top, there are navigation links for 'My data' (highlighted in red), 'search on figshare' (with a magnifying glass icon), 'Browse', 'Upload', and a user account dropdown for 'Katrine Admin...'. Below the header is a large image of several wind turbines in a field under a clear sky. Underneath the image, the text 'Discover research from DTU Wind Energy' is displayed, along with a '+ Follow' button. At the bottom of the main content area, there are four categories: 'NEW', 'POPULAR', 'CATEGORIES', and 'SEARCH' with a magnifying glass icon. Below these categories are four thumbnail cards:

- METADATA RECORD**
Steady State Comparisons HAWC2 v12.5 vs HAWCStab2 v2.14
David Robert Verelst 02/11/2018
- METADATA RECORD**
Wind tunnel tests of a three bladed, downwind, free-yawing wind turbin...
David Robert Verelst 02/11/2018
- CODE**
Flow field over a Gaussian hill by RANS simulation
Ju Feng 10/09/2018
- This small MATLAB code has been used to generate the plots in the W...
Georg Pirnig 22/08/2018



- Diskussion af taxonomi for 7 niveauer af metadatafelter
(topic, variables, instruments, models, materials, conditions and activities)
- Inkluderet i projekt om 'FAIR Digitalization WP of Big Data and Digitalization'
- To WS 'data Policies and Guidelines' og 'Data Platform and Rewarding System'
- To sprints arrangeret til diskussion, træning og dataset upload

Categories

Select categories

search categories by keyword(s) ...

- Chemistry
- Commerce, Management, Tourism and Services
- Earth and Environmental Sciences
- Engineering
- Health Sciences
- Humanities
- Information and Computing Sciences

Categories

1 selected

energy

- Renewable Power and Energy Systems
Engineering (excl. Solar Cells)
- High Energy Astrophysics; Cosmic Rays
- Energy Generation, Conversion and Storage
Engineering
- Power and Energy Systems Engineering (excl.
Renewable Power)

PILOT - DTU VINDENERGI

Formål at publicere data og metadata fra alle sektioner af DTU Vind Energi.

To dedikerede forskere driver projektet 'FAIR Digitalization WP of Big Data and Digitalization CCA'

DTU Data enables the publication of FAIR datasets by:

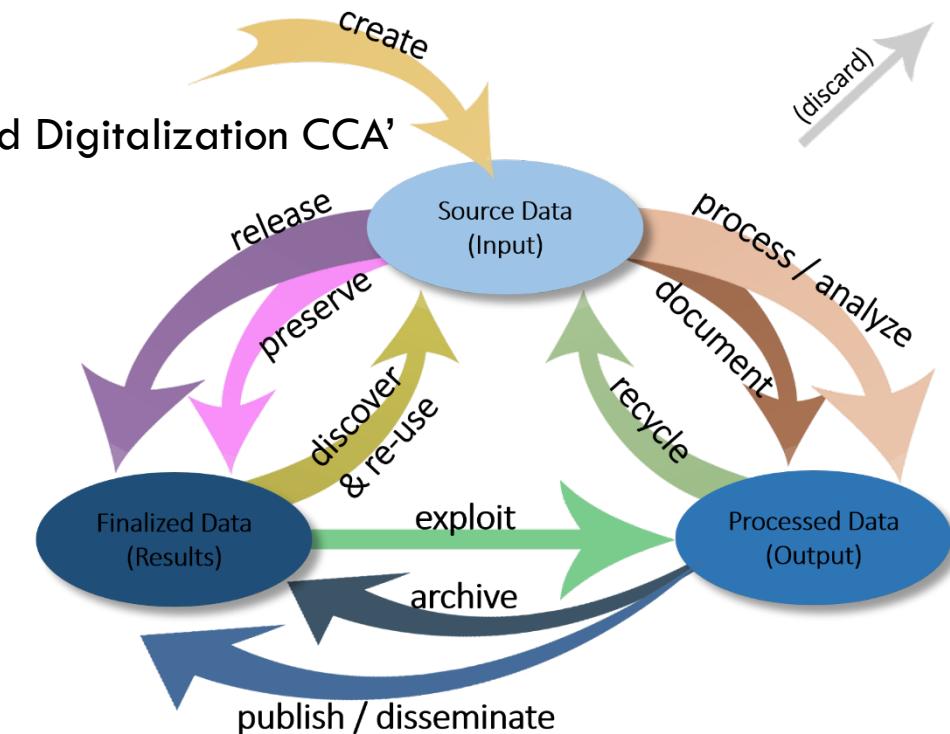
- providing persistent identifiers (DataCite DOI's)
- providing standard usage licenses (Creative Commons)
- exposing machine-readable metadata
- providing open access to metadata (and data)

En ny taxonomi for DTU Vind energis metadata blev udviklet og implementeret

i DTU Data.

OG:

- Test af tidsskrift review og dedikeret link
- Test af reservation af DOI
- Test af datavisualisering, quota, og ekstern adgang til dataset



FEATURES

- Simple user interface
- Collaborative workspaces
- Standard metadata og licenser
- DOI assignment
- Private links
- Metadata records
- Embargo perioder
- Restricted access
- WAYF login
- GitHub integration
- Open API

figshare is a repository where users can make all of their research outputs available in a **citable**, **shareable** and **discoverable** manner

FIGSHARE PROVED TO BE A GOOD IDEA. SINCE 2012 WE HAVE OFFERED...

26 million +

page views

7.5 million +

downloads

800,000 +

user uploads

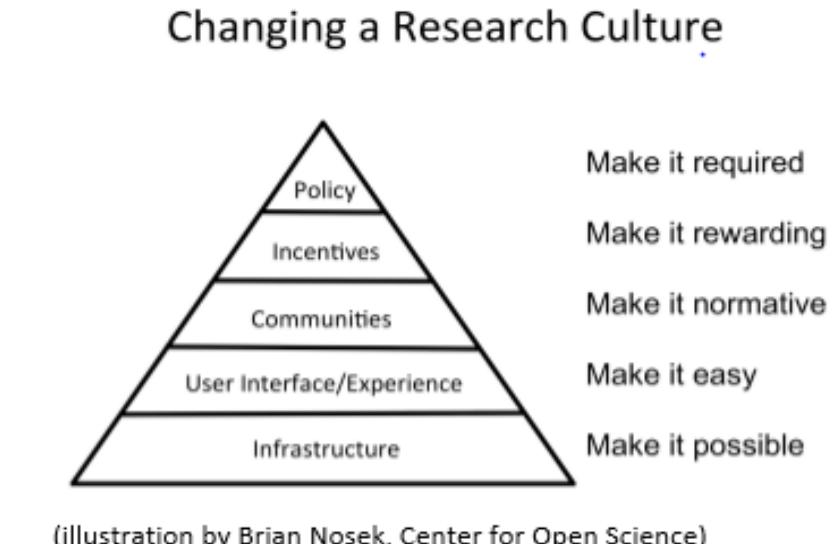
2 million +
articles

500,000 +
collections

5,000 +
projects

DTU BIBLIOTEK ØNSKER

- At være the one-stop-shop for RDM
- At inspirere til RDM drevet af forskerne
 - Motivation
- Understøttet af kompetencer, værktøjer og nærvær
- Bevidst motivation .. Rewards?
- Nemt & overskuelig prismodel
- Skabe FAIR Forskningsdata
- Så lækkert som muligt, så sikkert som muligt og så flytbart som muligt. **Og åbent**



SPØRGSMÅL ?

