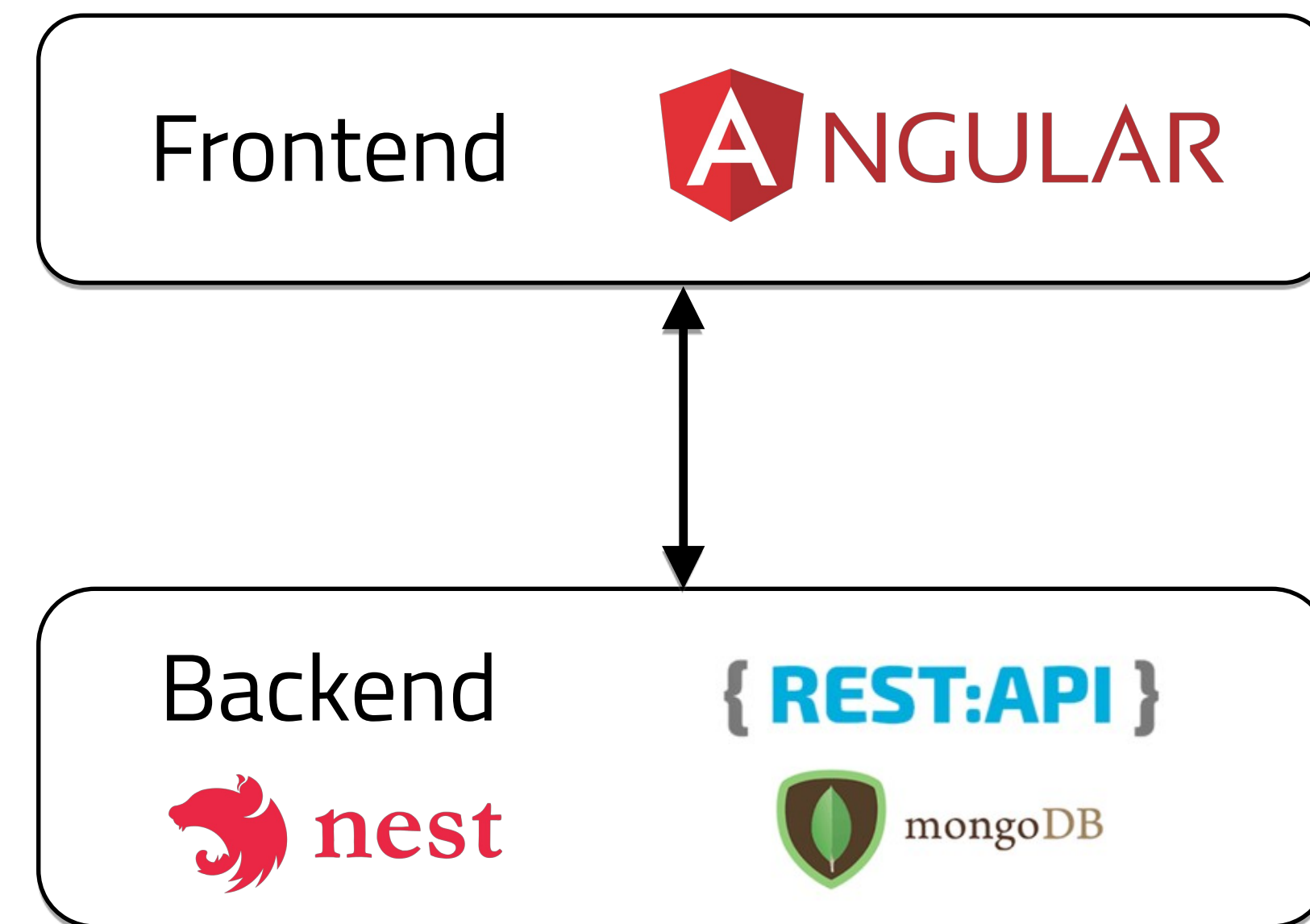
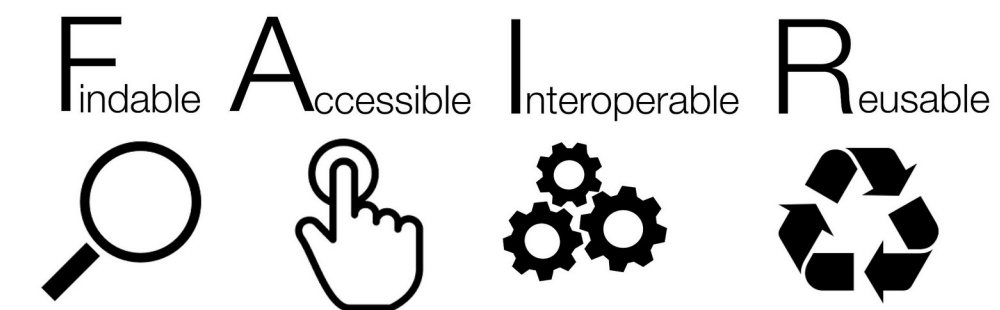
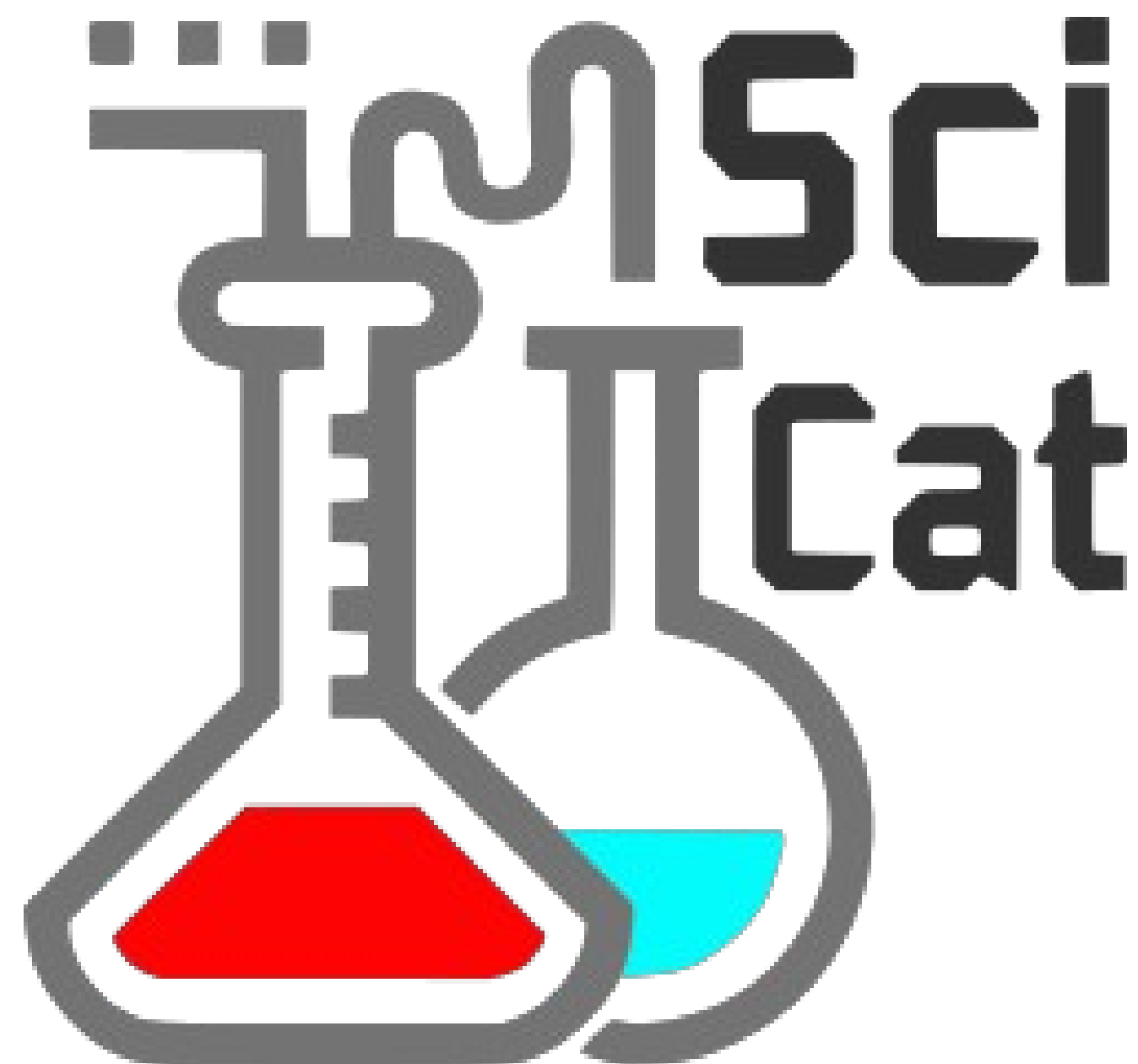


Metadata at ESS and the Scitacean project

By Max Novelli
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European Spallation Source, DMSC
Copenhagen, Denmark

SciCat Scientific data Catalogue



Website: <https://scicatproject.github.io/>
Repositories:
• Frontend: <https://github.com/SciCatProject/frontend>
• Backend: <https://github.com/SciCatProject/scicat-backend-next>

Datasets



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Search

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Keywords

Start Date – End Date



+ Add Condition

+ Create Dataset

My Data










All Public Data

Add to Cart

Items per page: 25

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<input type="checkbox"/>	 Pid	 Name	 Run No.	 Size	 Start Time	 Type	 Image	 Proposal ID
<input type="checkbox"/>	20.500.12269/bf62d3ad-3ecc-44d8-8a58-596b9f63d39f	SFI generator dataset with job id 264dbf5c-91bd-4093-ab90-06e41163f7e5		12 KB	2023-05-11 Thu 17:35	raw		665386
<input type="checkbox"/>	20.500.12269/0e09991a-affd-400d-ac7a-680aa61b9a4c	SFI generator dataset with job id e97e1b76-f791-4e95-b8b9-ed55ab6f1997		12 KB	2023-05-11 Thu 17:33	raw		665386
<input type="checkbox"/>	20.500.12269/f4f06422-7034-4cec-8ca8-58bec3420c4b	SFI generator dataset with job id deafc4d5-7bcf-4418-b8a1-088e296d5be3		12 KB	2023-05-11 Thu 17:24	raw		665386
<input type="checkbox"/>	20.500.12269/8f02b536-628d-4ee6-b69a-897921337076	SFI generator dataset with job id deafc4d5-7bcf-4418-b8a1-088e296d5be3		0 B	2023-05-11 Thu 17:23	raw		665386
<input type="checkbox"/>	20.500.12269/925cd26d-cce2-42ef-9065-4d367ffab5a7	SFI generator dataset with job id 60a2fd9f-e7b3-4e3e-9ef5-6642142a4c25		12 KB	2023-05-11 Thu 17:17	raw		665386
<input type="checkbox"/>	20.500.12269/d2e5af8d-66d5-4110-9d62-6c645864fddf	SFI generator dataset with job id 60a2fd9f-e7b3-4e3e-9ef5-6642142a4c25		0 B	2023-05-11 Thu 17:14	raw		665386
<input type="checkbox"/>	20.500.12269/1e1e76f7-bc52-441f-9a00-2db6924f88bd	SFI generator dataset with job id 60a2fd9f-e7b3-4e3e-9ef5-6642142a4c25		0 B	2023-05-11 Thu 17:11	raw		665386
<input type="checkbox"/>	20.500.12269/631b347c-f5ac-4508-afb9-47e5457d0d88	SFI generator dataset with job id 60a2fd9f-e7b3-4e3e-9ef5-6642142a4c25		0 B	2023-05-11 Thu 17:08	raw		665386
<input type="checkbox"/>	20.500.12269/66be6dc5-ed72-4267-8600-421c3dd9b560	SFI generator dataset with job id 60a2fd9f-e7b3-4e3e-9ef5-6642142a4c25		0 B	2023-05-11 Thu 17:05	raw		665386
	20.500.12269/46f447e4-13b1-4ed1-b7a5-e94cf dab3e8f	SFI generator dataset with job id 01063176-3e65-41db-95ca-1d8bec75cedd		0 B	2023-05-01 Mon 14:48	raw		202367
<input type="checkbox"/>	20.500.12269/7ccde2d4-b1b9-4248-a5c8-40db2fd352e5	SFI generator dataset with job id ad3a3eff-597f-4096-bdd9-1843f0a99620		0 B	2023-05-01 Mon 14:34	raw		202367
<input type="checkbox"/>	20.500.12269/cc7928ef-5ebd-456e-8939-0aefb4e05532	SFI generator dataset with job id 7ecf37c3-5e23-4d5a-b4af-deed649f0ece		0 B	2023-04-14 Fri 13:50	raw		665386
<input type="checkbox"/>	20.500.12269/fdd888fe-1d77-4bae-b9b9-			0 B	2023-04-14	dataset		

Datasets / 20.500.12269/bb27160d-4ca3-42e3-a90b-2580ad252d6d /	
Details	Datafiles
Related Datasets	Logbook
	Attachments
General Information	
Name	hey Max, here is dataset 2
Description	Dataset: 05f508d4-78c3-48d0-8b72-c50bdabd2c64. Proposal: 783429. Sample: ymir. Instrument: unk /raw/783429_00010877.hdf
PID	20.500.12269/bb27160d-4ca3-42e3-a90b-2580ad252d6d
Type	raw
Creation Time	2023-06-20 11:01
Keywords	
Creator Information	
Owner	Anders Pettersson
Principal Investigator	Anders Pettersson
Contact Email	anders.petterson@ess.eu
Owner Group	783429
Access Groups	swap,ess,ymir,ecdc
File Information	
Source Folder	/ess/data/ymir/2023/783429/raw
Size	652 KB
Related Documents	
Proposal	Towards My Nobel prize
Instrument	ymir (Unique Name: ymir 405c64077501)
Creation Location	ymir
Input Datasets	

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 ingestor

Datasets /
20.500.12269/eb83ef83-28a6-4144-9fa7-5613e067e799 /

Details
Datafiles
Related Datasets
Logbook
Attachments
Lifecycle
Admin

General Information

Name	CAMEA 10 consistency 2 Vdiv 4 PMESKSE 4Vdiv run1
Description	CAMEA 10 consistency 2 Vdiv 4 PMESKSE 4Vdiv run1 20220822131402
PID	20.500.12269/eb83ef83-28a6-4144-9fa7-5613e067e799
Type	raw
Creation Time	2022-08-22 13:14
Keywords	Simulation Monte Carlo ray tracing Swarm optimization SLURM iFit McStas neutron guide CAMEA BiFROST CAMEA 10 2022-08-22 CAMEA 10 Consistency CAMEA 10 Consistency 2

Edit

Creator Information

Owner	Massimiliano Novelli
Principal Investigator	Mads Bertelsen
Contact Email	mads.bertelsen@ess.eu
Owner Group	ess
Access Groups	dmsc

File Information



Source Folder	/mnt/groupdata/guide_optimizations/McStas_Bot/CAMEA/CAMEA10-consistency-2
Size	143 MB

Related Documents

Creation Location	DMSC
Techniques	Simulation
Input Datasets	

Dataset metadata







Scientific Metadata

View

Edit

Name	Value
Extra Entry Instrument Lakeshore Setpoint Ch 1 Average Value	0
Extra Entry Instrument Lakeshore Setpoint Ch 1 Maximum Value	0
Extra Entry Instrument Lakeshore Setpoint Ch 1 Minimum Value	0
Extra Entry Instrument Lakeshore Setpoint Ch 2 Average Value	0
Extra Entry Instrument Lakeshore Setpoint Ch 2 Maximum Value	0
Extra Entry Instrument Lakeshore Setpoint Ch 2 Minimum Value	0
Extra Entry Instrument Lakeshore Temperatur Sensor 1 Average Value	0
Extra Entry Instrument Lakeshore Temperatur Sensor 1 Maximum Value	0
Extra Entry Instrument Lakeshore Temperatur Sensor 1 Minimum Value	0
Extra Entry Instrument Lakeshore Temperature Sensor 2 Average Value	0
Extra Entry Instrument Lakeshore Temperature Sensor 2 Maximum Value	0
Extra Entry Instrument Lakeshore Temperature Sensor 2 Minimum Value	0
Extra Entry Instrument Laser Aperature loc Timestamps X Average Value	0
Extra Entry Instrument Laser Aperature loc Timestamps X Maximum Value	0
Extra Entry Instrument Laser Aperature loc Timestamps X Minimum Value	0
Extra Entry Instrument Laser Aperature loc Timestamps Y Average Value	0
Extra Entry Instrument Laser Aperature loc Timestamps Y Maximum Value	0
Extra Entry Instrument Laser Aperature loc Timestamps Y Minimum Value	0
Extra Entry Instrument Laser Aperature loc Timestamps Z Average Value	0
Extra Entry Instrument Laser Aperature loc Timestamps Z Maximum Value	0



Scientific Metadata

View

Edit

Name	Value	Unit
Sample Width	0.015	m
Sample Height	0.015	m
Divergence Requirement Horizontal	0.75	deg
Divergence Requirement Vertical	1	deg
Guide Sample Distance	0.6	m
Lower Wavelength Limit	1	Å
Upper Wavelength Limit	3.6	Å
Moderator Width	0.12	m
Moderator Height	0.12	m
Moderator Sample Distance	156	m
Parsing Variables	guide_start , smallaxis_x_factor5 , smallaxis_y_factor5 , startx5 , starty5 , startx4 , starty4 , lengthfrac4 , lengthfrac3 , startx2 , starty2 , lengthfrac2 , smallaxis_x_factor1 , -- smallaxis_y_factor1 , startx1 , starty1 , length1	
Parsing Min Guide Start	2.550040777003643	m
Parsing Max Guide Start	2.844325039837541	m
Parsing Mean Guide Start	2.6245959243022767	m
Parsing Std Guide Start	0.05088487909170729	m
Parsing Min Smallaxis X Factor5	1.0188421521913644	--
Parsing Max Smallaxis X Factor5	2.9988122398158086	--
Parsing Mean Smallaxis X Factor5	2.4428406806571323	--
Parsing Std Smallaxis X Factor5	0.29790011478167094	--
Parsing Min Smallaxis Y Factor5	1.010396696096761	--

How to foster data usage, data enrichment and empower users to own the process?

Lower the entry barrier

Data catalogue:
Usability

Develop effective
tools and libraries to
easily access the data

SciCat to Python and back



PySciCat: lower level python bindings to SciCat endpoints

Repository: <https://github.com/SciCatProject/pyscicat>

Scitacean: higher level user friendly interface to SciCat

Repository: <https://github.com/SciCatProject/scitacean> - Documentation: <https://scicatproject.github.io/scitacean>

SciCat

ESS

Datasets / 20.500.12269/bb27160d-4ca3-42e3-a90b-2580ad252d6d /

Details

Datafiles

Related Datasets

Logbook

Attachments

Lifecycle

Admin

General Information

Name

hey Max, here is dataset 2

Description

Dataset: 05f508d4-78c3-48d0-8b72-c50bdabd2c64, Proposal: 783429, Sample: ymir, Instrument: unknown, File: /ess/data/ymir/2023/783429/raw/783429_00010877.hdf

PID

20.500.12269/bb27160d-4ca3-42e3-a90b-2580ad252d6d

Type

raw

Creation Time

2023-06-20 11:01

Keywords

swap_experimentalexplicit_hdf_structure

Creator Information

Owner

Anders Pettersson

Principal Investigator

Anders Pettersson

Contact Email

anders.pettersson@ess.eu

Owner Group

783429

Access Groups

swap,ess,ymir,ecdc

File Information

Source Folder

/ess/data/ymir/2023/783429/raw

Size

652 KB

Related Documents

Proposal

[Towards My Nobel prize](#)

Instrument

ymir (Unique Name: ymir 405c64077501)

Creation Location

ymir

Input Datasets

Dataset PID 20.500.12269/bb27160d-4ca3-42e3-a90b-2580ad252d6d

```
client = Client.from_token(
    url=scicat_url,
    token=scicat_token,
    file_transfer=SSHFileTransfer(
        host=ssh_host
    )
)
scicat_dataset = client.get_dataset(pid)
scicat_dataset = client.download_files(scicat_dataset)
```

[5]: RawDataset

Name	Type	Value	Description
* creation_time	datetime	2023-04-05 13:58:37+0000	Time when dataset became fully avail...
* source_folder	RemotePath	/somewhere/on/remote	Absolute file path on file server contai...
description	str	The spellpower of the maiden, mother, and crone.	Free text explanation of the contents o...
name	str	Spellpower of the Three Witches	A name for the dataset.
pid	PID	None	Persistent identifier for datasets.
proposal_id	str	None	Identifier for the proposal that the data...
sample_id	str	None	Identifier for the sample that the datas...

► Advanced fields

► Files: 1 (10 B)

► Scientific Metadata

Thank you

Thank you

Max Novelli

max.novelli@ess.eu