New Workflow for SciCat Data Publication DCS Round 2 Update, July 21st 2025

Nicolas Hayen, Regina Hinzmann, DAPHNE4NFDI



DCS Round 2





Second round of DAPHNE Contributions to SciCat Work by Martin Trajanovski since March 2025

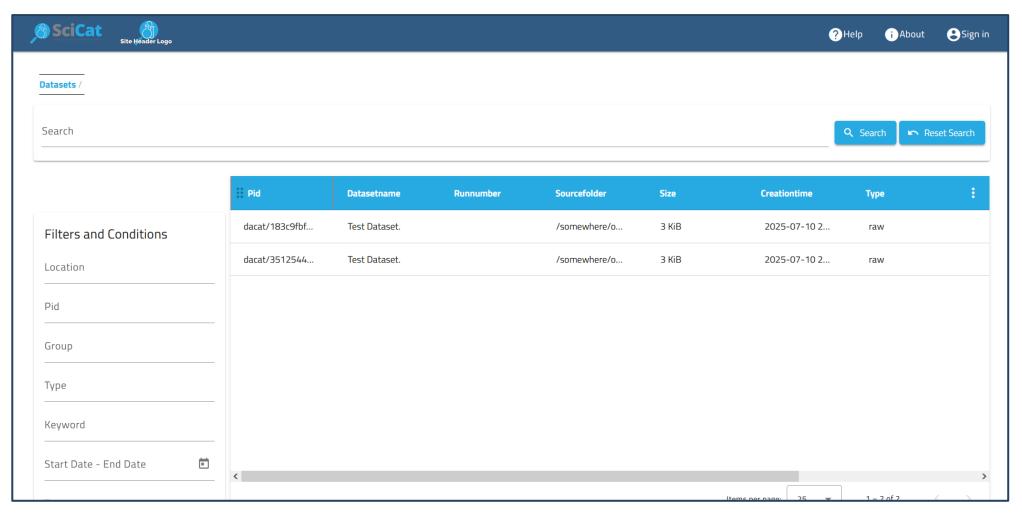
Two major subprojects for this round

- Improvement to Frontend UI and search capabilities
- Rework of data publication and DOI minting workflow



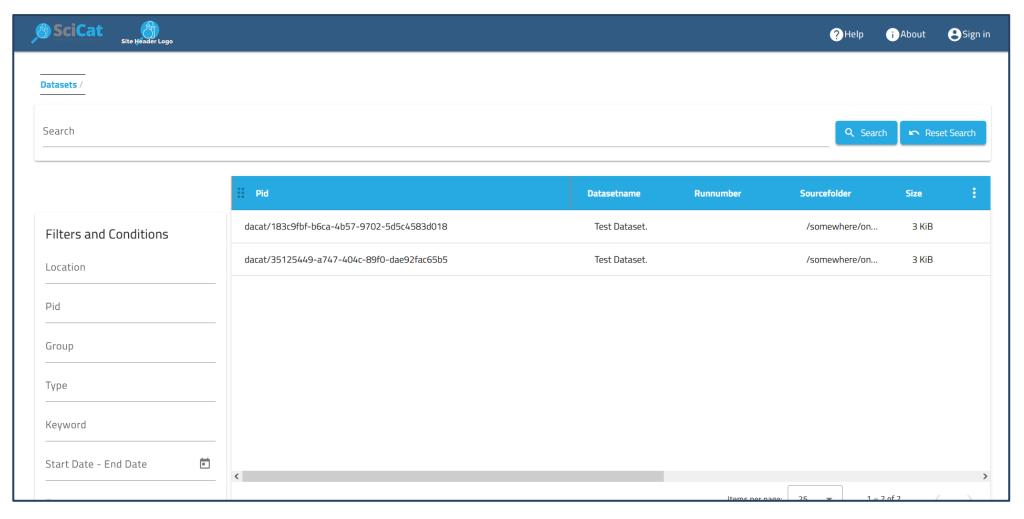






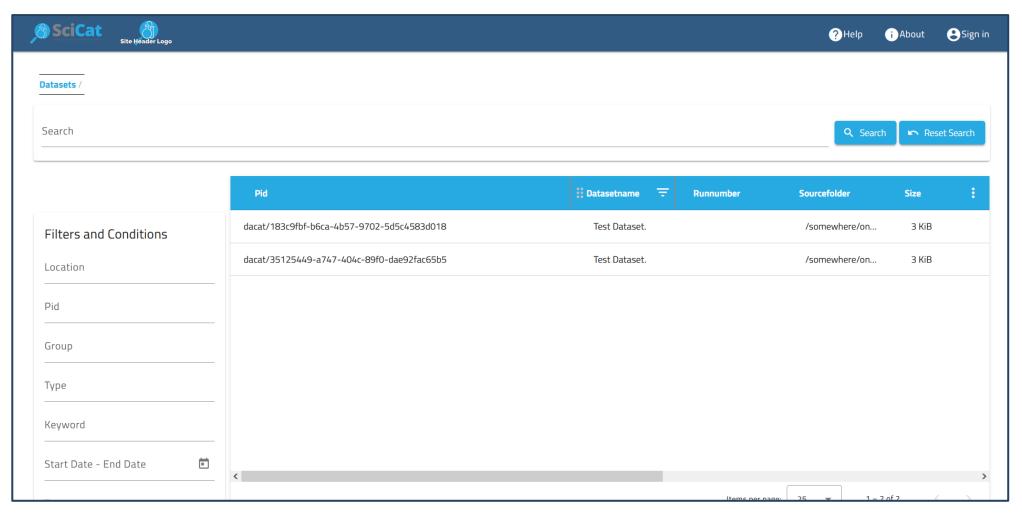






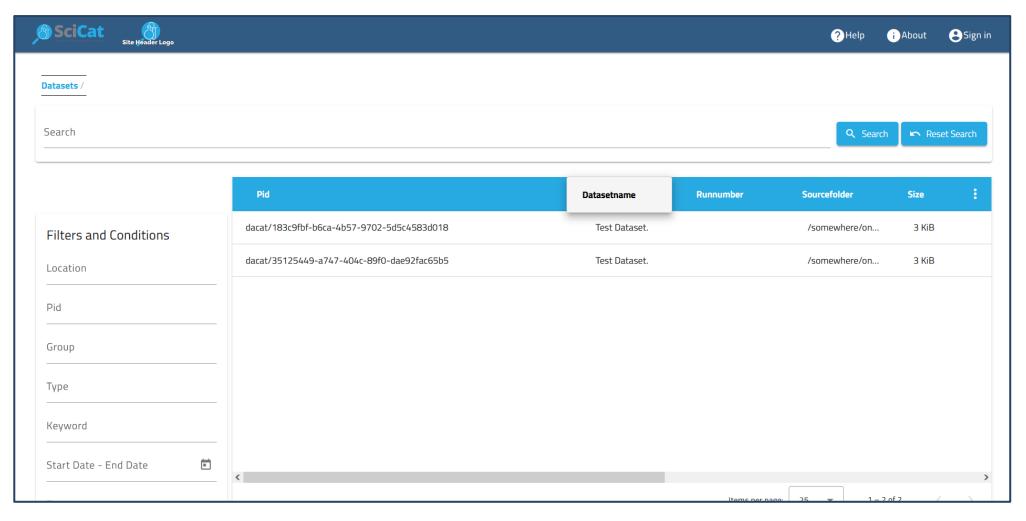






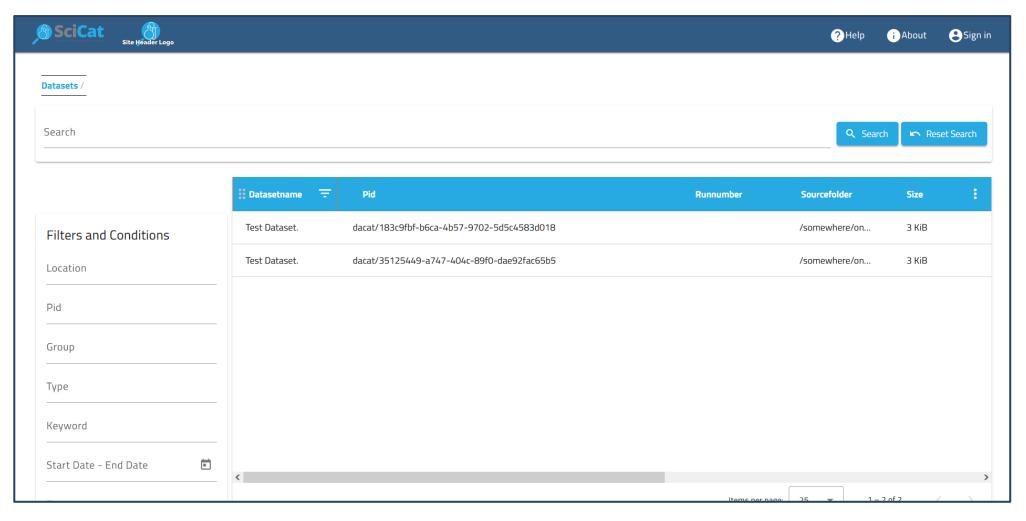
















Improvements to Frontend search filters https://github.com/SciCatProject/frontend/issues/1806

- Streamline adding SM filters
- Add new operators
- Higher responsiveness
- Use Dataset API v4 queries

Filters	
Pid =	
Keyword	
Group	
Location	
Type	
SM Run Number 3000	
r	e Filters
Q Apply	Reset Filters

Filters and Conditions 🏚
Location Filter
Pid Filter
Group Filter
Type Filter
Start Date - End Date
+ Add Metadata Conditions
Q Apply Reset Filters





Reworking the data publication / DOI feature in SciCat

- Replacing the existing system with extended new workflow
- Focus on general applicability and user freindliness

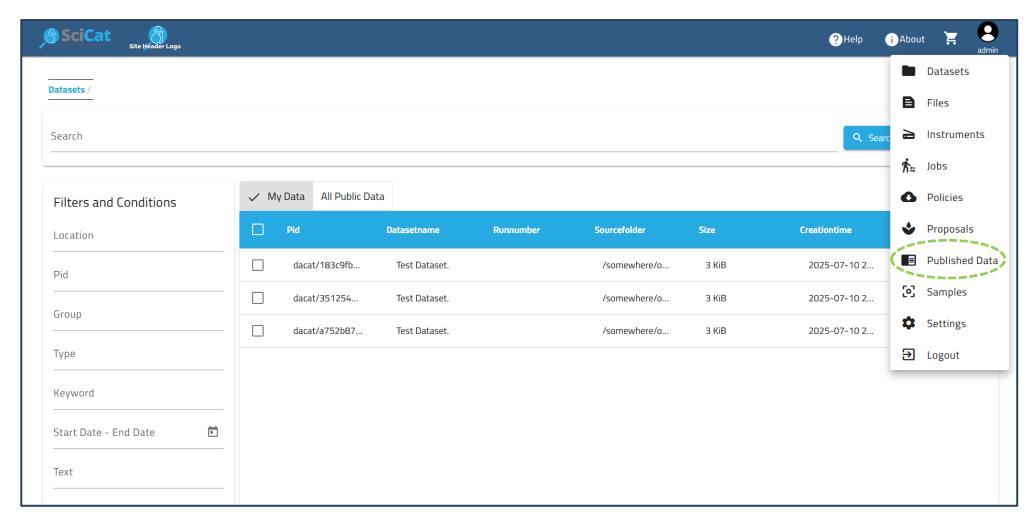








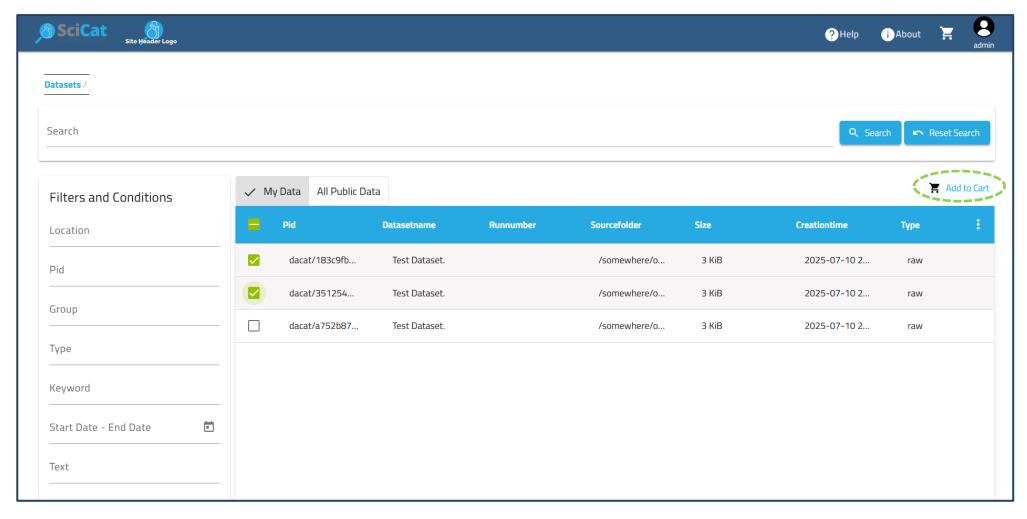
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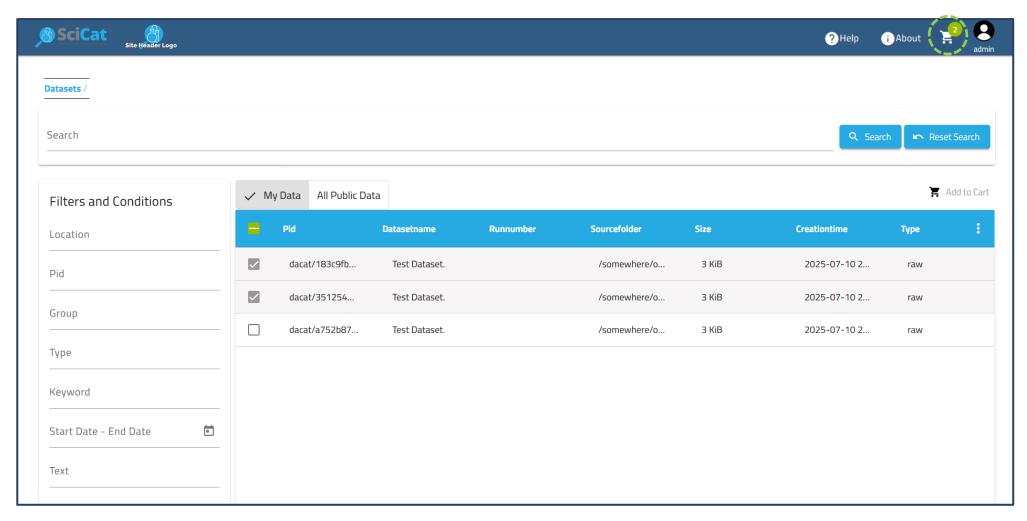
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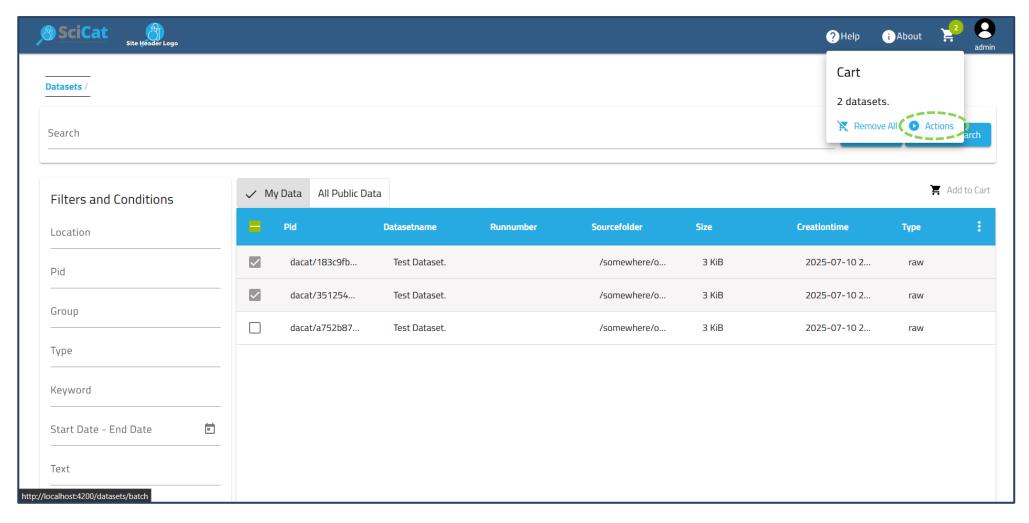


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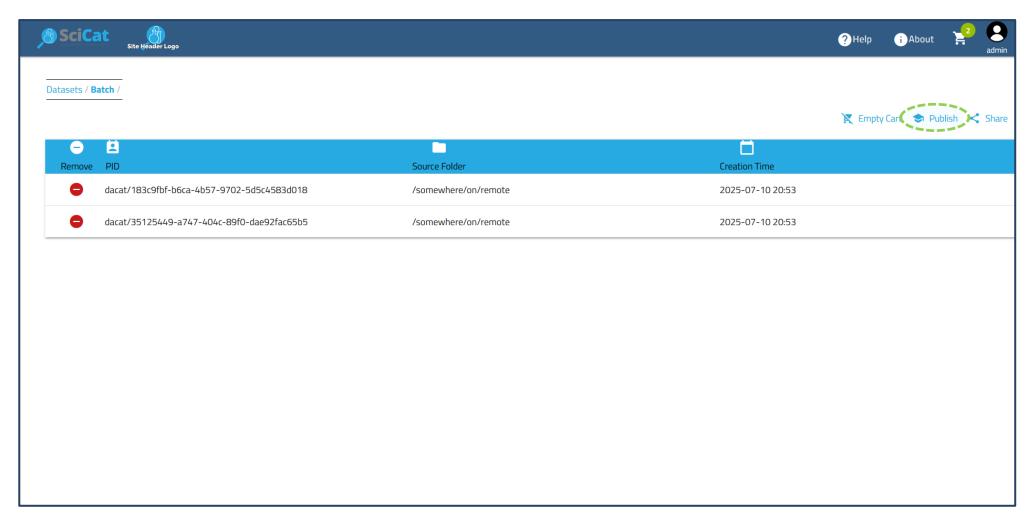












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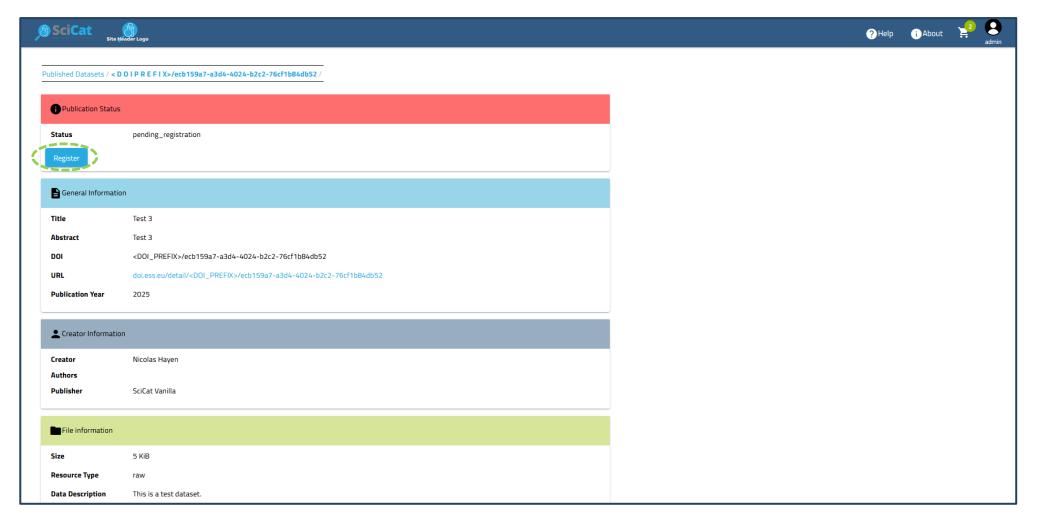
SciCat Site Header Logo	? Help	i About	admin
Datasets / Batch / Publish /			
You are about to publish 2 datasets.			
Title*			
Creators* Nicolas Hayen 🚳			
Publisher* SciCat Vanilla			
Resource Type* raw			
Description* This is a test dataset.			
Abstract*			
Related publications			
Publish			







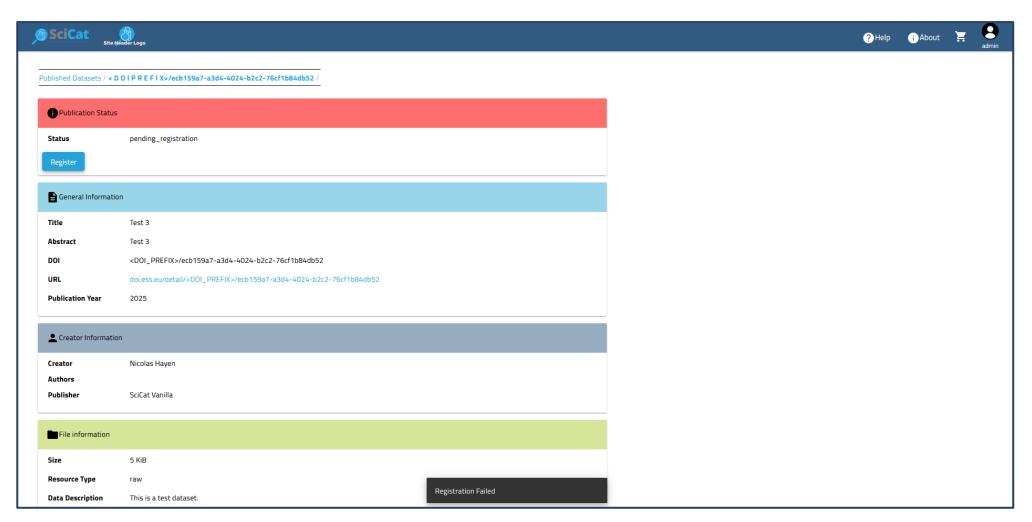
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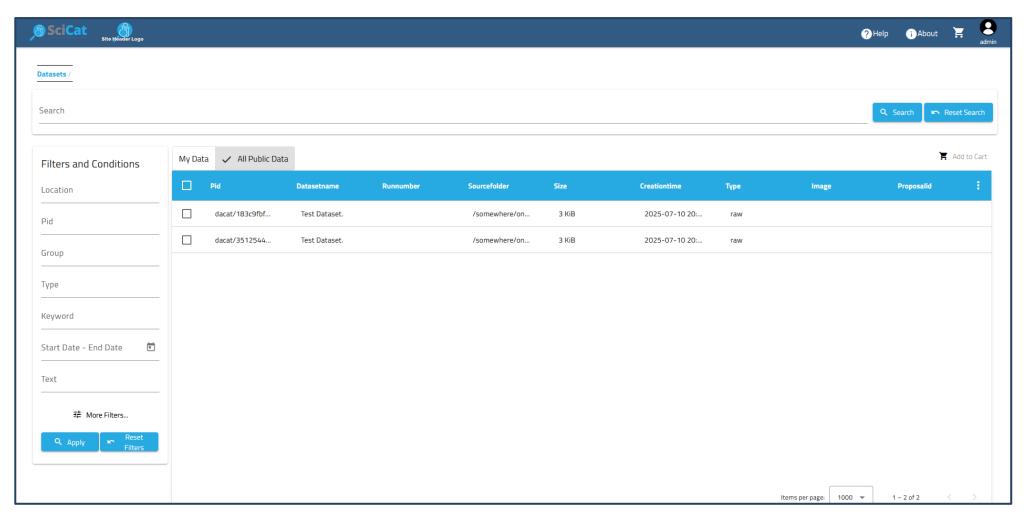












Problems



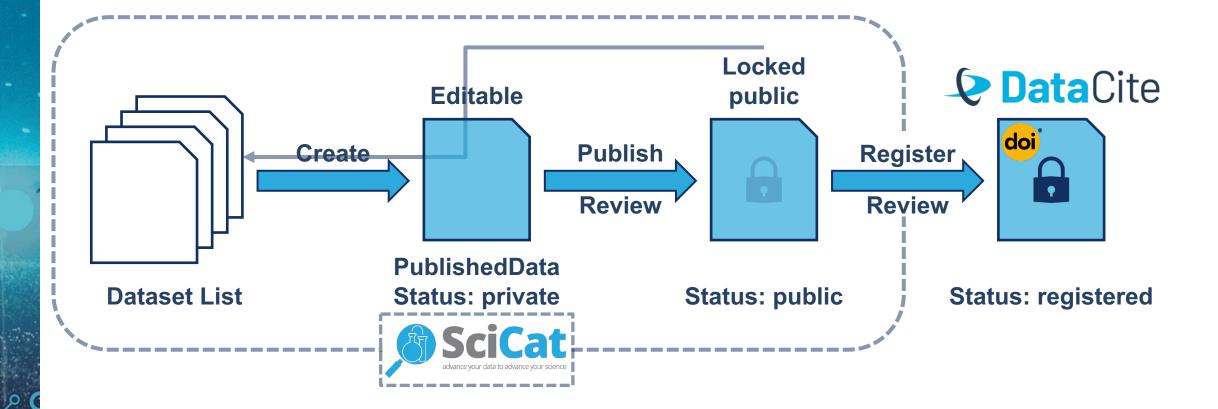


- 1. Unintuitive UI path to get to data publication
- 2. Metadata form covers only absolute minimum for DOIs
- 3. No possibility to edit PublishedData once created
- 4. All data is made public upon registration, but can be hidden again
- 5. No possibilty for integration with other services / databases

New workflow

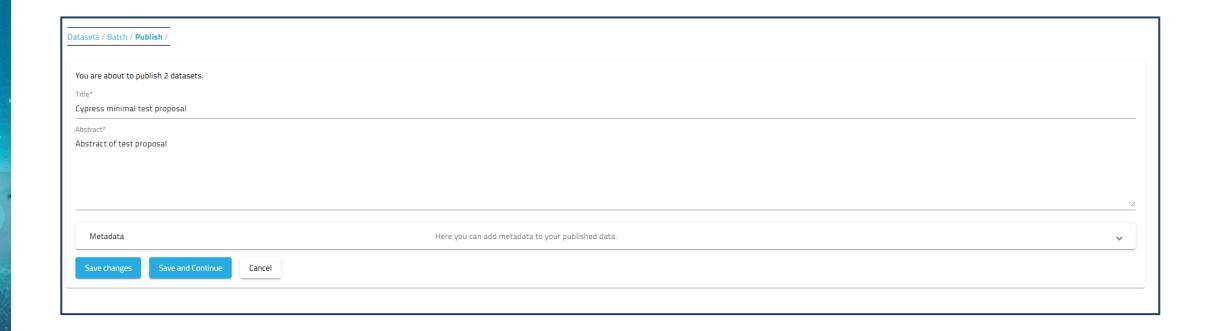














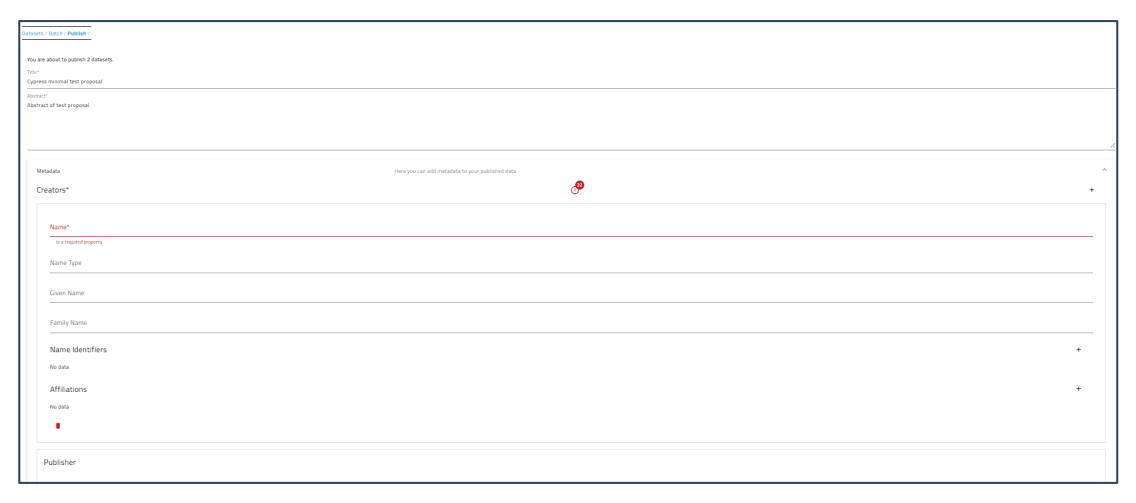




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	Metadata	Here you can add metadata to your published data.
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	Creators*	Ψ
	No data	
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	Publisher Name*	
	Publisher Identifier	
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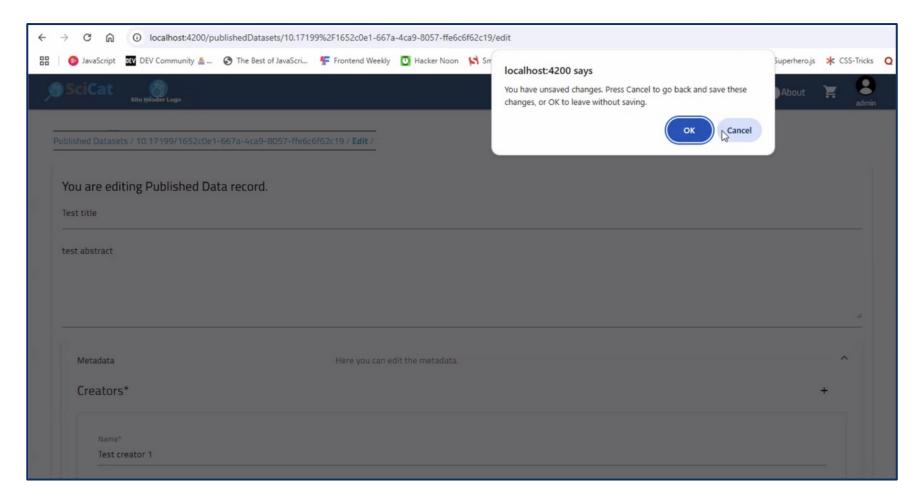
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		17.a. descriptionType	M if 17.	1	
o data	18.GeoLocation		R	0-n	published-data.metadata.geoLocations
NO WOLD		18.1. geoLocationPoint	0	0-1	
		18.1.1.	M if 18.1.	1	
Sizes		geoLocationLongitude			
		18.1.2.	M if 18.1.	1	
		geoLocationLatitude			
Formats		18.2. geoLocationBox	0	0-1	
		18.2.1.	M if 18.2.	1	
		westBoundLongitude			
Rights		18.2.2.	M if 18.2.	1	
		eastBoundLongitude			
No data		18.2.3.	M if 18.2.	1	
		southBoundLatitude			
Descriptions		18.2.4.	M if 18.2.	1	
		northBoundLatitude			
No data		18.3. geoLocationPlace	0	0-1	
		18.4. geoLocationPolygon	0	0-n	
See Leasting		18.4.1. polygonPoint	M if 18.4.	4-n	
Geo Locations		18.4.1.1. pointLongitude	M if 18.4.1.	1	
		18.4.1.2. pointLatitude	M if 18.4.1.	1	
No data		18.4.2. inPolygonPoint	0	0-1	
		18.4.2.1. pointLongitude	M if 18.4.2.	1	
Funding References		18.4.2.2. pointLatitude	M if 18.4.2.	1	
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No data	FundingReference				data.metadata.fundingReferences
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Related Items		19.2. funderIdentifier	0	0-1	
Related Items		19.2.a.	M if 19.2.	1	
No data		funderIdentifierType			
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		19.3. awardNumber	0	0-1	
ave changes Save and Continue Cancel		19.3.a. awardURI	0	0-1	
ave changes Save and Continue Cancel		19.4. awardTitle	0	0-1	
	20. Relateditem		0	0-n	published-data.metadata.relatedItems
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Configuration







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   5
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   6
                 "minItems": 1,
   8
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  10
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  11
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  12
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```

Summary & Timeline







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When will the features be available?

- Adjustable columns: already available (FE v5)
- Reworked published workflow: by end of contract
- Fix in search w/ scientific metadata: not trivial



- Mono repo, UI/UX (DAPHNE contribution)
- Details for Governance model: September

