New Workflow for SciCat Data Publication

DCS Round 2 Update, July 21ˢᵗ 2025

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DCS Round 2

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

Two major subprojects for this round

1. Improvement to **Frontend UI** and search capabilities

2. Rework of data publication and **DOI minting** workflow

UI Improvements

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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

SciCat DOI

Reworking the data publication / DOI feature in SciCat

- Replacing the existing system with extended new workflow

- Focus on general applicability and user freindliness

SciCat DOI

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SciCat DOI

Problems

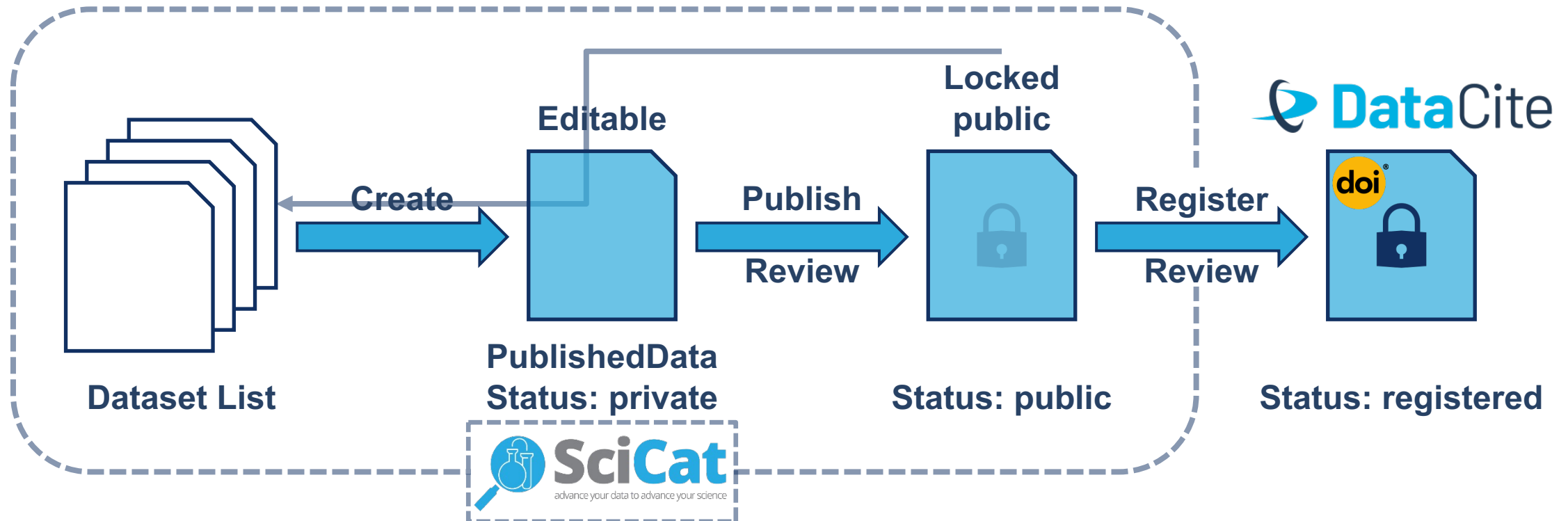1. Unintuitive UI path to get to data publication

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

Metadata Form

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Metadata Form

Metadata Form

Configuration

```json
C: > Users > hayen > Documents > Dev > scicat-backend-next > {} publishedDataConfig.example.json > ...
 1  {
 2    "metadataSchema": {
 3      "type": "object",
 4      "properties": {
 5        "creators": {
 6          "type": "array",
 7          "minItems": 1,
 8          "items": {
 9            "type": "object",
10            "properties": {
11              "name": {
12                "type": "string",
13                "title": "Name",
14                "$dataciteRequired": true
15              },
16              "nameType": {
17                "type": "string",
18                "title": "Name Type",
19                "$dataciteRequired": false,
20                "enum": ["Personal", "Organizational"]
21              },
22              "givenName": {
23                "type": "string",
24                "title": "Given Name",
25                "$dataciteRequired": false
26              },
```

Summary & Timeline

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

Focus now in SciCat Collaboration: follow up of topics from SciCatCON2025

- Mono repo, UI/UX (DAPHNE contribution)

- Details for Governance model: September