Solid for company data sharing: The Onto-DESIDE use case

Els de Vleeschauwer, Gertjan De Mulder, Ben De Meester
imec – IDLab – Ghent University

15/11/2024 Gent

Solid lets *personal* data flow

Solid also lets *company* data flow

- **Onto-DESIDE use case**
- The Open Circularity Platform
- Demo
- Q&A

Ontology-based Decentralized Sharing of Industry Data in the European Circular Economy

https://ontodeside.eu/

Horizon Europe project

imec IDLab INTERNET & DATA LAB UNIVERSITEIT GENT

Universität Hamburg
DER FORSCHUNG | DER LEHRE | DER BILDUNG

LINKÖPING UNIVERSITY

UNIVERSITY OF ECONOMICS AND BUSINESS PRAGUE

imec

Ontology-based Decentralized Sharing of Industry Data in the European Circular Economy

https://ontodeside.eu/

Horizon Europe project

imec IDLab INTERNET & DATA LAB UNIVERSITEIT GENT

circular.fashion

IMPAKT

Universität Hamburg
DER FORSCHUNG | DER LEHRE | DER BILDUNG

LINKÖPING UNIVERSITY

Concular

CIRCULARISE

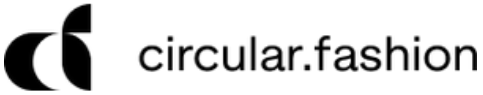
imec

ONTO-DESIDE

Ontology-based Decentralized Sharing of Industry Data in the European Circular Economy

https://ontodeside.eu/

Horizon Europe project



Ontology-based Decentralized Sharing of Industry Data in the European Circular Economy

https://ontodeside.eu/

Horizon Europe project

Circular economy aims for resource flows

Circular economy aims to reuse resources before they become waste

by establishing **Circular Value Networks**

between all actors along the value chain

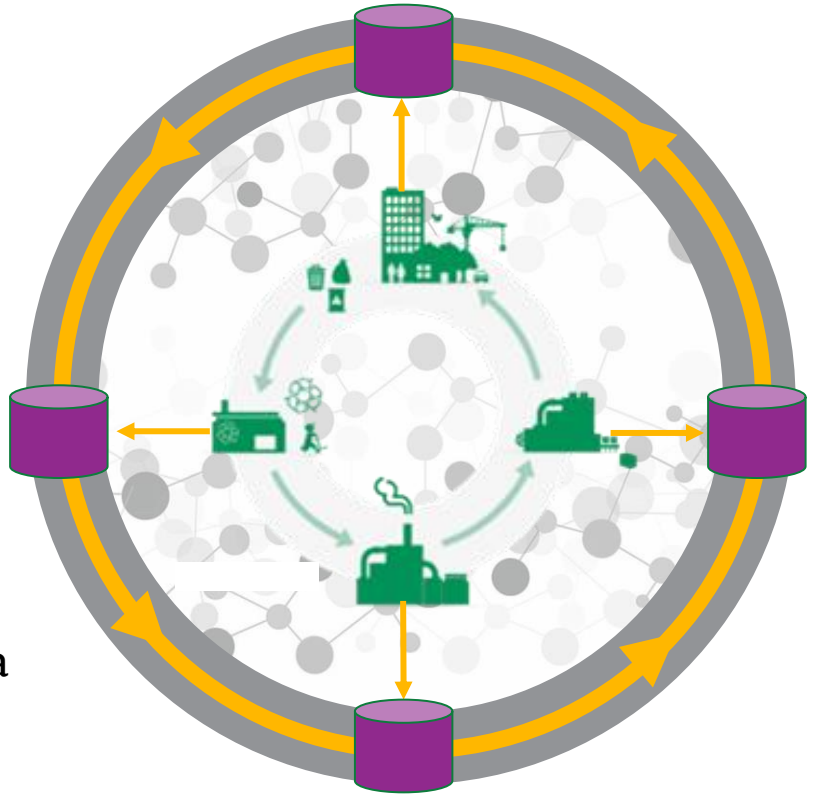
Circular Value Networks need data flows

Information needs to flow between actors

Regardless of the actors'

- Domain
  (e.g., electronics, textile, construction)
- System infrastructure
  (e.g., Microsoft SharePoint, SQL DB, CSV files)
- Data models
  (e.g., product vs material vs resource, kg vs lbs)

While the actors remain in control of their data

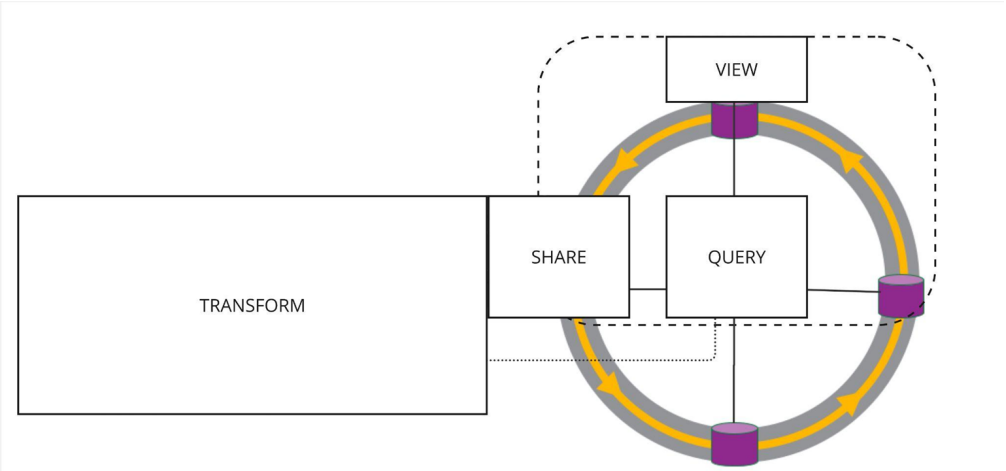


- Onto-DESIDE use case
- **The Open Circularity Platform**
- Demo
- Q&A

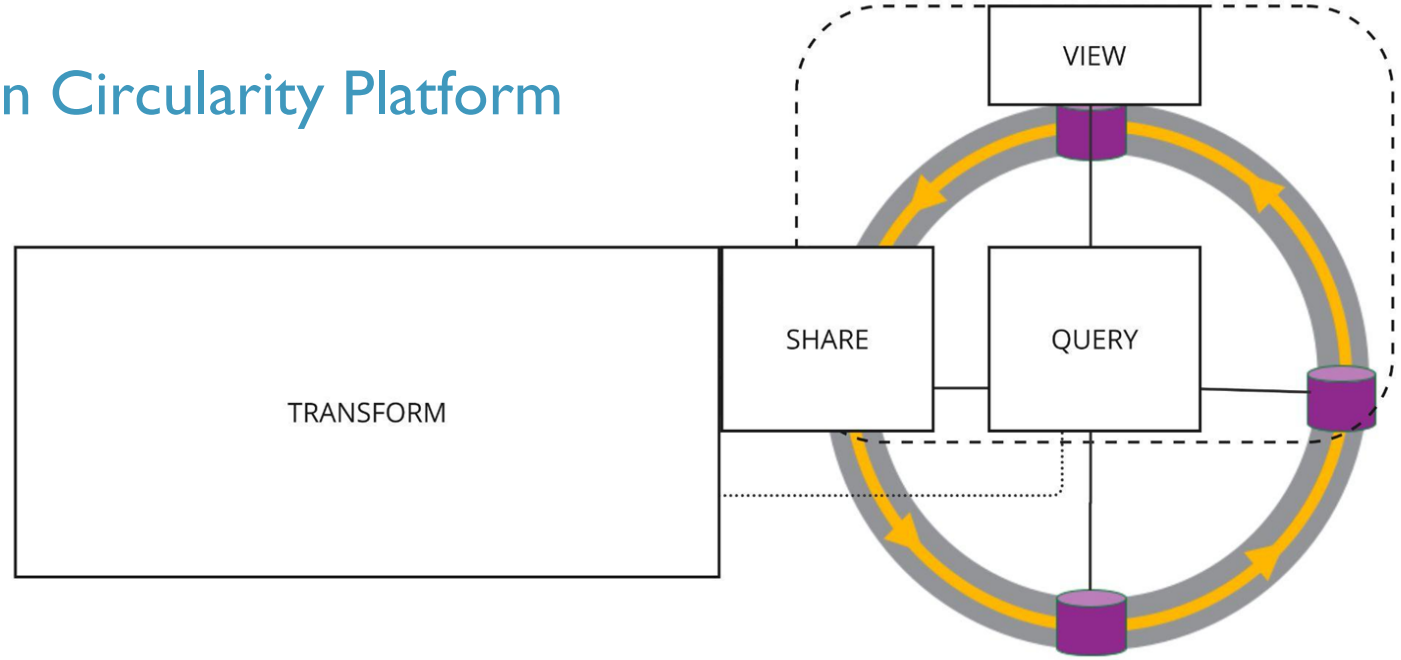
The Open Circularity Platform

Technical solution for permissioned data sharing

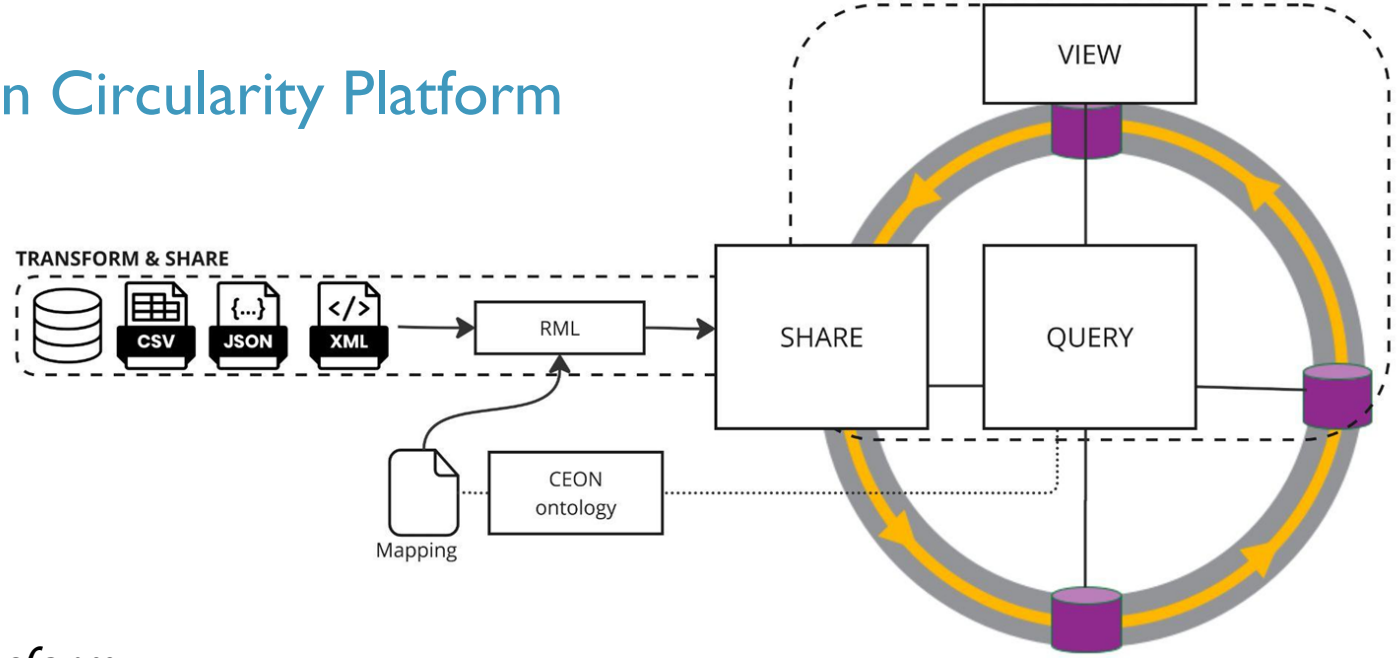
- Built on open Web standards
- Enables companies to participate and collaborate on the platform in four steps, i.e.:
  - **Transform** – To map source data to an interoperable representation
  - **Share** – To configure which data is shared with whom
  - **Query** – To retrieve the information spread across the actors' decentralized data stores
  - **View** – To conveniently obtain a comprehensible representation



The Open Circularity Platform



The Open Circularity Platform

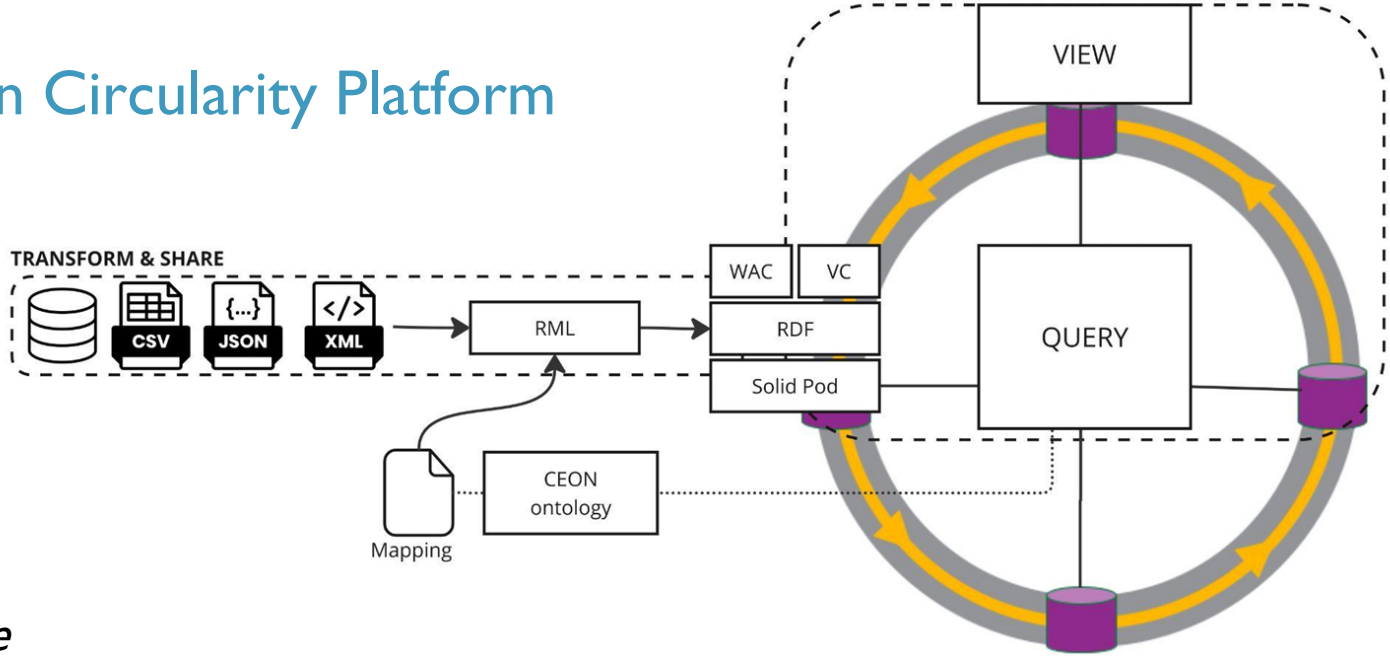


Step 1 – Transform

The **mapping component** allows a company to transform its data to RDF according to an ontology that is understood by all actors of the platform.
We use RML as this allows us to declare a performant mapping process relying on standards instead of hard-coded software.

imec IDLab UNIVERSITEIT GENT

The Open Circularity Platform

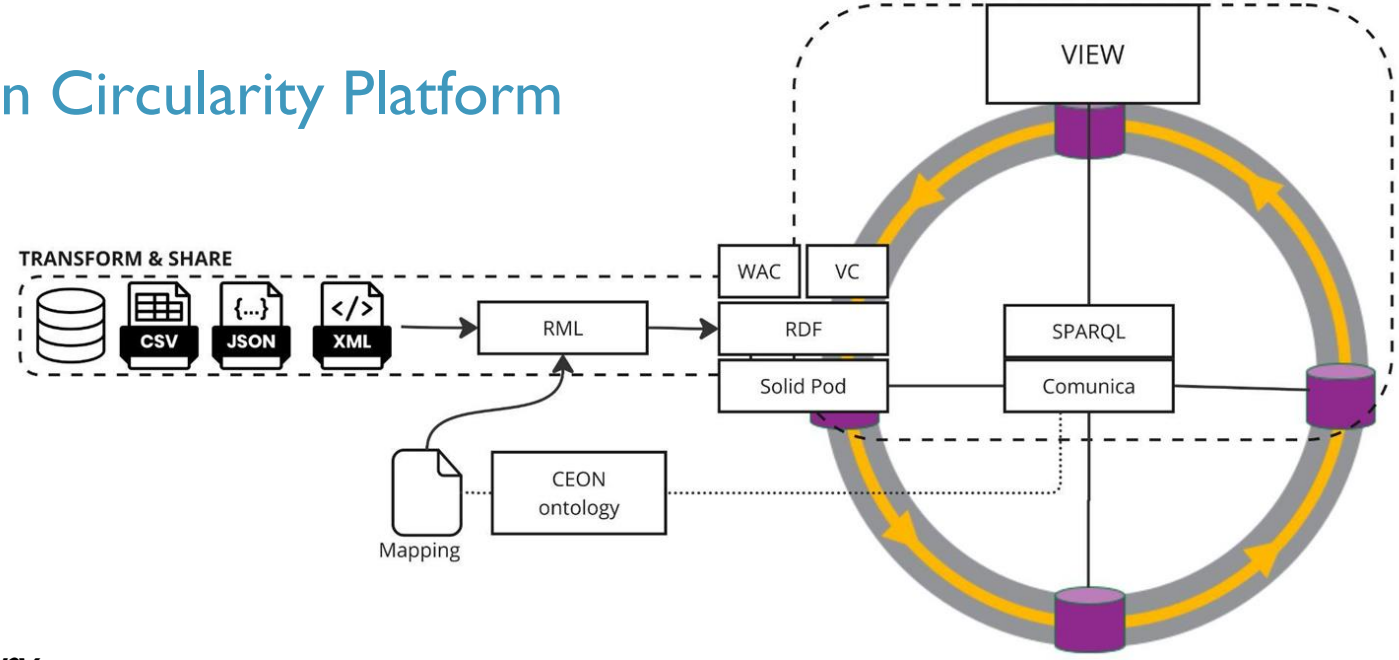


Step 2 – Share

For the sharing of the data, the RDF data is stored in Solid Pods.
The sharing step adds a secure layer that allows for:

- Access management (e.g., using WAC).
- Sharing the transformed RDF as a Verifiable Credential (VC).

The Open Circularity Platform

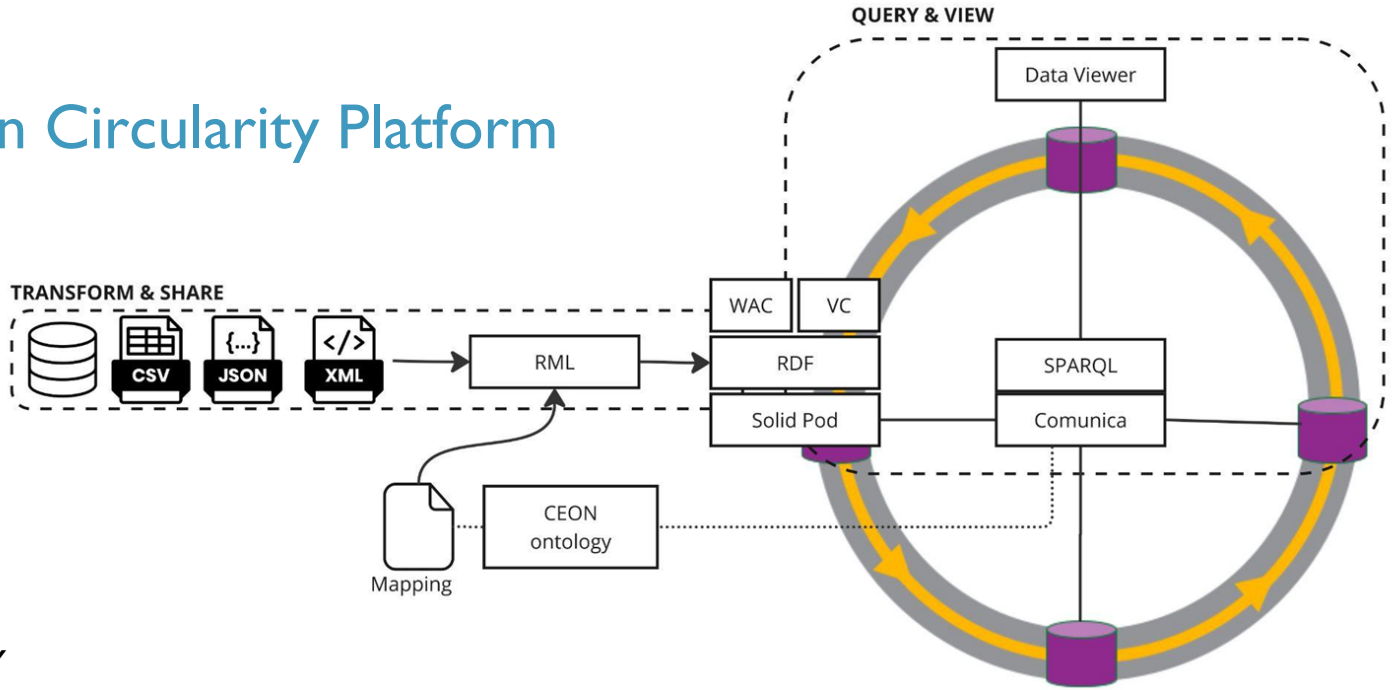


Step 3 – Query

To retrieve the information spread across the actors' decentralized data stores, we

- Define which information to retrieve using SPARQL.
- Leverage Comunica to take care of the federated querying.

The Open Circularity Platform



Step 4 – View

To conveniently obtain a comprehensible representation over all decentralized pods, we provide a data viewer that allows users to

- Select different views over the data flowing through the Open Circularity Platform.
- Verify the authenticity and integrity of the data sources that are part of a view.

imec IDLab INTERNET & DATA LAB UNIVERSITEIT GENT

The Open Circularity Platform: applied standards

RML to map an actor's data to RDF, regardless of the actor's existing infrastructure.

RDF to align the actors' data models.

Solid to provide a decentralized infrastructure, allowing users to share their data, while retaining access control.

SPARQL to define the queries.

Verifiable Credentials to allow users to verify the authenticity and integrity of the data sources.

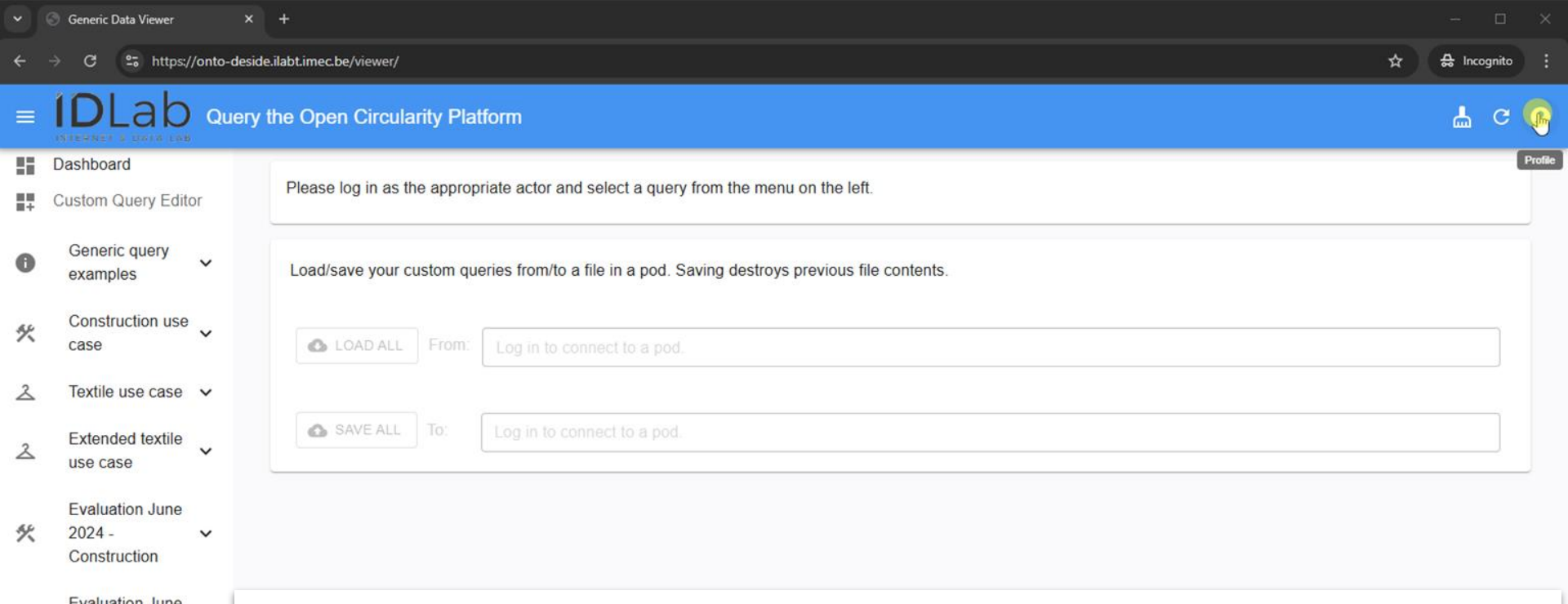
The Open Circularity Platform: developed solutions

CEON Ontology: a shared vocabulary for circular economy.

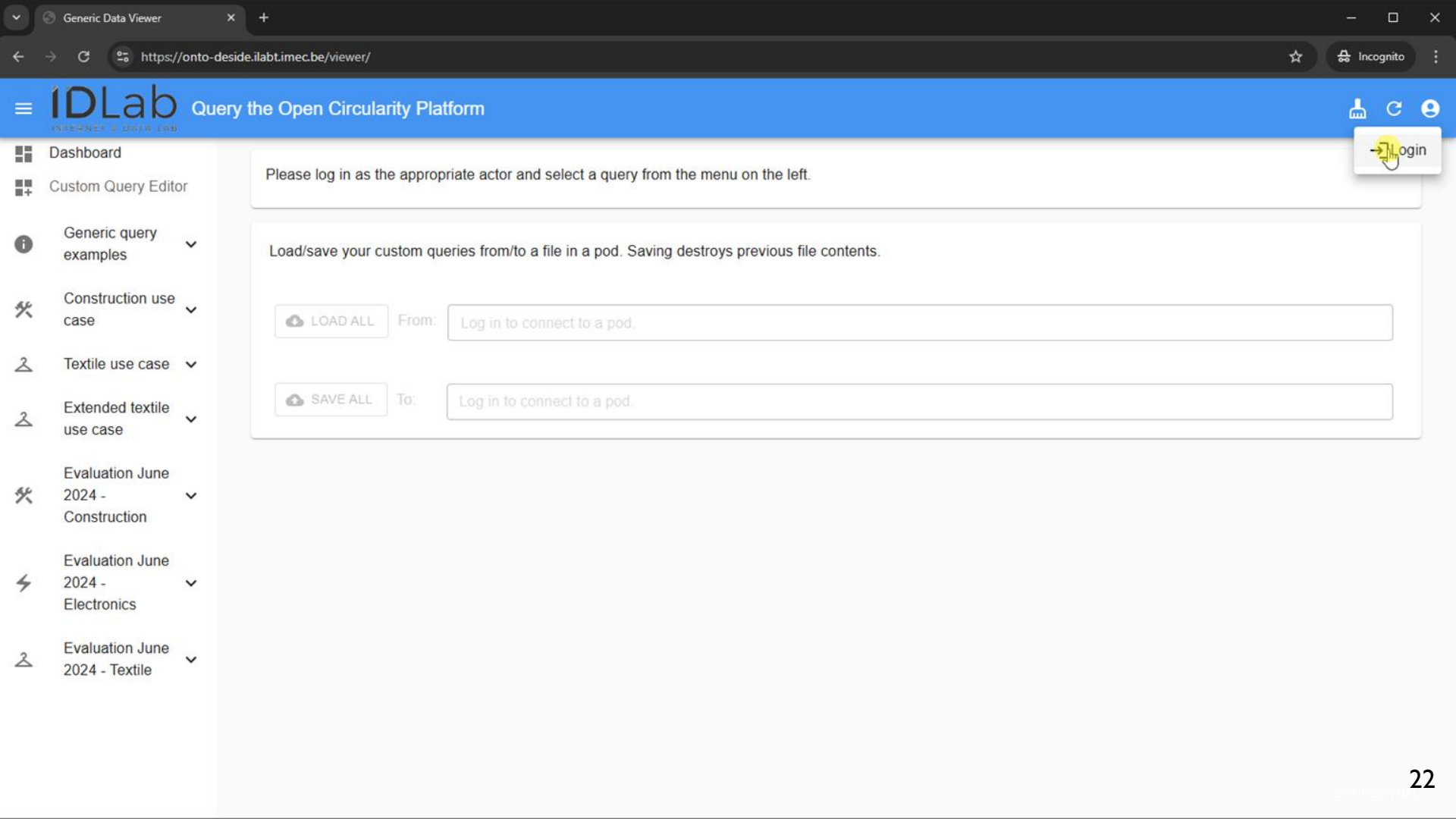
RML Extensions: to describe the end-to-end pipeline from heterogeneous data sources to fine-grained RDF resources on a Solid pod.

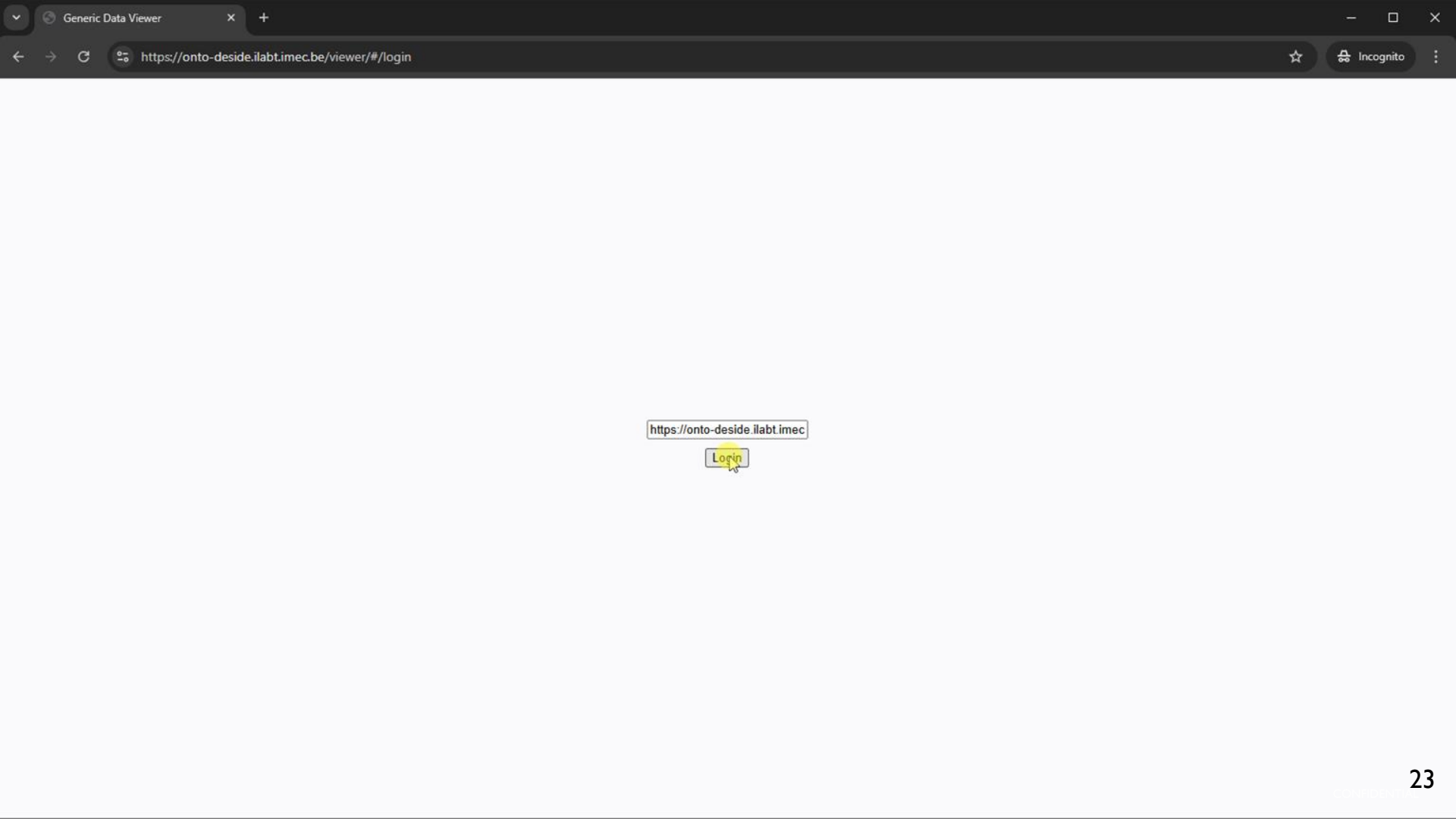
Data Viewer: Web app that allows users to easily execute any query over multiple data sources (including Solid pods) and inspect the corresponding results.

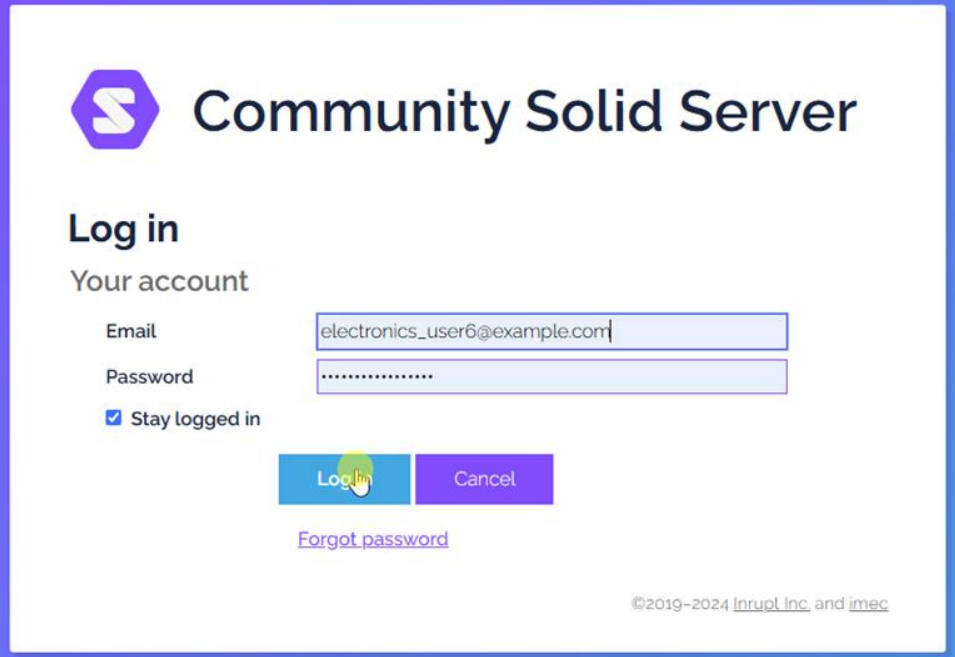
- Onto-DESIDE use case
- The Open Circularity Platform
- **Demo**
- Q&A



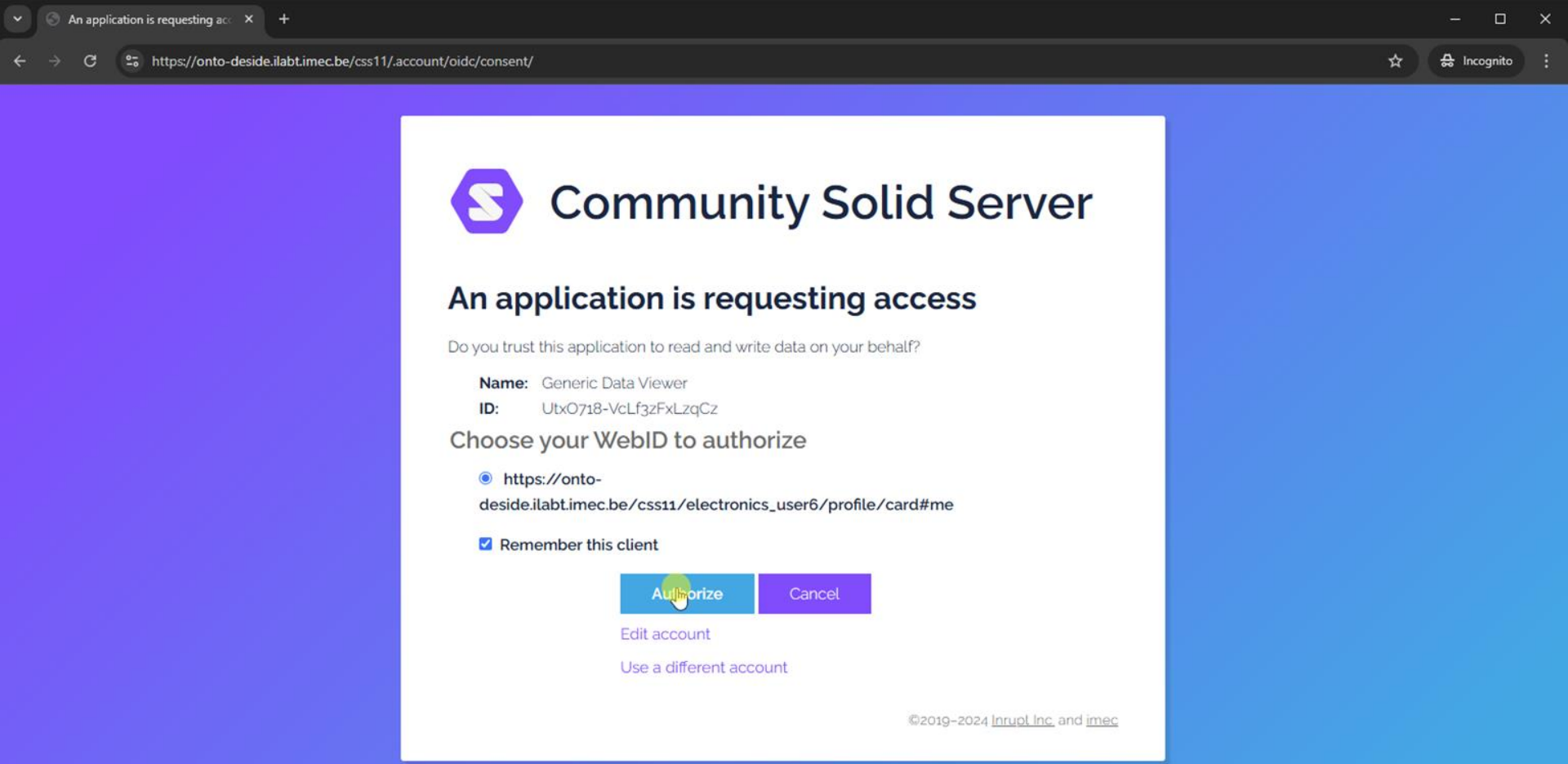
Using the data viewer,
you can query data across actors in the Circular Value Network (left).
You need to log in first (top right).

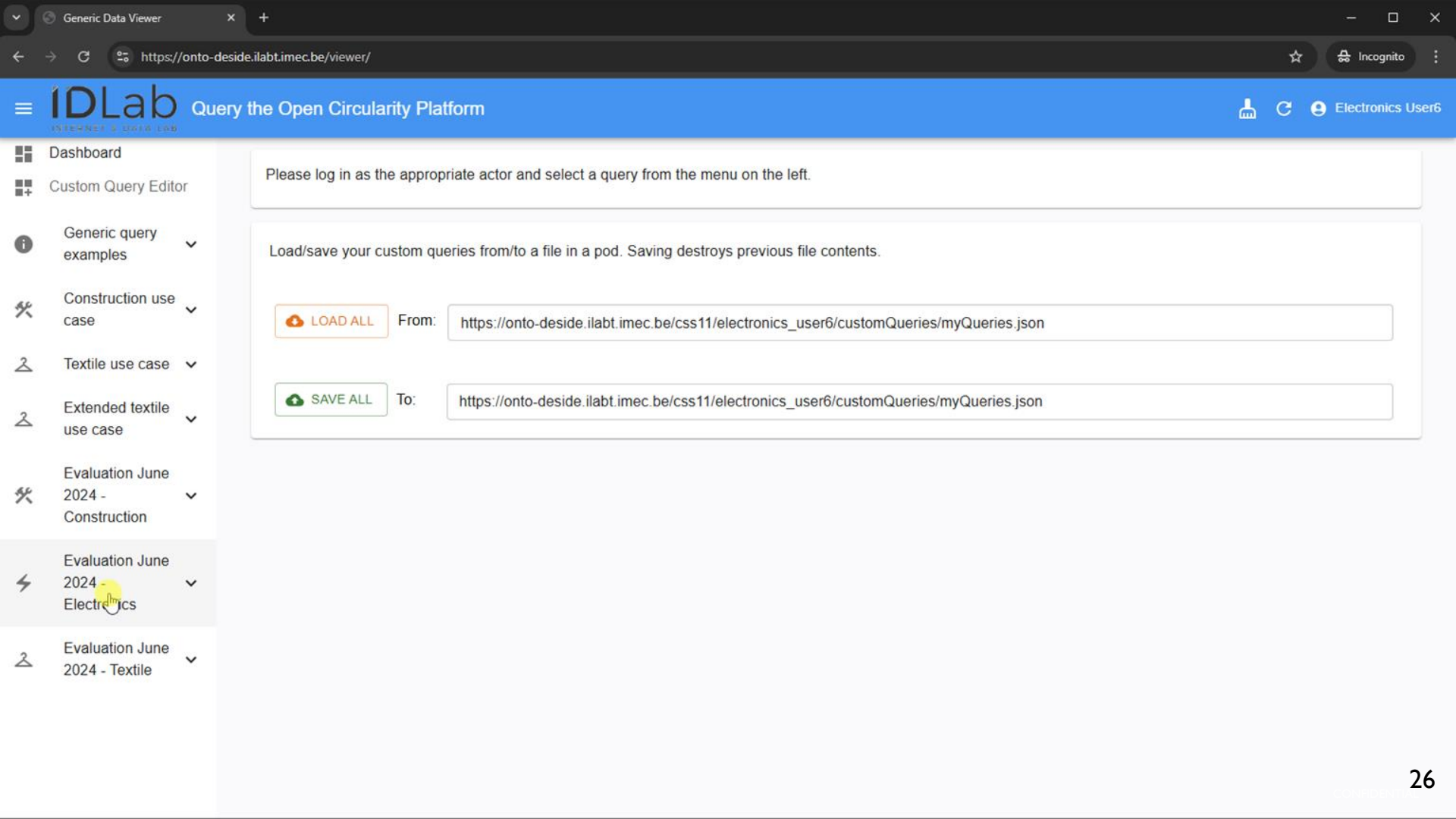

Generic Data Viewer
https://onto-deside.ilabt.imec.be/viewer/
Incognito
IDLab
Query the Open Circularity Platform
Login
Dashboard
Custom Query Editor
Generic query examples
Construction use case
Textile use case
Extended textile use case
Evaluation June 2024 - Construction
Evaluation June 2024 - Electronics
Evaluation June 2024 - Textile
Please log in as the appropriate actor and select a query from the menu on the left.
Load/save your custom queries from/to a file in a pod. Saving destroys previous file contents.
LOAD ALL
From:
Log in to connect to a pod.
SAVE ALL
To:
Log in to connect to a pod.

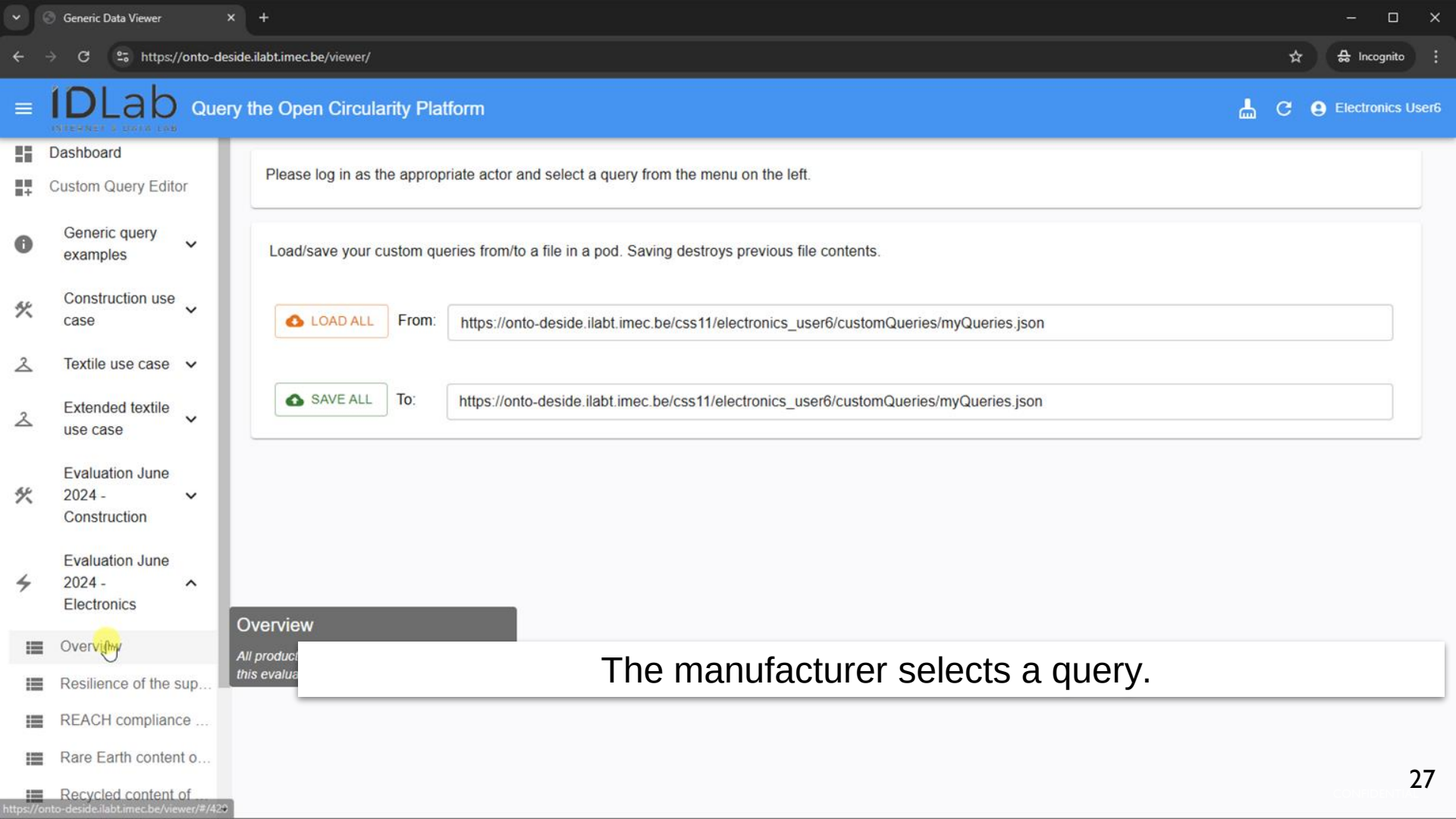

Generic Data Viewer
https://onto-deside.ilabt.imec.be/viewer/#/login
Incognito
https://onto-deside.ilabt.imec
Login

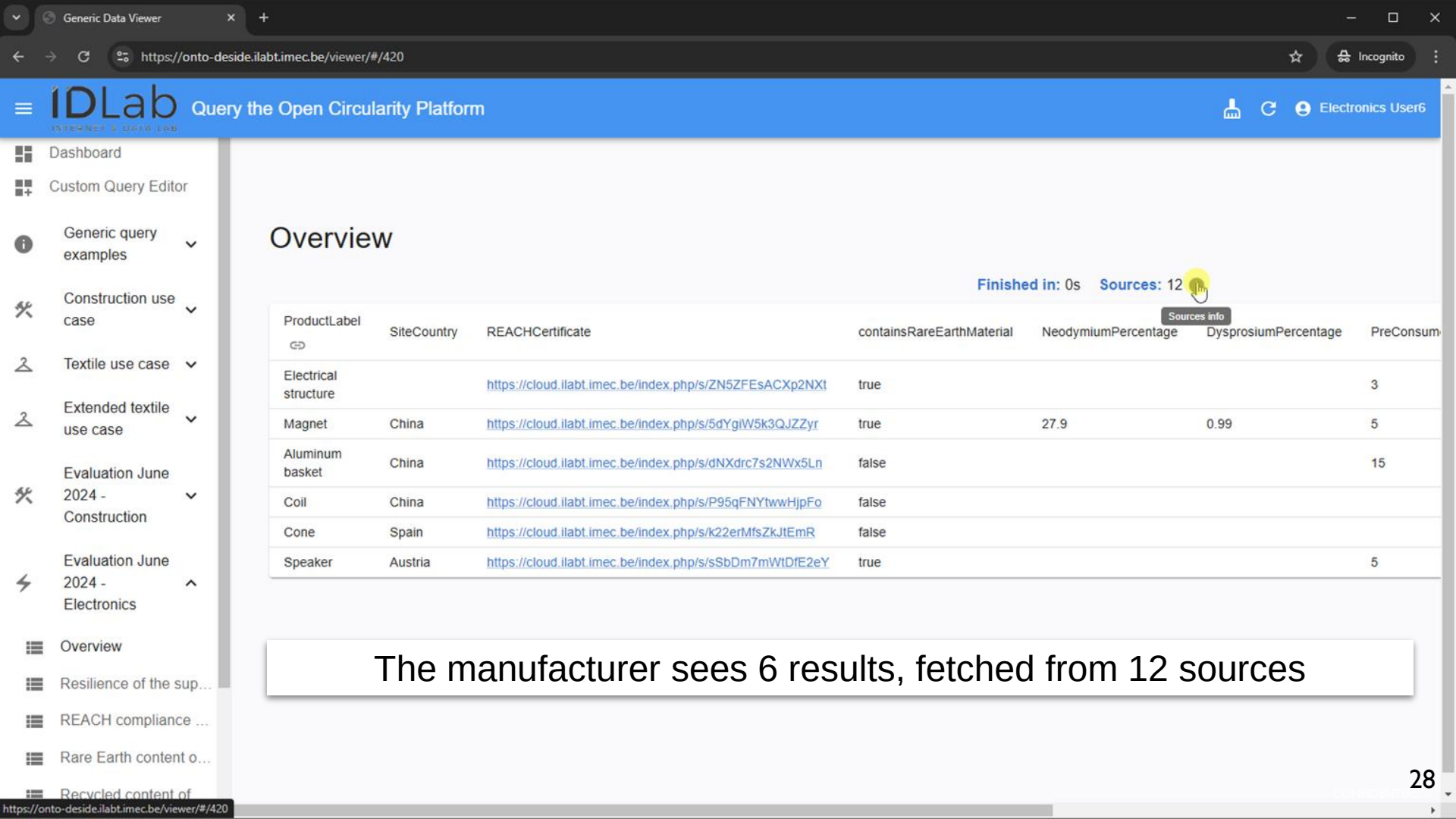


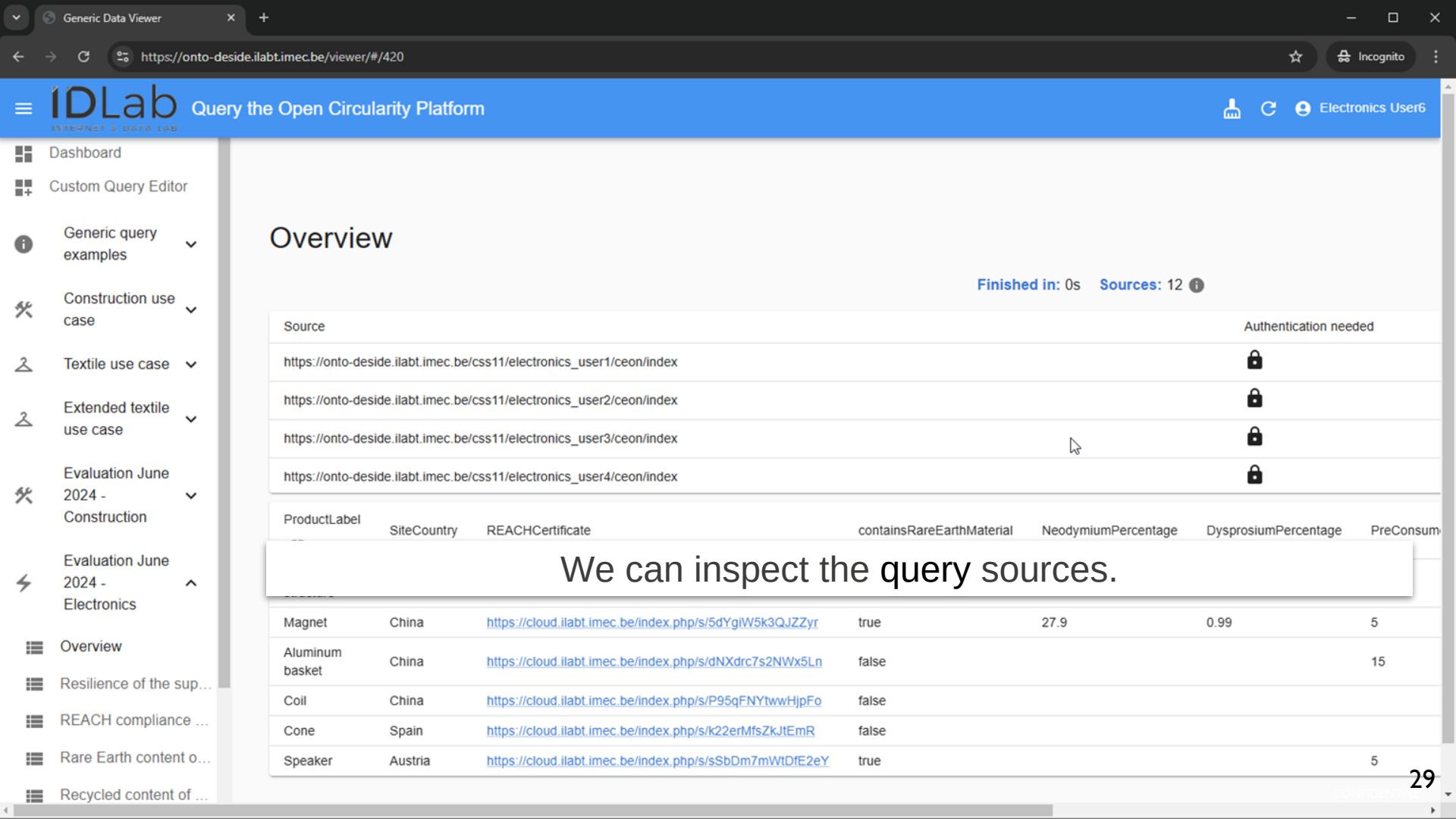
We log in as the manufacturer of a speaker.




Generic Data Viewer
https://onto-deside.ilabt.imec.be/viewer/
Incognito
IDLab
Query the Open Circularity Platform
Electronics User6
Dashboard
Custom Query Editor
Generic query examples
Construction use case
Textile use case
Extended textile use case
Evaluation June 2024 - Construction
Evaluation June 2024 - Electronics
Evaluation June 2024 - Textile
Please log in as the appropriate actor and select a query from the menu on the left.
Load/save your custom queries from/to a file in a pod. Saving destroys previous file contents.
LOAD ALL
From:
https://onto-deside.ilabt.imec.be/css11/electronics_user6/customQueries/myQueries.json
SAVE ALL
To:
https://onto-deside.ilabt.imec.be/css11/electronics_user6/customQueries/myQueries.json


Generic Data Viewer
https://onto-deside.ilabt.imec.be/viewer/
Incognito
IDLab
Query the Open Circularity Platform
Electronics User6
Dashboard
Custom Query Editor
Generic query examples
Construction use case
Textile use case
Extended textile use case
Evaluation June 2024 - Construction
Evaluation June 2024 - Electronics
Overview
Resilience of the sup...
REACH compliance ...
Rare Earth content o...
Recycled content of ...
Please log in as the appropriate actor and select a query from the menu on the left.
Load/save your custom queries from/to a file in a pod. Saving destroys previous file contents.
LOAD ALL
From:
https://onto-deside.ilabt.imec.be/css11/electronics_user6/customQueries/myQueries.json
SAVE ALL
To:
https://onto-deside.ilabt.imec.be/css11/electronics_user6/customQueries/myQueries.json
Overview
The manufacturer selects a query.


Generic Data Viewer
https://onto-deside.ilabt.imec.be/viewer/#/420
Incognito
IDLab
Query the Open Circularity Platform
Electronics User6
Dashboard
Custom Query Editor
Generic query examples
Construction use case
Textile use case
Extended textile use case
Evaluation June 2024 - Construction
Evaluation June 2024 - Electronics
Overview
Resilience of the sup...
REACH compliance ...
Rare Earth content o...
Recycled content of
Overview
Finished in: 0s
Sources: 12
Sources info
ProductLabel
SiteCountry
REACHCertificate
containsRareEarthMaterial
NeodymiumPercentage
DysprosiumPercentage
PreConsum
Electrical structure
https://cloud.ilabt.imec.be/index.php/s/ZN5ZFEsACXp2NXt
true
3
Magnet
China
https://cloud.ilabt.imec.be/index.php/s/5dYgiW5k3QJZZyr
true
27.9
0.99
5
Aluminum basket
China
https://cloud.ilabt.imec.be/index.php/s/dNXdrc7s2NWx5Ln
false
15
Coil
China
https://cloud.ilabt.imec.be/index.php/s/P95qFNYtwwHjpFo
false
Cone
Spain
https://cloud.ilabt.imec.be/index.php/s/k22erMfsZkJtEmR
false
Speaker
Austria
https://cloud.ilabt.imec.be/index.php/s/sSbDm7mWtDfE2eY
true
5
The manufacturer sees 6 results, fetched from 12 sources
https://onto-deside.ilabt.imec.be/viewer/#/420


Generic Data Viewer
https://onto-deside.ilabt.imec.be/viewer/#/420
Incognito
IDLab
INTERNET & DATA LAB
Query the Open Circularity Platform
Electronics User6
Dashboard
Custom Query Editor
Generic query examples
Construction use case
Textile use case
Extended textile use case
Evaluation June 2024 - Construction
Evaluation June 2024 - Electronics
Overview
Resilience of the sup...
REACH compliance ...
Rare Earth content o...
Recycled content of ...
Overview
Finished in: 0s
Sources: 12
Source
Authentication needed
https://onto-deside.ilabt.imec.be/css11/electronics_user1/ceon/index
https://onto-deside.ilabt.imec.be/css11/electronics_user2/ceon/index
https://onto-deside.ilabt.imec.be/css11/electronics_user3/ceon/index
https://onto-deside.ilabt.imec.be/css11/electronics_user4/ceon/index
ProductLabel
SiteCountry
REACHCertificate
containsRareEarthMaterial
NeodymiumPercentage
DysprosiumPercentage
PreConsum
We can inspect the query sources.
Magnet
China
https://cloud.ilabt.imec.be/index.php/s/5dYgiW5k3QJZZyr
true
27.9
0.99
5
Aluminum basket
China
https://cloud.ilabt.imec.be/index.php/s/dNXdrc7s2NWx5Ln
false
15
Coil
China
https://cloud.ilabt.imec.be/index.php/s/P95qFNYtwwHjpFo
false
Cone
Spain
https://cloud.ilabt.imec.be/index.php/s/k22erMfsZkJtEmR
false
Speaker
Austria
https://cloud.ilabt.imec.be/index.php/s/sSbDm7mWtDfE2eY
true
5

Generic Data Viewer

https://onto-deside.ilabt.imec.be/viewer/#/420

Incognito

IDLab Query the Open Circularity Platform

Electronics User6

- Dashboard
- Custom Query Editor
- Generic query examples
- Construction use case
- Textile use case
- Extended textile use case
- Evaluation June 2024 - Construction
- Evaluation June 2024 - Electronics
  - Overview
  - Resilience of the sup…
  - REACH compliance …
  - Rare Earth content o…
  - Recycled content of …

Overview

Finished in: 0s **Sources:** 12

https://onto-deside.ilabt.imec.be/css11/electronics_user3/ceon/index

https://onto-deside.ilabt.imec.be/css11/electronics_user4/ceon/index

https://onto-deside.ilabt.imec.be/css11/electronics_user5/ceon/index

https://onto-deside.ilabt.imec.be/css11/electronics_user6/ceon/index

ProductLabel	SiteCountry	REACHCertificate	containsRareEarthMaterial	NeodymiumPercentage	DysprosiumPercentage	PreConsum
Electrical structure		https://cloud.ilabt.imec.be/index.php/s/ZN5ZFEsACXp2NXt	true			3
Magnet	China	https://cloud.ilabt.imec.be/index.php/s/5dYgiW5k3QJZZyr	true	27.9	0.99	5
Aluminum basket	China	https://cloud.ilabt.imec.be/index.php/s/dNXdrc7s2NWx5Ln	false			15
Coil	China	https://cloud.ilabt.imec.be/index.php/s/P95qFNYtwwHjpFo	false			
Cone	Spain	https://cloud.ilabt.imec.be/index.php/s/k22erMfsZkJtEmR	false			
Speaker	Austria	https://cloud.ilabt.imec.be/index.php/s/sSbDm7mWtDfE2eY	true			5

Generic Data Viewer

https://onto-deside.ilabt.imec.be/viewer/#/420

Incognito

IDLab Query the Open Circularity Platform

Electronics User6

- Dashboard
- Custom Query Editor
- Generic query examples
- Construction use case
- Textile use case
- Extended textile use case
- Evaluation June 2024 - Construction
- Evaluation June 2024 - Electronics
  - Overview
  - Resilience of the sup...
  - REACH compliance ...
  - Rare Earth content o...
  - Recycled content of ...

Overview

Finished in: 0s **Sources:** 12

https://onto-deside.ilabt.imec.be/css11/electronics_user5/ceon/index

https://onto-deside.ilabt.imec.be/css11/electronics_user6/ceon/index

https://onto-deside.ilabt.imec.be/css11/electronics_user1/ceon/product-JUY9242

https://onto-deside.ilabt.imec.be/css11/electronics_user2/ceon/product-IUYT567

https://onto-deside.ilabt.imec.be/css11/electronics_user3/ceon/product-OIP8597

ProductLabel	SiteCountry	REACHCertificate	containsRareEarthMaterial	NeodymiumPercentage	DysprosiumPercentage	PreConsum
Electrical structure		https://cloud.ilabt.imec.be/index.php/s/ZN5ZFEsACXp2NXt	true			3
Magnet	China	https://cloud.ilabt.imec.be/index.php/s/5dYgiW5k3QJZZyr	true	27.9	0.99	5
Aluminum basket	China	https://cloud.ilabt.imec.be/index.php/s/dNXdrc7s2NWx5Ln	false			15
Coil	China	https://cloud.ilabt.imec.be/index.php/s/P95qFNYtwwHjpFo	false			
Cone	Spain	https://cloud.ilabt.imec.be/index.php/s/k22erMfsZkJtEmR	false			
Speaker	Austria	https://cloud.ilabt.imec.be/index.php/s/sSbDm7mWtDfE2eY	true			5

Generic Data Viewer

https://onto-deside.ilabt.imec.be/viewer/#/420

Incognito

IDLab INTERNET & DATA LAB

Query the Open Circularity Platform

Electronics User6

- Dashboard
- Custom Query Editor
- Generic query examples
- Construction use case
- Textile use case
- Extended textile use case
- Evaluation June 2024 - Construction
- Evaluation June 2024 - Electronics
  - Overview
  - Resilience of the sup…
  - REACH compliance …
  - Rare Earth content o…
  - Recycled content of …

Overview

Finished in: 0s **Sources:** 12

https://onto-deside.ilabt.imec.be/css11/electronics_user1/ceon/product-JUY9242

https://onto-deside.ilabt.imec.be/css11/electronics_user2/ceon/product-IUYT567

https://onto-deside.ilabt.imec.be/css11/electronics_user3/ceon/product-OIP8597

https://onto-deside.ilabt.imec.be/css11/electronics_user4/ceon/product-VTE0953

https://onto-deside.ilabt.imec.be/css11/electronics_user5/ceon/product-XYU3987

ProductLabel	SiteCountry	REACHCertificate	containsRareEarthMaterial	NeodymiumPercentage	DysprosiumPercentage	PreConsum
Electrical structure		https://cloud.ilabt.imec.be/index.php/s/ZN5ZFEsACXp2NXt	true			3
Magnet	China	https://cloud.ilabt.imec.be/index.php/s/5dYgiW5k3QJZZyr	true	27.9	0.99	5
Aluminum basket	China	https://cloud.ilabt.imec.be/index.php/s/dNXdrc7s2NWx5Ln	false			15
Coil	China	https://cloud.ilabt.imec.be/index.php/s/P95qFNYtwwHjpFo	false			
Cone	Spain	https://cloud.ilabt.imec.be/index.php/s/k22erMfsZkJtEmR	false			
Speaker	Austria	https://cloud.ilabt.imec.be/index.php/s/sSbDm7mWtDfE2eY	true			5

Generic Data Viewer

https://onto-deside.ilabt.imec.be/viewer/#/420

Incognito

IDLab INTERNET & DATA LAB — Query the Open Circularity Platform

Electronics User6

- Dashboard
- Custom Query Editor
- Generic query examples
- Construction use case
- Textile use case
- Extended textile use case
- Evaluation June 2024 - Construction
- Evaluation June 2024 - Electronics
  - Overview
  - Resilience of the sup…
  - REACH compliance …
  - Rare Earth content o…
  - Recycled content of …

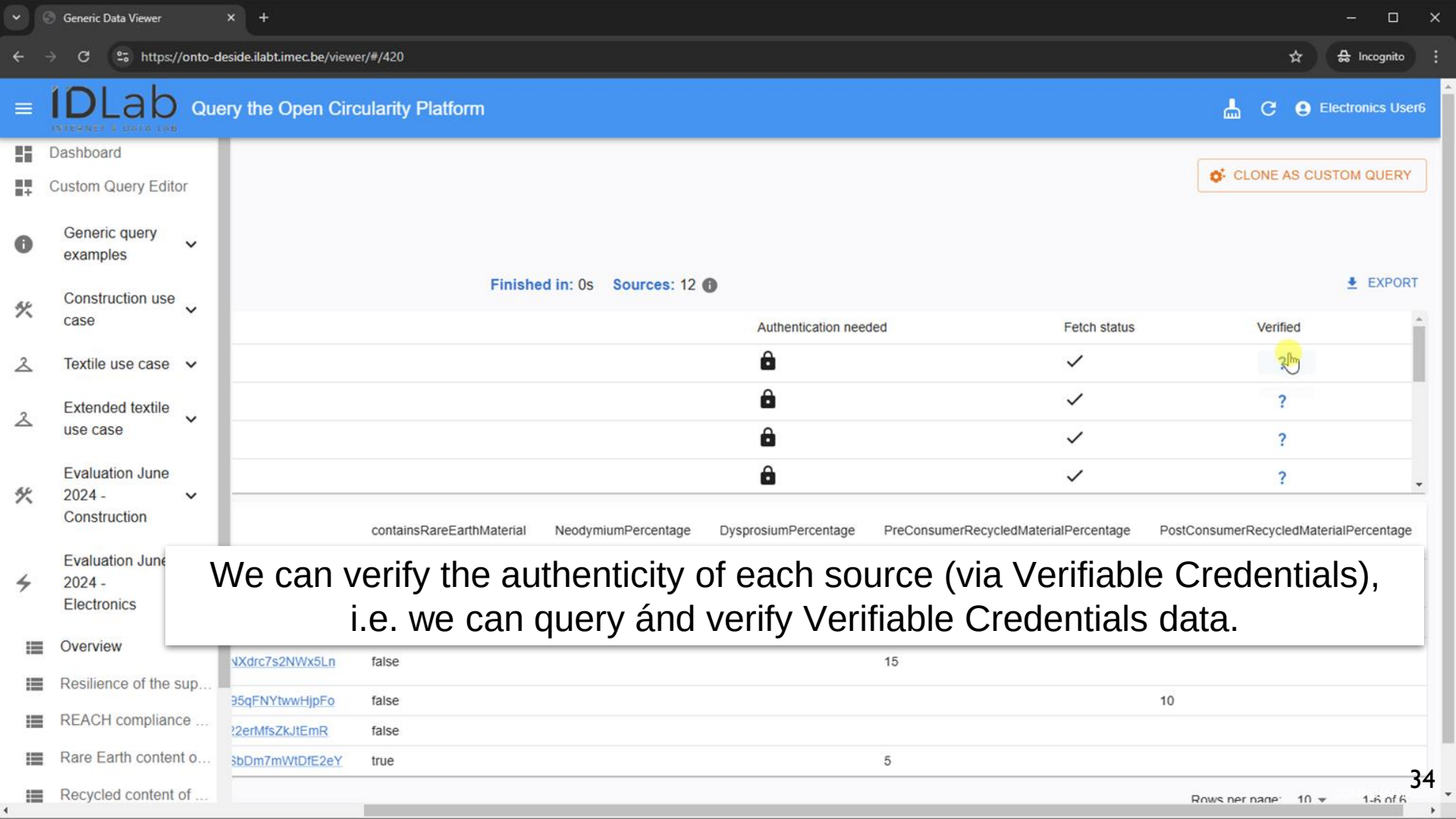
Overview

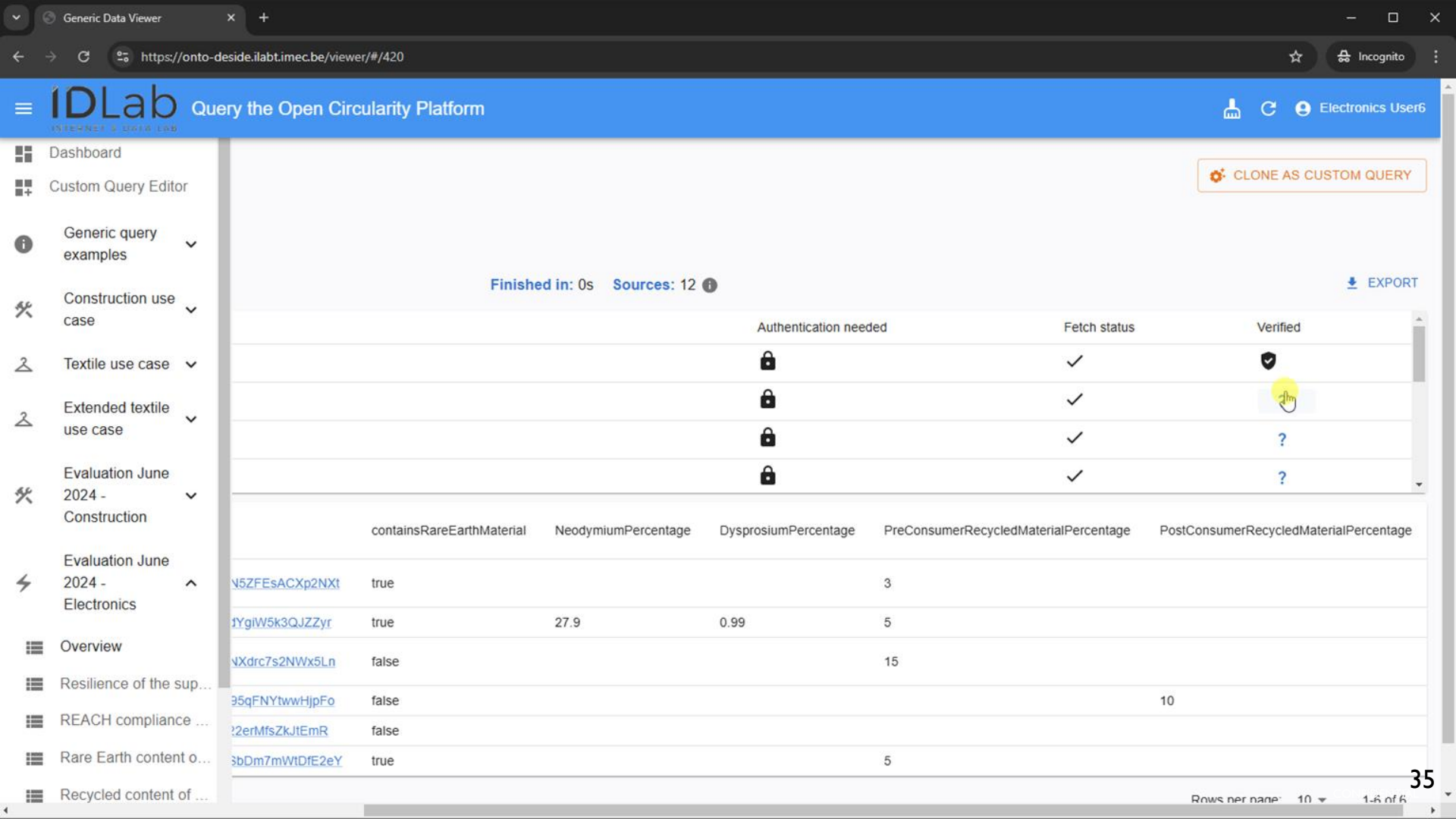
Finished in: 0s **Sources:** 12

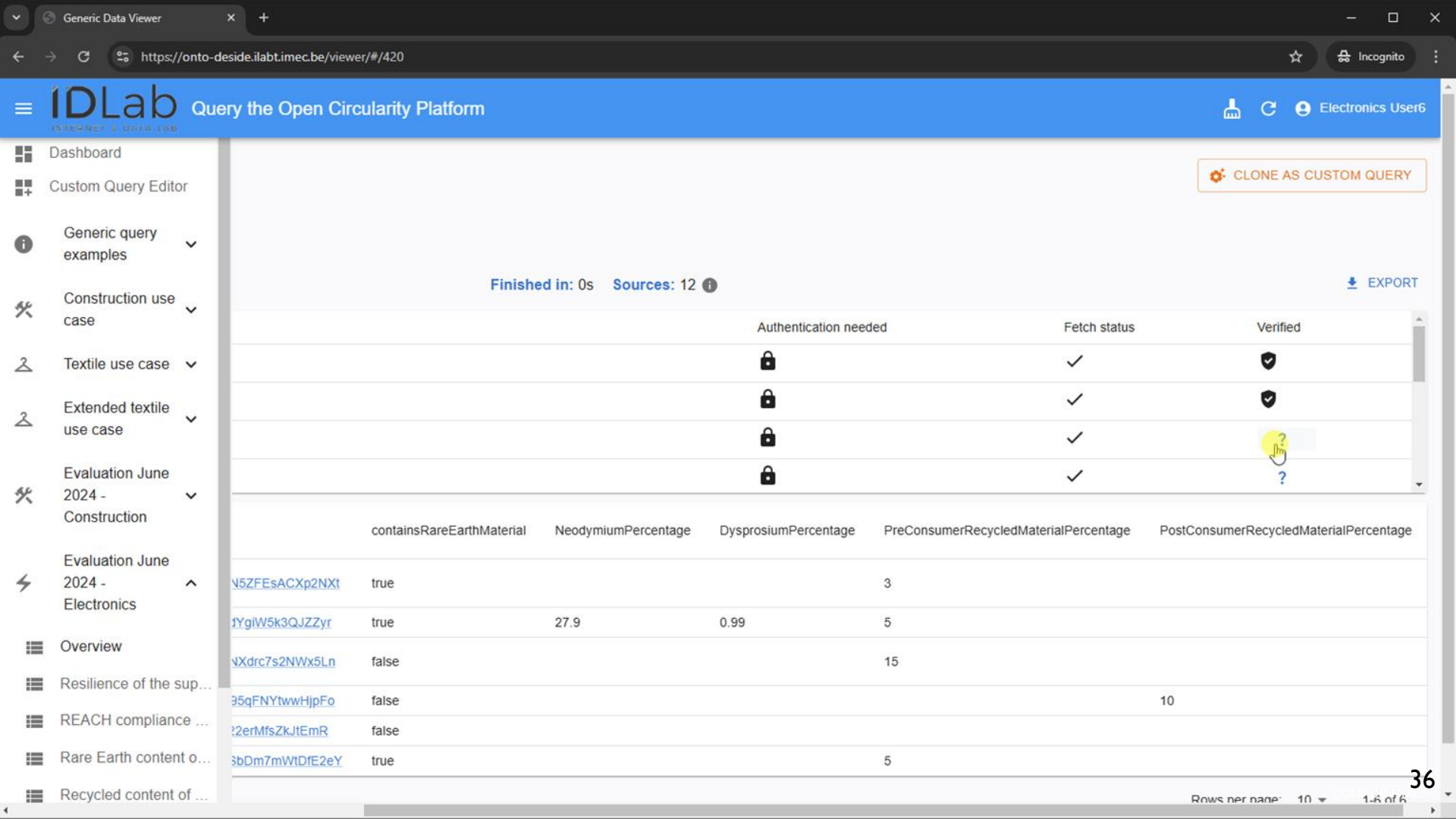
Source	Authentication needed
https://onto-deside.ilabt.imec.be/css11/electronics_user1/ceon/index	🔒
https://onto-deside.ilabt.imec.be/css11/electronics_user2/ceon/index	🔒
https://onto-deside.ilabt.imec.be/css11/electronics_user3/ceon/index	🔒
https://onto-deside.ilabt.imec.be/css11/electronics_user4/ceon/index	🔒

ProductLabel	SiteCountry	REACHCertificate	containsRareEarthMaterial	NeodymiumPercentage	DysprosiumPercentage	PreConsum
Electrical structure						3
Magnet	China	https://cloud.ilabt.imec.be/index.php/s/5dYgiW5k3QJZZyr	true	27.9	0.99	5
Aluminum basket	China	https://cloud.ilabt.imec.be/index.php/s/dNXdrc7s2NWx5Ln	false			15
Coil	China	https://cloud.ilabt.imec.be/index.php/s/P95qFNYtwwHjpFo	false			
Cone	Spain	https://cloud.ilabt.imec.be/index.php/s/k22erMfsZkJtEmR	false			
Speaker	Austria	https://cloud.ilabt.imec.be/index.php/s/sSbDm7mWtDfE2eY	true			5

In this case, all data is privately shared (🔒).


Generic Data Viewer
https://onto-deside.ilabt.imec.be/viewer/#/420
Incognito
IDLab
Query the Open Circularity Platform
Electronics User6
Dashboard
Custom Query Editor
Generic query examples
Construction use case
Textile use case
Extended textile use case
Evaluation June 2024 - Construction
Evaluation June 2024 - Electronics
Overview
Resilience of the sup...
REACH compliance ...
Rare Earth content o...
Recycled content of ...
CLONE AS CUSTOM QUERY
Finished in: 0s
Sources: 12
EXPORT
Authentication needed
Fetch status
Verified
containsRareEarthMaterial
NeodymiumPercentage
DysprosiumPercentage
PreConsumerRecycledMaterialPercentage
PostConsumerRecycledMaterialPercentage
We can verify the authenticity of each source (via Verifiable Credentials), i.e. we can query ánd verify Verifiable Credentials data.
NXdrc7s2NWx5Ln
false
15
95qFNYtwwHjpFo
false
10
2erMfsZkJtEmR
false
SbDm7mWtDfE2eY
true
5
Rows per page:
10
1-6 of 6


Generic Data Viewer
https://onto-deside.ilabt.imec.be/viewer/#/420
Incognito
IDLab
Query the Open Circularity Platform
Electronics User6
Dashboard
Custom Query Editor
Generic query examples
Construction use case
Textile use case
Extended textile use case
Evaluation June 2024 - Construction
Evaluation June 2024 - Electronics
Overview
Resilience of the sup...
REACH compliance ...
Rare Earth content o...
Recycled content of ...
CLONE AS CUSTOM QUERY
Finished in: 0s
Sources: 12
EXPORT
Authentication needed
Fetch status
Verified
containsRareEarthMaterial
NeodymiumPercentage
DysprosiumPercentage
PreConsumerRecycledMaterialPercentage
PostConsumerRecycledMaterialPercentage
N5ZFEsACXp2NXt
true
3
1YgiW5k3QJZZyr
true
27.9
0.99
5
NXdrc7s2NWx5Ln
false
15
95qFNYtwwHjpFo
false
10
?2erMfsZkJtEmR
false
5bDm7mWtDfE2eY
true
5
Rows per page:
10
1-6 of 6


Generic Data Viewer
https://onto-deside.ilabt.imec.be/viewer/#/420
Incognito
IDLab
Query the Open Circularity Platform
Electronics User6
Dashboard
Custom Query Editor
Generic query examples
Construction use case
Textile use case
Extended textile use case
Evaluation June 2024 - Construction
Evaluation June 2024 - Electronics
Overview
Resilience of the sup...
REACH compliance ...
Rare Earth content o...
Recycled content of ...
CLONE AS CUSTOM QUERY
Finished in: 0s
Sources: 12
EXPORT
Authentication needed
Fetch status
Verified
containsRareEarthMaterial
NeodymiumPercentage
DysprosiumPercentage
PreConsumerRecycledMaterialPercentage
PostConsumerRecycledMaterialPercentage
N5ZFEsACXp2NXt
true
3
1YgiW5k3QJZZyr
true
27.9
0.99
5
NXdrc7s2NWx5Ln
false
15
95qFNYtwwHjpFo
false
10
?2erMfsZkJtEmR
false
5bDm7mWtDfE2eY
true
5
Rows per page:
10
1-6 of 6

Generic Data Viewer

https://onto-deside.ilabt.imec.be/viewer/#/420

Incognito

IDLab Query the Open Circularity Platform

Electronics User6

- Dashboard
- Custom Query Editor
- Generic query examples
- Construction use case
- Textile use case
- Extended textile use case
- Evaluation June 2024 - Construction
- Evaluation June 2024 - Electronics
  - Overview
  - Resilience of the sup…
  - REACH compliance …
  - Rare Earth content o…
  - Recycled content of …

CLONE AS CUSTOM QUERY

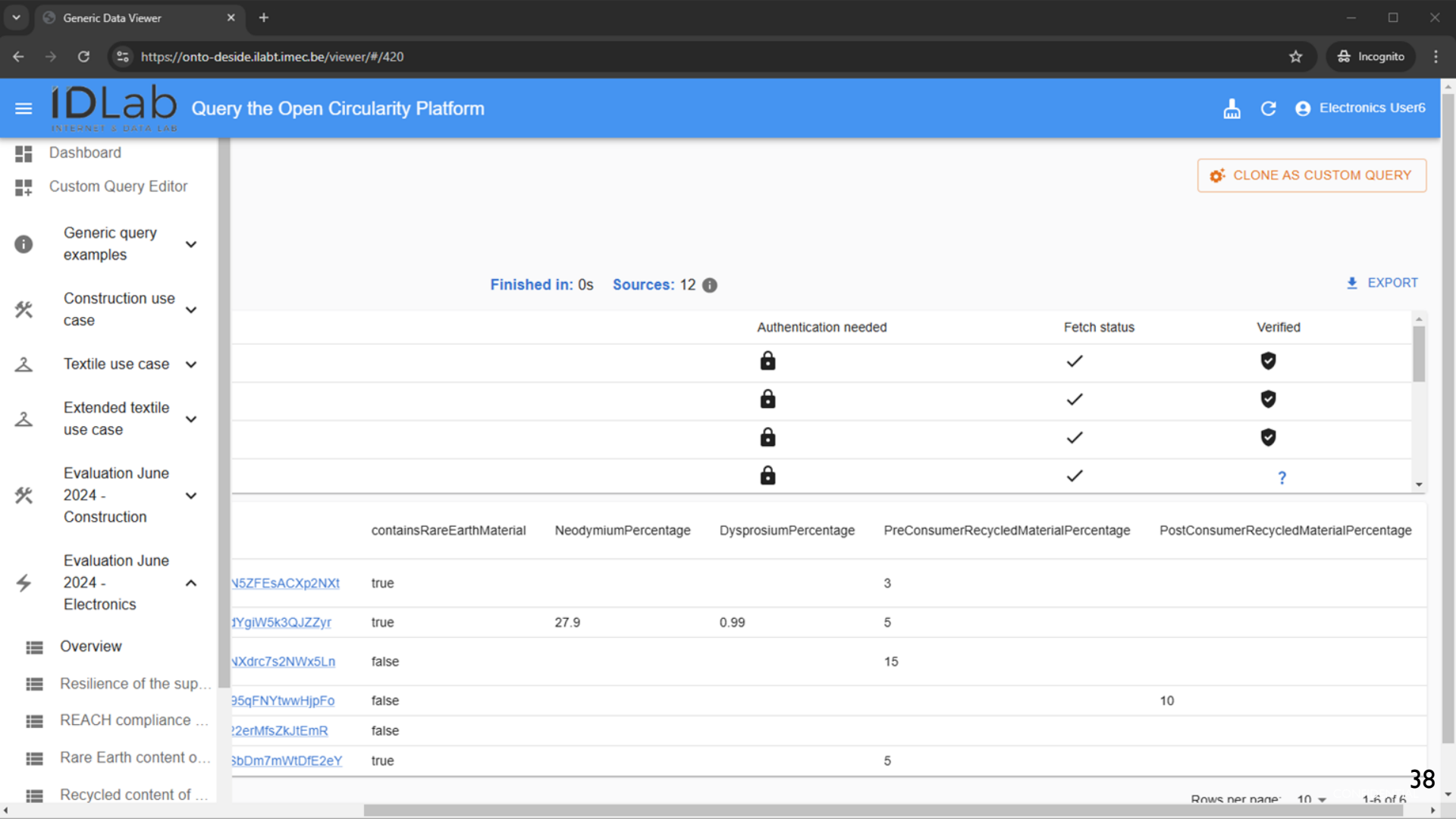
Finished in: 0s Sources: 12

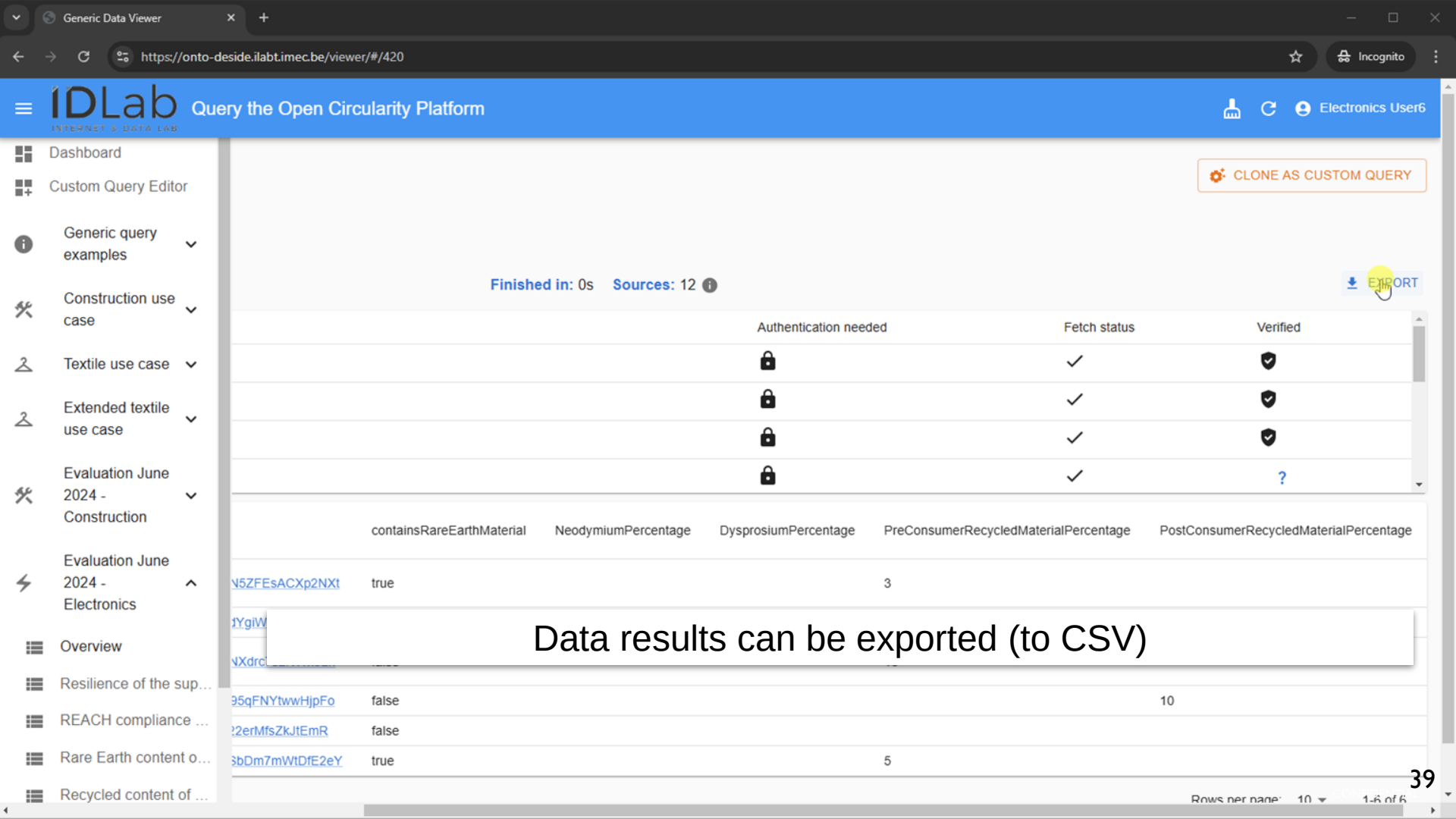
EXPORT

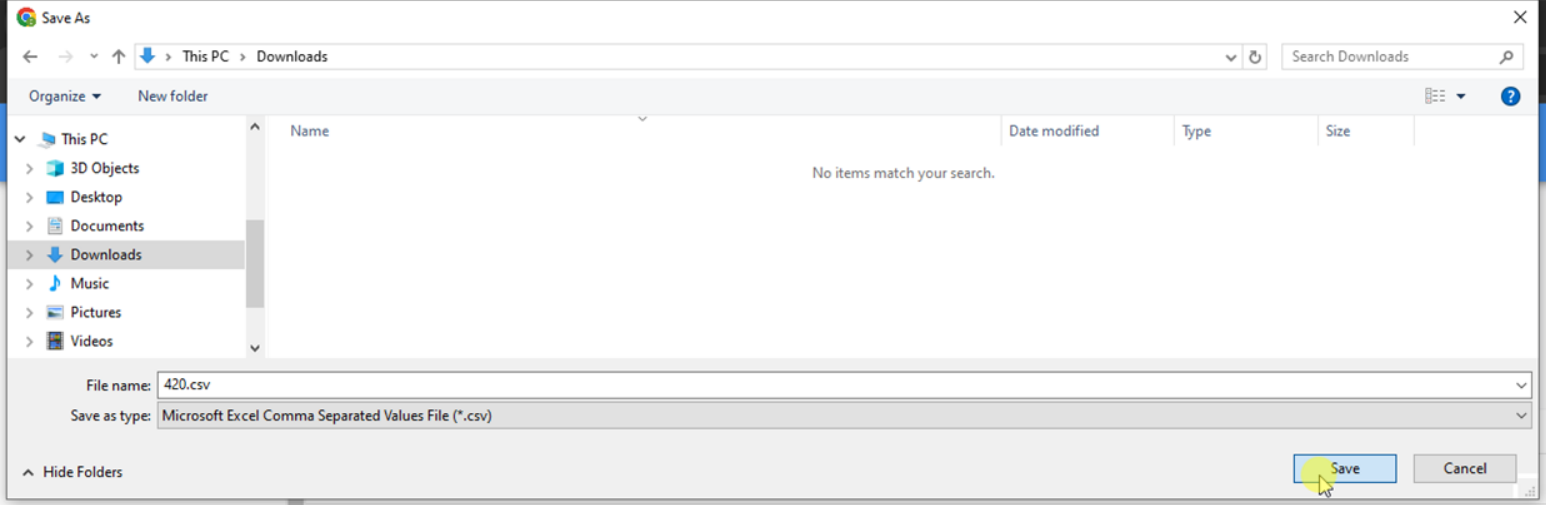
	Authentication needed	Fetch status	Verified
	🔒	✓	🛡
	🔒	✓	🛡
	🔒	✓	🛡
	🔒	✓	?

	containsRareEarthMaterial	NeodymiumPercentage	DysprosiumPercentage	PreConsumerRecycledMaterialPercentage	PostConsumerRecycledMaterialPercentage
N5ZFEsACXp2NXt	true			3	
1YgiW5k3QJZZyr	true	27.9	0.99	5	
NXdrc7s2NWx5Ln	false			15	
95qFNYtwwHjpFo	false				10
2erMfsZkJtEmR	false				
5bDm7mWtDfE2eY	true			5	

Rows per page: 10 1-6 of 6


Generic Data Viewer
https://onto-deside.ilabt.imec.be/viewer/#/420
Incognito
IDLab
INTERNET & DATA LAB
Query the Open Circularity Platform
Electronics User6
Dashboard
Custom Query Editor
Generic query examples
Construction use case
Textile use case
Extended textile use case
Evaluation June 2024 - Construction
Evaluation June 2024 - Electronics
Overview
Resilience of the sup...
REACH compliance ...
Rare Earth content o...
Recycled content of ...
CLONE AS CUSTOM QUERY
Finished in: 0s
Sources: 12
EXPORT
Authentication needed
Fetch status
Verified
?
containsRareEarthMaterial
NeodymiumPercentage
DysprosiumPercentage
PreConsumerRecycledMaterialPercentage
PostConsumerRecycledMaterialPercentage
N5ZFEsACXp2NXt
true
3
YgiW5k3QJZZyr
true
27.9
0.99
5
NXdrc7s2NWx5Ln
false
15
95qFNYtwwHjpFo
false
10
2erMfsZkJtEmR
false
SbDm7mWtDfE2eY
true
5
Rows per page:
10
1-6 of 6


Generic Data Viewer
https://onto-deside.ilabt.imec.be/viewer/#/420
Incognito
IDLab
INTERNET & DATA LAB
Query the Open Circularity Platform
Electronics User6
Dashboard
Custom Query Editor
Generic query examples
Construction use case
Textile use case
Extended textile use case
Evaluation June 2024 - Construction
Evaluation June 2024 - Electronics
Overview
Resilience of the sup...
REACH compliance ...
Rare Earth content o...
Recycled content of ...
CLONE AS CUSTOM QUERY
Finished in: 0s
Sources: 12
EXPORT
Authentication needed
Fetch status
Verified
containsRareEarthMaterial
NeodymiumPercentage
DysprosiumPercentage
PreConsumerRecycledMaterialPercentage
PostConsumerRecycledMaterialPercentage
N5ZFEsACXp2NXt
true
3
95qFNYtwwHjpFo
false
10
2erMfsZkJtEmR
false
SbDm7mWtDfE2eY
true
5
Rows per page:
10
1-6 of 6
Data results can be exported (to CSV)



Incognito

Electronics User6

CLONE AS CUSTOM QUERY

EXPORT

Extended textile use case

Evaluation June 2024 - Construction

Evaluation June 2024 - Electronics

Overview

Resilience of the sup…

REACH compliance …

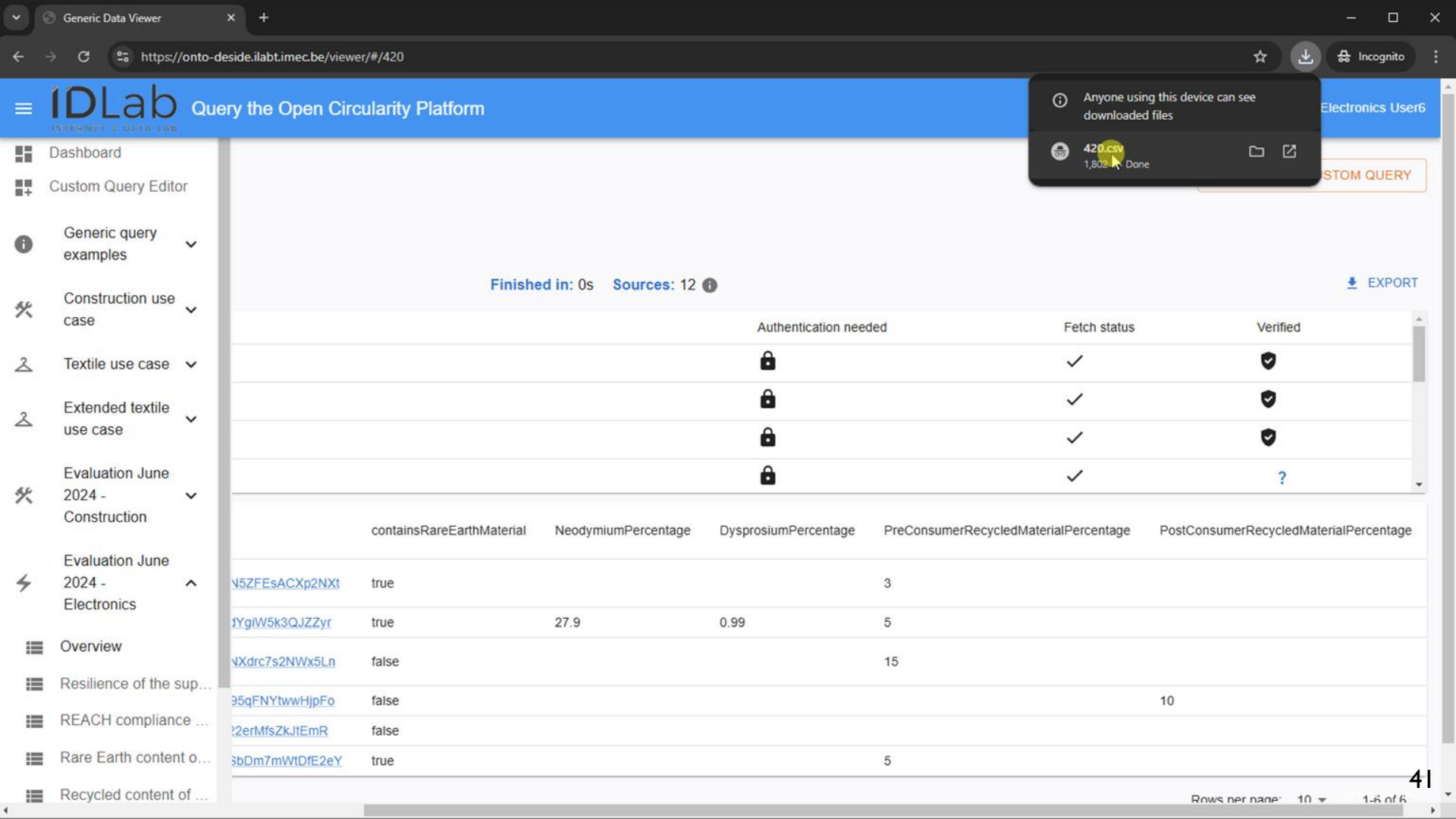
Rare Earth content o…

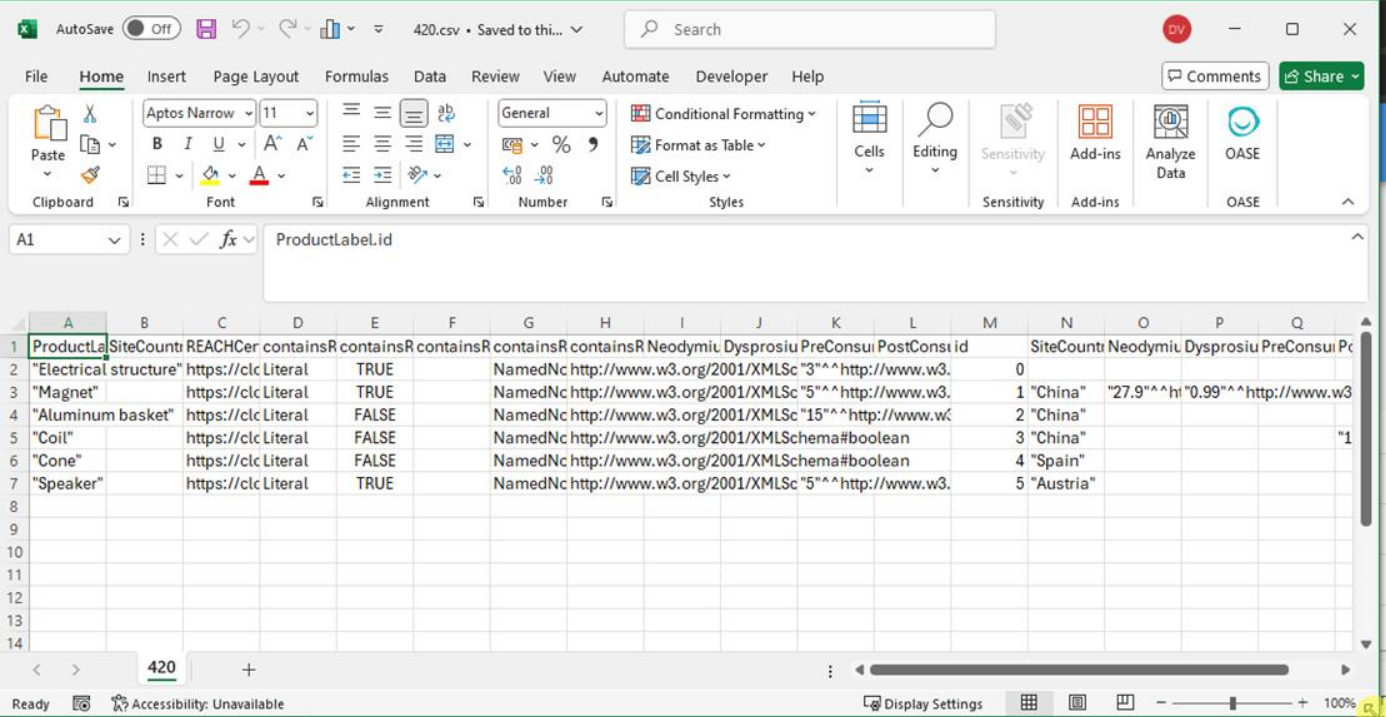
Recycled content of …

				Verified
		✓		
		✓		
		✓		?

	containsRareEarthMaterial	NeodymiumPercentage	DysprosiumPercentage	PreConsumerRecycledMaterialPercentage	PostConsumerRecycledMaterialPercentage
N5ZFEsACXp2NXt	true			3	
JYgiW5k3QJZZyr	true	27.9	0.99	5	
NXdrc7s2NWx5Ln	false			15	
95qFNYtwwHjpFo	false				10
2erMfsZkJtEmR	false				
SbDm7mWtDfE2eY	true			5	

Rows per page: 10 1-6 of 6


Generic Data Viewer
https://onto-deside.ilabt.imec.be/viewer/#/420
Incognito
IDLab
Query the Open Circularity Platform
Electronics User6
Anyone using this device can see downloaded files
420.csv
Done
Dashboard
Custom Query Editor
Generic query examples
Construction use case
Textile use case
Extended textile use case
Evaluation June 2024 - Construction
Evaluation June 2024 - Electronics
Overview
Resilience of the sup...
REACH compliance ...
Rare Earth content o...
Recycled content of ...
STOM QUERY
Finished in: 0s
Sources: 12
EXPORT
Authentication needed
Fetch status
Verified
containsRareEarthMaterial
NeodymiumPercentage
DysprosiumPercentage
PreConsumerRecycledMaterialPercentage
PostConsumerRecycledMaterialPercentage
N5ZFEsACXp2NXt
true
3
1YgiW5k3QJZZyr
true
27.9
0.99
5
NXdrc7s2NWx5Ln
false
15
95qFNYtwwHjpFo
false
10
?2erMfsZkJtEmR
false
5bDm7mWtDfE2eY
true
5
Rows per page:
10
1-6 of 6



Evaluation June 2024 - Electronics

- Overview
- Resilience of the sup...
- REACH compliance ...
- Rare Earth content o...
- Recycled content of ...

N5ZFEsACXp2NXt	true			3	
1YgiW5k3QJZZyr	true	27.9	0.99	5	
NXdrc7s2NWx5Ln	false			15	
95qFNYtwwHjpFo	false				10
2erMfsZkJtEmR	false				
5bDm7mWtDfE2eY	true			5	

PostConsumerRecycledMaterialPercentage

Rows per page: 10 1-6 of 6

Generic Data Viewer

https://onto-deside.ilabt.imec.be/viewer/#/420

Incognito

IDLab INTERNET & DATA LAB Query the Open Circularity Platform

Electronics User6

- Dashboard
- Custom Query Editor
- Generic query examples
- Construction use case
- Textile use case
- Extended textile use case
- Evaluation June 2024 - Construction
- Evaluation June 2024 - Electronics
  - Overview
  - Resilience of the sup...
  - REACH compliance ...
  - Rare Earth content o...
  - Recycled content of ...

Overview

Finished in: 0s **Sources:** 12

Sources info

Source	Authentication needed
https://onto-deside.ilabt.imec.be/css11/electronics_user1/ceon/index	
https://onto-deside.ilabt.imec.be/css11/electronics_user2/ceon/index	
https://onto-deside.ilabt.imec.be/css11/electronics_user3/ceon/index	
https://onto-deside.ilabt.imec.be/css11/electronics_user4/ceon/index	

ProductLabel	SiteCountry	REACHCertificate	containsRareEarthMaterial	NeodymiumPercentage	DysprosiumPercentage	PreConsum
Electrical structure		https://cloud.ilabt.imec.be/index.php/s/ZN5ZFEsACXp2NXt	true			3
Magnet	China	https://cloud.ilabt.imec.be/index.php/s/5dYgiW5k3QJZZyr	true	27.9	0.99	5
Aluminum basket	China	https://cloud.ilabt.imec.be/index.php/s/dNXdrc7s2NWx5Ln	false			15
Coil	China	https://cloud.ilabt.imec.be/index.php/s/P95qFNYtwwHjpFo	false			
Cone	Spain	https://cloud.ilabt.imec.be/index.php/s/k22erMfsZkJtEmR	false			
Speaker	Austria	https://cloud.ilabt.imec.be/index.php/s/sSbDm7mWtDfE2eY	true			5

Generic Data Viewer

https://onto-deside.ilabt.imec.be/viewer/#/420

Incognito

IDLab Query the Open Circularity Platform

Electronics User6

- Dashboard
- Custom Query Editor
- Generic query examples
- Construction use case
- Textile use case
- Extended textile use case
- Evaluation June 2024 - Construction
- Evaluation June 2024 - Electronics
  - Overview
  - Resilience of the s...
  - REACH compliance ...
  - Rare Earth content o...
  - Recycled content of

Overview

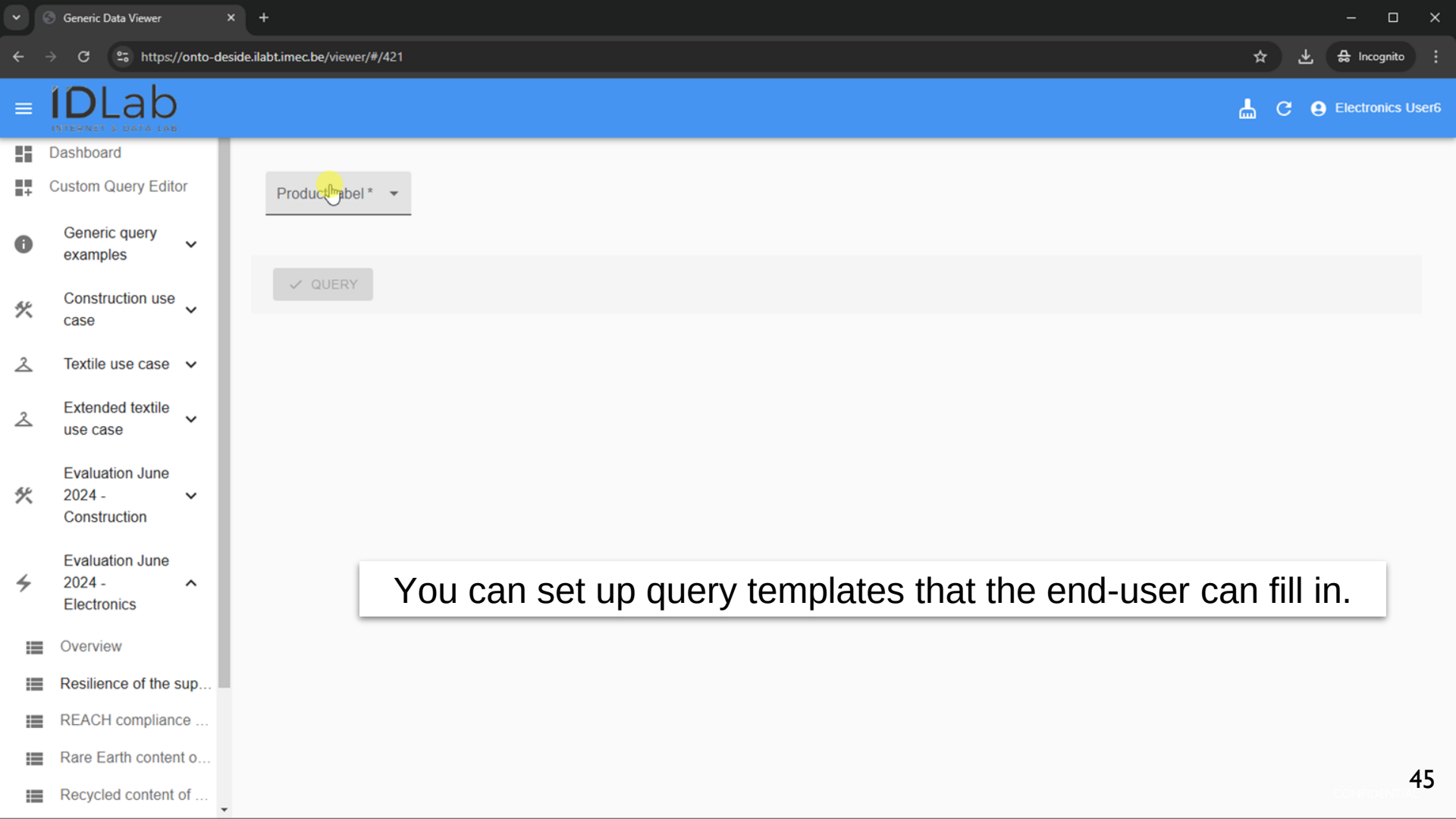
Finished in: 0s **Sources:** 12

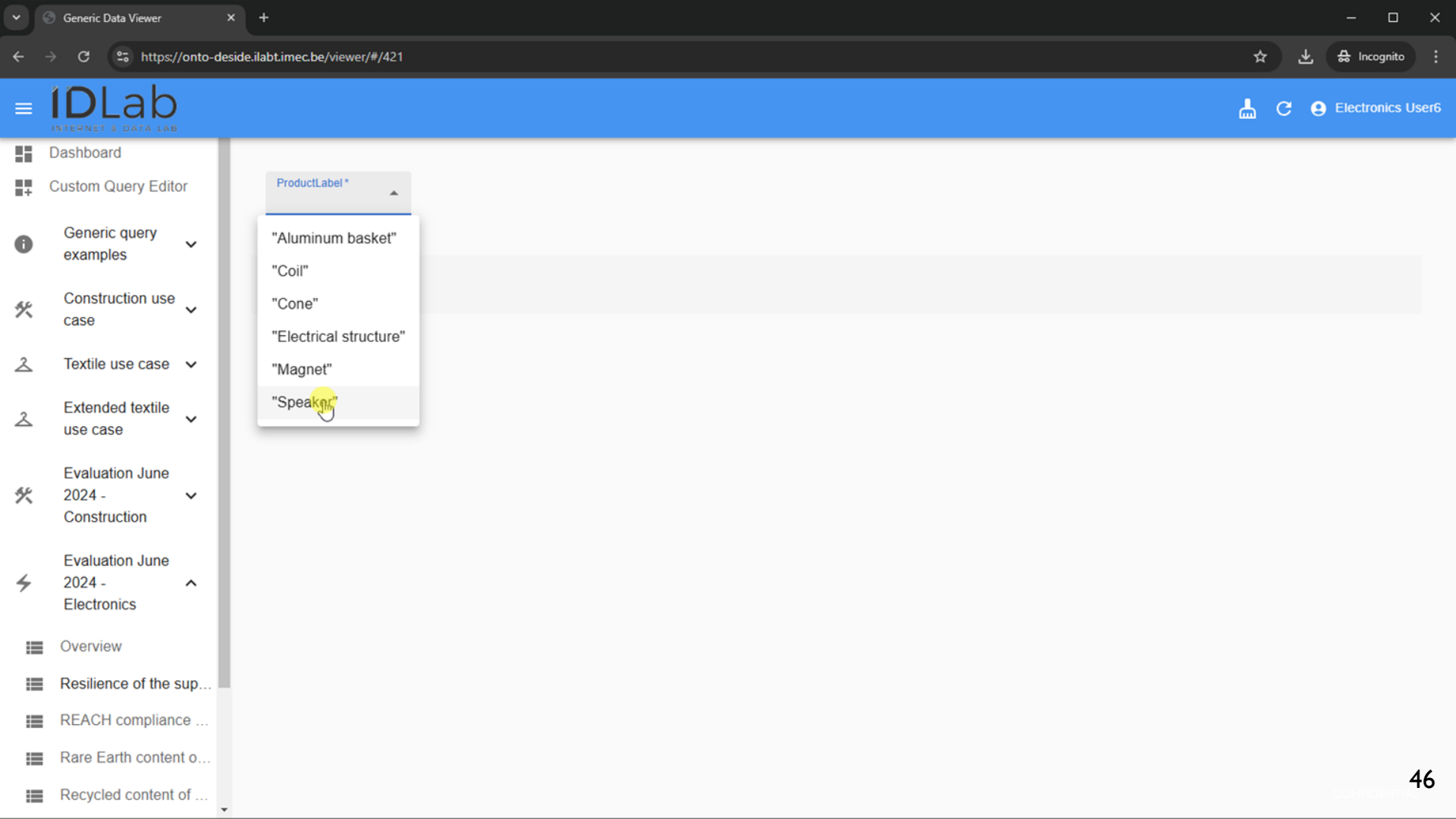
ProductLabel	SiteCountry	REACHCertificate	containsRareEarthMaterial	NeodymiumPercentage	DysprosiumPercentage	PreConsum
Electrical structure		https://cloud.ilabt.imec.be/index.php/s/ZN5ZFEsACXp2NXt	true			3
Magnet	China	https://cloud.ilabt.imec.be/index.php/s/5dYgiW5k3QJZZyr	true	27.9	0.99	5
Aluminum basket	China	https://cloud.ilabt.imec.be/index.php/s/dNXdrc7s2NWx5Ln	false			15
Coil	China	https://cloud.ilabt.imec.be/index.php/s/P95qFNYtwwHjpFo	false			
Cone	Spain	https://cloud.ilabt.imec.be/index.php/s/k22erMfsZkJtEmR	false			
Speaker	Austria	https://cloud.ilabt.imec.be/index.php/s/sSbDm7mWtDfE2eY	true			5

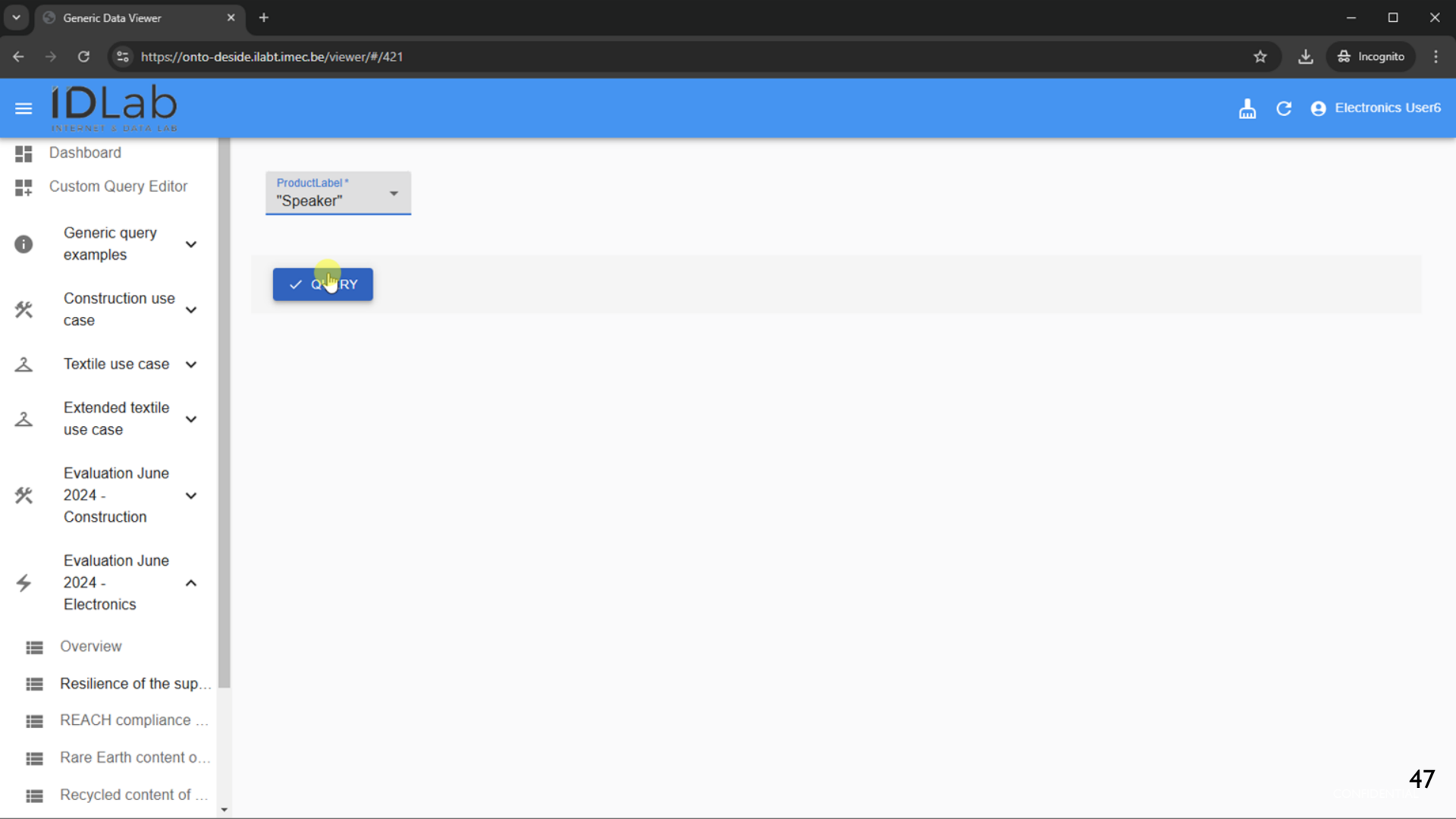
Resilience of the supply chain of a product

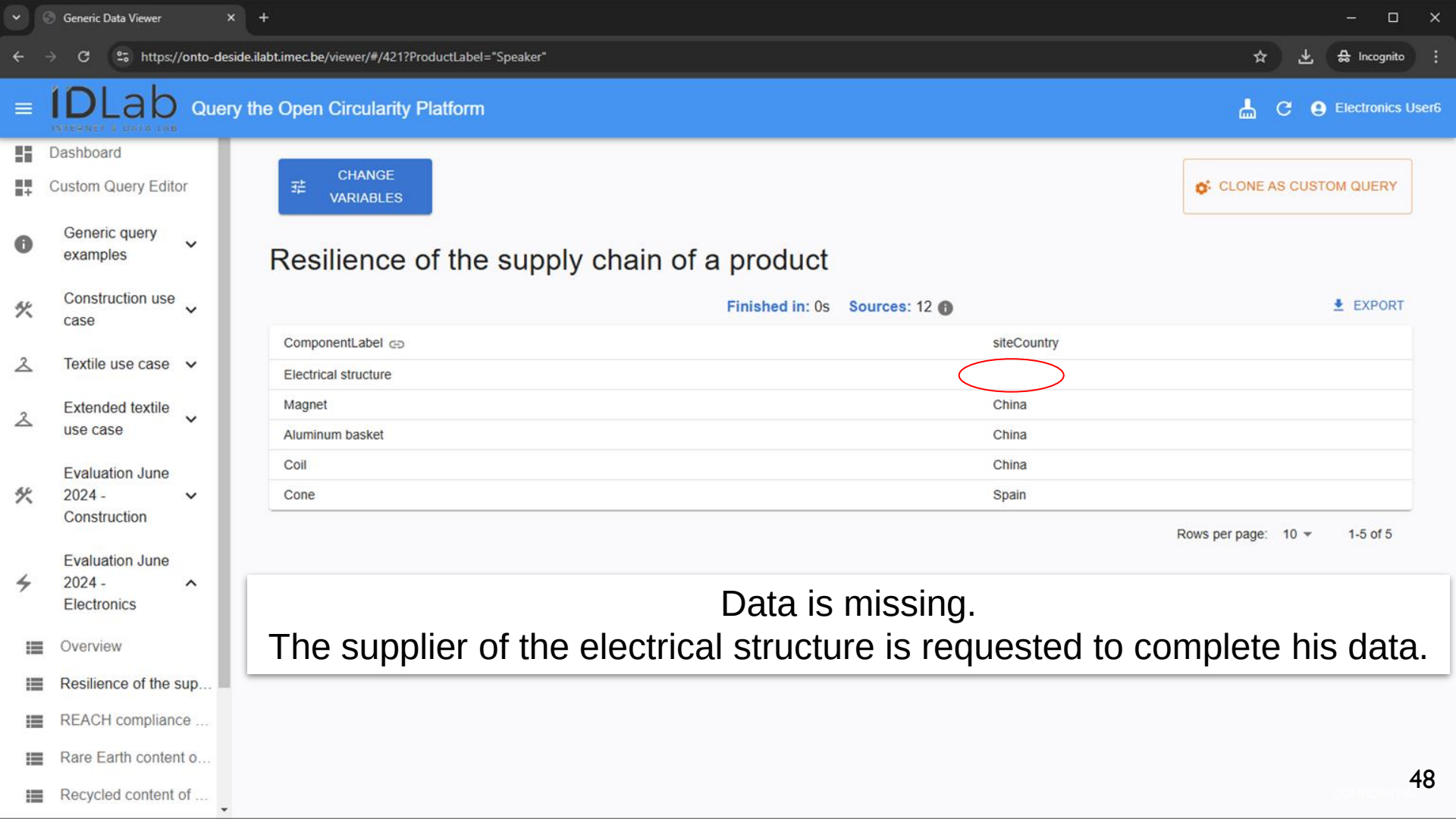
How resilient is the supply chain of a product, based on the origin of the materials?

https://onto-deside.ilabt.imec.be/viewer/#/421

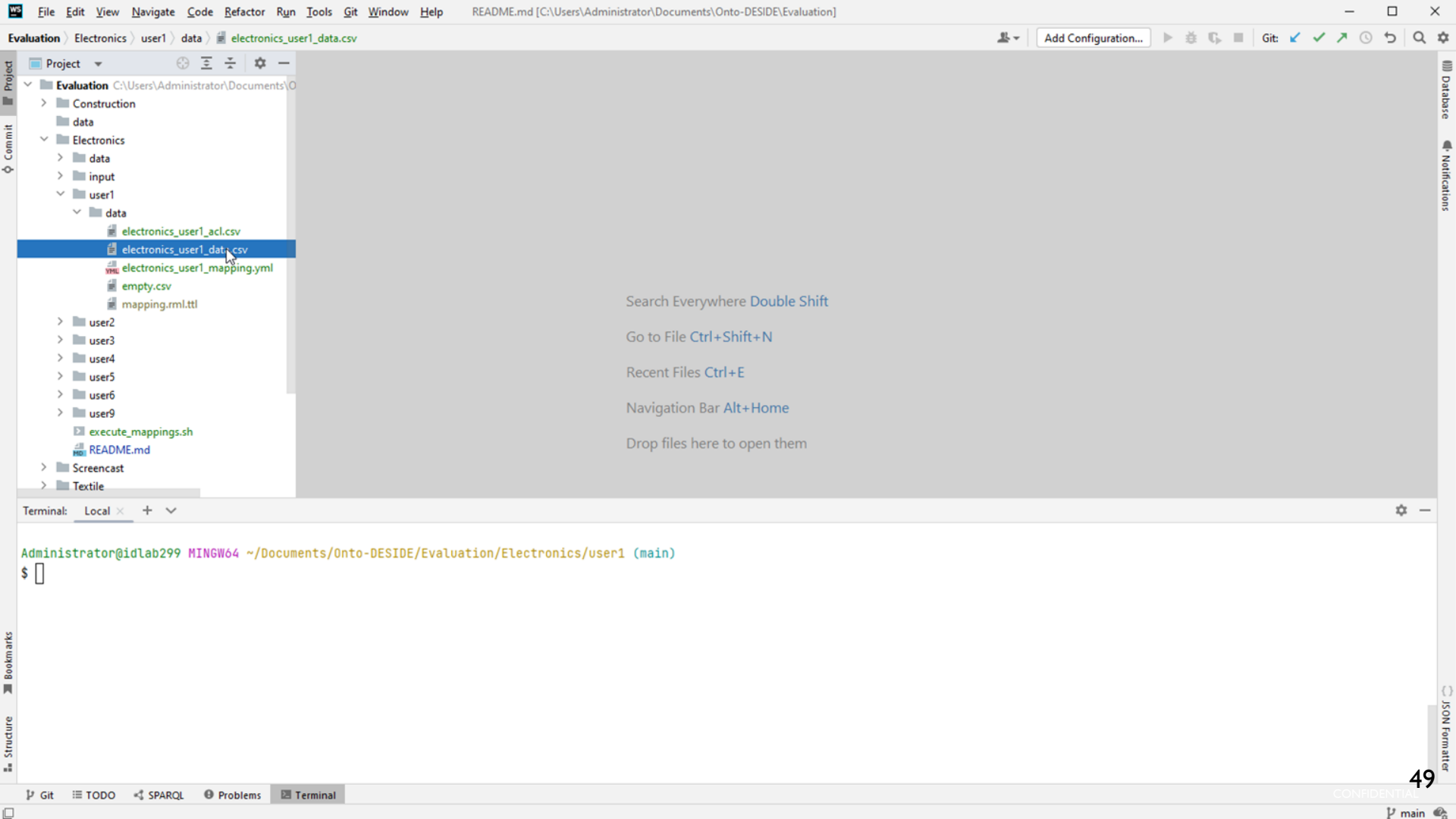

Generic Data Viewer
https://onto-deside.ilabt.imec.be/viewer/#/421
Incognito
IDLab
INTERNET & DATA LAB
Electronics User6
Dashboard
Custom Query Editor
Generic query examples
Construction use case
Textile use case
Extended textile use case
Evaluation June 2024 - Construction
Evaluation June 2024 - Electronics
Overview
Resilience of the sup...
REACH compliance ...
Rare Earth content o...
Recycled content of ...
Product label *
QUERY
You can set up query templates that the end-user can fill in.


Generic Data Viewer
https://onto-deside.ilabt.imec.be/viewer/#/421
Incognito
IDLab
INTERNET & DATA LAB
Electronics User6
Dashboard
Custom Query Editor
Generic query examples
Construction use case
Textile use case
Extended textile use case
Evaluation June 2024 - Construction
Evaluation June 2024 - Electronics
Overview
Resilience of the sup...
REACH compliance ...
Rare Earth content o...
Recycled content of ...
ProductLabel *
"Aluminum basket"
"Coil"
"Cone"
"Electrical structure"
"Magnet"
"Speaker"


Generic Data Viewer
https://onto-deside.ilabt.imec.be/viewer/#/421
Incognito
IDLab
INTERNET & DATA LAB
Electronics User6
Dashboard
Custom Query Editor
Generic query examples
Construction use case
Textile use case
Extended textile use case
Evaluation June 2024 - Construction
Evaluation June 2024 - Electronics
Overview
Resilience of the sup...
REACH compliance ...
Rare Earth content o...
Recycled content of ...
ProductLabel *
"Speaker"
QUERY



Data is missing.
The supplier of the electrical structure is requested to complete his data.


File Edit View Navigate Code Refactor Run Tools Git Window Help
README.md [C:\Users\Administrator\Documents\Onto-DESIDE\Evaluation]
Evaluation Electronics user1 data electronics_user1_data.csv
Add Configuration...
Git:
Project
Evaluation C:\Users\Administrator\Documents\O
Construction
data
Electronics
data
input
user1
data
electronics_user1_acl.csv
electronics_user1_data.csv
electronics_user1_mapping.yml
empty.csv
mapping.rml.ttl
user2
user3
user4
user5
user6
user9
execute_mappings.sh
README.md
Screencast
Textile
Search Everywhere Double Shift
Go to File Ctrl+Shift+N
Recent Files Ctrl+E
Navigation Bar Alt+Home
Drop files here to open them
Terminal: Local
Administrator@idlab299 MINGW64 ~/Documents/Onto-DESIDE/Evaluation/Electronics/user1 (main)
$
Git TODO SPARQL Problems Terminal
main

File Edit View Navigate Code Refactor Run Tools Git Window Help README.md [C:\Users\Administrator\Documents\Onto-DESIDE\Evaluation] - electronics_user1_data.csv

Evaluation 〉 Electronics 〉 user1 〉 data 〉 electronics_user1_data.csv

Add Configuration... Git:

Project

Evaluation C:\Users\Administrator\Documents\O

- Construction
- data
- Electronics
  - data
  - input
  - user1
    - data
      - electronics_user1_acl.csv
      - electronics_user1_data.csv
      - electronics_user1_mapping.yml
      - empty.csv
      - mapping.rml.ttl
  - user2
  - user3
  - user4
  - user5
  - user6
  - user9
  - execute_mappings.sh
  - README.md
- Screencast
- Textile

electronics_user1_data.csv

csv

	Label	Company code	Product name	Manufacturer name	Part Number code	Site Country	Does it contair
1	Circuits and others supplier	company2	Electrical structure	Circuits supplier	JUY9242		Yes

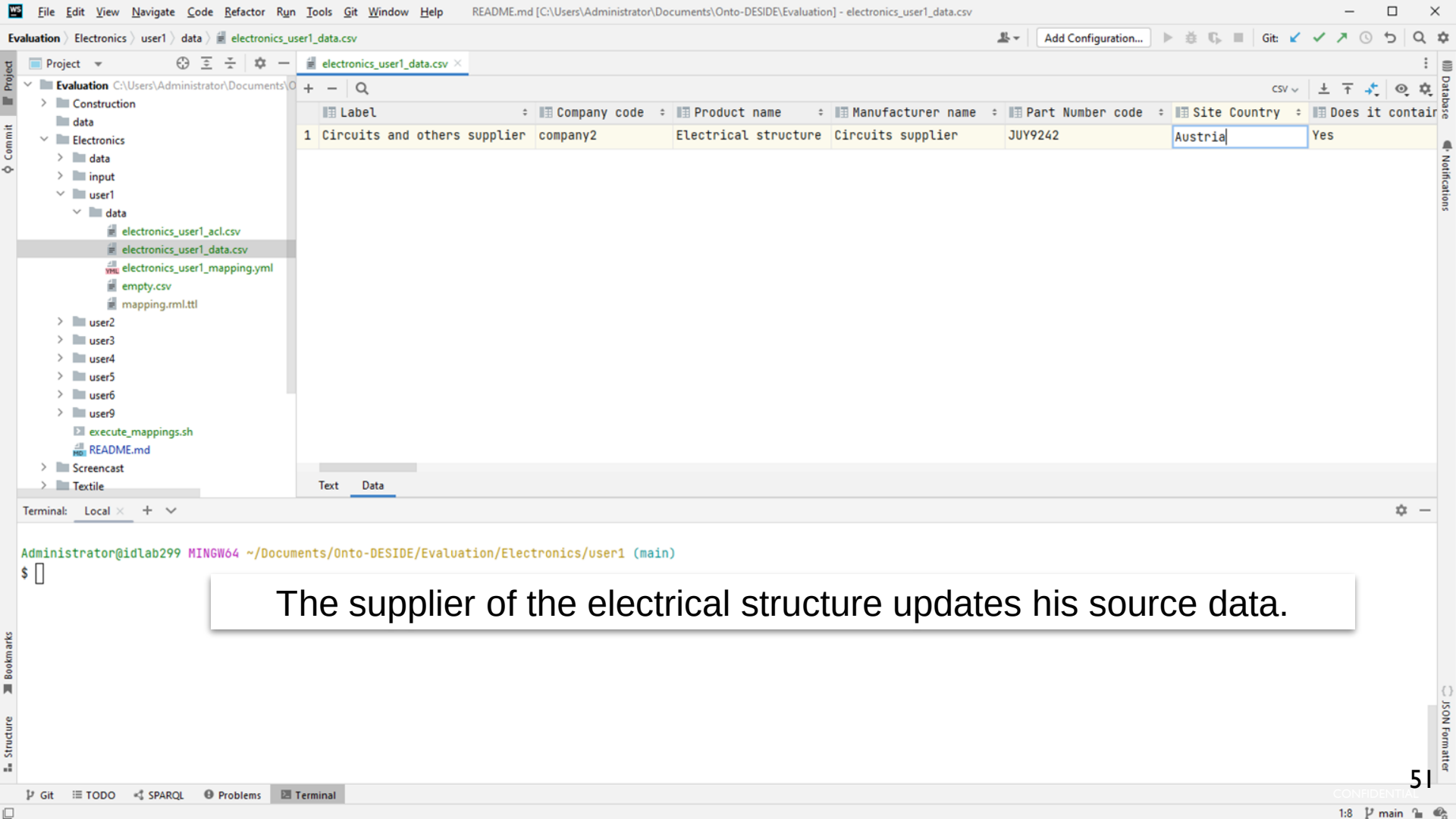
Text Data

Terminal: Local

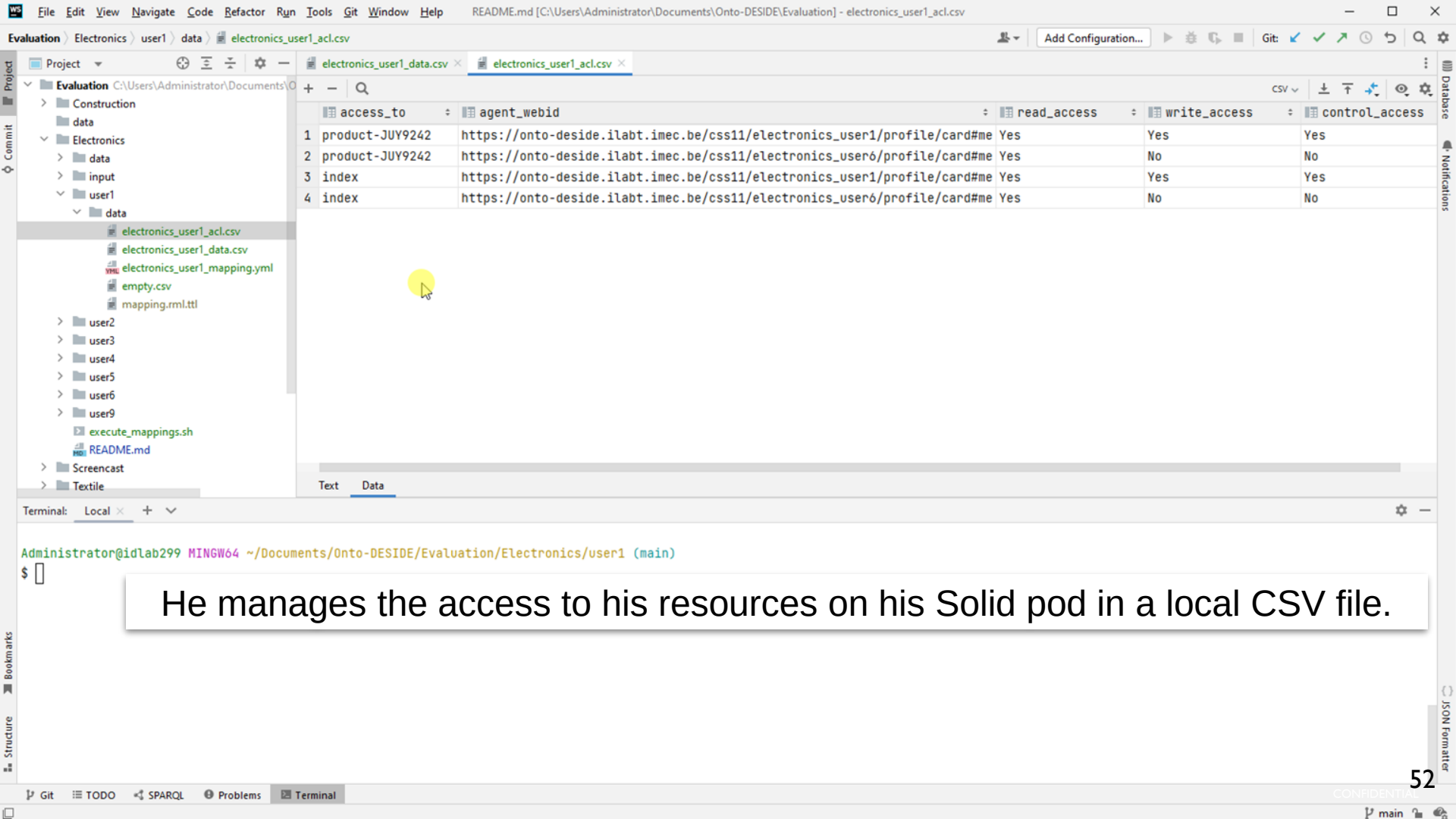
```
Administrator@idlab299 MINGW64 ~/Documents/Onto-DESIDE/Evaluation/Electronics/user1 (main)
$
```

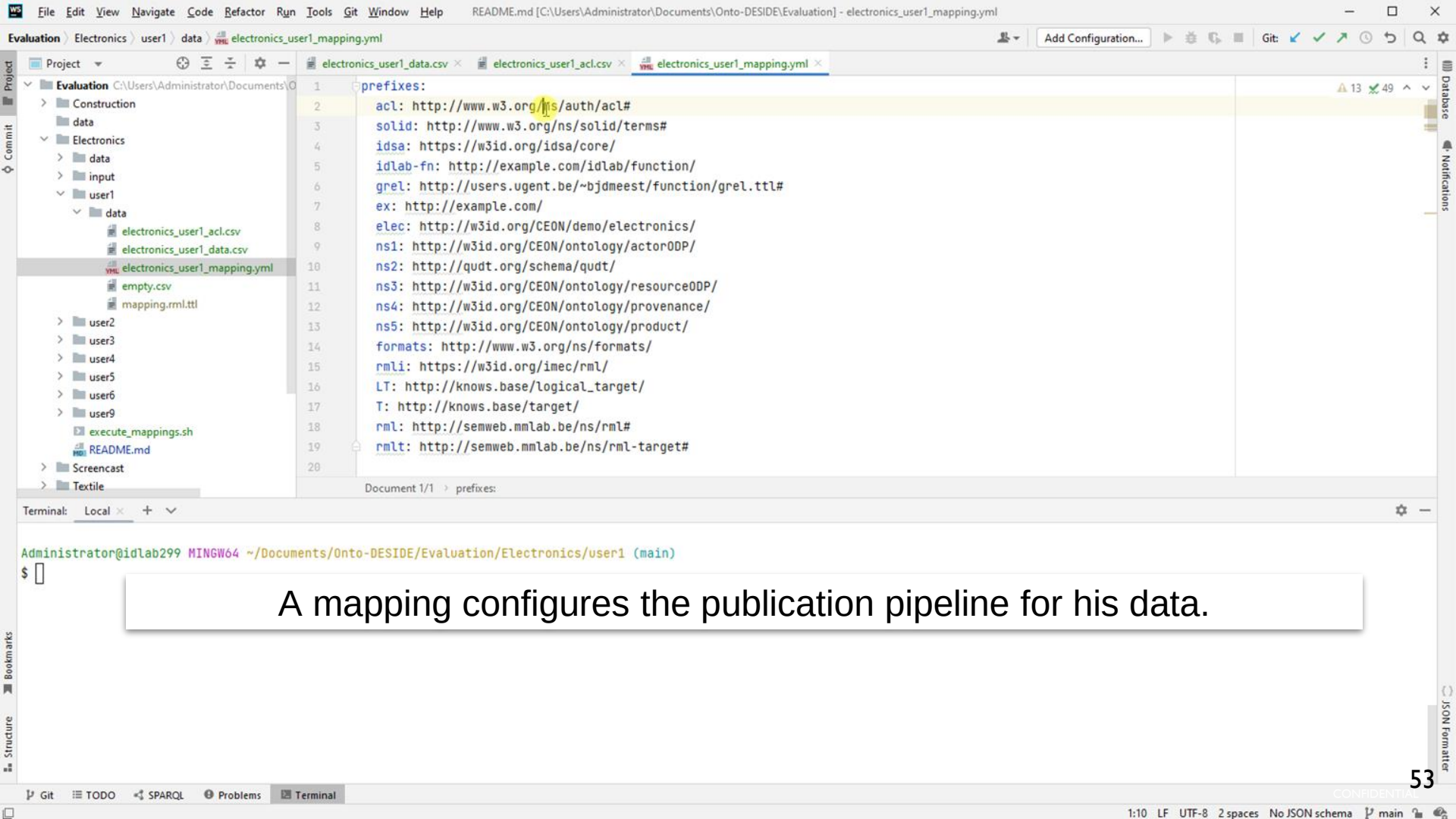
Git TODO SPARQL Problems Terminal

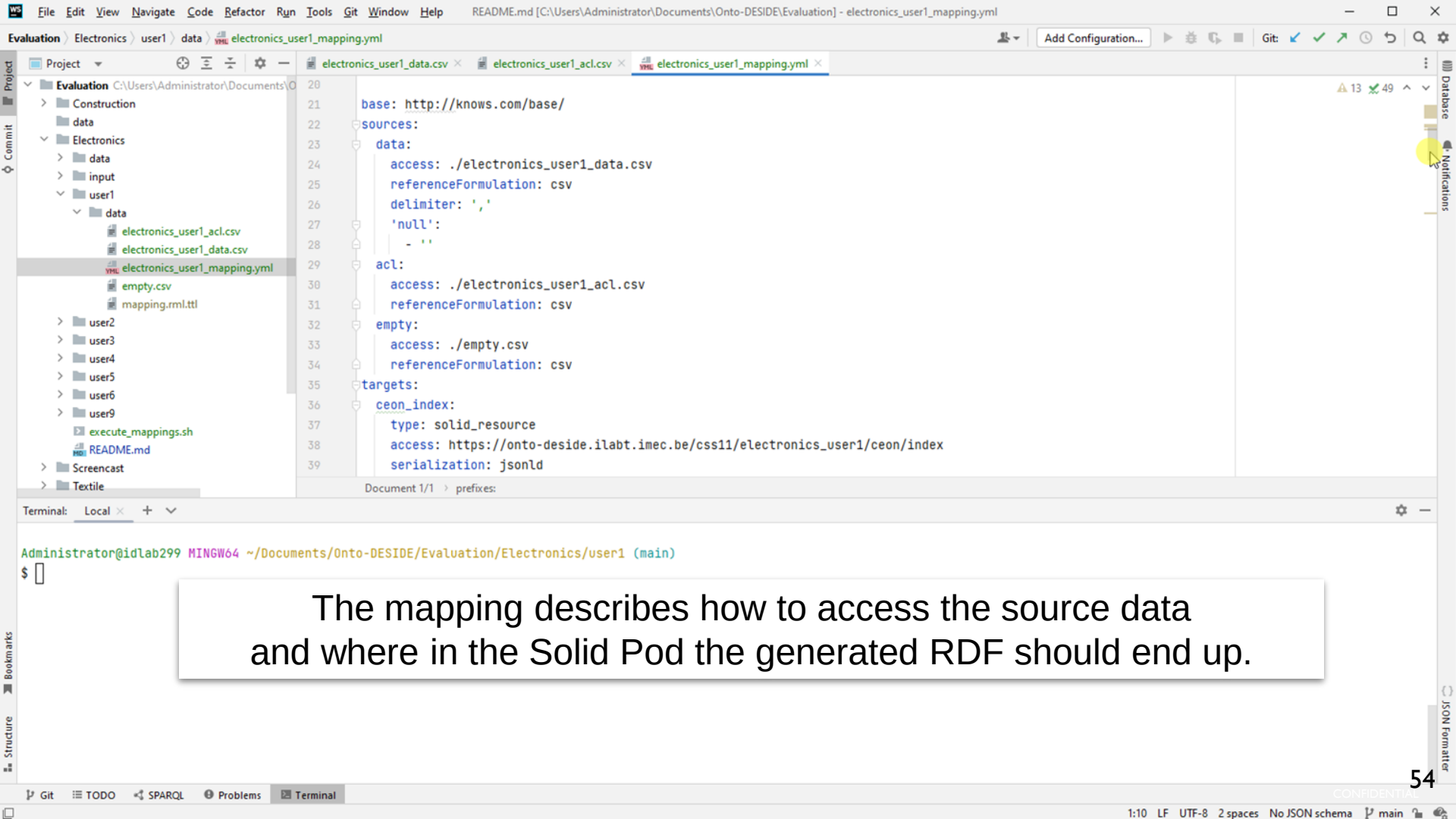
SUM: 0 1:6 main



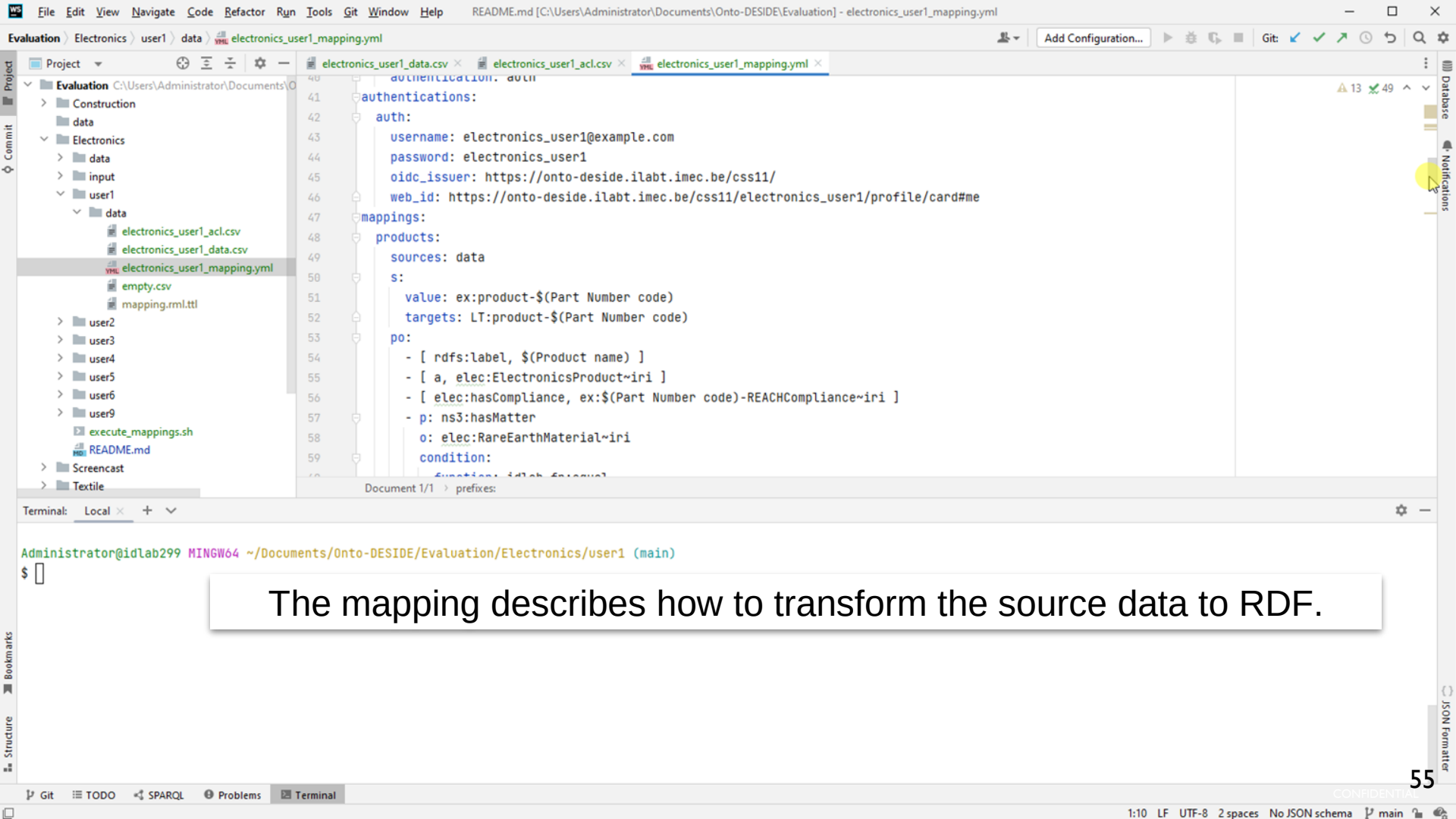
The supplier of the electrical structure updates his source data.

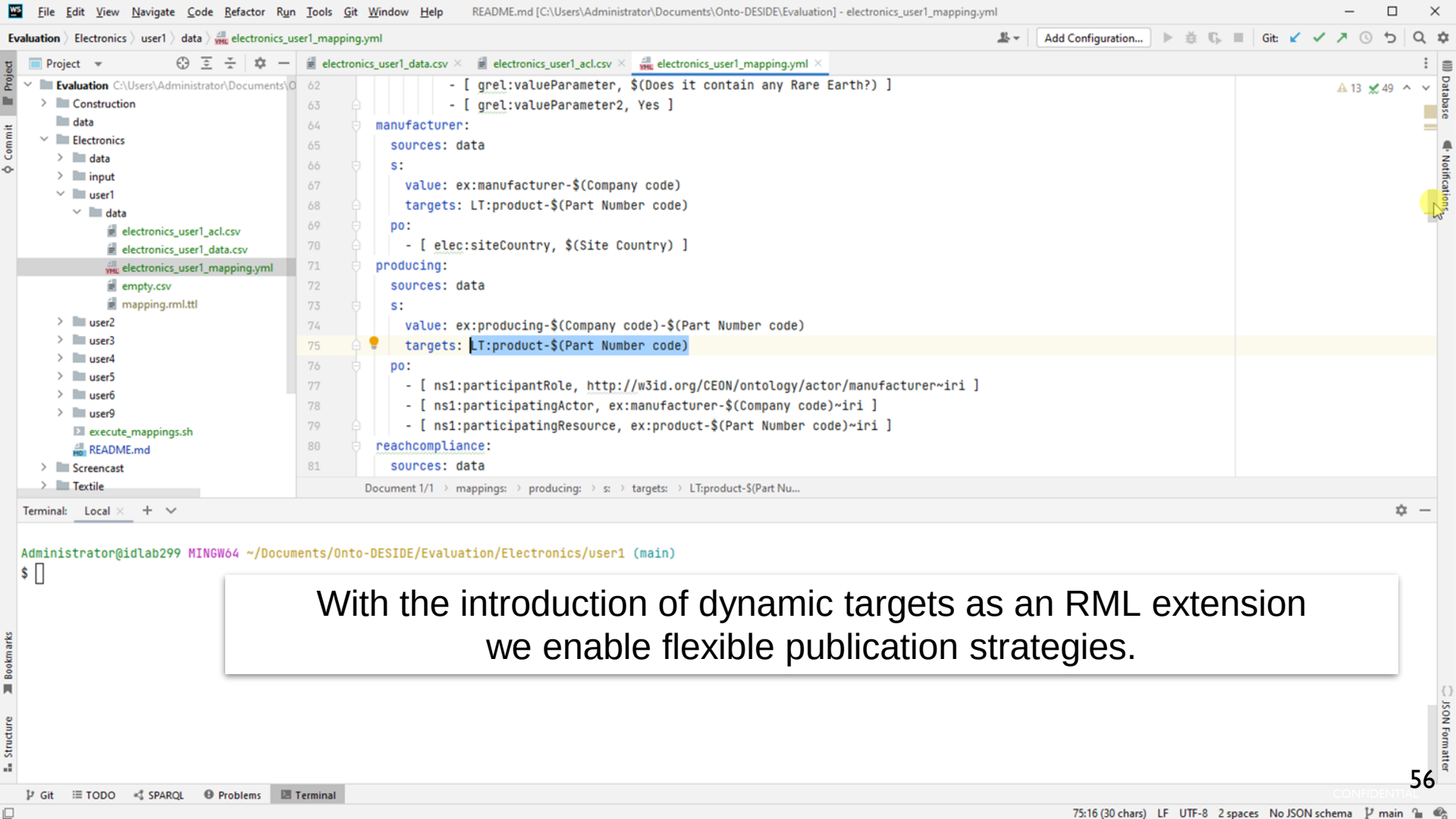

File Edit View Navigate Code Refactor Run Tools Git Window Help
README.md [C:\Users\Administrator\Documents\Onto-DESIDE\Evaluation] - electronics_user1_acl.csv
Evaluation 〉 Electronics 〉 user1 〉 data 〉 electronics_user1_acl.csv
Add Configuration...
Git:
Project
Evaluation C:\Users\Administrator\Documents\O
Construction
data
Electronics
data
input
user1
data
electronics_user1_acl.csv
electronics_user1_data.csv
electronics_user1_mapping.yml
empty.csv
mapping.rml.ttl
user2
user3
user4
user5
user6
user9
execute_mappings.sh
README.md
Screencast
Textile
electronics_user1_data.csv
electronics_user1_acl.csv
CSV
access_to agent_webid read_access write_access control_access
1 product-JUY9242 https://onto-deside.ilabt.imec.be/css11/electronics_user1/profile/card#me Yes Yes Yes
2 product-JUY9242 https://onto-deside.ilabt.imec.be/css11/electronics_user6/profile/card#me Yes No No
3 index https://onto-deside.ilabt.imec.be/css11/electronics_user1/profile/card#me Yes Yes Yes
4 index https://onto-deside.ilabt.imec.be/css11/electronics_user6/profile/card#me Yes No No
Text
Data
Terminal:
Local
Administrator@idlab299 MINGW64 ~/Documents/Onto-DESIDE/Evaluation/Electronics/user1 (main)
$
He manages the access to his resources on his Solid pod in a local CSV file.
Git
TODO
SPARQL
Problems
Terminal
main

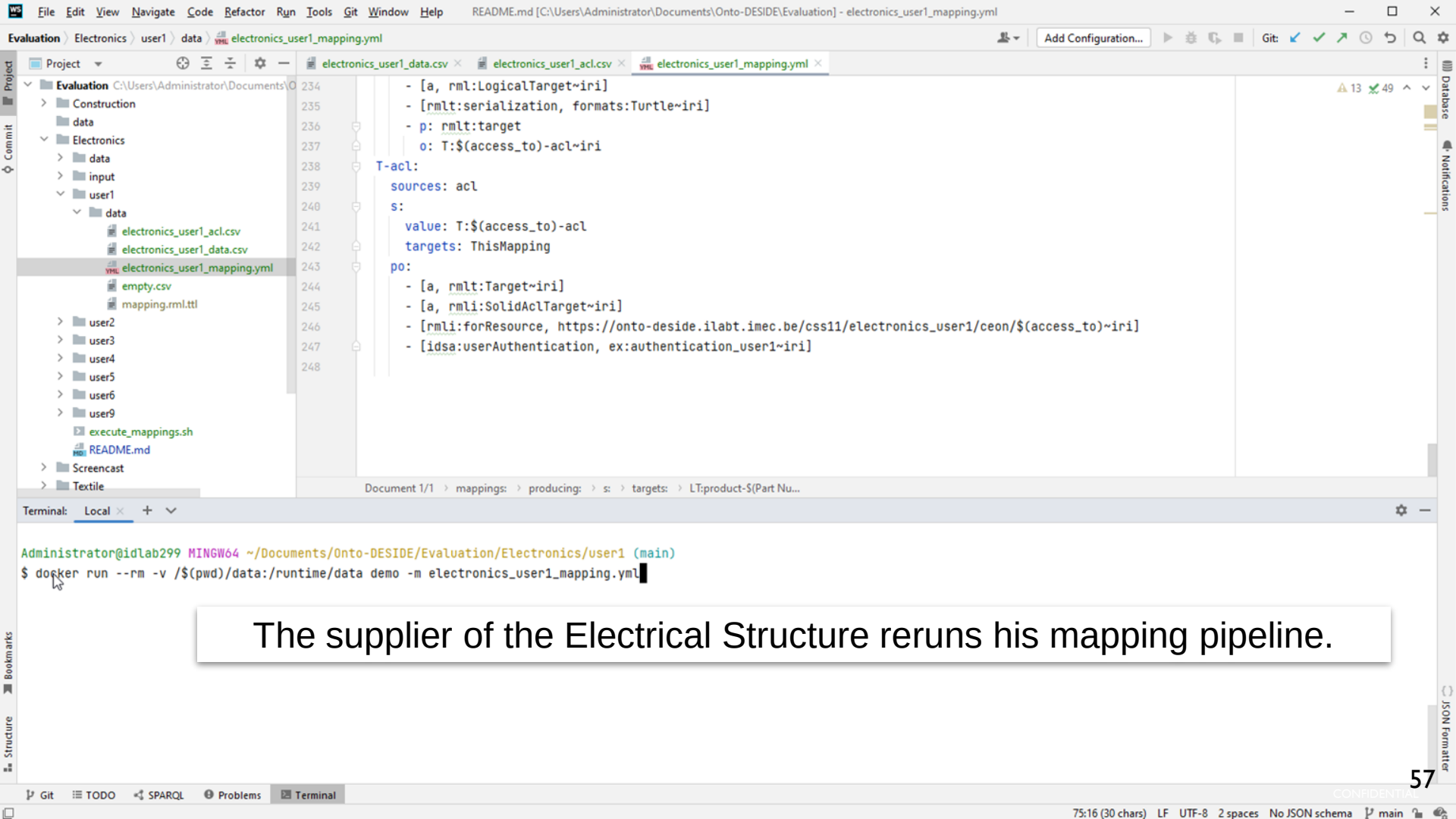

File Edit View Navigate Code Refactor Run Tools Git Window Help
README.md [C:\Users\Administrator\Documents\Onto-DESIDE\Evaluation] - electronics_user1_mapping.yml
Evaluation 〉 Electronics 〉 user1 〉 data 〉 electronics_user1_mapping.yml
Add Configuration...
Git:
Project
Evaluation C:\Users\Administrator\Documents\O
Construction
data
Electronics
data
input
user1
data
electronics_user1_acl.csv
electronics_user1_data.csv
electronics_user1_mapping.yml
empty.csv
mapping.rml.ttl
user2
user3
user4
user5
user6
user9
execute_mappings.sh
README.md
Screencast
Textile
electronics_user1_data.csv
electronics_user1_acl.csv
electronics_user1_mapping.yml
1 prefixes:
2 acl: http://www.w3.org/ns/auth/acl#
3 solid: http://www.w3.org/ns/solid/terms#
4 idsa: https://w3id.org/idsa/core/
5 idlab-fn: http://example.com/idlab/function/
6 grel: http://users.ugent.be/~bjdmeest/function/grel.ttl#
7 ex: http://example.com/
8 elec: http://w3id.org/CEON/demo/electronics/
9 ns1: http://w3id.org/CEON/ontology/actorODP/
10 ns2: http://qudt.org/schema/qudt/
11 ns3: http://w3id.org/CEON/ontology/resourceODP/
12 ns4: http://w3id.org/CEON/ontology/provenance/
13 ns5: http://w3id.org/CEON/ontology/product/
14 formats: http://www.w3.org/ns/formats/
15 rmli: https://w3id.org/imec/rml/
16 LT: http://knows.base/logical_target/
17 T: http://knows.base/target/
18 rml: http://semweb.mmlab.be/ns/rml#
19 rmlt: http://semweb.mmlab.be/ns/rml-target#
20
13 49
Document 1/1 › prefixes:
Terminal: Local
Administrator@idlab299 MINGW64 ~/Documents/Onto-DESIDE/Evaluation/Electronics/user1 (main)
$
A mapping configures the publication pipeline for his data.
Git TODO SPARQL Problems Terminal
1:10 LF UTF-8 2 spaces No JSON schema main



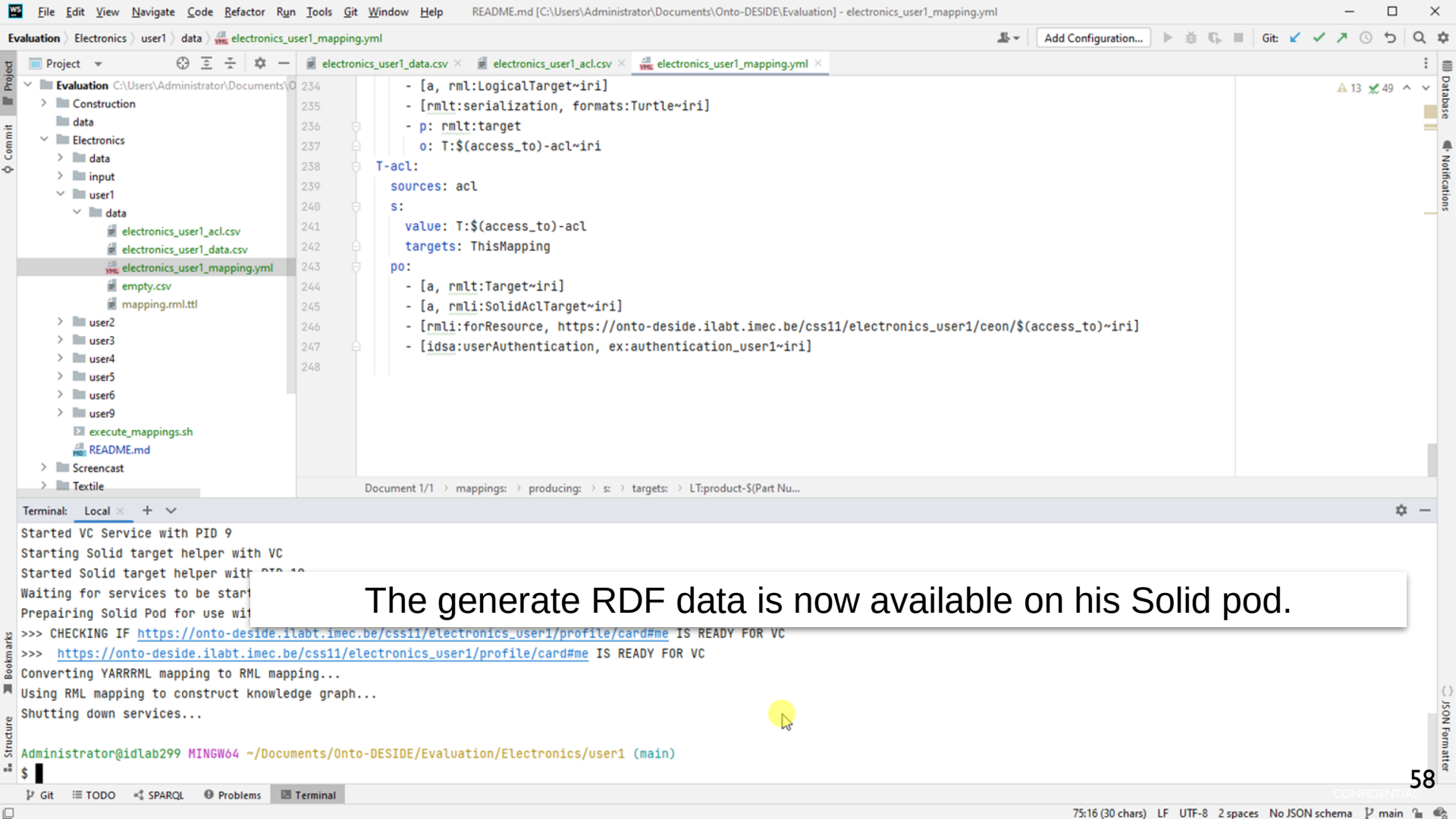
The mapping describes how to access the source data
and where in the Solid Pod the generated RDF should end up.


File Edit View Navigate Code Refactor Run Tools Git Window Help
README.md [C:\Users\Administrator\Documents\Onto-DESIDE\Evaluation] - electronics_user1_mapping.yml
Evaluation 〉 Electronics 〉 user1 〉 data 〉 electronics_user1_mapping.yml
Add Configuration...
Git:
Project
Evaluation C:\Users\Administrator\Documents\O
Construction
data
Electronics
data
input
user1
data
electronics_user1_acl.csv
electronics_user1_data.csv
electronics_user1_mapping.yml
empty.csv
mapping.rml.ttl
user2
user3
user4
user5
user6
user9
execute_mappings.sh
README.md
Screencast
Textile
electronics_user1_data.csv
electronics_user1_acl.csv
electronics_user1_mapping.yml
authentications:
auth:
username: electronics_user1@example.com
password: electronics_user1
oidc_issuer: https://onto-deside.ilabt.imec.be/css11/
web_id: https://onto-deside.ilabt.imec.be/css11/electronics_user1/profile/card#me
mappings:
products:
sources: data
s:
value: ex:product-$(Part Number code)
targets: LT:product-$(Part Number code)
po:
- [rdfs:label, $(Product name)]
- [a, elec:ElectronicsProduct~iri]
- [elec:hasCompliance, ex:$(Part Number code)-REACHCompliance~iri]
- p: ns3:hasMatter
o: elec:RareEarthMaterial~iri
condition:
13 49
Document 1/1 prefixes:
Terminal: Local
Administrator@idlab299 MINGW64 ~/Documents/Onto-DESIDE/Evaluation/Electronics/user1 (main)
$
The mapping describes how to transform the source data to RDF.
Git TODO SPARQL Problems Terminal
1:10 LF UTF-8 2 spaces No JSON schema main
Database
Notifications
JSON Formatter
Bookmarks
Structure
Commit

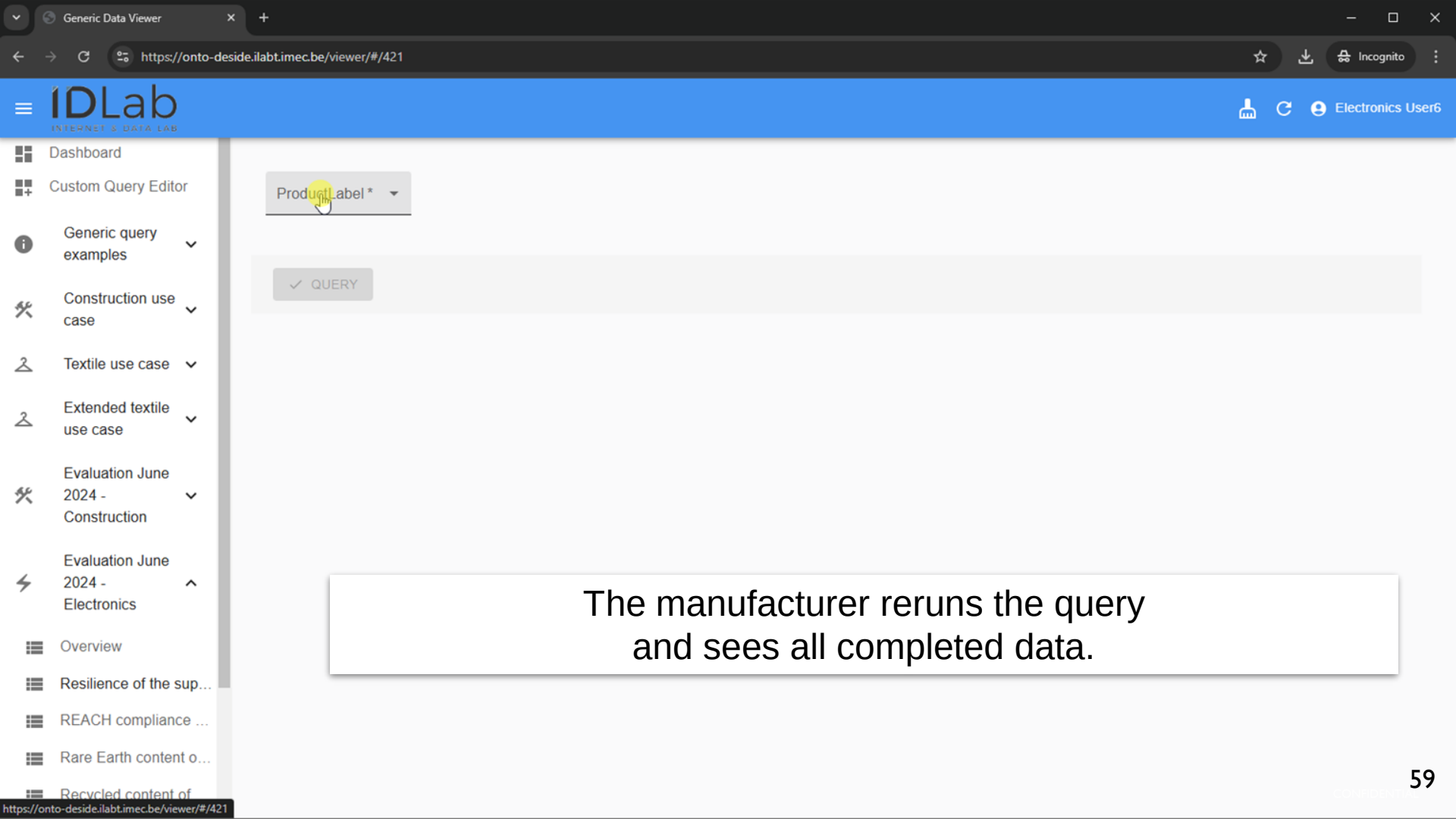

File Edit View Navigate Code Refactor Run Tools Git Window Help
README.md [C:\Users\Administrator\Documents\Onto-DESIDE\Evaluation] - electronics_user1_mapping.yml
Evaluation 〉 Electronics 〉 user1 〉 data 〉 electronics_user1_mapping.yml
Add Configuration...
Git:
Project
Evaluation C:\Users\Administrator\Documents\O
Construction
data
Electronics
data
input
user1
data
electronics_user1_acl.csv
electronics_user1_data.csv
electronics_user1_mapping.yml
empty.csv
mapping.rml.ttl
user2
user3
user4
user5
user6
user9
execute_mappings.sh
README.md
Screencast
Textile
electronics_user1_data.csv
electronics_user1_acl.csv
electronics_user1_mapping.yml
62 - [grel:valueParameter, $(Does it contain any Rare Earth?)]
63 - [grel:valueParameter2, Yes]
64 manufacturer:
65 sources: data
66 s:
67 value: ex:manufacturer-$(Company code)
68 targets: LT:product-$(Part Number code)
69 po:
70 - [elec:siteCountry, $(Site Country)]
71 producing:
72 sources: data
73 s:
74 value: ex:producing-$(Company code)-$(Part Number code)
75 targets: LT:product-$(Part Number code)
76 po:
77 - [ns1:participantRole, http://w3id.org/CEON/ontology/actor/manufacturer~iri]
78 - [ns1:participatingActor, ex:manufacturer-$(Company code)~iri]
79 - [ns1:participatingResource, ex:product-$(Part Number code)~iri]
80 reachcompliance:
81 sources: data
13 49
Document 1/1 〉 mappings: 〉 producing: 〉 s: 〉 targets: 〉 LT:product-$(Part Nu...
Terminal: Local
Administrator@idlab299 MINGW64 ~/Documents/Onto-DESIDE/Evaluation/Electronics/user1 (main)
$
With the introduction of dynamic targets as an RML extension
we enable flexible publication strategies.
Git TODO SPARQL Problems Terminal
75:16 (30 chars) LF UTF-8 2 spaces No JSON schema main

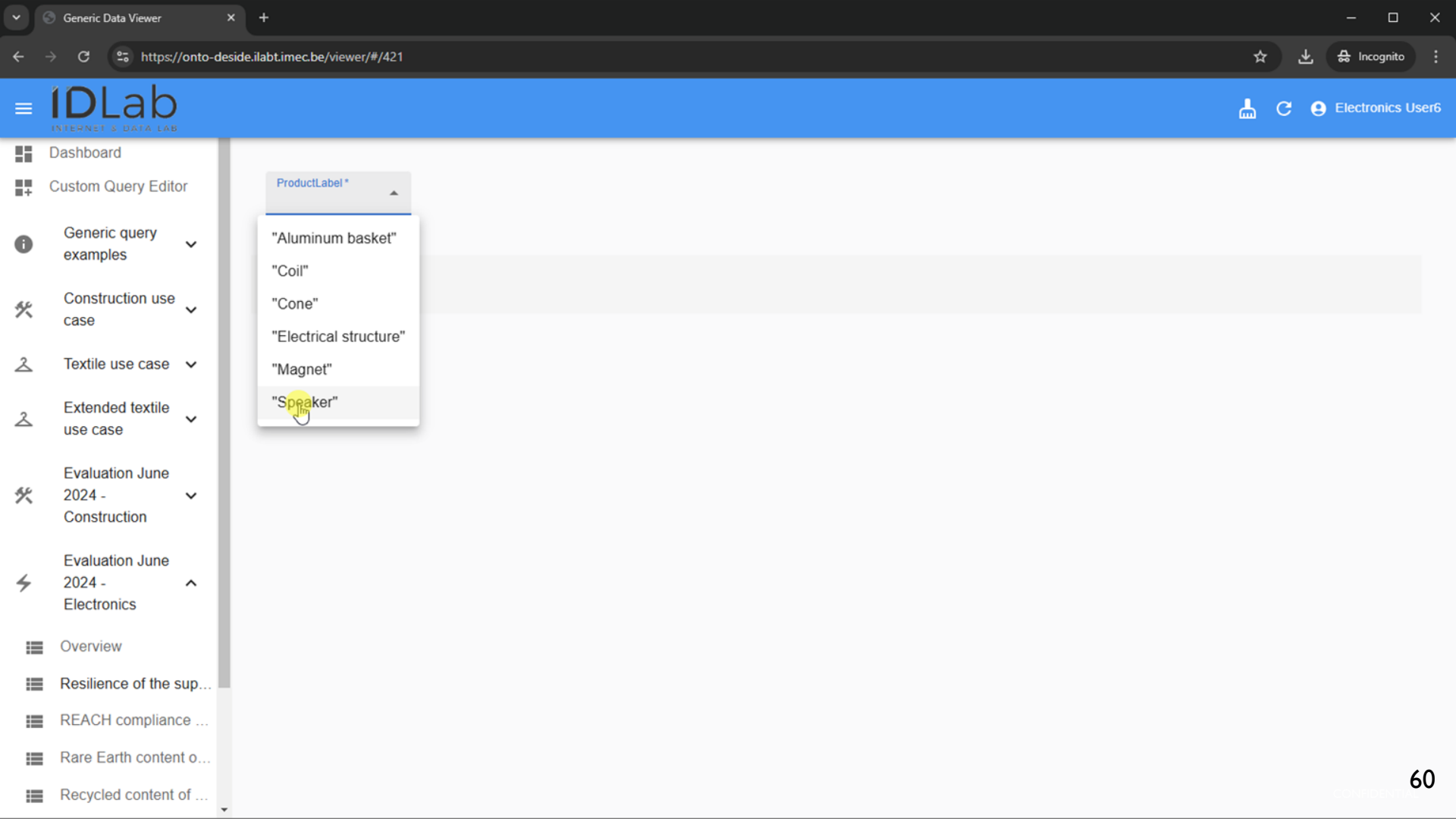


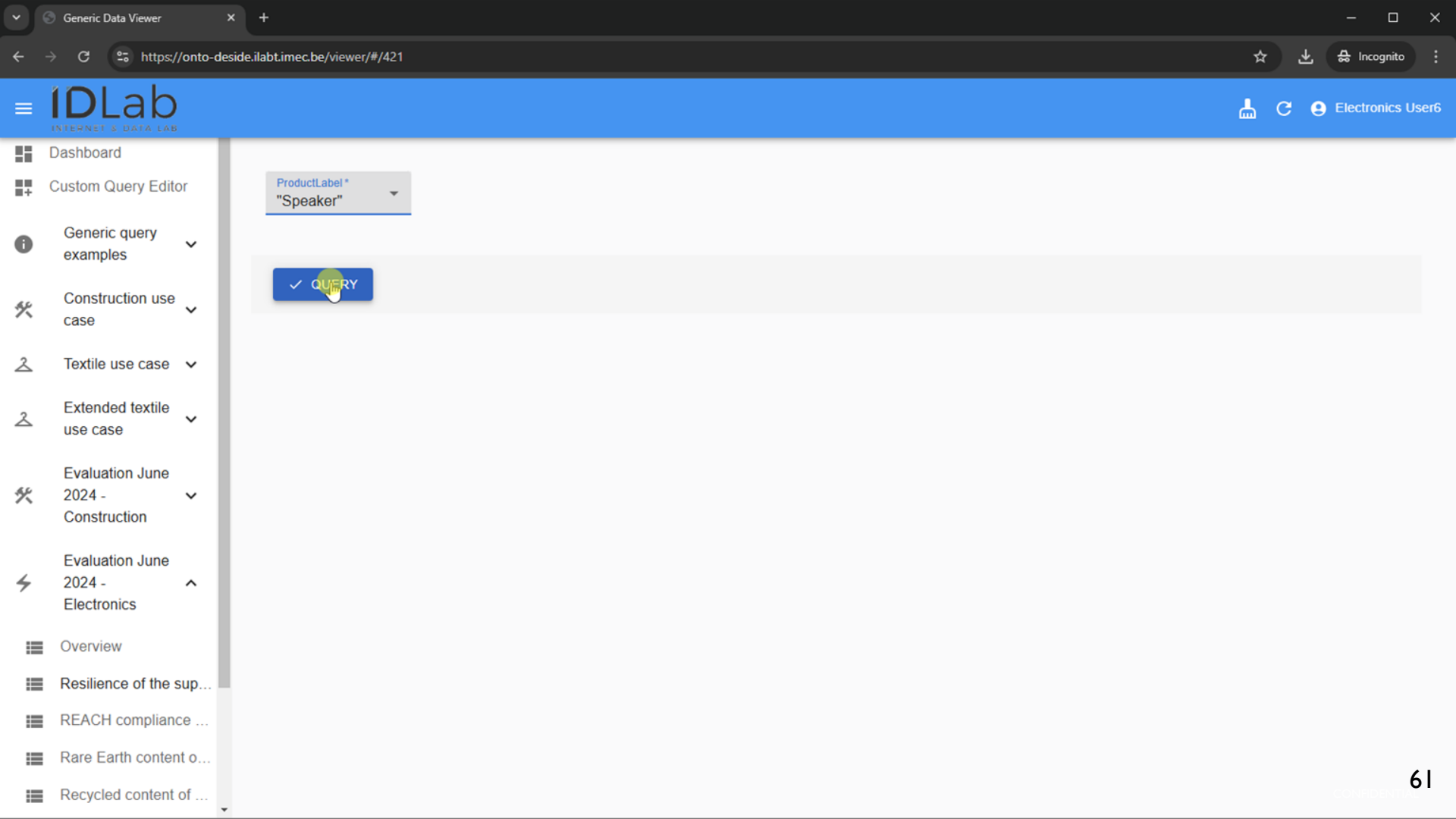
The supplier of the Electrical Structure reruns his mapping pipeline.

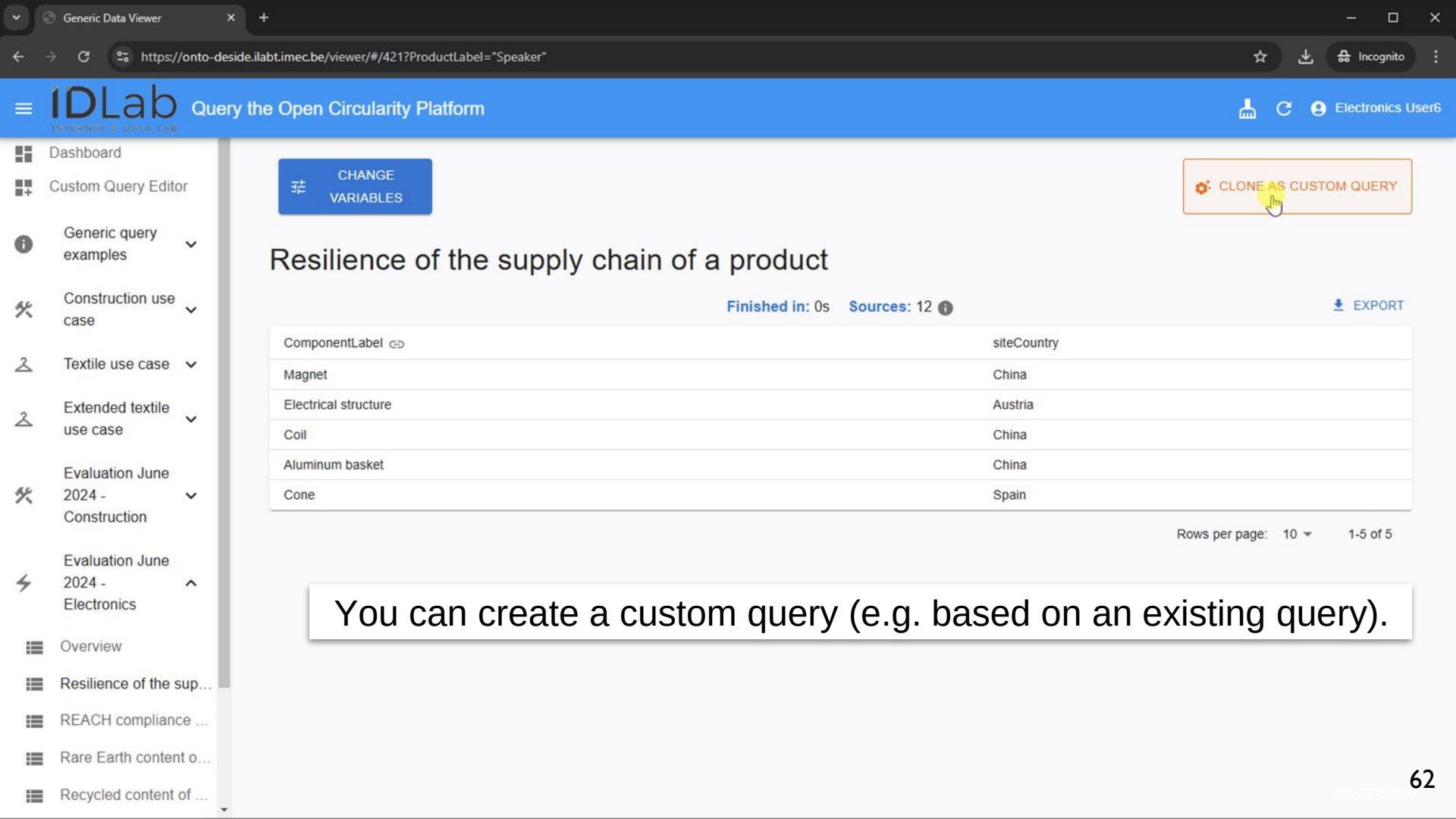


The generate RDF data is now available on his Solid pod.


Generic Data Viewer
https://onto-deside.ilabt.imec.be/viewer/#/421
Incognito
IDLab
INTERNET & DATA LAB
Electronics User6
Dashboard
Custom Query Editor
Generic query examples
Construction use case
Textile use case
Extended textile use case
Evaluation June 2024 - Construction
Evaluation June 2024 - Electronics
Overview
Resilience of the sup...
REACH compliance ...
Rare Earth content o...
Recycled content of
Product Label *
QUERY
The manufacturer reruns the query and sees all completed data.
https://onto-deside.ilabt.imec.be/viewer/#/421


Generic Data Viewer
https://onto-deside.ilabt.imec.be/viewer/#/421
Incognito
IDLab
INTERNET & DATA LAB
Electronics User6
Dashboard
Custom Query Editor
Generic query examples
Construction use case
Textile use case
Extended textile use case
Evaluation June 2024 - Construction
Evaluation June 2024 - Electronics
Overview
Resilience of the sup...
REACH compliance ...
Rare Earth content o...
Recycled content of ...
ProductLabel *
"Aluminum basket"
"Coil"
"Cone"
"Electrical structure"
"Magnet"
"Speaker"


Generic Data Viewer
https://onto-deside.ilabt.imec.be/viewer/#/421
Incognito
IDLab
INTERNET & DATA LAB
Electronics User6
Dashboard
Custom Query Editor
Generic query examples
Construction use case
Textile use case
Extended textile use case
Evaluation June 2024 - Construction
Evaluation June 2024 - Electronics
Overview
Resilience of the sup...
REACH compliance ...
Rare Earth content o...
Recycled content of ...
ProductLabel *
"Speaker"
QUERY


Generic Data Viewer
https://onto-deside.ilabt.imec.be/viewer/#/421?ProductLabel="Speaker"
Incognito
IDLab
Query the Open Circularity Platform
Electronics User6
Dashboard
Custom Query Editor
Generic query examples
Construction use case
Textile use case
Extended textile use case
Evaluation June 2024 - Construction
Evaluation June 2024 - Electronics
Overview
Resilience of the sup...
REACH compliance ...
Rare Earth content o...
Recycled content of ...
CHANGE VARIABLES
CLONE AS CUSTOM QUERY
Resilience of the supply chain of a product
Finished in: 0s
Sources: 12
EXPORT
ComponentLabel
siteCountry
Magnet
China
Electrical structure
Austria
Coil
China
Aluminum basket
China
Cone
Spain
Rows per page: 10
1-5 of 5
You can create a custom query (e.g. based on an existing query).

Generic Data Viewer

https://onto-deside.ilabt.imec.be/viewer/#/customQuery?name=%28Cloned+from%29+Resilience+of+the+supply+chain+of+a+product&description=How+resilient+is+the+supply+chain+of+...

Incognito

IDLab

Electronics User6

- Dashboard
- Custom Query Editor
- Generic query examples
- Construction use case
- Textile use case
- Extended textile use case
- Evaluation June 2024 - Construction
- Evaluation June 2024 - Electronics
  - Overview
  - Resilience of the sup...
  - REACH compliance ...
  - Rare Earth content o...
  - Recycled content of ...

Custom Query Editor

Basic Information

Query name *

(Cloned from) Resilience of the supply chain of a product

Give this custom query a name.

Description *

How resilient is the supply chain of a product, based on the origin of the materials?

Give a description for the query.

SPARQL query *

```
PREFIX schema: <http://schema.org/>
PREFIX rdfs: <http://www.w3.org/2000/01/rdf-schema#>
PREFIX ex: <http://example.com/>
PREFIX elec: <http://w3id.org/CEON/demo/electronics/>
PREFIX ns1: <http://w3id.org/CEON/ontology/actorODP/>
PREFIX ns2: <http://qudt.org/schema/qudt/>
PREFIX ns3: <http://w3id.org/CEON/ontology/resourceODP/>
PREFIX ns4: <http://w3id.org/CEON/ontology/provenance/>
PREFIX ns5: <http://w3id.org/CEON/ontology/product/>

SELECT ?ComponentLabel ?siteCountry
WHERE {
    ?product rdfs:label $ProductLabel ;
    ns5:hasProductComponent ?component .
    ?component rdfs:label ?ComponentLabel .
```

Generic Data Viewer

https://onto-deside.ilabt.imec.be/viewer/#/customQuery?name=%28Cloned+from%29+Resilience+of+the+supply+chain+of+a+product&description=How+resilient+is+the+supply+chain+of+...

Incognito

IDLab

Electronics User6

- Construction use case
- Textile use case
- Extended textile use case
- Evaluation June 2024 - Construction
- Evaluation June 2024 - Electronics
  - Overview
  - Resilience of the sup...
  - REACH compliance ...
  - Rare Earth content o...
  - Recycled content of ...
  - All accessible data
  - Sources in electronic...
- Evaluation June 2024 - Textile

Custom Query Editor

Basic Information

Query name *

(Cloned from) Resilience of the supply chain of a product

Give this custom query a name.

Description *

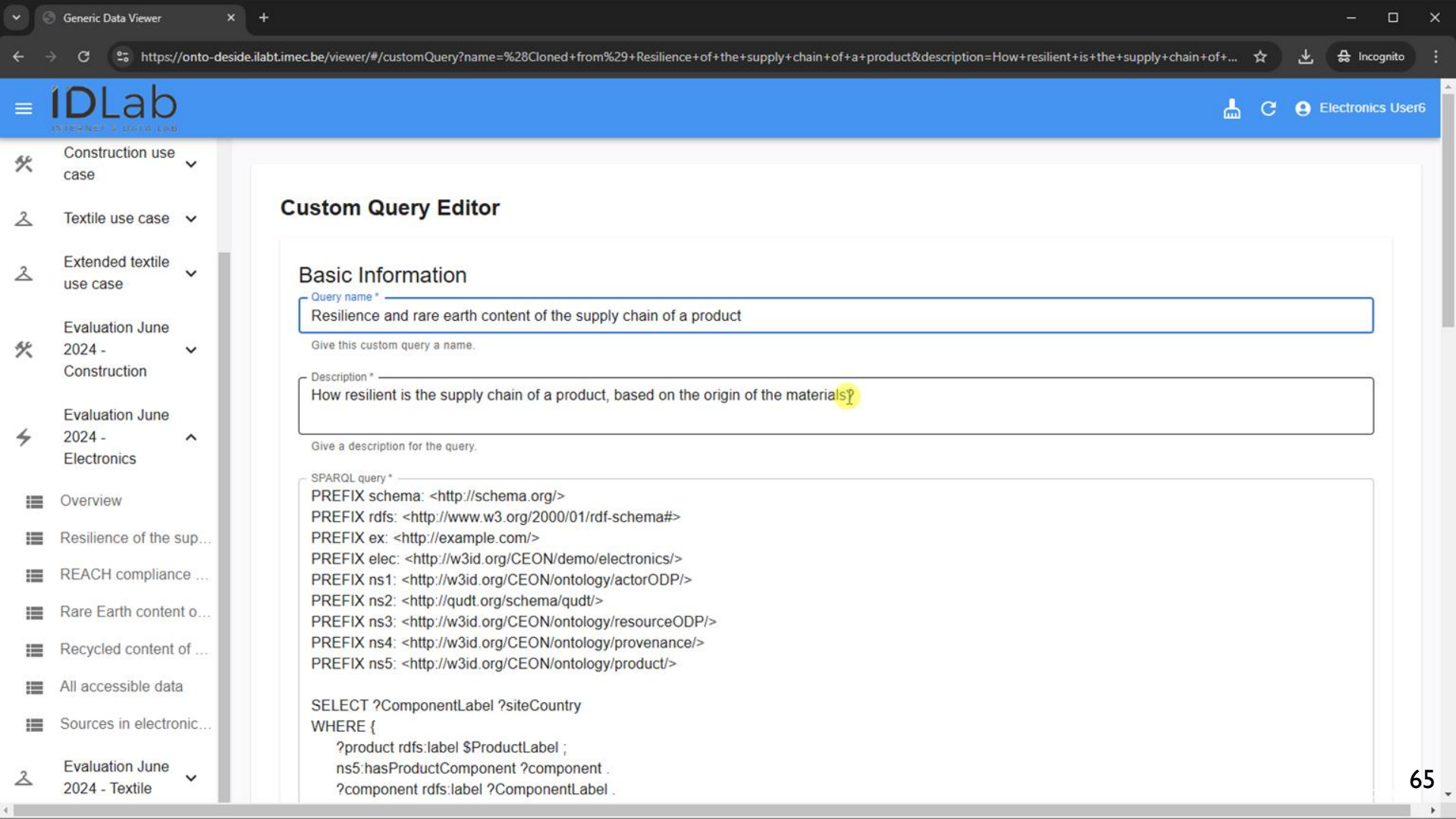
How resilient is the supply chain of a product, based on the origin of the materials?

Give a description for the query.

SPARQL query *

```
PREFIX schema: <http://schema.org/>
PREFIX rdfs: <http://www.w3.org/2000/01/rdf-schema#>
PREFIX ex: <http://example.com/>
PREFIX elec: <http://w3id.org/CEON/demo/electronics/>
PREFIX ns1: <http://w3id.org/CEON/ontology/actorODP/>
PREFIX ns2: <http://qudt.org/schema/qudt/>
PREFIX ns3: <http://w3id.org/CEON/ontology/resourceODP/>
PREFIX ns4: <http://w3id.org/CEON/ontology/provenance/>
PREFIX ns5: <http://w3id.org/CEON/ontology/product/>

SELECT ?ComponentLabel ?siteCountry
WHERE {
    ?product rdfs:label $ProductLabel ;
    ns5:hasProductComponent ?component .
    ?component rdfs:label ?ComponentLabel .
```


Generic Data Viewer
https://onto-deside.ilabt.imec.be/viewer/#/customQuery?name=%28Cloned+from%29+Resilience+of+the+supply+chain+of+a+product&description=How+resilient+is+the+supply+chain+of+...
Incognito
IDLab
Electronics User6
Construction use case
Textile use case
Extended textile use case
Evaluation June 2024 - Construction
Evaluation June 2024 - Electronics
Overview
Resilience of the sup...
REACH compliance ...
Rare Earth content o...
Recycled content of ...
All accessible data
Sources in electronic...
Evaluation June 2024 - Textile
Custom Query Editor
Basic Information
Query name *
Resilience and rare earth content of the supply chain of a product
Give this custom query a name.
Description *
How resilient is the supply chain of a product, based on the origin of the materials?
Give a description for the query.
SPARQL query *
PREFIX schema: <http://schema.org/>
PREFIX rdfs: <http://www.w3.org/2000/01/rdf-schema#>
PREFIX ex: <http://example.com/>
PREFIX elec: <http://w3id.org/CEON/demo/electronics/>
PREFIX ns1: <http://w3id.org/CEON/ontology/actorODP/>
PREFIX ns2: <http://qudt.org/schema/qudt/>
PREFIX ns3: <http://w3id.org/CEON/ontology/resourceODP/>
PREFIX ns4: <http://w3id.org/CEON/ontology/provenance/>
PREFIX ns5: <http://w3id.org/CEON/ontology/product/>
SELECT ?ComponentLabel ?siteCountry
WHERE {
?product rdfs:label $ProductLabel ;
ns5:hasProductComponent ?component .
?component rdfs:label ?ComponentLabel .

Generic Data Viewer

https://onto-deside.ilabt.imec.be/viewer/#/customQuery?name=%28Cloned+from%29+Resilience+of+the+supply+chain+of+a+product&description=How+resilient+is+the+supply+chain+of+...

Incognito

IDLab

Electronics User6

- Construction use case
- Textile use case
- Extended textile use case
- Evaluation June 2024 - Construction
- Evaluation June 2024 - Electronics
  - Overview
  - Resilience of the sup...
  - REACH compliance ...
  - Rare Earth content o...
  - Recycled content of ...
  - All accessible data
  - Sources in electronic...
- Evaluation June 2024 - Textile

Custom Query Editor

Basic Information

Query name *

Resilience and rare earth content of the supply chain of a product

Give this custom query a name.

Description *

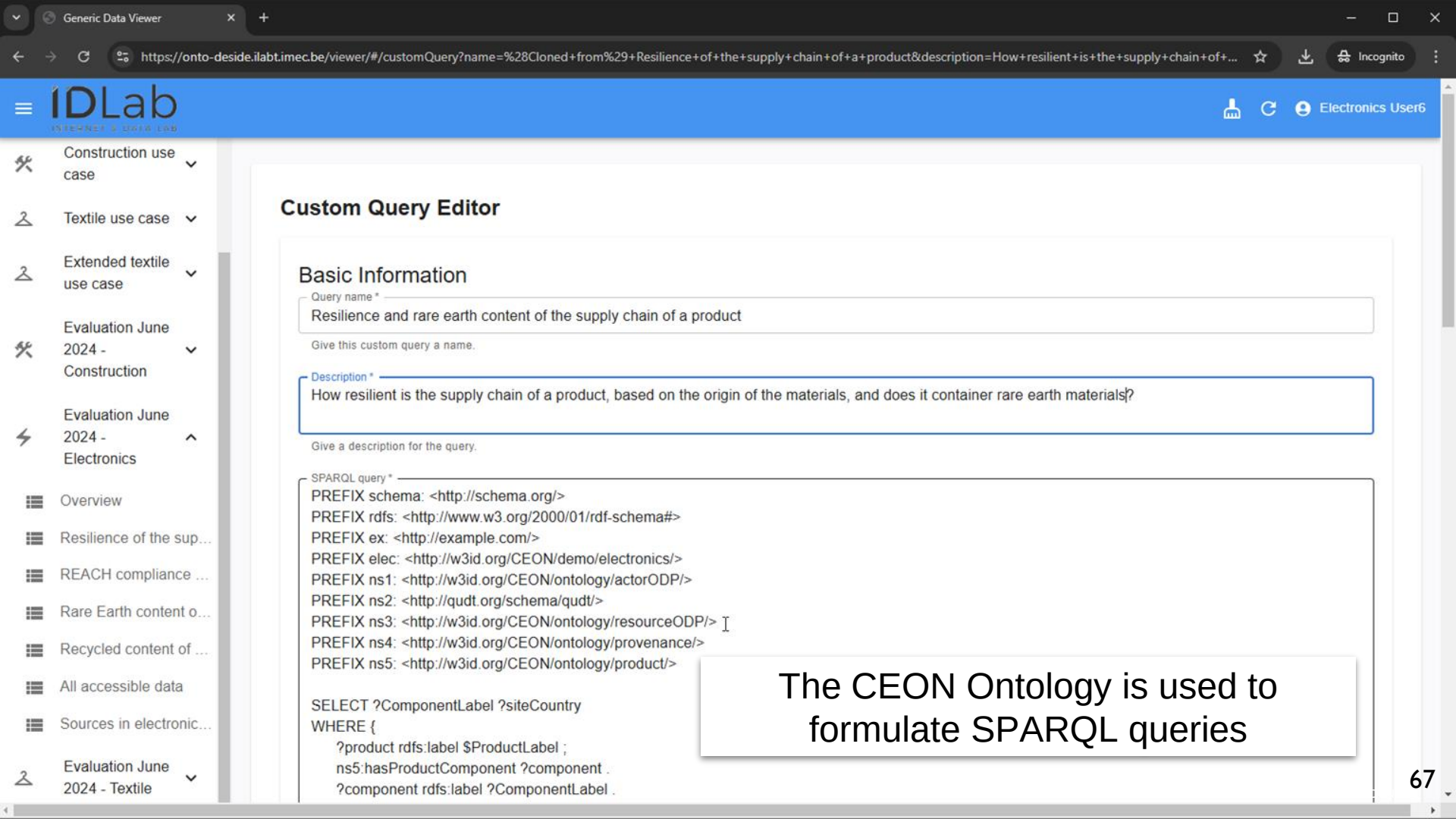
How resilient is the supply chain of a product, based on the origin of the materials?

Give a description for the query.

SPARQL query *

```
PREFIX schema: <http://schema.org/>
PREFIX rdfs: <http://www.w3.org/2000/01/rdf-schema#>
PREFIX ex: <http://example.com/>
PREFIX elec: <http://w3id.org/CEON/demo/electronics/>
PREFIX ns1: <http://w3id.org/CEON/ontology/actorODP/>
PREFIX ns2: <http://qudt.org/schema/qudt/>
PREFIX ns3: <http://w3id.org/CEON/ontology/resourceODP/>
PREFIX ns4: <http://w3id.org/CEON/ontology/provenance/>
PREFIX ns5: <http://w3id.org/CEON/ontology/product/>

SELECT ?ComponentLabel ?siteCountry
WHERE {
    ?product rdfs:label $ProductLabel ;
    ns5:hasProductComponent ?component .
    ?component rdfs:label ?ComponentLabel .
```


Generic Data Viewer
https://onto-deside.ilabt.imec.be/viewer/#/customQuery?name=%28Cloned+from%29+Resilience+of+the+supply+chain+of+a+product&description=How+resilient+is+the+supply+chain+of+...
Incognito
IDLab
Electronics User6
Construction use case
Textile use case
Extended textile use case
Evaluation June 2024 - Construction
Evaluation June 2024 - Electronics
Overview
Resilience of the sup...
REACH compliance ...
Rare Earth content o...
Recycled content of ...
All accessible data
Sources in electronic...
Evaluation June 2024 - Textile
Custom Query Editor
Basic Information
Query name *
Resilience and rare earth content of the supply chain of a product
Give this custom query a name.
Description *
How resilient is the supply chain of a product, based on the origin of the materials, and does it container rare earth materials?
Give a description for the query.
SPARQL query *
PREFIX schema: <http://schema.org/>
PREFIX rdfs: <http://www.w3.org/2000/01/rdf-schema#>
PREFIX ex: <http://example.com/>
PREFIX elec: <http://w3id.org/CEON/demo/electronics/>
PREFIX ns1: <http://w3id.org/CEON/ontology/actorODP/>
PREFIX ns2: <http://qudt.org/schema/qudt/>
PREFIX ns3: <http://w3id.org/CEON/ontology/resourceODP/>
PREFIX ns4: <http://w3id.org/CEON/ontology/provenance/>
PREFIX ns5: <http://w3id.org/CEON/ontology/product/>
SELECT ?ComponentLabel ?siteCountry
WHERE {
?product rdfs:label $ProductLabel ;
ns5:hasProductComponent ?component .
?component rdfs:label ?ComponentLabel .
The CEON Ontology is used to formulate SPARQL queries

Construction use case
Textile use case
Extended textile use case
Evaluation June 2024 - Construction
Evaluation June 2024 - Electronics
Overview
Resilience of the sup...
REACH compliance ...
Rare Earth content o...
Recycled content of ...
All accessible data
Sources in electronic...
Evaluation June 2024 - Textile

Basic Information

Query name *
Resilience and rare earth content of the supply chain of a product

Give this custom query a name.

Description *
How resilient is the supply chain of a product, based on the origin of the materials, and does it container rare earth materials?

Give a description for the query.

SPARQL query *

```
PREFIX schema: <http://schema.org/>
PREFIX rdfs: <http://www.w3.org/2000/01/rdf-schema#>
PREFIX ex: <http://example.com/>
PREFIX elec: <http://w3id.org/CEON/demo/electronics/>
PREFIX ns1: <http://w3id.org/CEON/ontology/actorODP/>
PREFIX ns2: <http://qudt.org/schema/qudt/>
PREFIX ns3: <http://w3id.org/CEON/ontology/resourceODP/>
PREFIX ns4: <http://w3id.org/CEON/ontology/provenance/>
PREFIX ns5: <http://w3id.org/CEON/ontology/product/>

SELECT ?ComponentLabel ?siteCountry
WHERE {
    ?product rdfs:label $ProductLabel ;
    ns5:hasProductComponent ?component .
    ?component rdfs:label ?ComponentLabel .
    OPTIONAL {
        ?s1 ns1:participantRole <http://w3id.org/CEON/ontology/actor/manufacturer>;
        ns1:participatingActor ?company ;
        ns1:participatingResource ?component .
        ?company elec:siteCountry ?siteCountry.
    }
}
```

Construction use case
Textile use case
Extended textile use case
Evaluation June 2024 - Construction
Evaluation June 2024 - Electronics
Overview
Resilience of the sup...
REACH compliance ...
Rare Earth content o...
Recycled content of ...
All accessible data
Sources in electronic...
Evaluation June 2024 - Textile

Basic Information

Query name *
Resilience and rare earth content of the supply chain of a product

Give this custom query a name.

Description *
How resilient is the supply chain of a product, based on the origin of the materials, and does it container rare earth materials?

Give a description for the query.

SPARQL query *

```
PREFIX schema: <http://schema.org/>
PREFIX rdfs: <http://www.w3.org/2000/01/rdf-schema#>
PREFIX ex: <http://example.com/>
PREFIX elec: <http://w3id.org/CEON/demo/electronics/>
PREFIX ns1: <http://w3id.org/CEON/ontology/actorODP/>
PREFIX ns2: <http://qudt.org/schema/qudt/>
PREFIX ns3: <http://w3id.org/CEON/ontology/resourceODP/>
PREFIX ns4: <http://w3id.org/CEON/ontology/provenance/>
PREFIX ns5: <http://w3id.org/CEON/ontology/product/>

SELECT ?ComponentLabel ?siteCountry
WHERE {
    ?product rdfs:label $ProductLabel ;
    ns5:hasProductComponent ?component .
    ?component rdfs:label ?ComponentLabel .
    OPTIONAL {
       ?s1 ns1:participantRole <http://w3id.org/CEON/ontology/actor/manufacturer>;
       ns1:participatingActor ?company ;
       ns1:participatingResource ?component .
       ?company elec:siteCountry ?siteCountry.
    }
}
```

Generic Data Viewer

https://onto-deside.ilabt.imec.be/viewer/#/customQuery?name=%28Cloned+from%29+Resilience+of+the+supply+chain+of+a+product&description=How+resilient+is+the+supply+chain+of+...

Incognito

- Construction use case
- Textile use case
- Extended textile use case
- Evaluation June 2024 - Construction
- Evaluation June 2024 - Electronics
  - Overview
  - Resilience of the sup...
  - REACH compliance ...
  - Rare Earth content o...
  - Recycled content of ...
  - All accessible data
  - Sources in electronic...
- Evaluation June 2024 - Textile

Query name *

Resilience and rare earth content of the supply chain of a product

Give this custom query a name.

Description *

How resilient is the supply chain of a product, based on the origin of the materials, and does it container rare earth materials?

Give a description for the query.

SPARQL query *

```
PREFIX schema: <http://schema.org/>
PREFIX rdfs: <http://www.w3.org/2000/01/rdf-schema#>
PREFIX ex: <http://example.com/>
PREFIX elec: <http://w3id.org/CEON/demo/electronics/>
PREFIX ns1: <http://w3id.org/CEON/ontology/actorODP/>
PREFIX ns2: <http://qudt.org/schema/qudt/>
PREFIX ns3: <http://w3id.org/CEON/ontology/resourceODP/>
PREFIX ns4: <http://w3id.org/CEON/ontology/provenance/>
PREFIX ns5: <http://w3id.org/CEON/ontology/product/>

SELECT ?ComponentLabel ?siteCountry
WHERE {
    ?product rdfs:label $ProductLabel ;
    ns5:hasProductComponent ?component .
    ?component rdfs:label ?ComponentLabel .
    OPTIONAL {
       ?s1 ns1:participantRole <http://w3id.org/CEON/ontology/actor/manufacturer>;
       ns1:participatingActor ?company ;
       ns1:participatingResource ?component .
       ?company elec:siteCountry ?siteCountry.
    }
       OPTIONAL {
          ?component ns3:hasMatter elec:RareEarthMaterial.
          BIND ( elec:RareEarthMaterial AS ?RareEarthMaterial).
       }
```

Generic Data Viewer

https://onto-deside.ilabt.imec.be/viewer/#/customQuery?name=%28Cloned+from%29+Resilience+of+the+supply+chain+of+a+product&description=How+resilient+is+the+supply+chain+of+...

Incognito

- Construction use case
- Textile use case
- Extended textile use case
- Evaluation June 2024 - Construction
- Evaluation June 2024 - Electronics
  - Overview
  - Resilience of the sup...
  - REACH compliance ...
  - Rare Earth content o...
  - Recycled content of ...
  - All accessible data
  - Sources in electronic...
- Evaluation June 2024 - Textile

Query name *

Resilience and rare earth content of the supply chain of a product

Give this custom query a name.

Description *

How resilient is the supply chain of a product, based on the origin of the materials, and does it container rare earth materials?

Give a description for the query.

SPARQL query *

```
PREFIX schema: <http://schema.org/>
PREFIX rdfs: <http://www.w3.org/2000/01/rdf-schema#>
PREFIX ex: <http://example.com/>
PREFIX elec: <http://w3id.org/CEON/demo/electronics/>
PREFIX ns1: <http://w3id.org/CEON/ontology/actorODP/>
PREFIX ns2: <http://qudt.org/schema/qudt/>
PREFIX ns3: <http://w3id.org/CEON/ontology/resourceODP/>
PREFIX ns4: <http://w3id.org/CEON/ontology/provenance/>
PREFIX ns5: <http://w3id.org/CEON/ontology/product/>

SELECT ?ComponentLabel ?siteCountry (BOUND(?RareEarthMaterial) AS ?containsRareEarthMaterial)
WHERE {
    ?product rdfs:label $ProductLabel ;
    ns5:hasProductComponent ?component .
    ?component rdfs:label ?ComponentLabel .
    OPTIONAL {
       ?s1 ns1:participantRole <http://w3id.org/CEON/ontology/actor/manufacturer>;
       ns1:participatingActor ?company ;
       ns1:participatingResource ?component .
       ?company elec:siteCountry ?siteCountry.
    }
       OPTIONAL {
          ?component ns3:hasMatter elec:RareEarthMaterial.
          BIND ( elec:RareEarthMaterial AS ?RareEarthMaterial).
       }
```

Generic Data Viewer

https://onto-deside.ilabt.imec.be/viewer/#/customQuery?name=%28Cloned+from%29+Resilience+of+the+supply+chain+of+a+product&description=How+resilient+is+the+supply+chain+of+...

Incognito

- Construction use case
- Textile use case
- Extended textile use case
- Evaluation June 2024 - Construction
- Evaluation June 2024 - Electronics
  - Overview
  - Resilience of the sup...
  - REACH compliance ...
  - Rare Earth content o...
  - Recycled content of ...
  - All accessible data
  - Sources in electronic...
- Evaluation June 2024 - Textile

How resilient is the supply chain of a product, based on the origin of the materials, and does it container rare earth materials?

Give a description for the query.

SPARQL query *

```
PREFIX schema: <http://schema.org/>
PREFIX rdfs: <http://www.w3.org/2000/01/rdf-schema#>
PREFIX ex: <http://example.com/>
PREFIX elec: <http://w3id.org/CEON/demo/electronics/>
PREFIX ns1: <http://w3id.org/CEON/ontology/actorODP/>
PREFIX ns2: <http://qudt.org/schema/qudt/>
PREFIX ns3: <http://w3id.org/CEON/ontology/resourceODP/>
PREFIX ns4: <http://w3id.org/CEON/ontology/provenance/>
PREFIX ns5: <http://w3id.org/CEON/ontology/product/>

SELECT ?ComponentLabel ?siteCountry (BOUND(?RareEarthMaterial) AS ?containsRareEarthMaterial)
WHERE {
    ?product rdfs:label $ProductLabel ;
    ns5:hasProductComponent ?component .
    ?component rdfs:label ?ComponentLabel .
    OPTIONAL {
       ?s1 ns1:participantRole <http://w3id.org/CEON/ontology/actor/manufacturer>;
       ns1:participatingActor ?company ;
       ns1:participatingResource ?component .
       ?company elec:siteCountry ?siteCountry.
    }
       OPTIONAL {
          ?component ns3:hasMatter elec:RareEarthMaterial.
          BIND ( elec:RareEarthMaterial AS ?RareEarthMaterial).
       }
}
```

Enter your SPARQL query here.

Construction use case
Textile use case
Extended textile use case
Evaluation June 2024 - Construction
Evaluation June 2024 - Electronics
Overview
Resilience of the sup...
REACH compliance ...
Rare Earth content o...
Recycled content of ...
All accessible data
Sources in electronic...
Evaluation June 2024 - Textile

Comunica Context & Sources

☐ Advanced Comunica Context Settings

Fixed data source(s)

Give the source URL(s) for the query. Separate URLs with '; '. (These are the comunica context sources)

☑ Indirect sources

Index file URL *

https://onto-deside.ilabt.imec.be/css11/electronics_user9/ceon/index

Give the URL of the index file.

SPARQL query *

```
PREFIX rdfs: <http://www.w3.org/2000/01/rdf-schema#>

SELECT ?object
WHERE {
  ?s rdfs:seeAlso ?object .
}
```

Give the SPARQL query to get the sources from the index file.

Templated Query

☐ Fixed Variables ☑ Indirect Variables

Give one or more queries to retrieve the variable(s) from the source(s).

Query 1 for indirect variable(s) *

```
PREFIX rdfs: <http://www.w3.org/2000/01/rdf-schema#>
PREFIX elec: <http://w3id.org/CEON/demo/electronics/>
```

Construction use case
Textile use case
Extended textile use case
Evaluation June 2024 - Construction
Evaluation June 2024 - Electronics
Overview
Resilience of the sup...
REACH compliance ...
Rare Earth content o...
Recycled content of ...
All accessible data
Sources in electronic...
Evaluation June 2024 - Textile

```
SELECT ?object
WHERE {
  ?s rdfs:seeAlso ?object .
}
```

Give the SPARQL query to get the sources from the index file.

Templated Query

☐ Fixed Variables ☑ Indirect Variables

Give one or more queries to retrieve the variable(s) from the source(s).

Query 1 for indirect variable(s) *

```
PREFIX rdfs: <http://www.w3.org/2000/01/rdf-schema#>
PREFIX elec: <http://w3id.org/CEON/demo/electronics/>

SELECT DISTINCT ?ProductLabel
WHERE {
  ?Product a elec:ElectronicsProduct ;
    rdfs:label ?ProductLabel
}
ORDER BY ?ProductLabel
```

Enter the 1st SPARQL query to retrieve the variables.

+ ADD ANOTHER QUERY

Extra Options

☐ ASK query

Construction use case
Textile use case
Extended textile use case
Evaluation June 2024 - Construction
Evaluation June 2024 - Electronics
Overview
Resilience of the sup...
REACH compliance ...
Rare Earth content o...
Recycled content of ...
All accessible data
Sources in electronic...
Evaluation June 2024 - Textile

Give the SPARQL query to get the sources from the index file.

Templated Query

☐ Fixed Variables ☑ Indirect Variables

Give one or more queries to retrieve the variable(s) from the source(s).

Query 1 for indirect variable(s) *

```
PREFIX rdfs: <http://www.w3.org/2000/01/rdf-schema#>
PREFIX elec: <http://w3id.org/CEON/demo/electronics/>

SELECT DISTINCT ?ProductLabel
WHERE {
  ?Product a elec:ElectronicsProduct ;
    rdfs:label ?ProductLabel
}
ORDER BY ?ProductLabel
```

Enter the 1st SPARQL query to retrieve the variables.

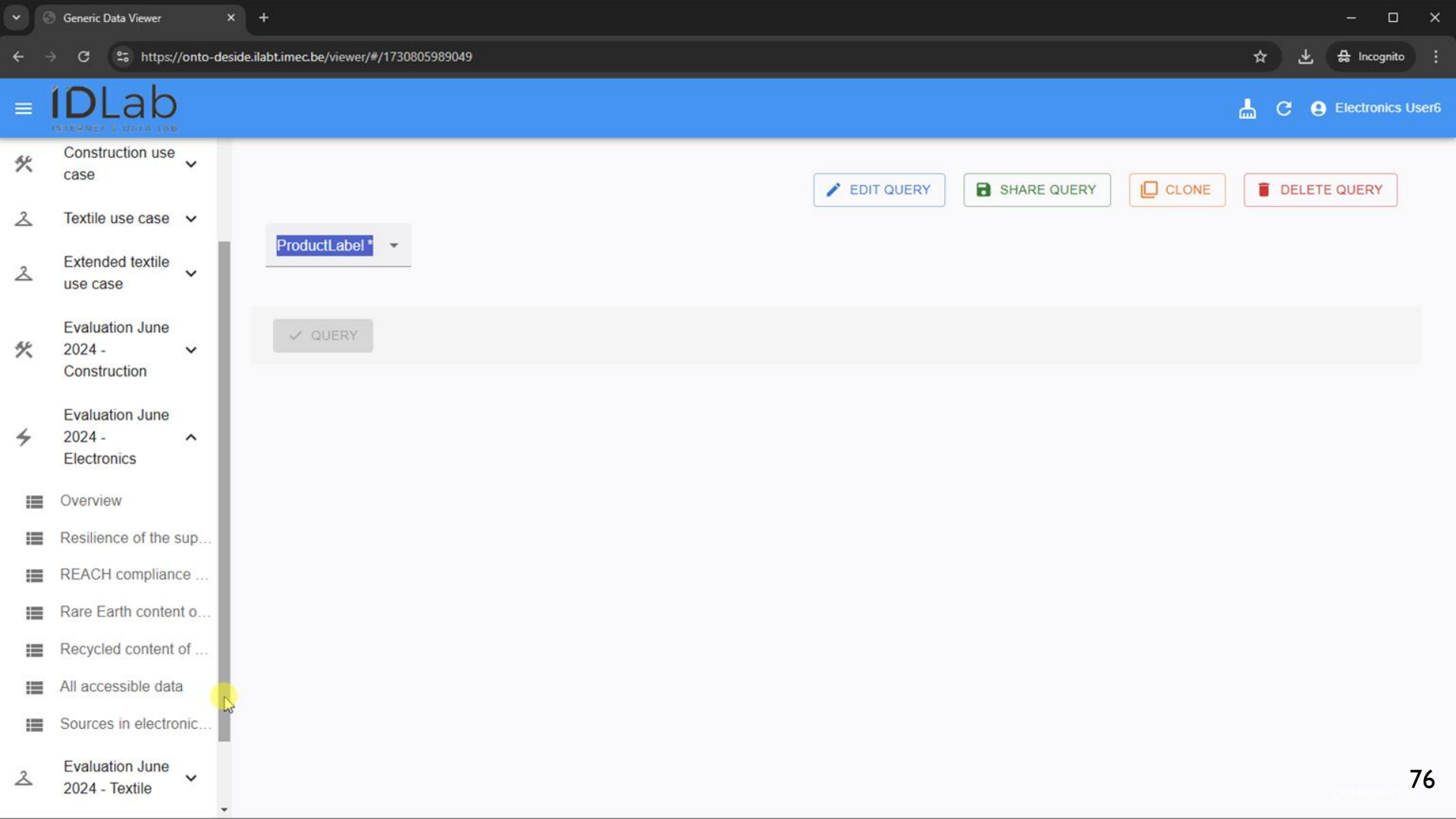
+ ADD ANOTHER QUERY

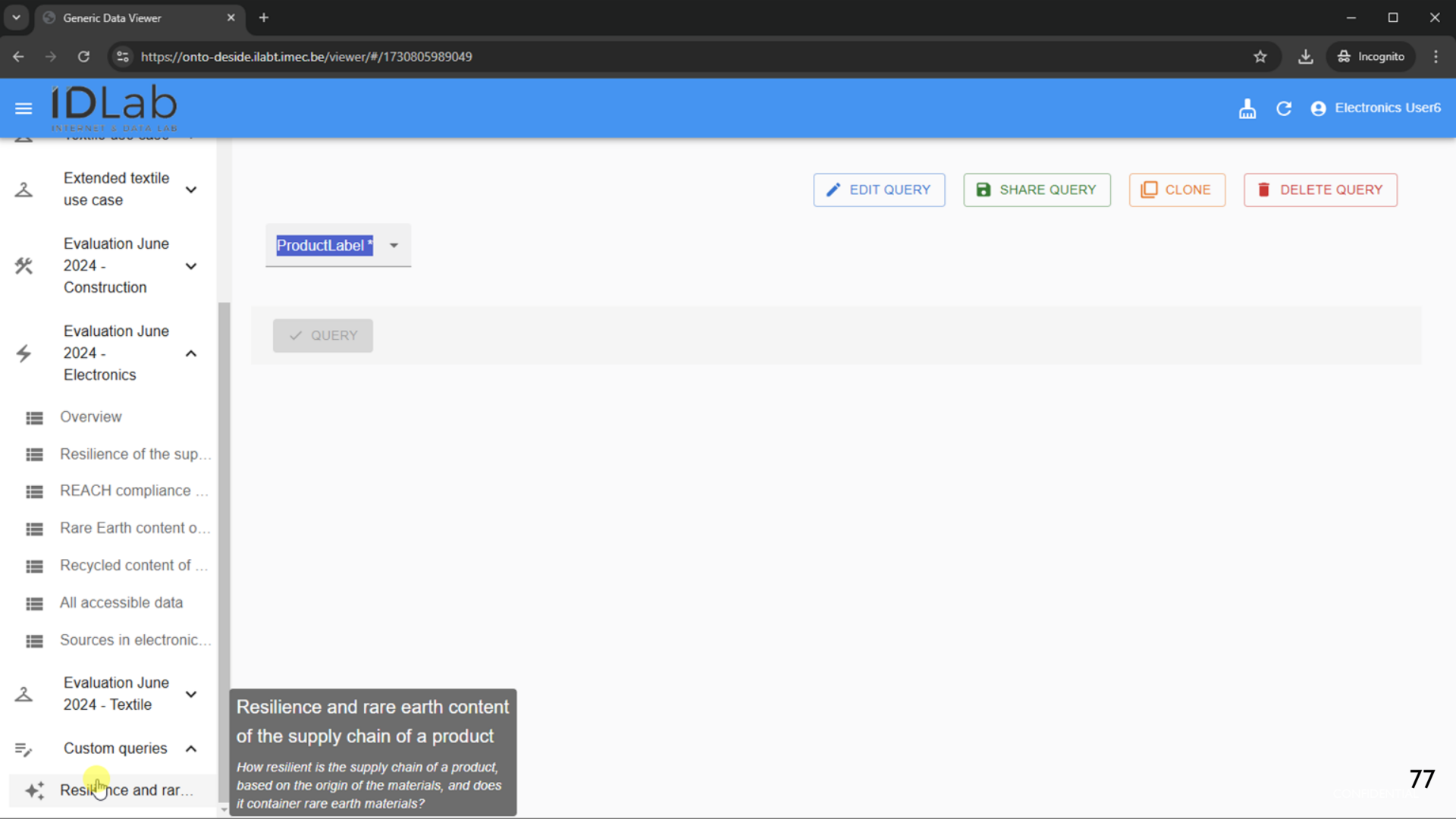
Extra Options

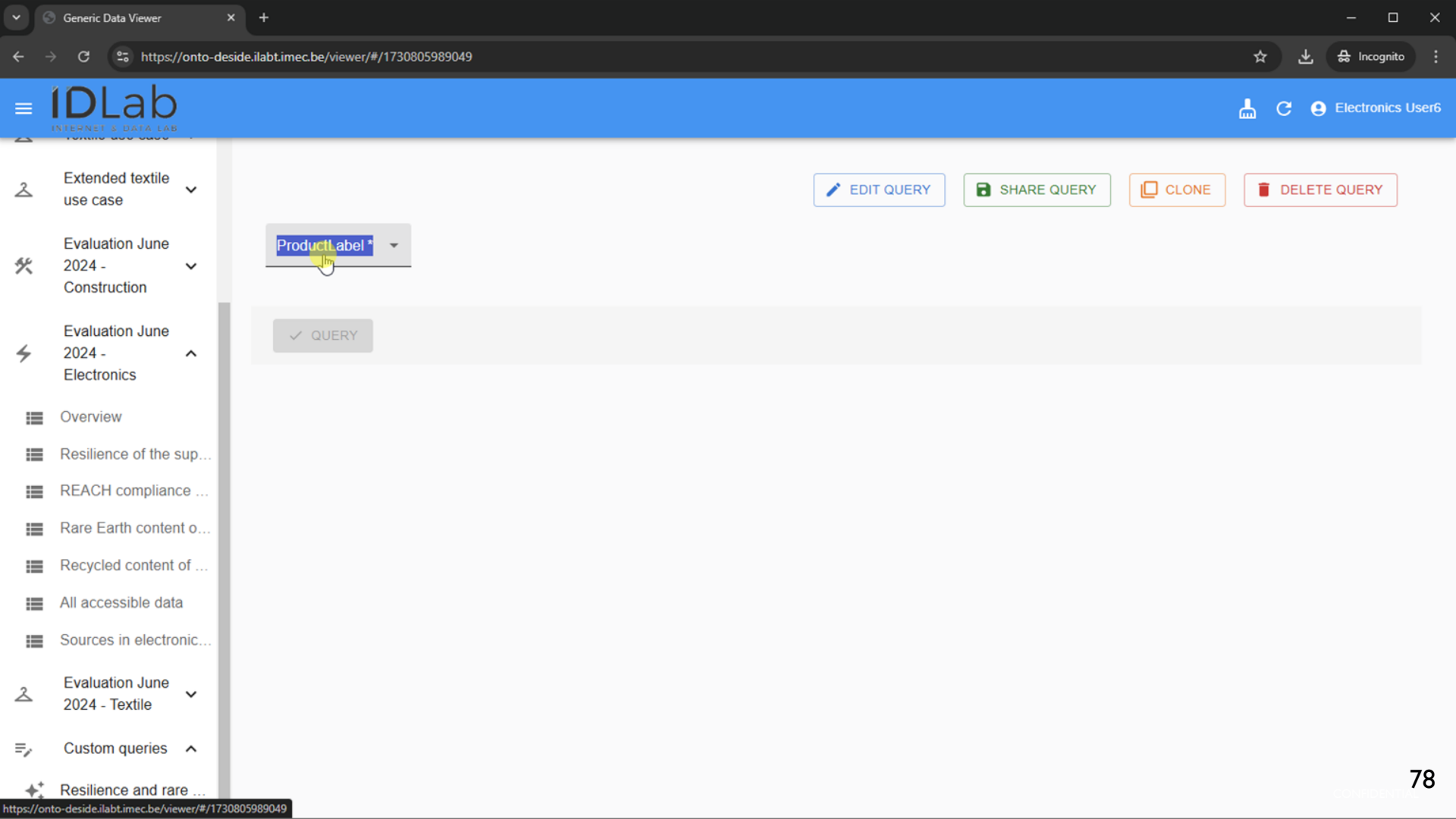
☐ ASK query

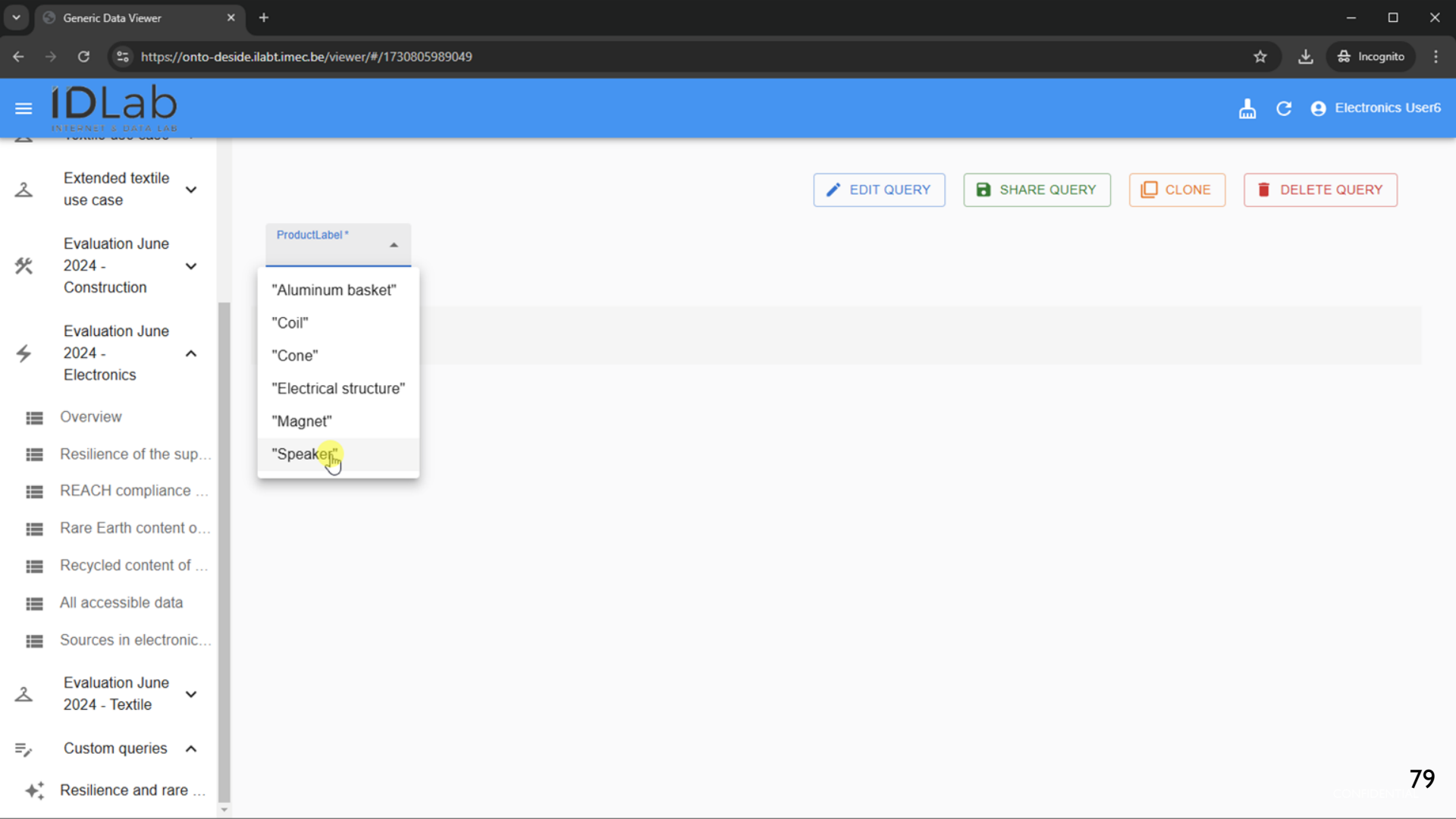
+ CREATE QUERY

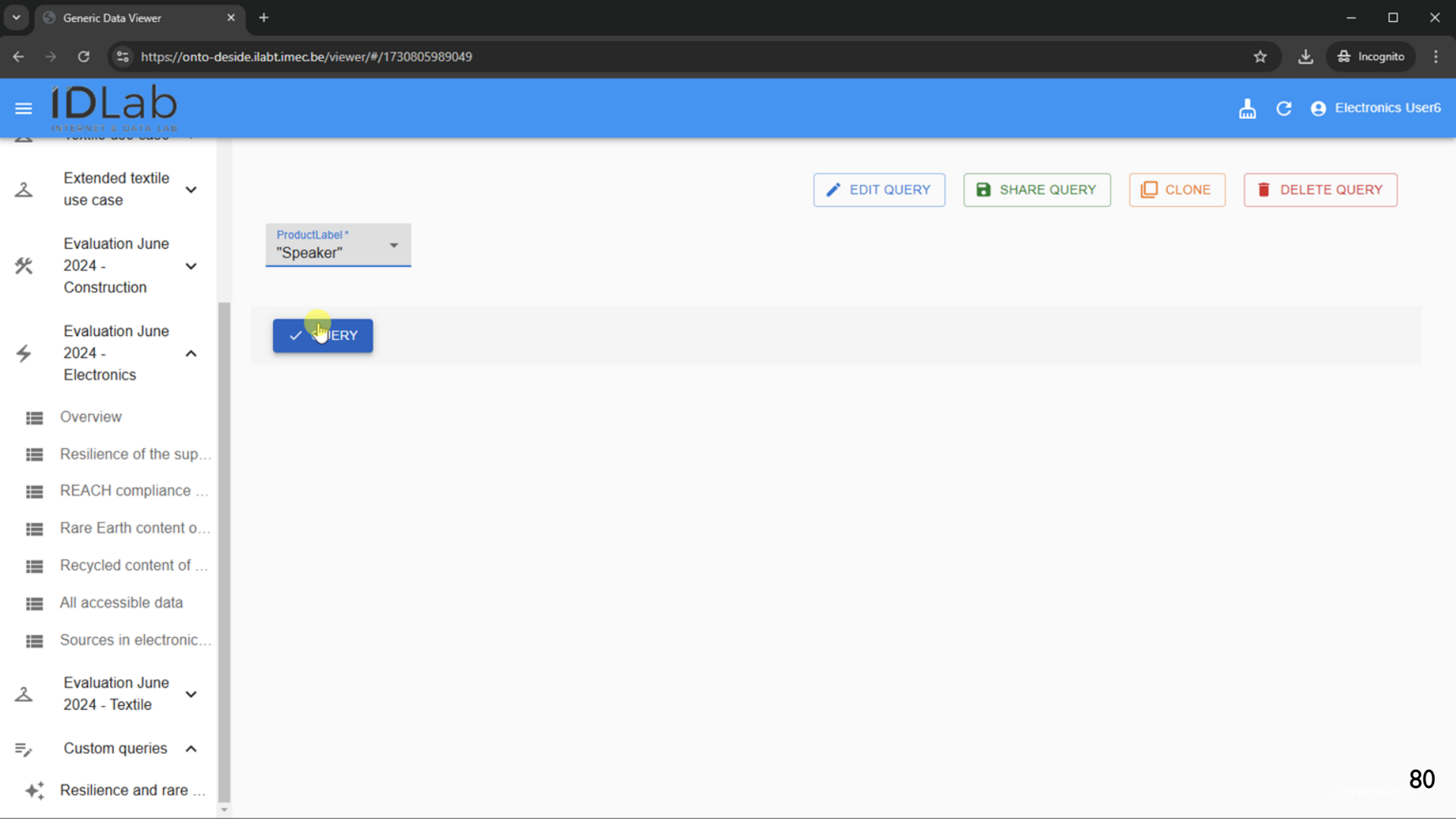
GO BACK

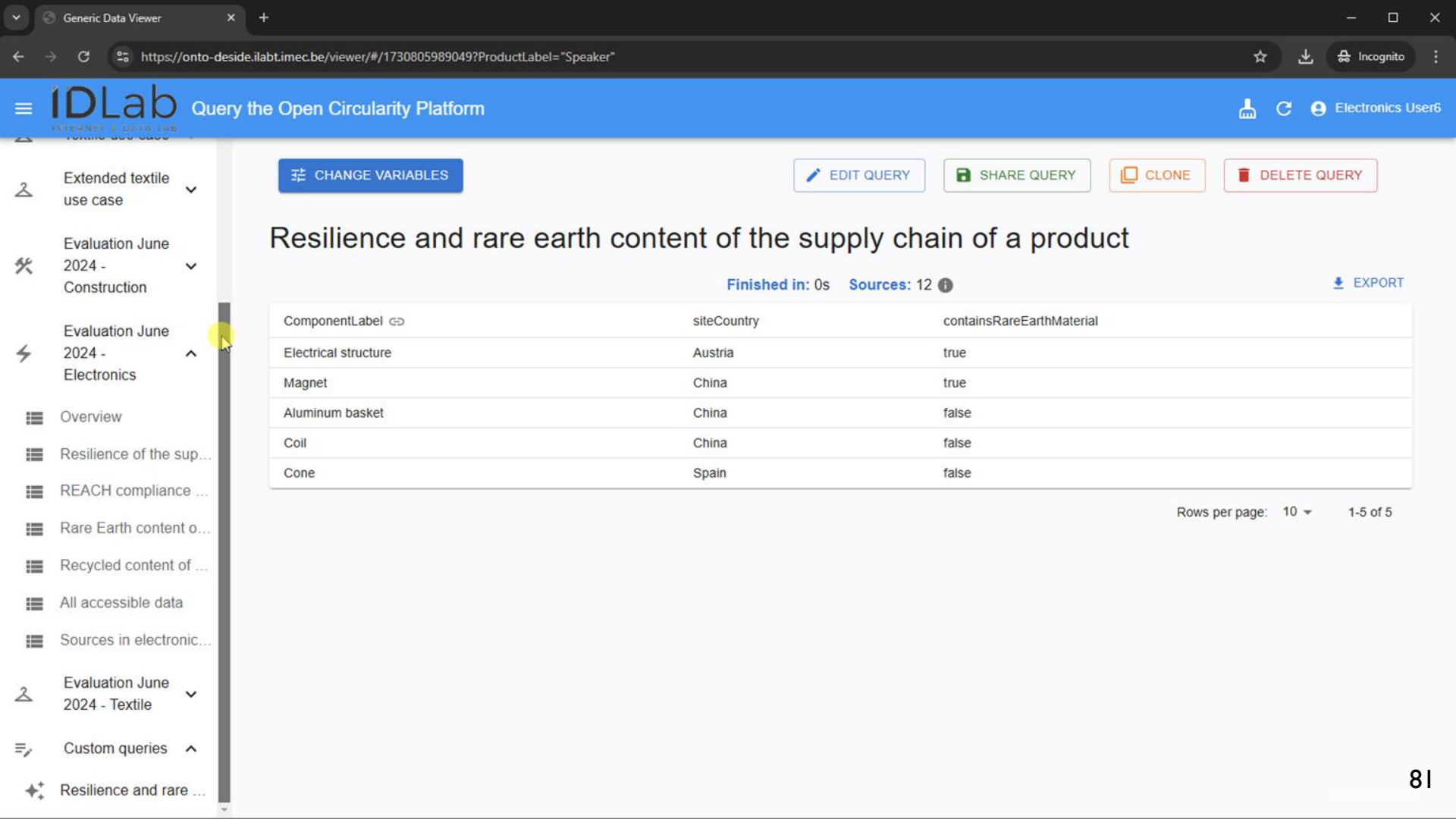

Generic Data Viewer
https://onto-deside.ilabt.imec.be/viewer/#/1730805989049
Incognito
IDLab
Electronics User6
Construction use case
Textile use case
Extended textile use case
Evaluation June 2024 - Construction
Evaluation June 2024 - Electronics
Overview
Resilience of the sup...
REACH compliance ...
Rare Earth content o...
Recycled content of ...
All accessible data
Sources in electronic...
Evaluation June 2024 - Textile
EDIT QUERY
SHARE QUERY
CLONE
DELETE QUERY
ProductLabel *
QUERY

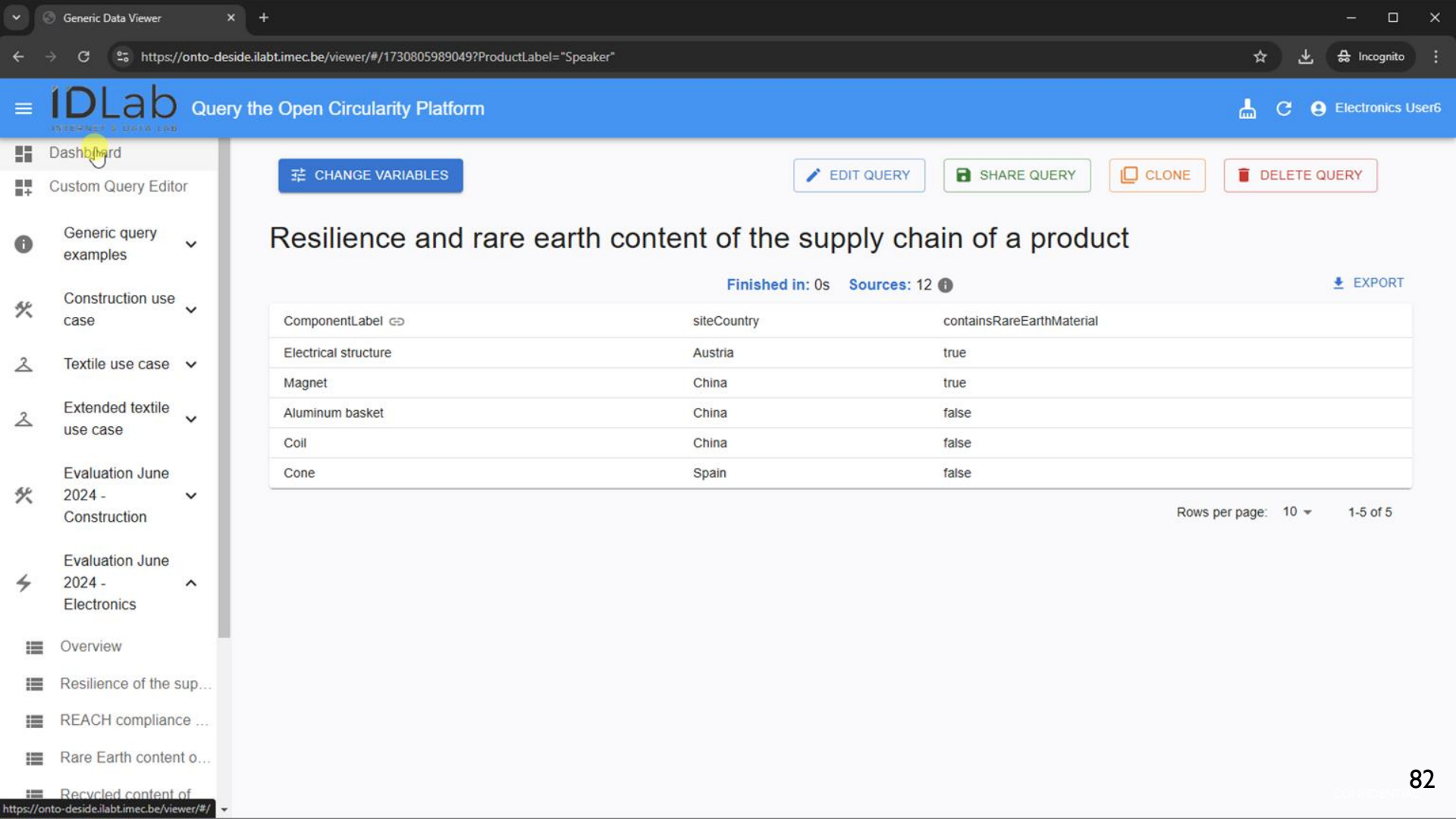

Generic Data Viewer
https://onto-deside.ilabt.imec.be/viewer/#/1730805989049
Incognito
IDLab
INTERNET & DATA LAB
Electronics User6
Extended textile use case
Evaluation June 2024 - Construction
Evaluation June 2024 - Electronics
Overview
Resilience of the sup...
REACH compliance ...
Rare Earth content o...
Recycled content of ...
All accessible data
Sources in electronic...
Evaluation June 2024 - Textile
Custom queries
Resilience and rar...
EDIT QUERY
SHARE QUERY
CLONE
DELETE QUERY
ProductLabel *
QUERY
Resilience and rare earth content of the supply chain of a product
How resilient is the supply chain of a product, based on the origin of the materials, and does it container rare earth materials?

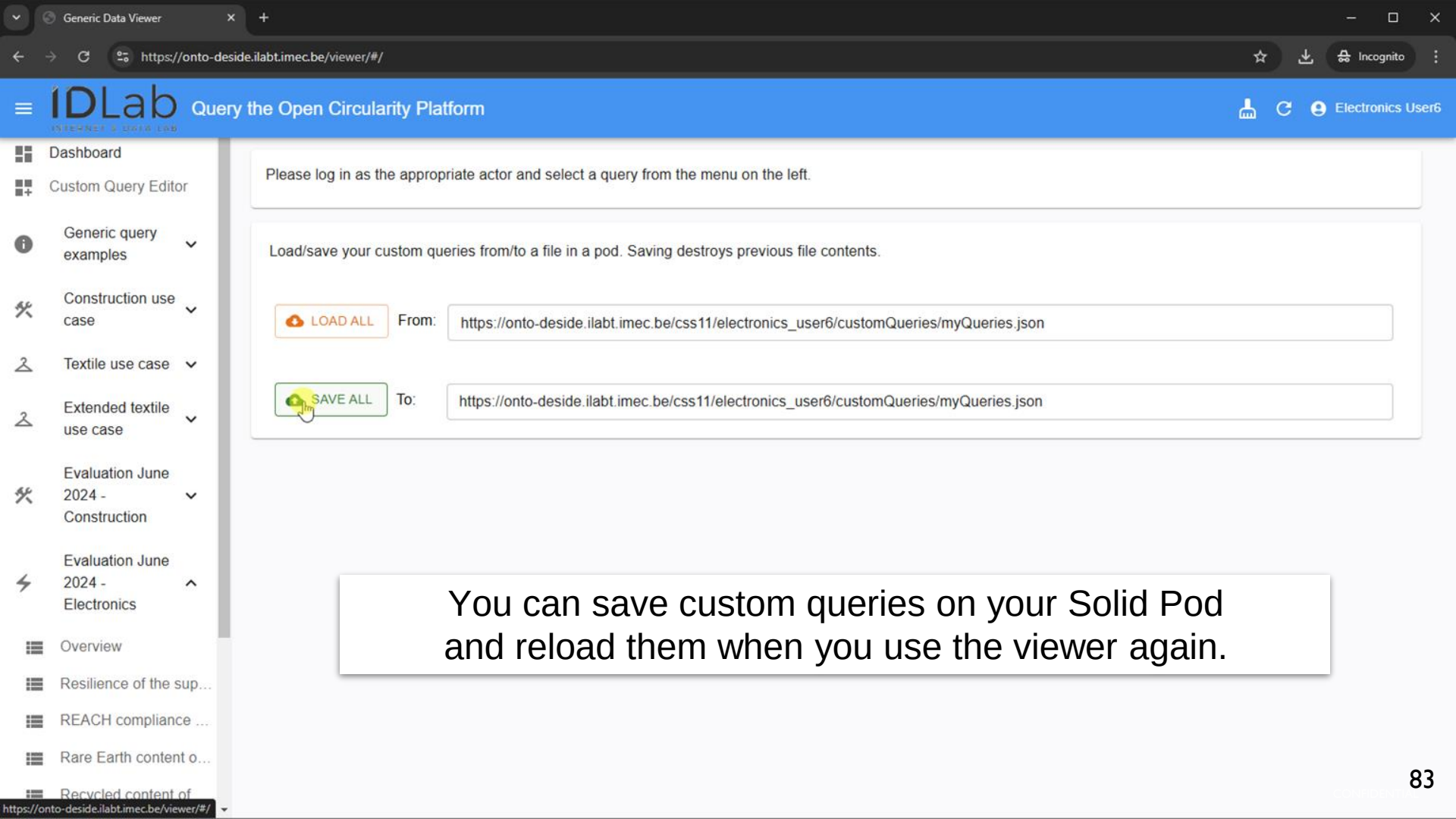

Generic Data Viewer
https://onto-deside.ilabt.imec.be/viewer/#/1730805989049
Incognito
IDLab
INTERNET & DATA LAB
Electronics User6
Extended textile use case
Evaluation June 2024 - Construction
Evaluation June 2024 - Electronics
Overview
Resilience of the sup...
REACH compliance ...
Rare Earth content o...
Recycled content of ...
All accessible data
Sources in electronic...
Evaluation June 2024 - Textile
Custom queries
Resilience and rare ...
EDIT QUERY
SHARE QUERY
CLONE
DELETE QUERY
ProductLabel *
QUERY
https://onto-deside.ilabt.imec.be/viewer/#/1730805989049


Generic Data Viewer
https://onto-deside.ilabt.imec.be/viewer/#/1730805989049
Incognito
IDLab
INTERNET & DATA LAB
Electronics User6
Extended textile use case
Evaluation June 2024 - Construction
Evaluation June 2024 - Electronics
Overview
Resilience of the sup...
REACH compliance ...
Rare Earth content o...
Recycled content of ...
All accessible data
Sources in electronic...
Evaluation June 2024 - Textile
Custom queries
Resilience and rare ...
EDIT QUERY
SHARE QUERY
CLONE
DELETE QUERY
ProductLabel *
"Aluminum basket"
"Coil"
"Cone"
"Electrical structure"
"Magnet"
"Speaker"


Generic Data Viewer
https://onto-deside.ilabt.imec.be/viewer/#/1730805989049
Incognito
IDLab
INTERNET & DATA LAB
Electronics User6
Extended textile use case
Evaluation June 2024 - Construction
Evaluation June 2024 - Electronics
Overview
Resilience of the sup...
REACH compliance ...
Rare Earth content o...
Recycled content of ...
All accessible data
Sources in electronic...
Evaluation June 2024 - Textile
Custom queries
Resilience and rare ...
EDIT QUERY
SHARE QUERY
CLONE
DELETE QUERY
ProductLabel *
"Speaker"
ERY


Generic Data Viewer
https://onto-deside.ilabt.imec.be/viewer/#/1730805989049?ProductLabel="Speaker"
Incognito
IDLab
Query the Open Circularity Platform
Electronics User6
Extended textile use case
Evaluation June 2024 - Construction
Evaluation June 2024 - Electronics
Overview
Resilience of the sup...
REACH compliance ...
Rare Earth content o...
Recycled content of ...
All accessible data
Sources in electronic...
Evaluation June 2024 - Textile
Custom queries
Resilience and rare ...
CHANGE VARIABLES
EDIT QUERY
SHARE QUERY
CLONE
DELETE QUERY
Resilience and rare earth content of the supply chain of a product
Finished in: 0s
Sources: 12
EXPORT
ComponentLabel
siteCountry
containsRareEarthMaterial
Electrical structure
Austria
true
Magnet
China
true
Aluminum basket
China
false
Coil
China
false
Cone
Spain
false
Rows per page: 10
1-5 of 5


Generic Data Viewer
https://onto-deside.ilabt.imec.be/viewer/#/1730805989049?ProductLabel="Speaker"
Incognito
IDLab
Query the Open Circularity Platform
Electronics User6
Dashboard
Custom Query Editor
Generic query examples
Construction use case
Textile use case
Extended textile use case
Evaluation June 2024 - Construction
Evaluation June 2024 - Electronics
Overview
Resilience of the sup...
REACH compliance ...
Rare Earth content o...
Recycled content of
CHANGE VARIABLES
EDIT QUERY
SHARE QUERY
CLONE
DELETE QUERY
Resilience and rare earth content of the supply chain of a product
Finished in: 0s
Sources: 12
EXPORT
ComponentLabel
siteCountry
containsRareEarthMaterial
Electrical structure
Austria
true
Magnet
China
true
Aluminum basket
China
false
Coil
China
false
Cone
Spain
false
Rows per page: 10
1-5 of 5
https://onto-deside.ilabt.imec.be/viewer/#/


Generic Data Viewer
https://onto-deside.ilabt.imec.be/viewer/#/
Incognito
IDLab
Query the Open Circularity Platform
Electronics User6
Dashboard
Custom Query Editor
Generic query examples
Construction use case
Textile use case
Extended textile use case
Evaluation June 2024 - Construction
Evaluation June 2024 - Electronics
Overview
Resilience of the sup...
REACH compliance ...
Rare Earth content o...
Recycled content of
Please log in as the appropriate actor and select a query from the menu on the left.
Load/save your custom queries from/to a file in a pod. Saving destroys previous file contents.
LOAD ALL
From:
https://onto-deside.ilabt.imec.be/css11/electronics_user6/customQueries/myQueries.json
SAVE ALL
To:
https://onto-deside.ilabt.imec.be/css11/electronics_user6/customQueries/myQueries.json
You can save custom queries on your Solid Pod and reload them when you use the viewer again.
https://onto-deside.ilabt.imec.be/viewer/#/

Generic Data Viewer

https://onto-deside.ilabt.imec.be/viewer/#/

Incognito

IDLab INTERNET & DATA LAB

Query the Open Circularity Platform

Electronics User6

- Dashboard
- Custom Query Editor
- Generic query examples
- Construction use case
- Textile use case
- Extended textile use case
- Evaluation June 2024 - Construction
- Evaluation June 2024 - Electronics
  - Overview
  - Resilience of the sup...
  - REACH compliance ...
  - Rare Earth content o...
  - Recycled content of ...

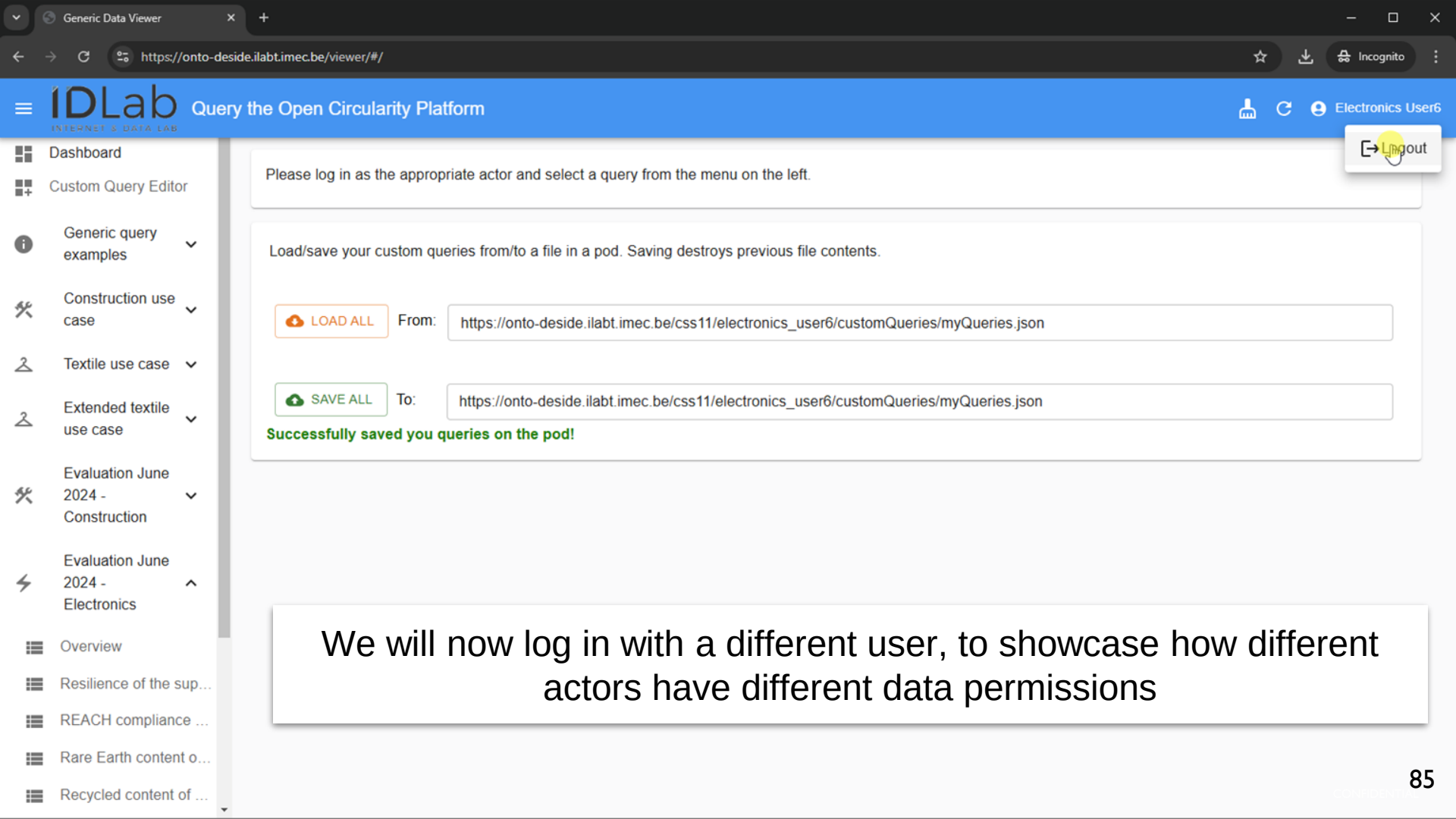
Please log in as the appropriate actor and select a query from the menu on the left.

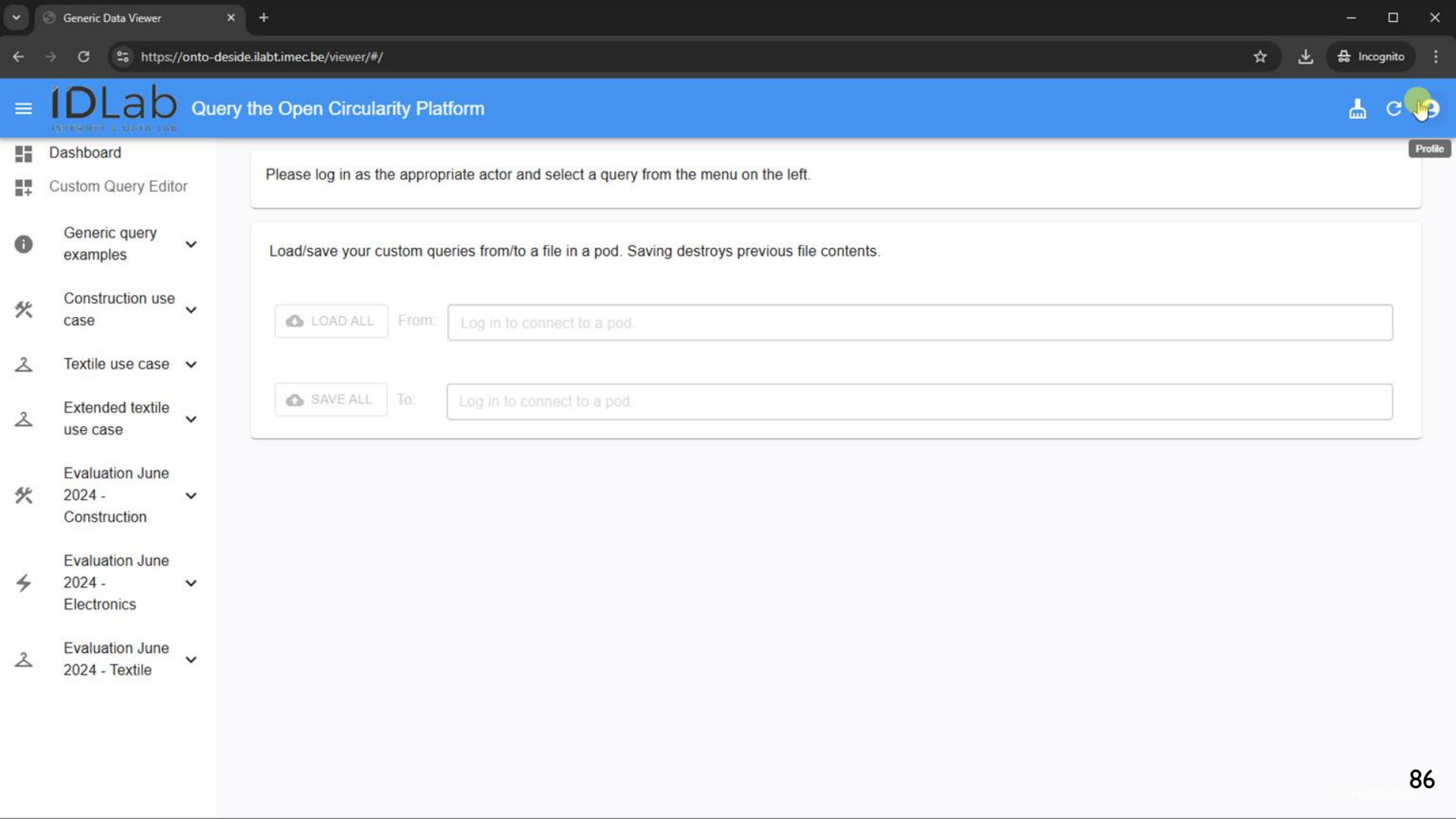
Load/save your custom queries from/to a file in a pod. Saving destroys previous file contents.

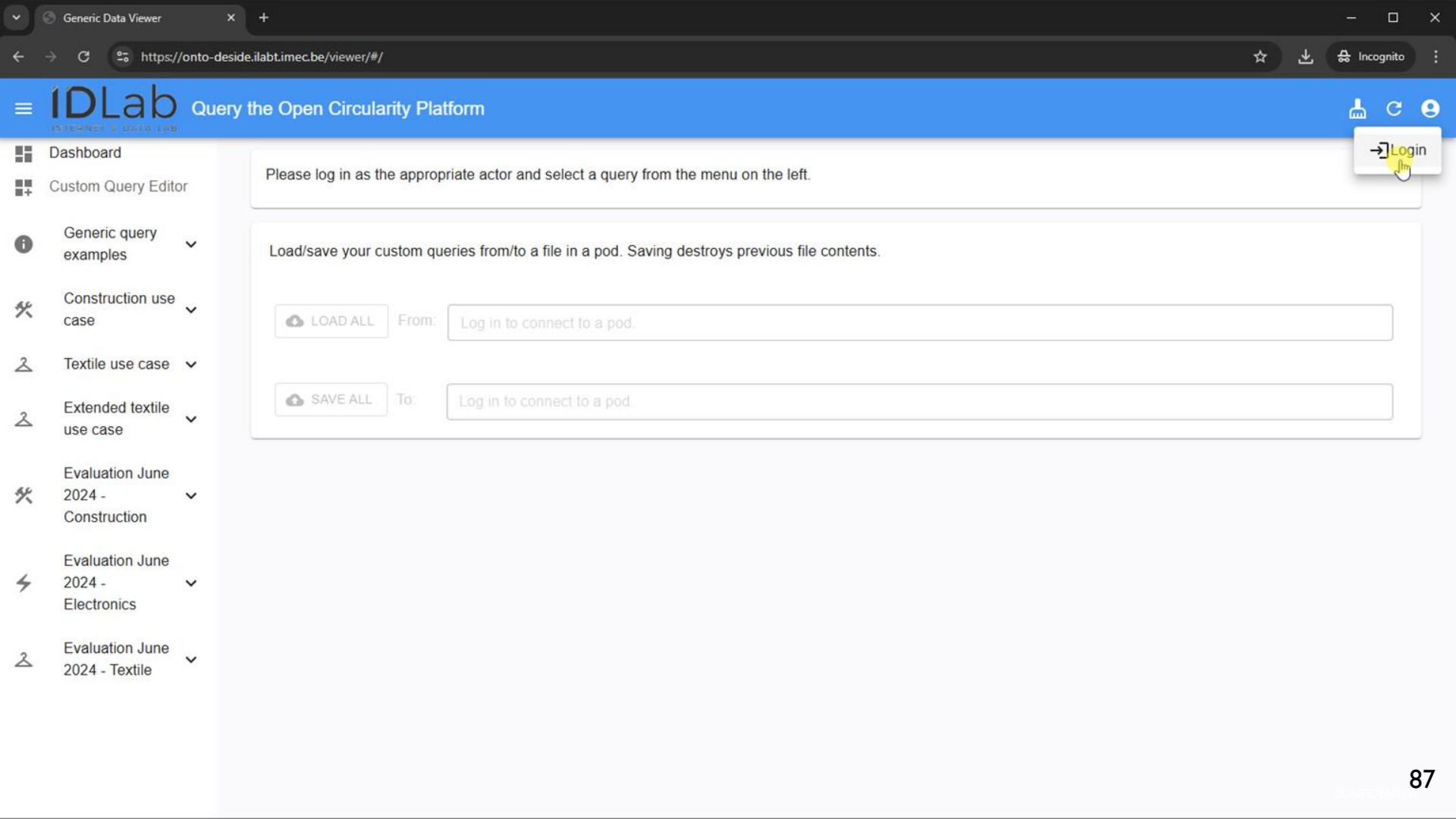
LOAD ALL From: https://onto-deside.ilabt.imec.be/css11/electronics_user6/customQueries/myQueries.json

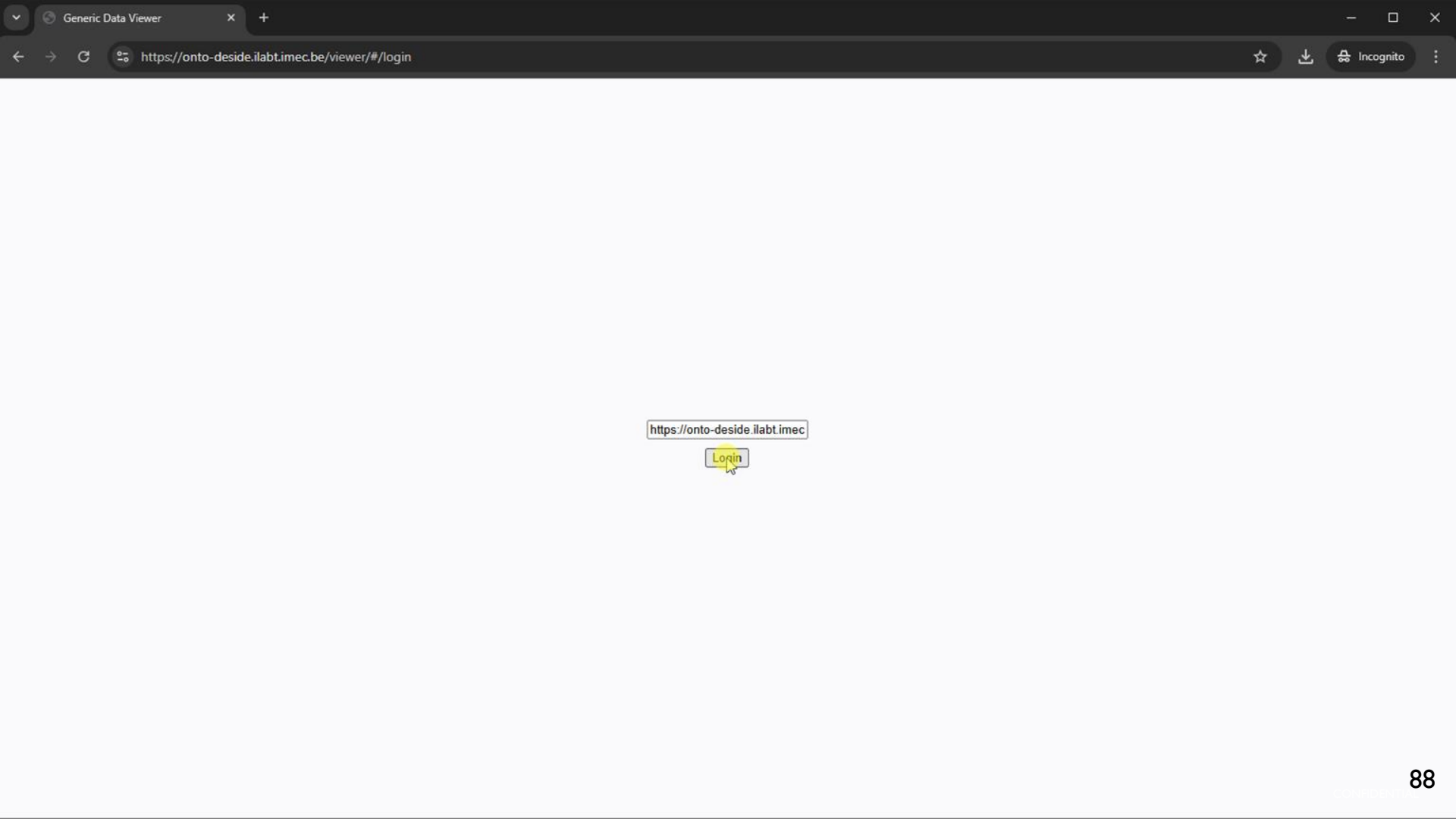
SAVE ALL To: https://onto-deside.ilabt.imec.be/css11/electronics_user6/customQueries/myQueries.json

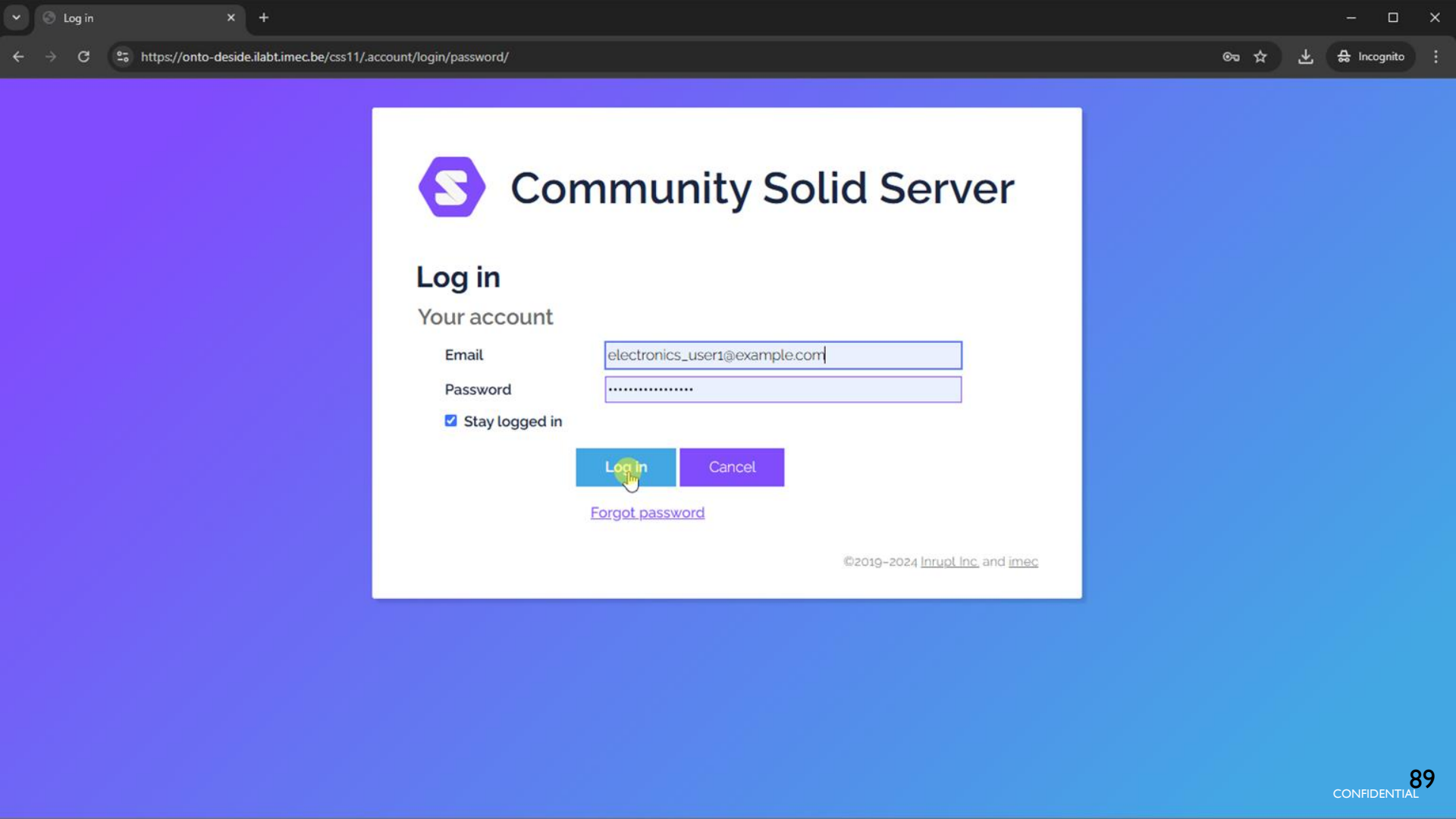
Successfully saved you queries on the pod!

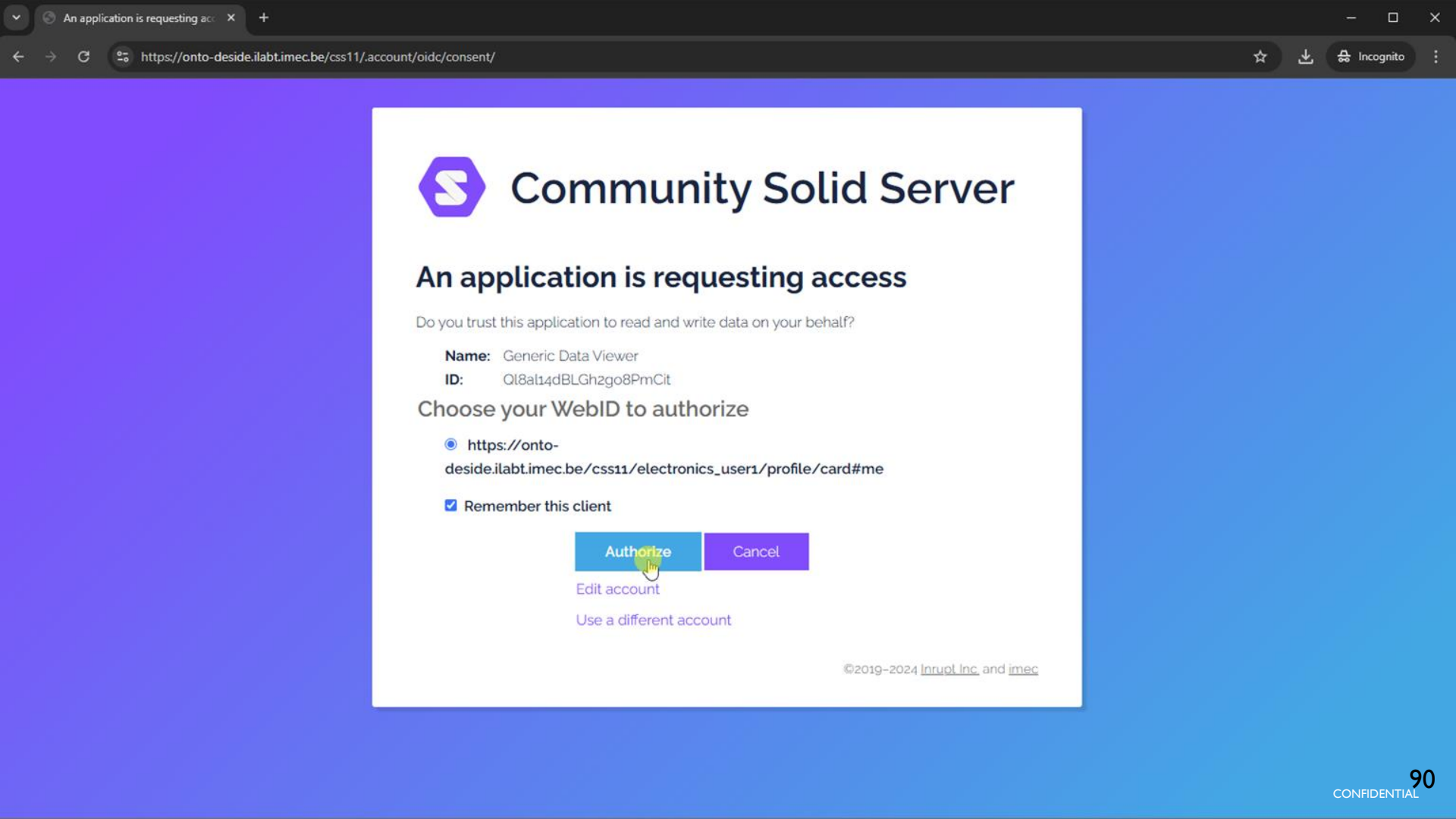

Generic Data Viewer
https://onto-deside.ilabt.imec.be/viewer/#/
Incognito
IDLab
INTERNET & DATA LAB
Query the Open Circularity Platform
Electronics User6
Logout
Dashboard
Custom Query Editor
Generic query examples
Construction use case
Textile use case
Extended textile use case
Evaluation June 2024 - Construction
Evaluation June 2024 - Electronics
Overview
Resilience of the sup...
REACH compliance ...
Rare Earth content o...
Recycled content of ...
Please log in as the appropriate actor and select a query from the menu on the left.
Load/save your custom queries from/to a file in a pod. Saving destroys previous file contents.
LOAD ALL
From:
https://onto-deside.ilabt.imec.be/css11/electronics_user6/customQueries/myQueries.json
SAVE ALL
To:
https://onto-deside.ilabt.imec.be/css11/electronics_user6/customQueries/myQueries.json
Successfully saved you queries on the pod!
We will now log in with a different user, to showcase how different actors have different data permissions

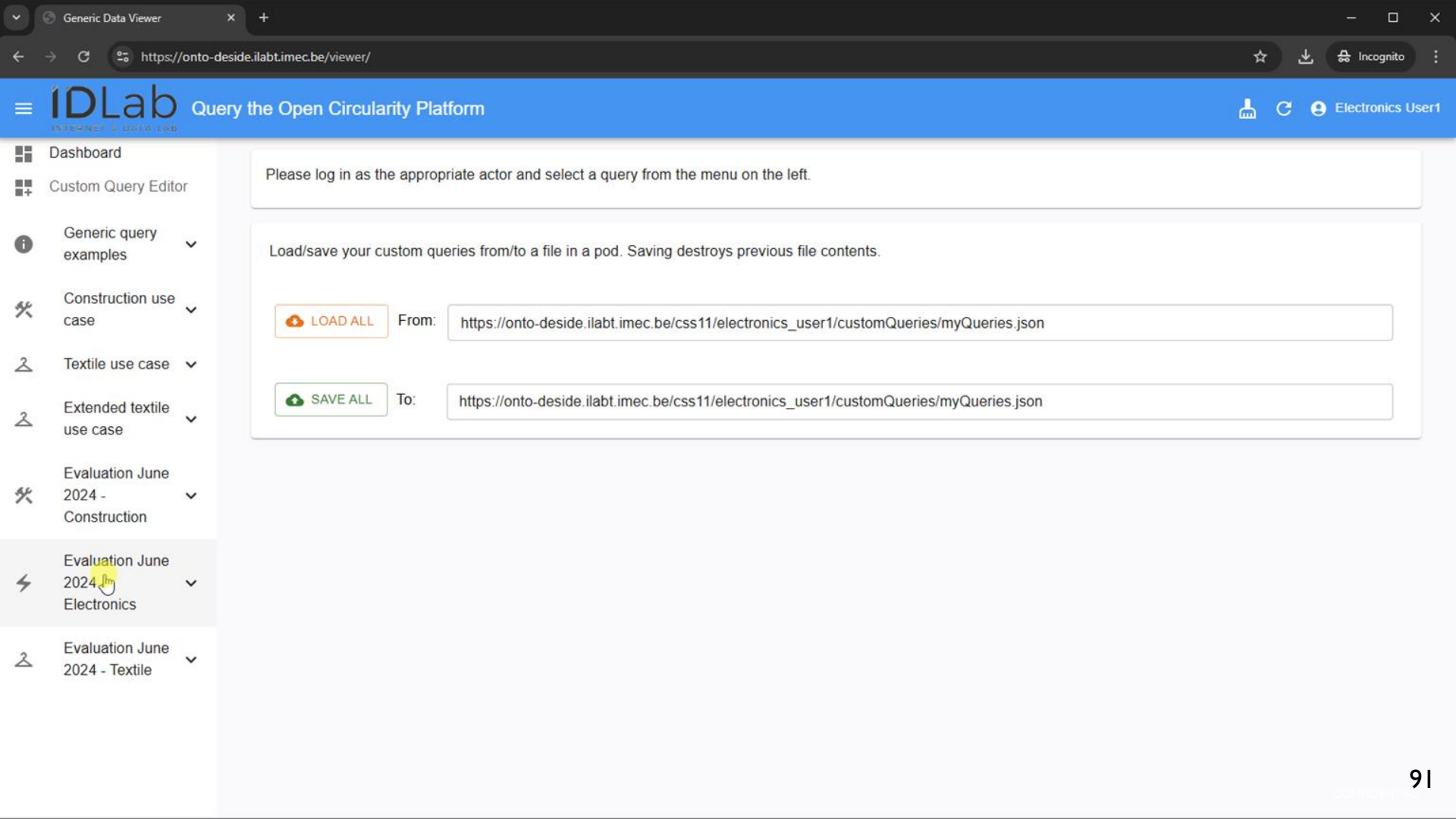

Generic Data Viewer
https://onto-deside.ilabt.imec.be/viewer/#/
Incognito
IDLab
Query the Open Circularity Platform
Profile
Dashboard
Custom Query Editor
Generic query examples
Construction use case
Textile use case
Extended textile use case
Evaluation June 2024 - Construction
Evaluation June 2024 - Electronics
Evaluation June 2024 - Textile
Please log in as the appropriate actor and select a query from the menu on the left.
Load/save your custom queries from/to a file in a pod. Saving destroys previous file contents.
LOAD ALL
From:
Log in to connect to a pod.
SAVE ALL
To:
Log in to connect to a pod.


Generic Data Viewer
https://onto-deside.ilabt.imec.be/viewer/#/
Incognito
IDLab
Query the Open Circularity Platform
Login
Dashboard
Custom Query Editor
Generic query examples
Construction use case
Textile use case
Extended textile use case
Evaluation June 2024 - Construction
Evaluation June 2024 - Electronics
Evaluation June 2024 - Textile
Please log in as the appropriate actor and select a query from the menu on the left.
Load/save your custom queries from/to a file in a pod. Saving destroys previous file contents.
LOAD ALL
From:
Log in to connect to a pod.
SAVE ALL
To:
Log in to connect to a pod.


Generic Data Viewer
https://onto-deside.ilabt.imec.be/viewer/#/login
Incognito
https://onto-deside.ilabt.imec
Login






Generic Data Viewer
https://onto-deside.ilabt.imec.be/viewer/
Incognito
IDLab
Query the Open Circularity Platform
Electronics User1
Dashboard
Custom Query Editor
Generic query examples
Construction use case
Textile use case
Extended textile use case
Evaluation June 2024 - Construction
Evaluation June 2024 - Electronics
Evaluation June 2024 - Textile
Please log in as the appropriate actor and select a query from the menu on the left.
Load/save your custom queries from/to a file in a pod. Saving destroys previous file contents.
LOAD ALL
From:
https://onto-deside.ilabt.imec.be/css11/electronics_user1/customQueries/myQueries.json
SAVE ALL
To:
https://onto-deside.ilabt.imec.be/css11/electronics_user1/customQueries/myQueries.json

Generic Data Viewer

https://onto-deside.ilabt.imec.be/viewer/

Incognito

IDLab

Query the Open Circularity Platform

Electronics User1

- Dashboard
- Custom Query Editor
- Generic query examples
- Construction use case
- Textile use case
- Extended textile use case
- Evaluation June 2024 - Construction
- Evaluation June 2024 - Electronics
  - Overview
  - Resilience of the sup…
  - REACH compliance …
  - Rare Earth content o…
  - Recycled content of

Please log in as the appropriate actor and select a query from the menu on the left.

Load/save your custom queries from/to a file in a pod. Saving destroys previous file contents.

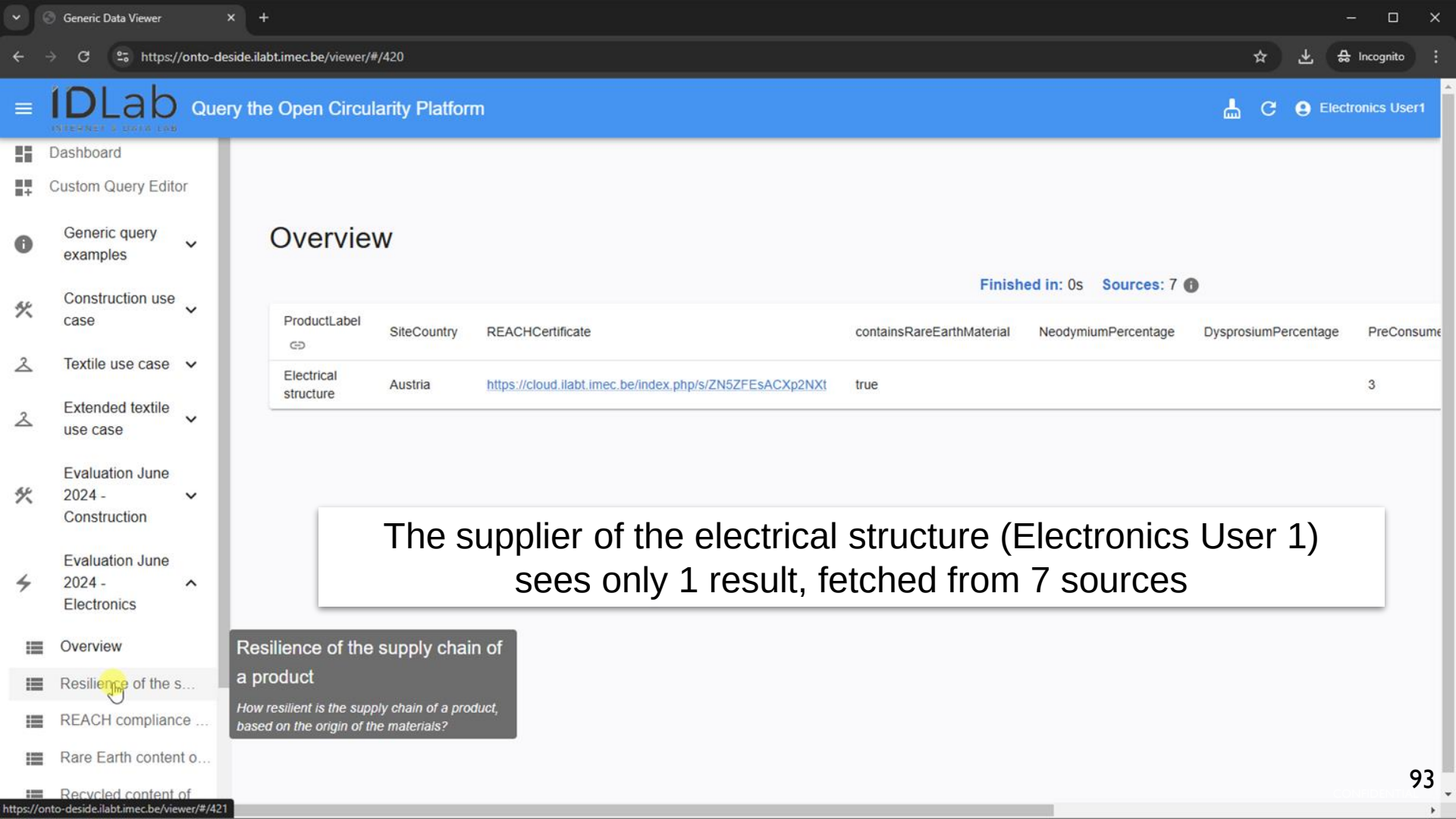
LOAD ALL From: https://onto-deside.ilabt.imec.be/css11/electronics_user1/customQueries/myQueries.json

SAVE ALL To: https://onto-deside.ilabt.imec.be/css11/electronics_user1/customQueries/myQueries.json

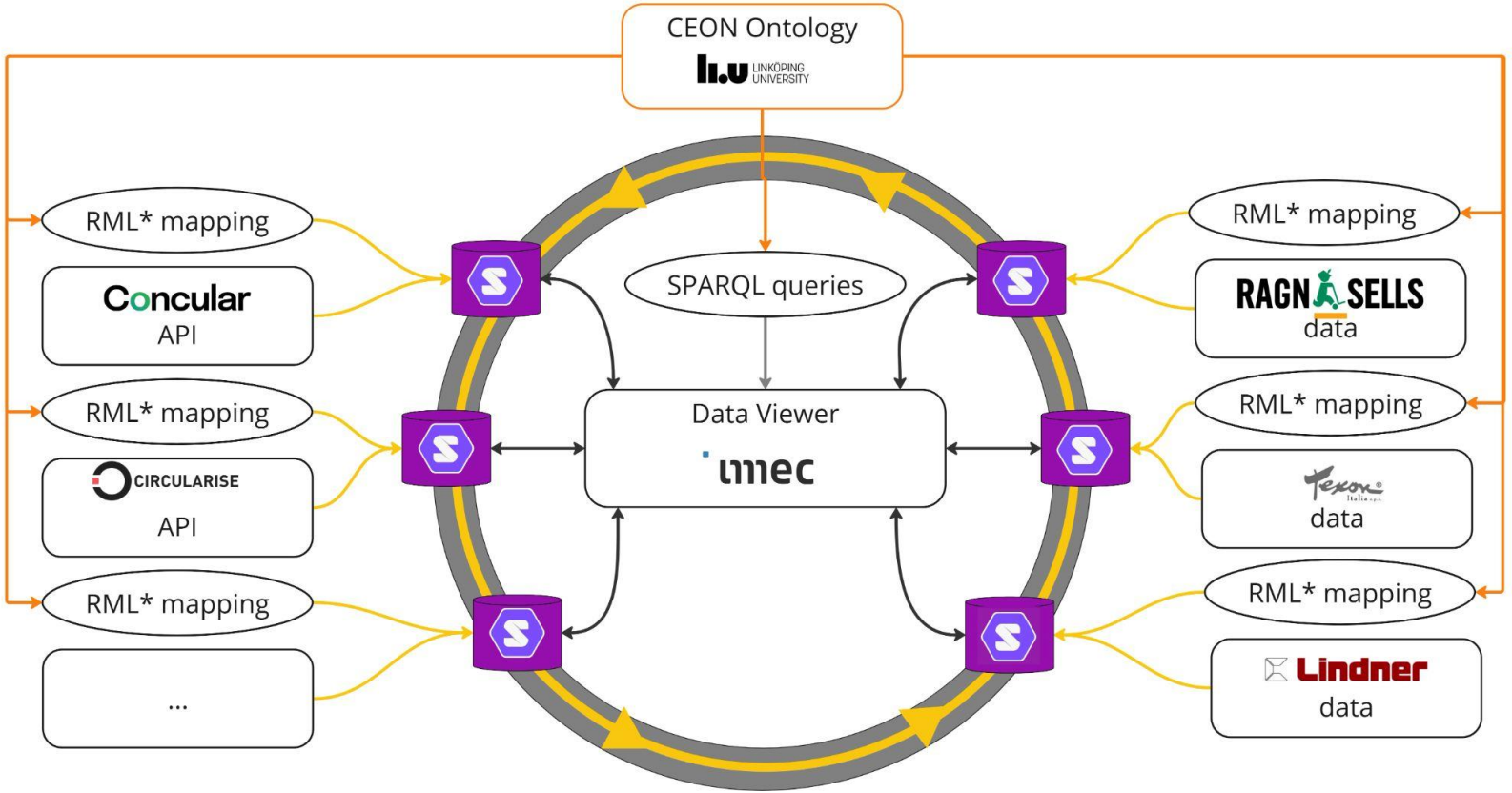
Overview

All products with the data points selected for this evaluation

https://onto-deside.ilabt.imec.be/viewer/#/420


Generic Data Viewer
https://onto-deside.ilabt.imec.be/viewer/#/420
Incognito
IDLab
Query the Open Circularity Platform
Electronics User1
Dashboard
Custom Query Editor
Generic query examples
Construction use case
Textile use case
Extended textile use case
Evaluation June 2024 - Construction
Evaluation June 2024 - Electronics
Overview
Resilience of the s...
REACH compliance ...
Rare Earth content o...
Recycled content of
Overview
Finished in: 0s
Sources: 7
ProductLabel
SiteCountry
REACHCertificate
containsRareEarthMaterial
NeodymiumPercentage
DysprosiumPercentage
PreConsume
Electrical structure
Austria
https://cloud.ilabt.imec.be/index.php/s/ZN5ZFEsACXp2NXt
true
3
The supplier of the electrical structure (Electronics User 1) sees only 1 result, fetched from 7 sources
Resilience of the supply chain of a product
How resilient is the supply chain of a product, based on the origin of the materials?
https://onto-deside.ilabt.imec.be/viewer/#/421

Vision



RML*: including RML extensions

- Onto-DESIDE use case
- The Open Circularity Platform
- CEON Ontology
- RML Extensions
- Data Viewer
- **Q&A**

Q&A

Onto-DESIDE project: https://ontodeside.eu/
OCP: https://github.com/KNowledgeOnWebScale/open-circularity-platform
Onto-DESIDE Data Viewer: https://onto-deside.ilabt.imec.be/viewer/
CEON ontology: https://liusemweb.github.io/CEON/
Data Viewer: https://github.com/SolidLabResearch/generic-data-viewer-react-admin

embracing a better life