

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

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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



Universität Hamburg
DER FORSCHUNG | DER LEHRE | DER BILDUNG

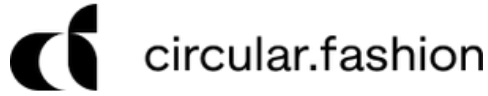


ONTO-DESIDE

*Ontology-based Decentralized Sharing of Industry Data
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<https://ontodeside.eu/>

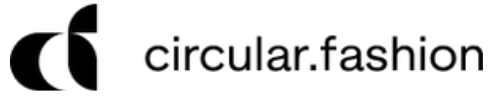
Horizon Europe project



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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



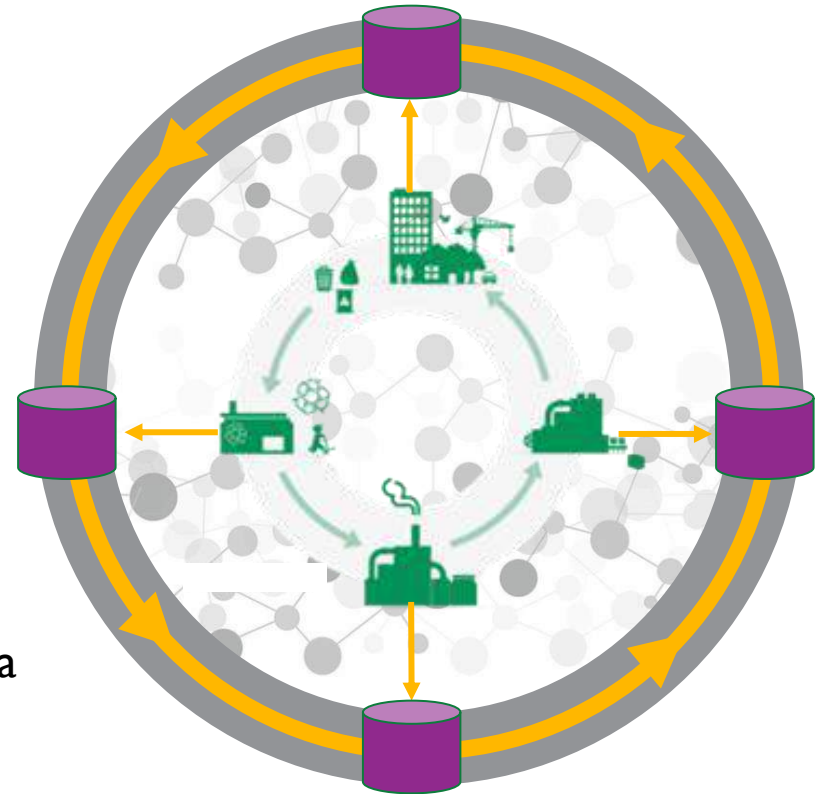
Circular Value Networks need data flows

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

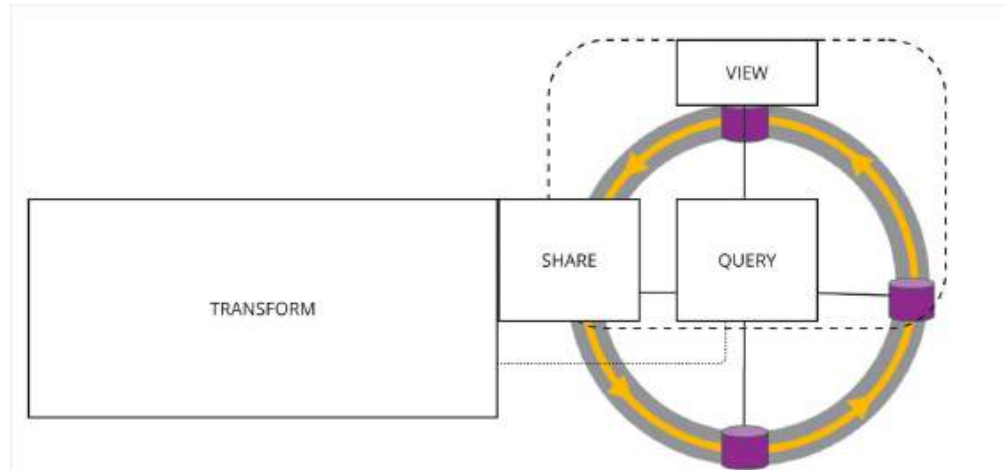


- Onto-DESIDE use case
- **The Open Circularity Platform**
- Demo
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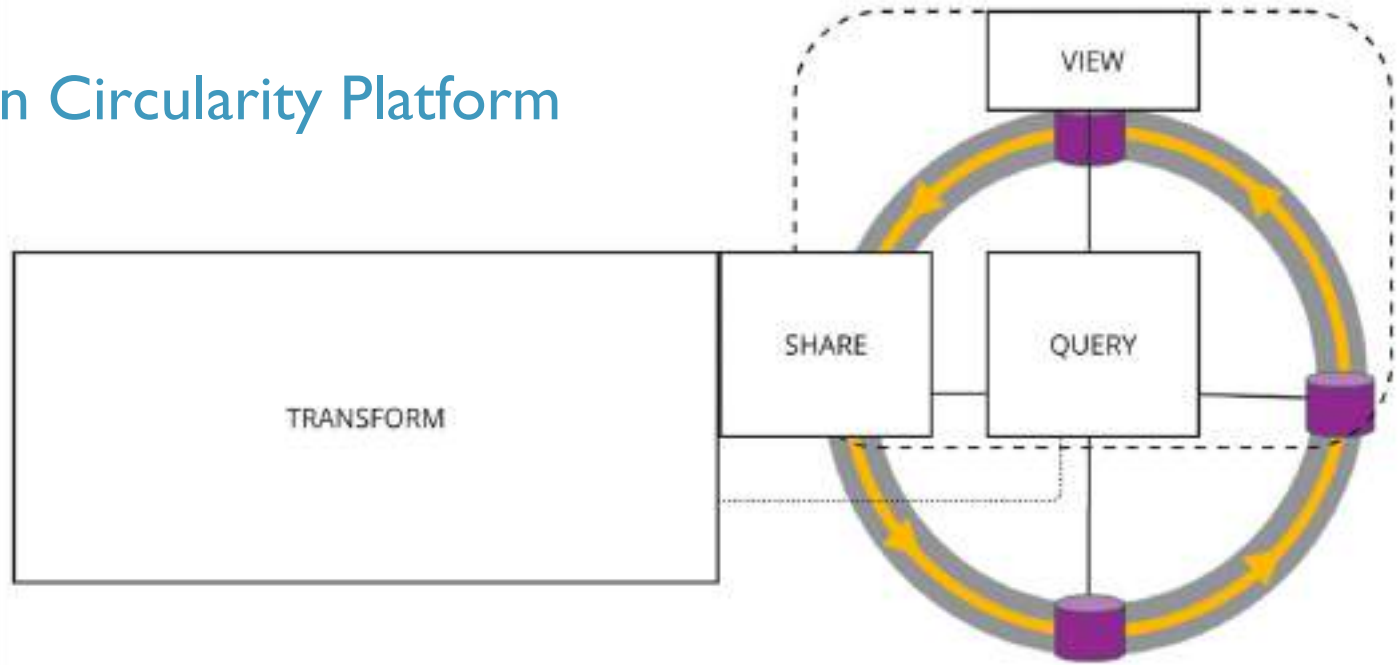
The Open Circularity Platform

Technical solution for permissioned data sharing

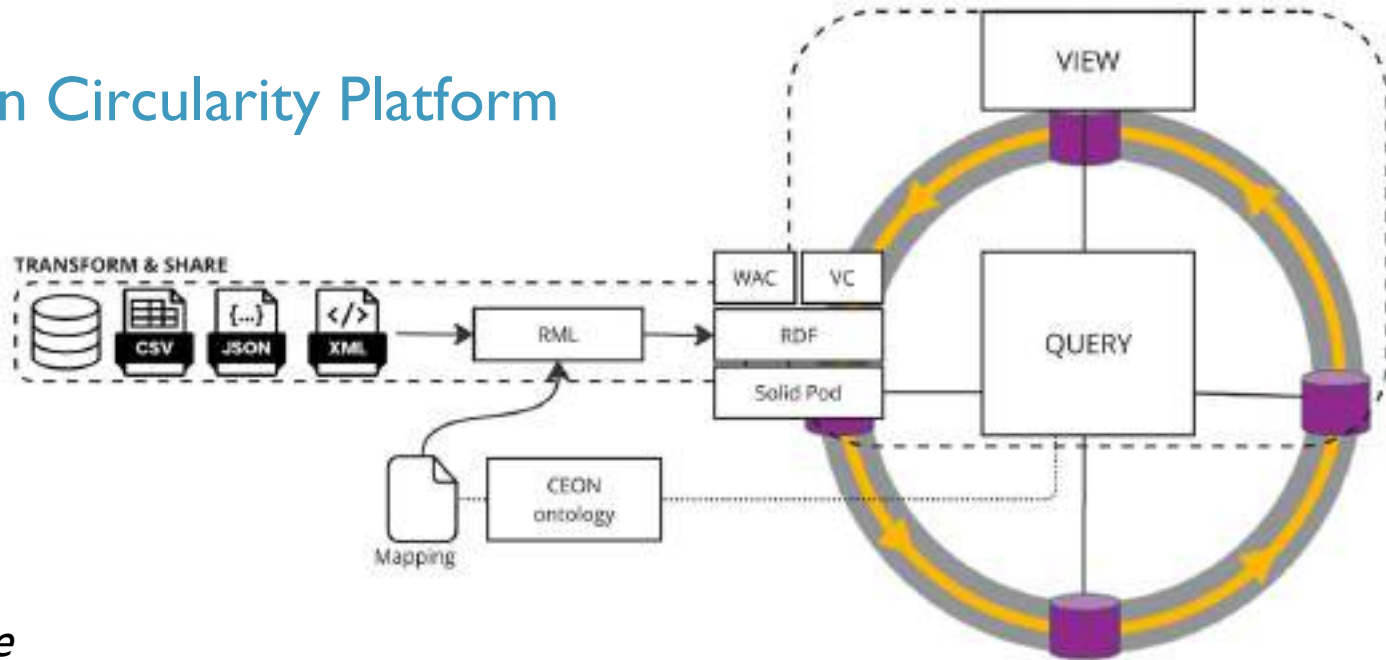
- Built on open Web standards
- Enables companies to participate and collaborate on the platform in four steps, i.e.:
 - **Transform** – To map source data to an interoperable representation
 - **Share** – To configure which data is shared with whom
 - **Query** – To retrieve the information spread across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



The Open Circularity Platform



The Open Circularity Platform

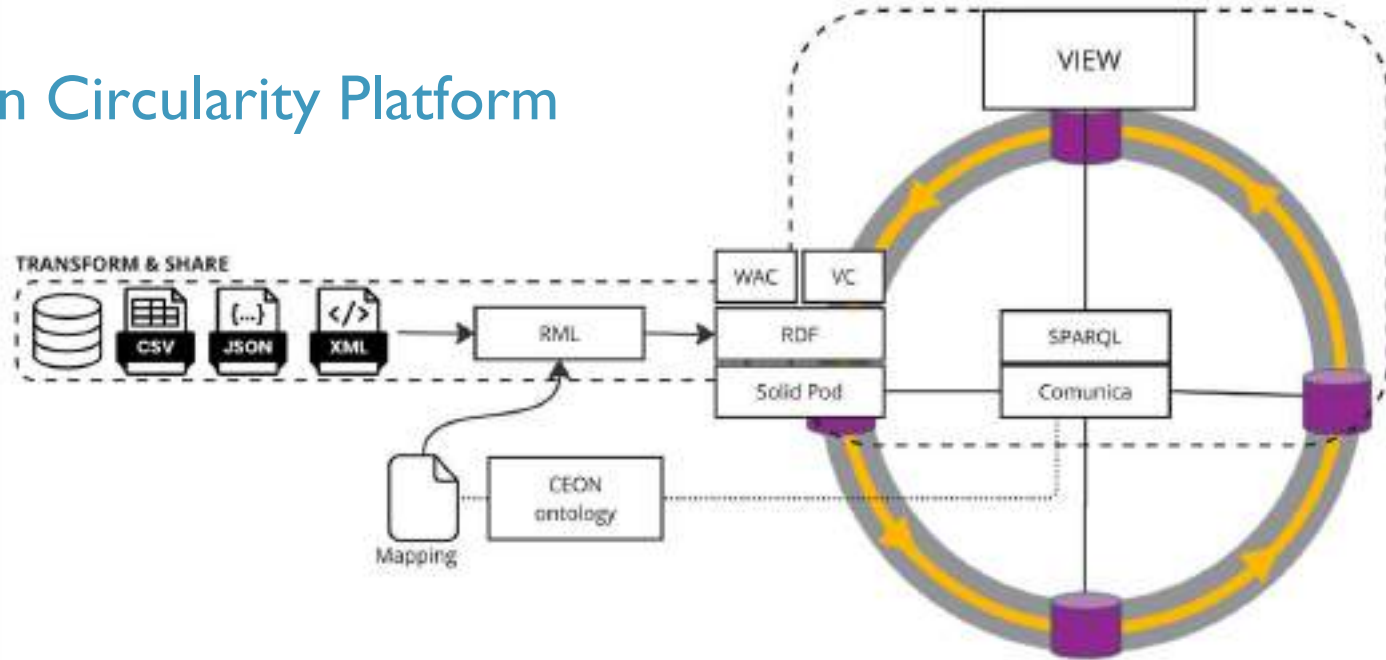


Step 2 – Share

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

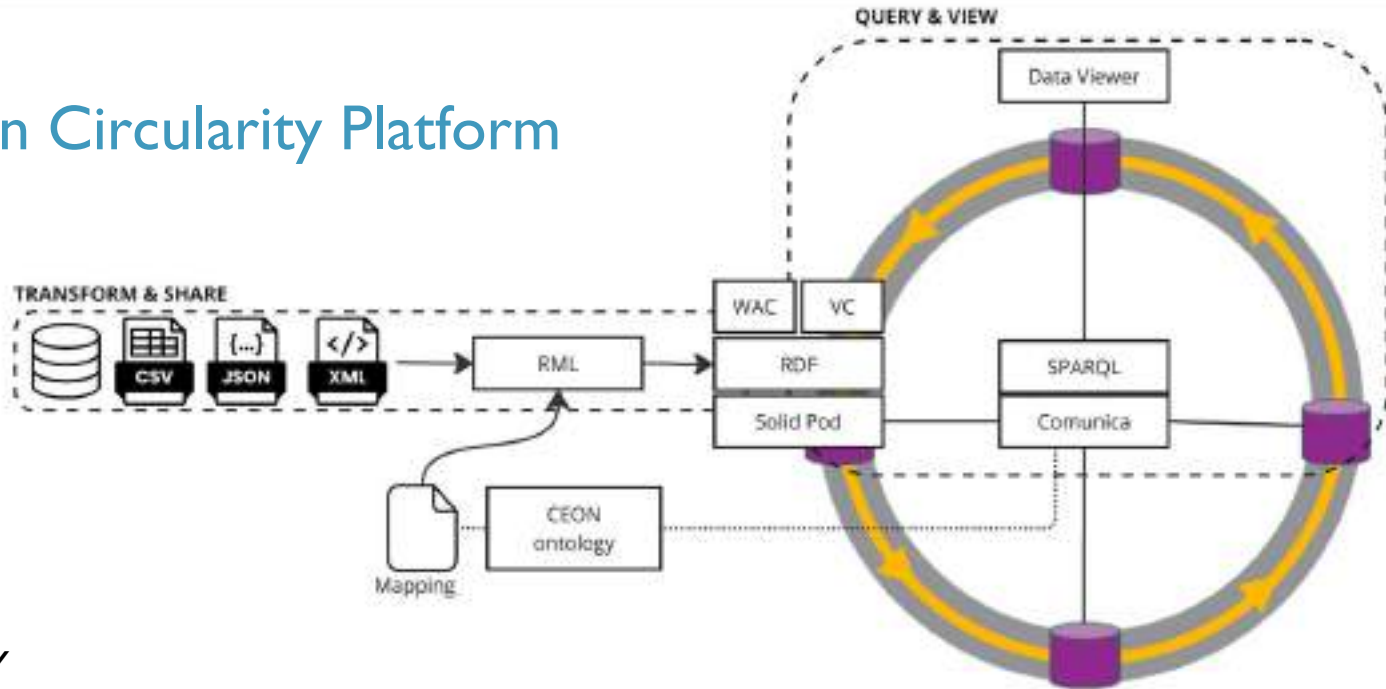


Step 3 – Query

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.

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.

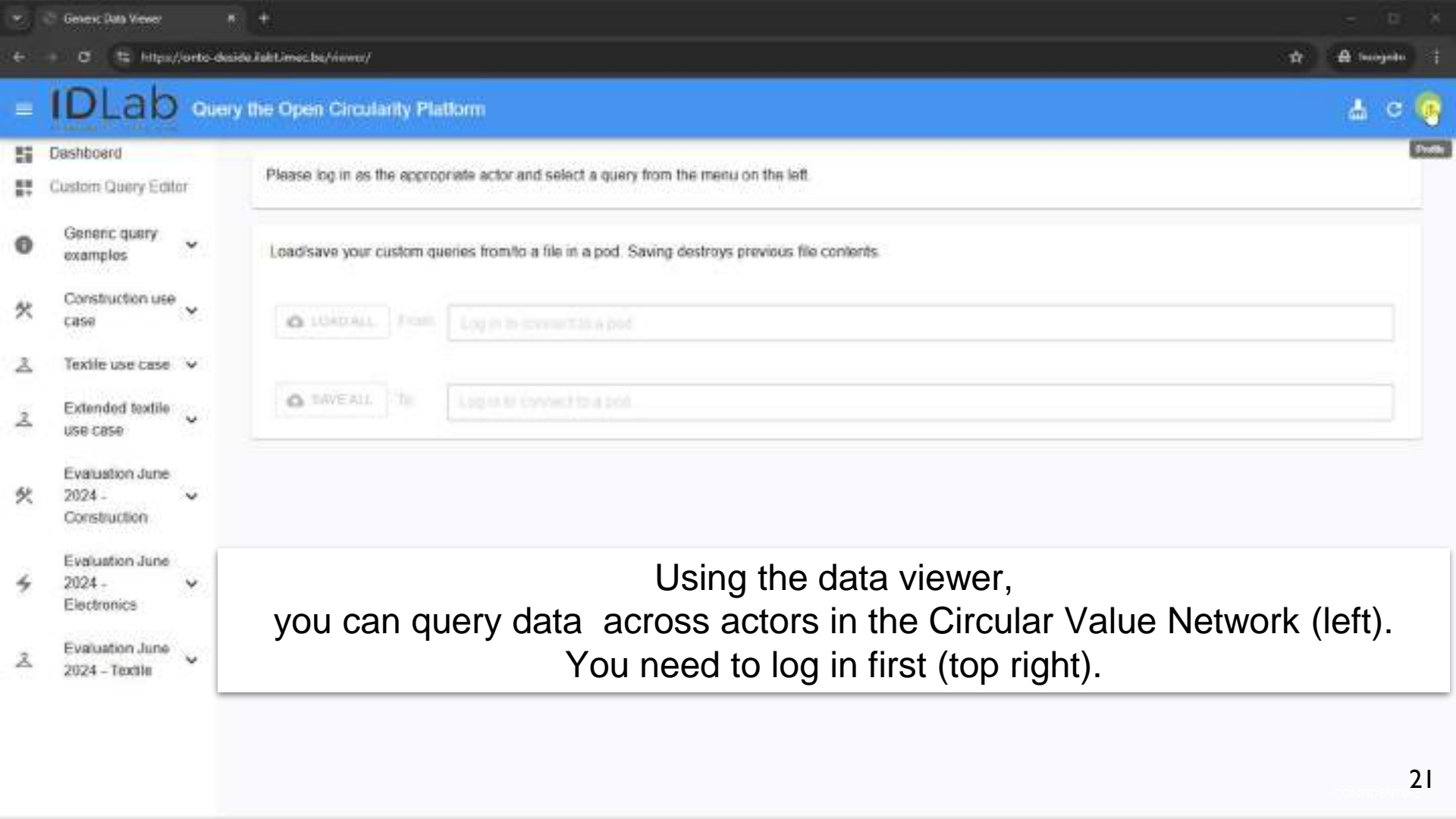
The Open Circularity Platform: developed solutions

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
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- **Demo**
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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-ocaida.kit.umec.be/#/view/

IDLab Query the Open Circularity Platform

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.

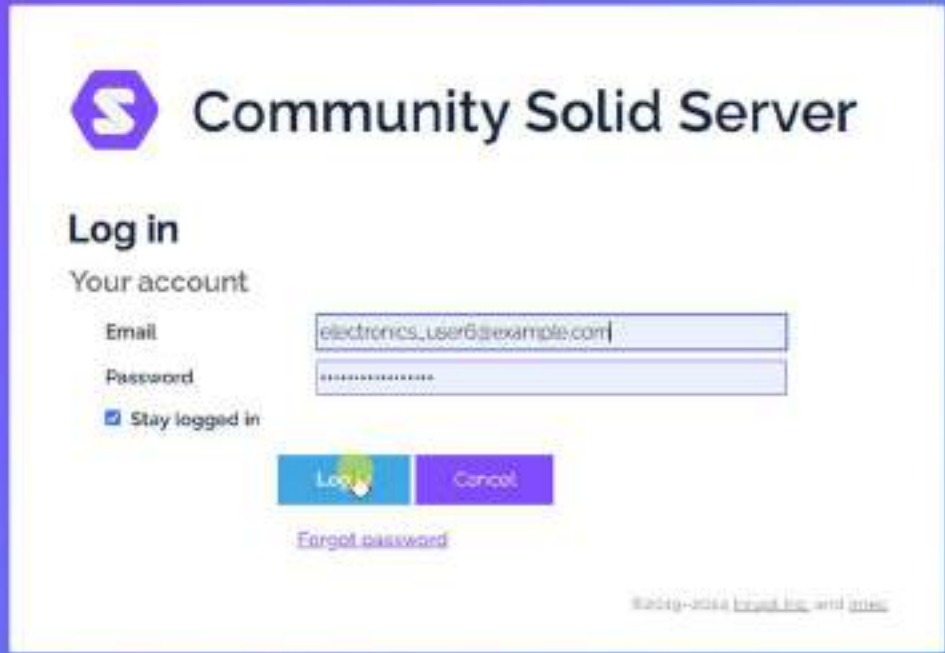
LOAD ALL From: Log in to connect to a pod

SAVE ALL To: Log in to connect to a pod

login

https://onto-decide.fabf.imec.be

Login



The image shows a web browser window displaying the login page for 'Community Solid Server'. The page has a white background with a purple header area. At the top left is a purple hexagonal logo with a white 'S'. To its right is the text 'Community Solid Server'. Below this is the heading 'Log in' and the sub-heading 'Your account'. There are two input fields: 'Email' containing 'electronics_user6@example.com' and 'Password' which is masked with dots. A checkbox labeled 'Stay logged in' is checked. Below the fields are two buttons: a blue 'Log in' button and a purple 'Cancel' button. A link for 'Forgot password?' is located below the buttons. At the bottom right of the page, there is a small copyright notice: '©2019-2024 fakimec.be, and others'.

We log in as the manufacturer of a speaker.



Community Solid Server

An application is requesting access

Do you trust this application to read and write data on your behalf?

Name: Generic Data Viewer

ID: Ubx07sB-vcUf3cFxlZqCz

Choose your WebID to authorize

https://onto-decide.lab.limec.be/css11/electronics_user6/profile/card#me

Remember this client

Authorize

Cancel

[Edit account](#)

[Use a different account](#)

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Generic Data Viewer

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

IDLab Query the Open Circularity Platform

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Evaluation June 2024 - Construction

Evaluation June 2024 - Electronics

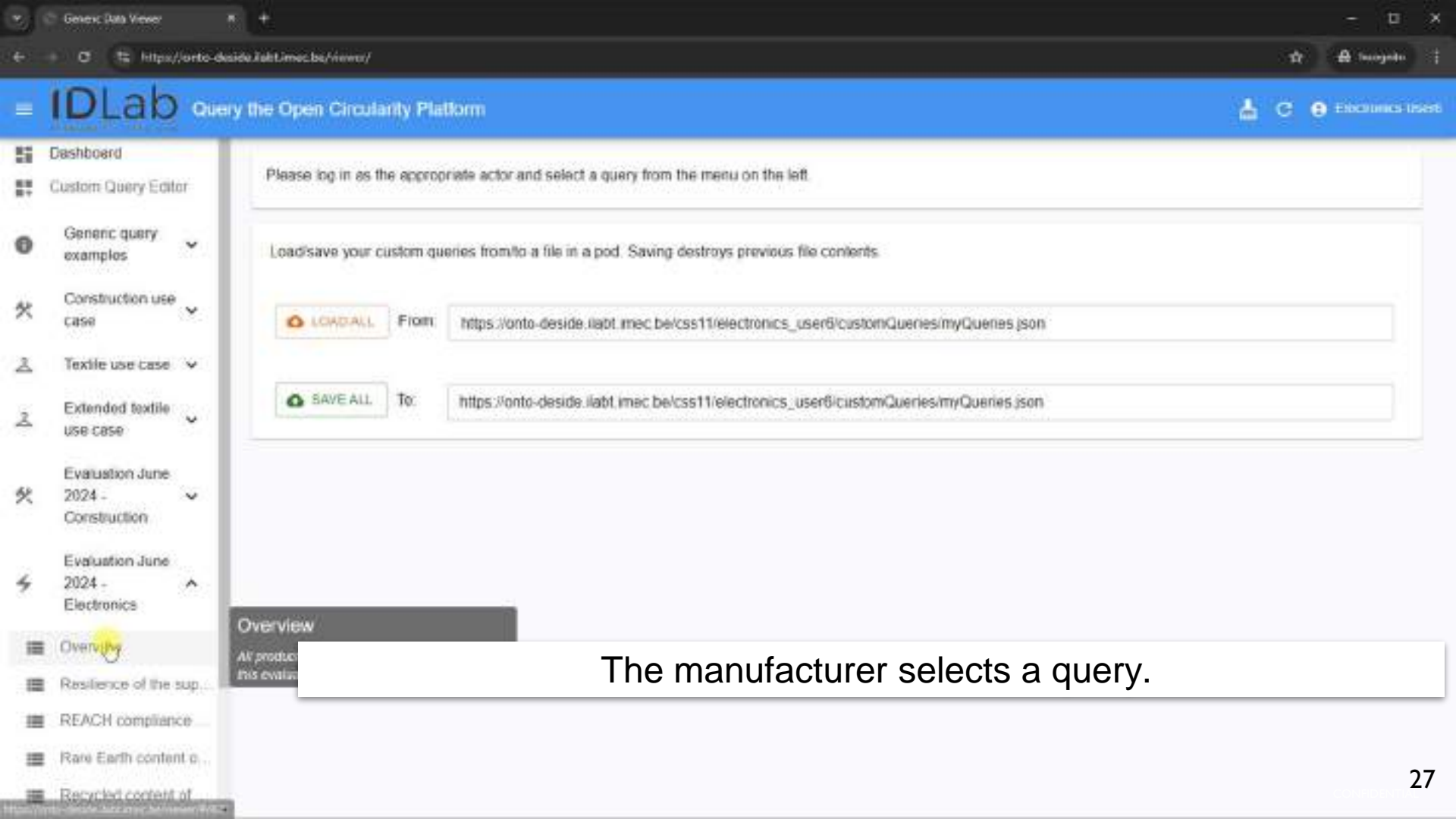
Evaluation June 2024 - Textile

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:

SAVE ALL To:



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:

SAVE ALL To:

Overview

All products
for evaluation

The manufacturer selects a query.

Generic Data Viewer

https://onto-decide.fabrlimec.be/viewer/#/420

Electronics Users

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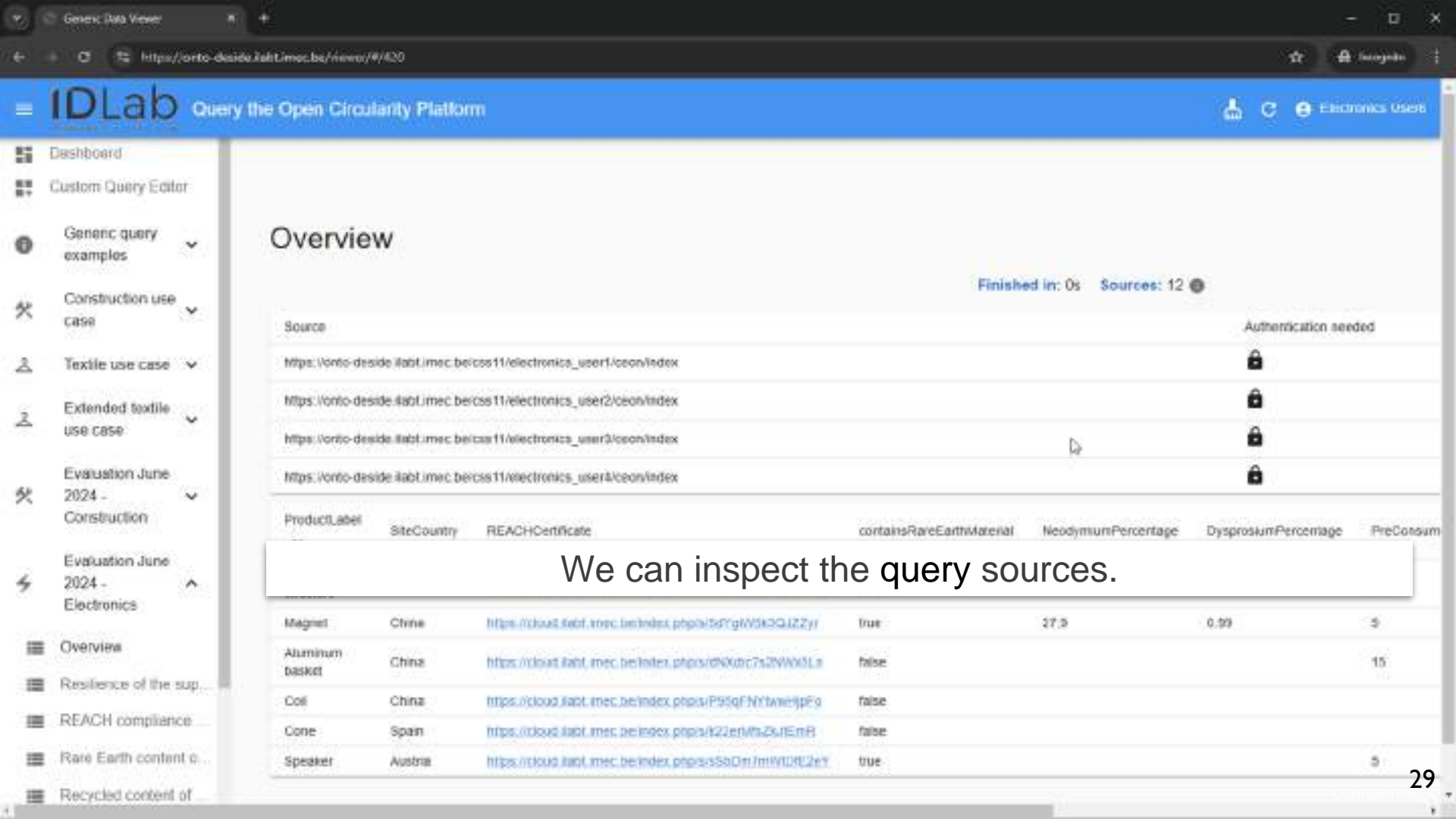
Overview

Finished in: 0s Sources: 12

ProductLabel	SiteCountry	REACHCertificate	containsRareEarthMaterial	NeodymiumPercentage	DysprosiumPercentage	PreConsum
Electrical structure		https://cloud.fabrlimec.be/index.php/s/ZNSZFEsAC7p2N00	true			3
Magnet	China	https://cloud.fabrlimec.be/index.php/s/697gW9k0QJZZy7	true	27.9	0.99	5
Aluminum basket	China	https://cloud.fabrlimec.be/index.php/s/dN0Kc7s2NWdLN	false			10
Coil	China	https://cloud.fabrlimec.be/index.php/s/F95qFNY7wrtjPE9	false			
Cone	Spain	https://cloud.fabrlimec.be/index.php/s/t22erM5ZkUEmR	false			
Speaker	Austria	https://cloud.fabrlimec.be/index.php/s/5oDn7mWDFE2eY	true			5

The manufacturer sees 6 results, fetched from 12 sources

28



Overview

Finished in: 0s Sources: 12

Source	Authentication needed
https://onto-decide.fabf.umec.be/css1/electronics_user1/ceon/index	
https://onto-decide.fabf.umec.be/css1/electronics_user2/ceon/index	
https://onto-decide.fabf.umec.be/css1/electronics_user3/ceon/index	
https://onto-decide.fabf.umec.be/css1/electronics_user4/ceon/index	

ProductLabel	SiteCountry	REACHCertificate	containsRareEarthMaterial	NeodymiumPercentage	DysprosiumPercentage	PreConsum
Magnet	China	https://cloud.fabf.umec.be/index.php/s/5P7gW5kDQJZ2y/	true	27.3	0.99	5
Aluminum basket	China	https://cloud.fabf.umec.be/index.php/s/6N0bc7s2NWX5Ls/	false			15
Coil	China	https://cloud.fabf.umec.be/index.php/s/P95qFNy7wv0jP0/	false			
Cone	Spain	https://cloud.fabf.umec.be/index.php/s/k22erVfsZk/EtR/	false			
Speaker	Austria	https://cloud.fabf.umec.be/index.php/s/5S0Dm7m9YDRU2eY/	true			5

We can inspect the query sources.

Generic Data Viewer

https://onto-decide.fab1.umec.be/#/420

Electronics User6

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https://onto-decide.fab1.umec.be/...
 https://onto-decide.fab1.umec.be/css11/electronics_user3/ceon/index
 https://onto-decide.fab1.umec.be/css11/electronics_user4/ceon/index
 https://onto-decide.fab1.umec.be/css11/electronics_user5/ceon/index
 https://onto-decide.fab1.umec.be/css11/electronics_user5/ceon/index

ProductLabel	SiteCountry	REACHCertificate	containsRareEarthMaterial	NeodymiumPercentage	DysprosiumPercentage	PreConsum
Electrical structure		https://cloud.fab1.umec.be/index.php/s/ZNSZFEsAC7x0Nk0	true			3
Magnet	China	https://cloud.fab1.umec.be/index.php/s/5d7gW5kDQJZ2y7	true	27.9	0.99	5
Aluminum basket	China	https://cloud.fab1.umec.be/index.php/s/dN0xc7s2NWXSLs	false			15
Coil	China	https://cloud.fab1.umec.be/index.php/s/P55qFNy3w8jpf0	false			
Cone	Spain	https://cloud.fab1.umec.be/index.php/s/k22erVfsZkuEmR	false			
Speaker	Austria	https://cloud.fab1.umec.be/index.php/s/5SbDxt/mwVDRCEzY	true			5

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Overview

Finished in: 0s Sources: 12

https://onto-deside.fabf.imec.be/csa11/electronics_user5/ceon/index							🔒
https://onto-deside.fabf.imec.be/csa11/electronics_user5/ceon/index							🔒
https://onto-deside.fabf.imec.be/csa11/electronics_user1/ceon/product-JUY9242							🔒
https://onto-deside.fabf.imec.be/csa11/electronics_user2/ceon/product-IJYT567							🔒
https://onto-deside.fabf.imec.be/csa11/electronics_user3/ceon/product-OIP8397							🔒
ProductLabel	SiteCountry	REACHCertificate	containsRareEarthMaterial	NeodymiumPercentage	DysprosiumPercentage	PreConsum	
Electrical structure		https://cloud.fabf.imec.be/index.php/s/ZNSZFEsAC7x0NwI	true			3	
Magnet	China	https://cloud.fabf.imec.be/index.php/s/5d7gW5kDQJZ2yI	true	27.9	0.99	5	
Aluminum basket	China	https://cloud.fabf.imec.be/index.php/s/dN0xc7s2NWXSLs	false			15	
Coil	China	https://cloud.fabf.imec.be/index.php/s/P55qFNy3wEjP0s	false				
Cone	Spain	https://cloud.fabf.imec.be/index.php/s/k22erVfsZkUEmR	false				
Speaker	Austria	https://cloud.fabf.imec.be/index.php/s/5SbDsfImwVDRCEzY	true			5	

Generic Data Viewer

https://onto-deside.fab1.umec.be/verso/#/420

Electronics User6

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Finished in: 0s Sources: 12

- https://onto-deside.fab1.umec.be/css11/electronics_user1/ceon/product-JUY9242
- https://onto-deside.fab1.umec.be/css11/electronics_user2/ceon/product-IJYT567
- https://onto-deside.fab1.umec.be/css11/electronics_user3/ceon/product-OIP6197
- https://onto-deside.fab1.umec.be/css11/electronics_user4/ceon/product-VTE0953
- https://onto-deside.fab1.umec.be/css11/electronics_user5/ceon/product-KYU0987

ProductLabel	SiteCountry	REACHCertificate	containsRareEarthMaterial	NeodymiumPercentage	DysprosiumPercentage	PreConsum
Electrical structure		https://cloud.fab1.umec.be/index.php/s/2NSZFEsAC7p0NwI	true			3
Magnet	China	https://cloud.fab1.umec.be/index.php/s/5d7gw5kDQJZ2yI	true	27.3	0.99	5
Aluminum basket	China	https://cloud.fab1.umec.be/index.php/s/dN00bc7s2NWXSLs	false			15
Coil	China	https://cloud.fab1.umec.be/index.php/s/P55qFNy3wEjpfO	false			
Cone	Spain	https://cloud.fab1.umec.be/index.php/s/k22erVfsZkUEmR	false			
Speaker	Austria	https://cloud.fab1.umec.be/index.php/s/5SbDsrImwVDRCEzY	true			5

Generic Data Viewer

https://onto-deside.fab1.umec.be/viewer/#/420

Electronics User

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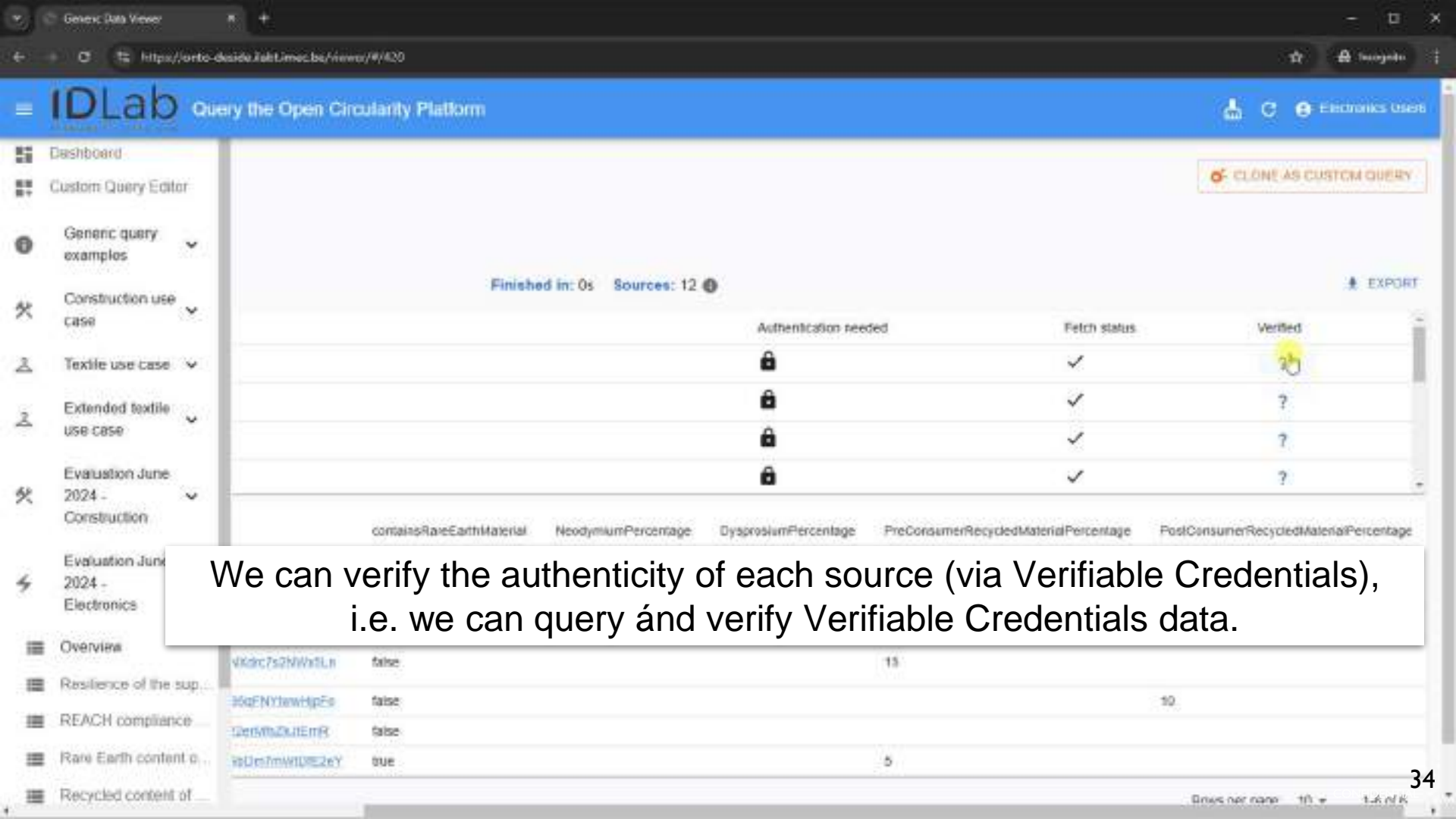
Finished in: 0s Sources: 12

Source	Authentication needed
https://onto-deside.fab1.umec.be/css11/electronics_user1/ceon/index	
https://onto-deside.fab1.umec.be/css11/electronics_user2/ceon/index	
https://onto-deside.fab1.umec.be/css11/electronics_user3/ceon/index	
https://onto-deside.fab1.umec.be/css11/electronics_user4/ceon/index	

ProductLabel	SiteCountry	REACHCertificate	containsRareEarthMaterial	NeodymiumPercentage	DysprosiumPercentage	PreConsum
Electrical structure						3
Magnet	China	https://cloud.fab1.umec.be/index.php/s/5P7gW9kDQJZ2y/	true	27.3	0.99	5
Aluminum basket	China	https://cloud.fab1.umec.be/index.php/s/6N0xc7s2NWXSLs	false			15
Coil	China	https://cloud.fab1.umec.be/index.php/s/P95qFNy1wv0jP0	false			
Cone	Spain	https://cloud.fab1.umec.be/index.php/s/k22erVfsZk/EtR	false			
Speaker	Austria	https://cloud.fab1.umec.be/index.php/s/5S8DmJmWDRU2eY	true			5

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

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CLONE AS CUSTOM QUERY

Finished in: 0s Sources: 12

EXPORT

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

We can verify the authenticity of each source (via Verifiable Credentials), i.e. we can query and verify Verifiable Credentials data.

	containsRareEarthMaterial	NeodymiumPercentage	DysprosiumPercentage	PreConsumerRecycledMaterialPercentage	PostConsumerRecycledMaterialPercentage
vKdrc7s2NwXSLn	false		13		
3dENY1ewbJpEs	false				10
2erWb3kUEmR	false				
isDes7mWIDIS2eY	true		5		

Generic Data Viewer

https://onto-ocaida.faklimesc.be/ovvo/#/420

IDLab Query the Open Circularity Platform

Electronics Users

CLONE AS CUSTOM QUERY

Finished in: 0s Sources: 12

EXPORT

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

	containsRareEarthMaterial	NeodymiumPercentage	DysprosiumPercentage	PreConsumerRecycledMaterialPercentage	PostConsumerRecycledMaterialPercentage
NSZFEsACXp2NXI	true			3	
f1qW9K3QzZy	true	27.9	0.99	5	
VKdc7s2NWh3Ln	false			13	
3qdENY1ewdJpEs	false				10
72erVh3kUEmR	false				
isDes7mWIDIS2eY	true			5	

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Generic Data Viewer

https://onto-ocaida.fab.cmu.edu/visual/#/420

IDLab Query the Open Circularity Platform

Electronics Users

CLONE AS CUSTOM QUERY

Finished in: 0s Sources: 12

EXPORT

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

	containsRareEarthMaterial	NeodymiumPercentage	DysprosiumPercentage	PreConsumerRecycledMaterialPercentage	PostConsumerRecycledMaterialPercentage
NSZFEsACXp2NXI	true			3	
f1qW9K3QzZyI	true	27.9	0.99	5	
VKdc7s2NWh3Ln	false			13	
3qdENY1ewdJpEs	false				10
2erWb3kUEmR	false				
isDes7mWIDIS2eY	true			5	

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Generic Data Viewer

https://onto-ocaida.fab.cmu.edu/viewer/#/420

Electronics User

IDLab

Query the Open Circularity Platform

CLONE AS CUSTOM QUERY

Finished in: 0s Sources: 12

EXPORT

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

	containsRareEarthMaterial	NeodymiumPercentage	DysprosiumPercentage	PreConsumerRecycledMaterialPercentage	PostConsumerRecycledMaterialPercentage
NSZFEsACXp2NXI	true			3	
f1qW9K3QzZy	true	27.9	0.99	5	
VKdc7s2NWh3Ln	false			13	
3dENY1ewdJpEs	false				10
2erWb3kUEmR	false				
isDes7mWdIS2eY	true			5	

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Generic Data Viewer

https://onto-ocida.fab.cmu.edu/viewer/#/420

IDLab Query the Open Circularity Platform

Electronics User

CLONE AS CUSTOM QUERY

Finished in: 0s Sources: 12 ⓘ EXPORT

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

	containsRareEarthMaterial	NeodymiumPercentage	DysprosiumPercentage	PreConsumerRecycledMaterialPercentage	PostConsumerRecycledMaterialPercentage
NSZFEsACx0NXI	true			3	
ItqW9K3QJZ2y	true	27.9	0.99	5	
VKdc7s2NWx5Ln	false			15	
3qENY3xwtjPe	false				10
J2enVb26JtErR	false				
i8De7mWIDe2eY	true			5	

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Generic Data Viewer

https://onto-ideia.fab.cmu.edu/viewer/#/420

Electronics User6

IDLab Query the Open Circularity Platform

CLONE AS CUSTOM QUERY

Finished in: 0s Sources: 12

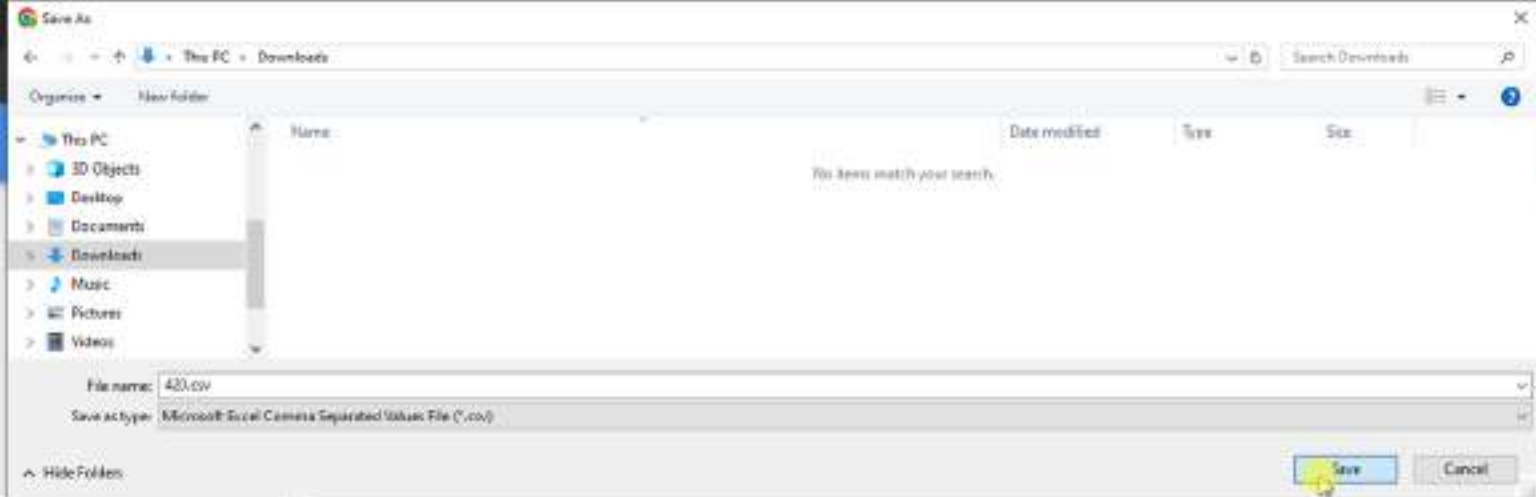
EXPORT

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

	containsRareEarthMaterial	NeodymiumPercentage	DysprosiumPercentage	PreConsumerRecycledMaterialPercentage	PostConsumerRecycledMaterialPercentage
NSZFEsACKx0NXI	true			3	
39dENY3kwtjpeS	false				10
2enVth2kUEmR	false				
isDe7mWIDIE2eY	true			5	

Data results can be exported (to CSV)

1-6 of 6



Extended textile use case									Verified
									✓
									✓
									?
Evaluation June 2024 - Construction									
		containsRareEarthMaterial	NeodymiumPercentage	DysprosiumPercentage	PreConsumerRecycledMaterialPercentage	PostConsumerRecycledMaterialPercentage			
Evaluation June 2024 - Electronics	VSZFEsACx0NXI	true			3				
	11qW9K3QUZ2yI	true	27.9	0.99	5				
	VKdc7s2NWx3Ln	false			15				
	3dENY3xwtjpEs	false				10			
	2enVth26JtEnR	false							
	ibDe7mVrDE2eY	true			5				

Generic Data Viewer

https://onto-ocaida.fab.cmu.edu/#/420

Electronics Users

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Query the Open Circularity Platform

Dashboard

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Construction use case

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EXPORT

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

	containsRareEarthMaterial	NeodymiumPercentage	DysprosiumPercentage	PreConsumerRecycledMaterialPercentage	PostConsumerRecycledMaterialPercentage
NSZFEsACXp2NXI	true			3	
f1qW9K3QzZyI	true	27.9	0.99	5	
VKdc7s2NWh3Ln	false			13	
3qdENY1ewdJpEs	false				10
72erVth2kUEmR	false				
isDes7mWlDfS2eY	true			5	

Anyone using this device can see downloaded files

42 Downloads

1.8 MB Done

41

Grids per page: 10 1-6 of 6

Microsoft Excel interface showing a spreadsheet with columns A through Q. The spreadsheet contains data for various products and their attributes. The formula bar shows 'ProductLabel.Id'.

ProductLabel	SiteCount	REACH	ContainsRareEarth	ContainsRoHS	ContainsREACH	ContainsRoHS	ContainsREACH	ContainsRoHS	Neodymium	Dysprosium	PreConsumer	PostConsumer	SiteCount	Neodymium	Dysprosium	PreConsumer	PostConsumer
"Electrical structure"	https://clic.Literat	TRUE	NamedNc	http://www.w3.org/2001/XMLSchema#3"	http://www.w3	0											
"Magner"	https://clic.Literat	TRUE	NamedNc	http://www.w3.org/2001/XMLSchema#5"	http://www.w3	1	"China"	27.9	0.99	http://www.w3							
"Aluminum basket"	https://clic.Literat	FALSE	NamedNc	http://www.w3.org/2001/XMLSchema#15"	http://www.w3	2	"China"										
"Coil"	https://clic.Literat	FALSE	NamedNc	http://www.w3.org/2001/XMLSchema#boolean		3	"China"										1
"Cone"	https://clic.Literat	FALSE	NamedNc	http://www.w3.org/2001/XMLSchema#boolean		4	"Spain"										
"Spaxier"	https://clic.Literat	TRUE	NamedNc	http://www.w3.org/2001/XMLSchema#5"	http://www.w3	5	"Austria"										

Web interface for 'Electronics Users' with a 'CLONE AS CUSTOM QUERY' button and an 'EXPORT' button. Below is a table with 'Fetch status' and 'Verified' columns.

Fetch status	Verified
✓	✔
✓	✔
✓	✔
✓	?

Microsoft Excel interface showing a list of products with columns for 'MaterialPercentage' and 'PostConsumerRecycledMaterialPercentage'.

MaterialPercentage	PostConsumerRecycledMaterialPercentage
3	
5	
13	
	10
5	

Web interface showing a table with columns 'MaterialPercentage' and 'PostConsumerRecycledMaterialPercentage'. The table data is partially visible, matching the Excel data above.

Generic Data Viewer

https://onto-deside.fab1.umec.be/viewer/#/420

IDLab Query the Open Circularity Platform

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Source Authentication needed

Source						
https://onto-deside.fab1.umec.be/css11/electronics_user1/ceon/index	Authentication needed					
https://onto-deside.fab1.umec.be/css11/electronics_user2/ceon/index	Authentication needed					
https://onto-deside.fab1.umec.be/css11/electronics_user3/ceon/index	Authentication needed					
https://onto-deside.fab1.umec.be/css11/electronics_user4/ceon/index	Authentication needed					

ProductLabel	SiteCountry	REACHCertificate	containsRareEarthMaterial	NeodymiumPercentage	DysprosiumPercentage	PreConsum
Electrical structure		https://cloud.fab1.umec.be/index.php/s/ZNSZFEsAC7p0NWt	true			3
Magnet	China	https://cloud.fab1.umec.be/index.php/s/5d7gW9kDQJZ2y/	true	27.3	0.99	5
Aluminum basket	China	https://cloud.fab1.umec.be/index.php/s/6N0bc7s2NWXSLs	false			15
Coil	China	https://cloud.fab1.umec.be/index.php/s/P95qFNy1wbcjP0	false			
Cone	Spain	https://cloud.fab1.umec.be/index.php/s/k22erVfsZk/EtR	false			
Speaker	Austria	https://cloud.fab1.umec.be/index.php/s/5SbDm7mWDRU2eY	true			5

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https://onto-decide.fabrlimec.be/viewer/#/420

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Rare Earth content of a product

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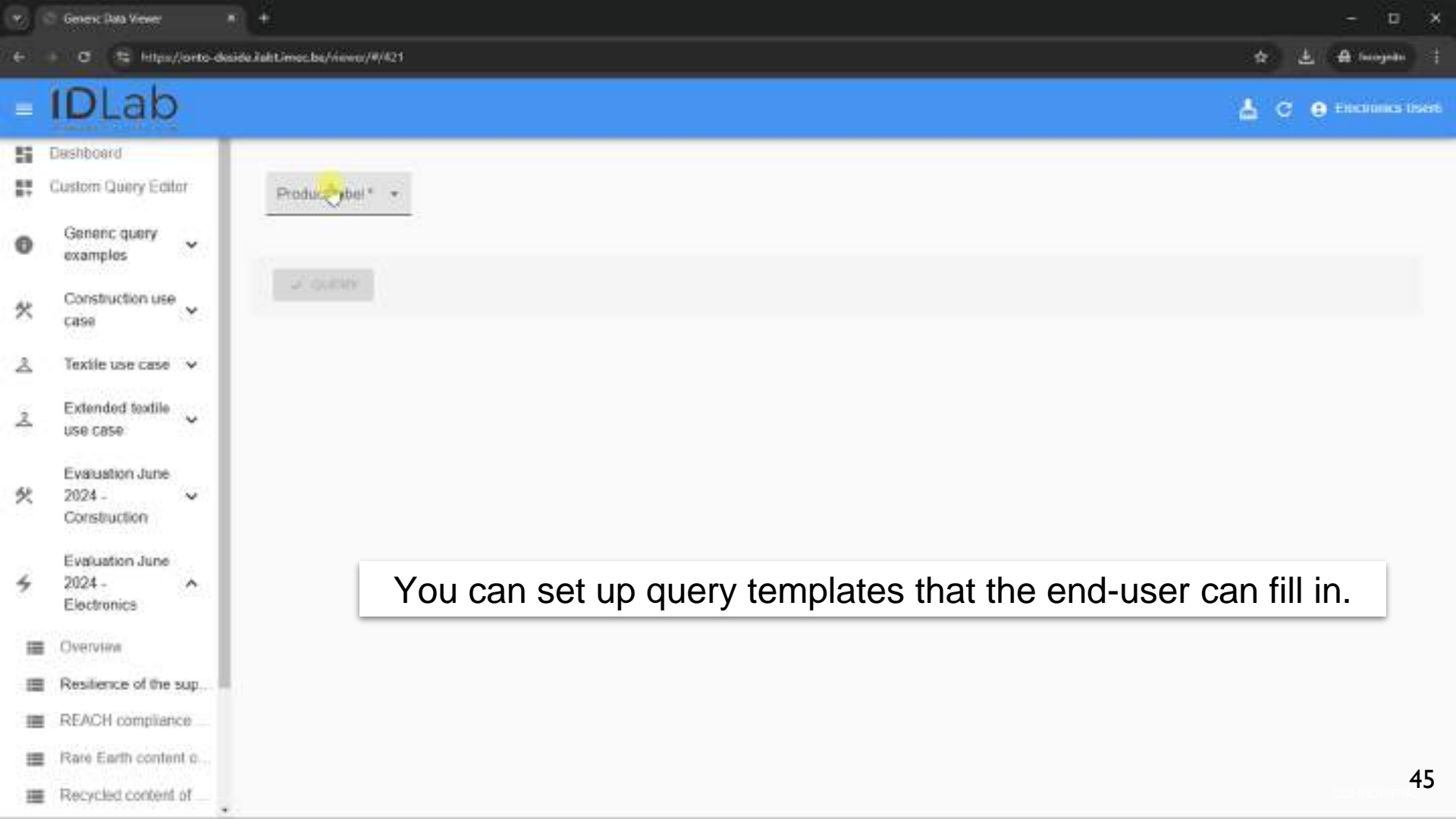
Overview

Finished in: 0s Sources: 12

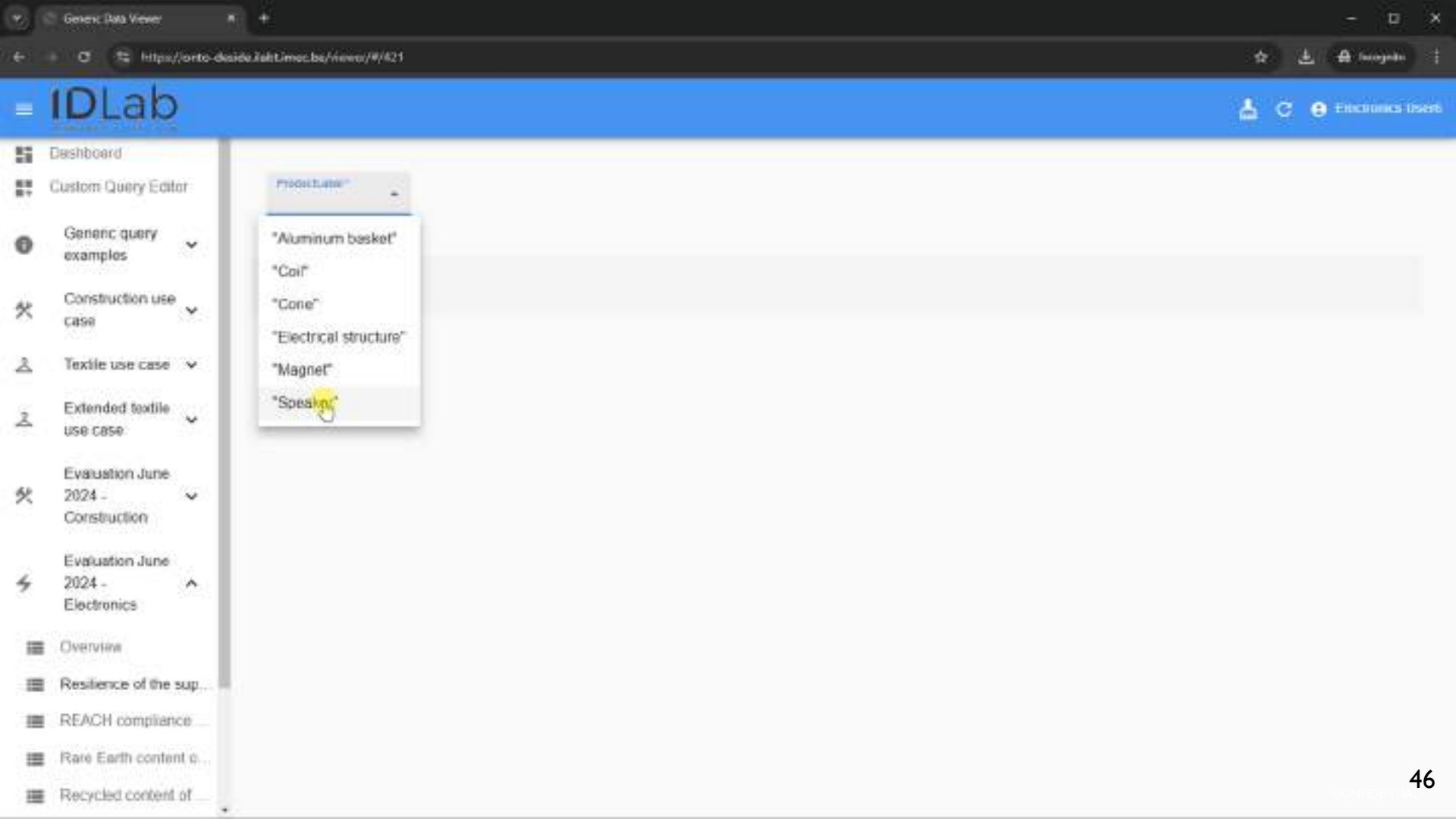
ProductLabel	SiteCountry	REACHCertificate	containsRareEarthMaterial	NeodymiumPercentage	DysprosiumPercentage	PreConsumption
Electrical structure		https://cloud.fabrlimec.be/index.php/s/ZNSZFEsAC7cp2N00	true			3
Magnet	China	https://cloud.fabrlimec.be/index.php/s/697gW9k0QJZZy/	true	27.9	0.99	5
Aluminum basket	China	https://cloud.fabrlimec.be/index.php/s/dN0Kc7s2NWdLN	false			10
Coil	China	https://cloud.fabrlimec.be/index.php/s/F95qFNY3wrtjPE9	false			
Cone	Spain	https://cloud.fabrlimec.be/index.php/s/k22erMfsZkUEmR/	false			
Speaker	Austria	https://cloud.fabrlimec.be/index.php/s/5oDn7m7WDE2eY/	true			5

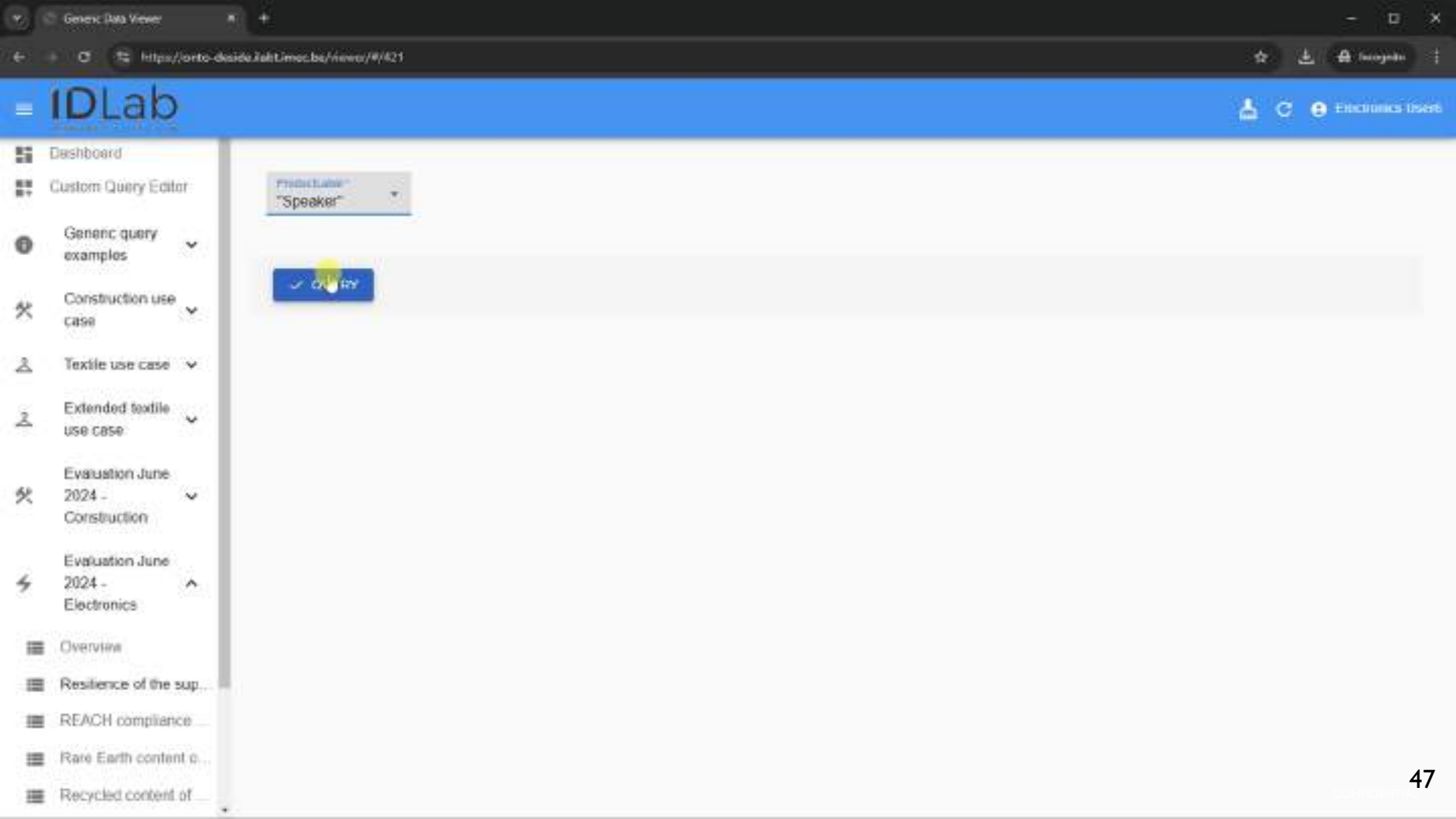
How resilient is the supply chain of a product, based on the origin of the materials?

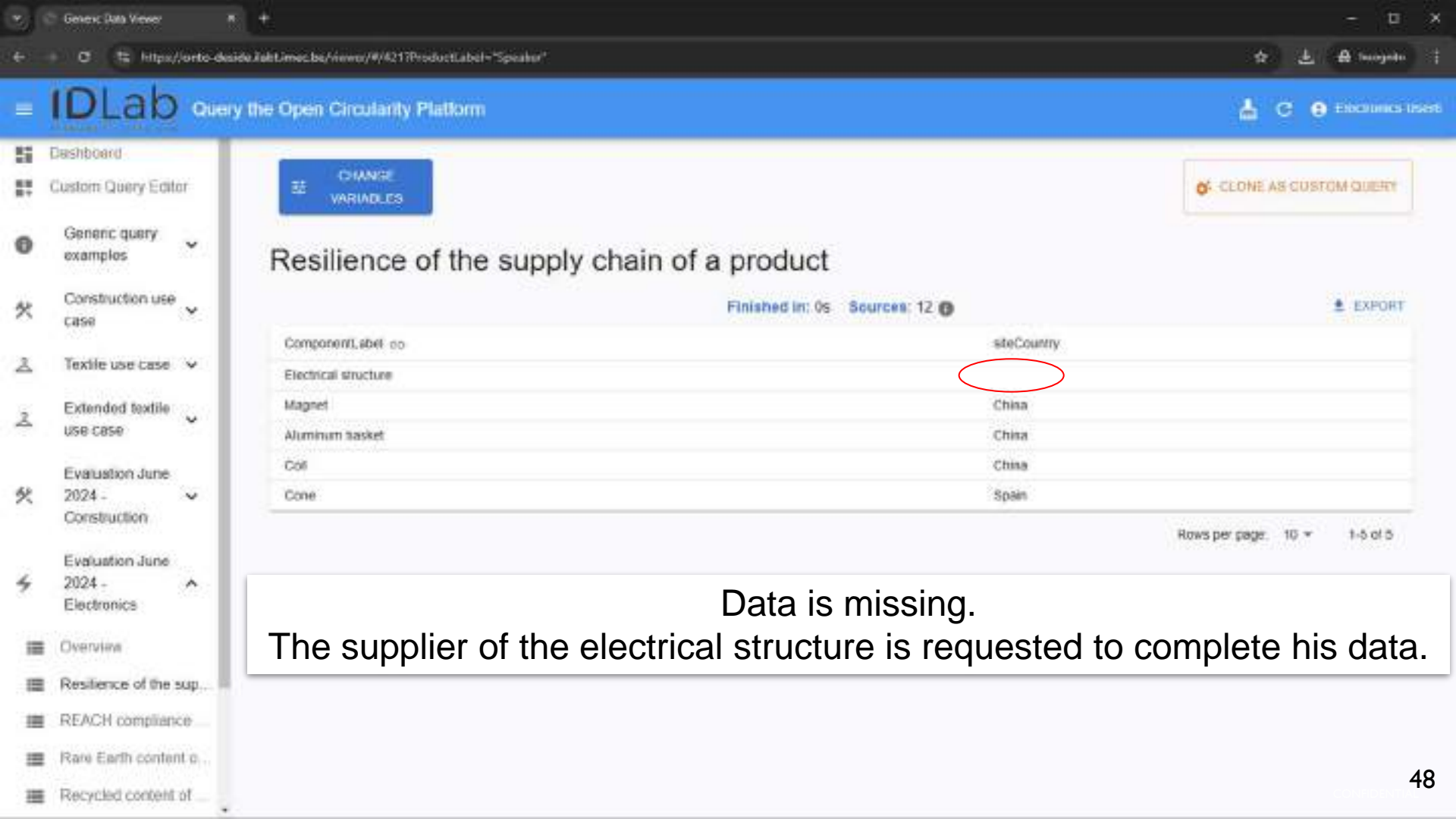
44



You can set up query templates that the end-user can fill in.







Resilience of the supply chain of a product

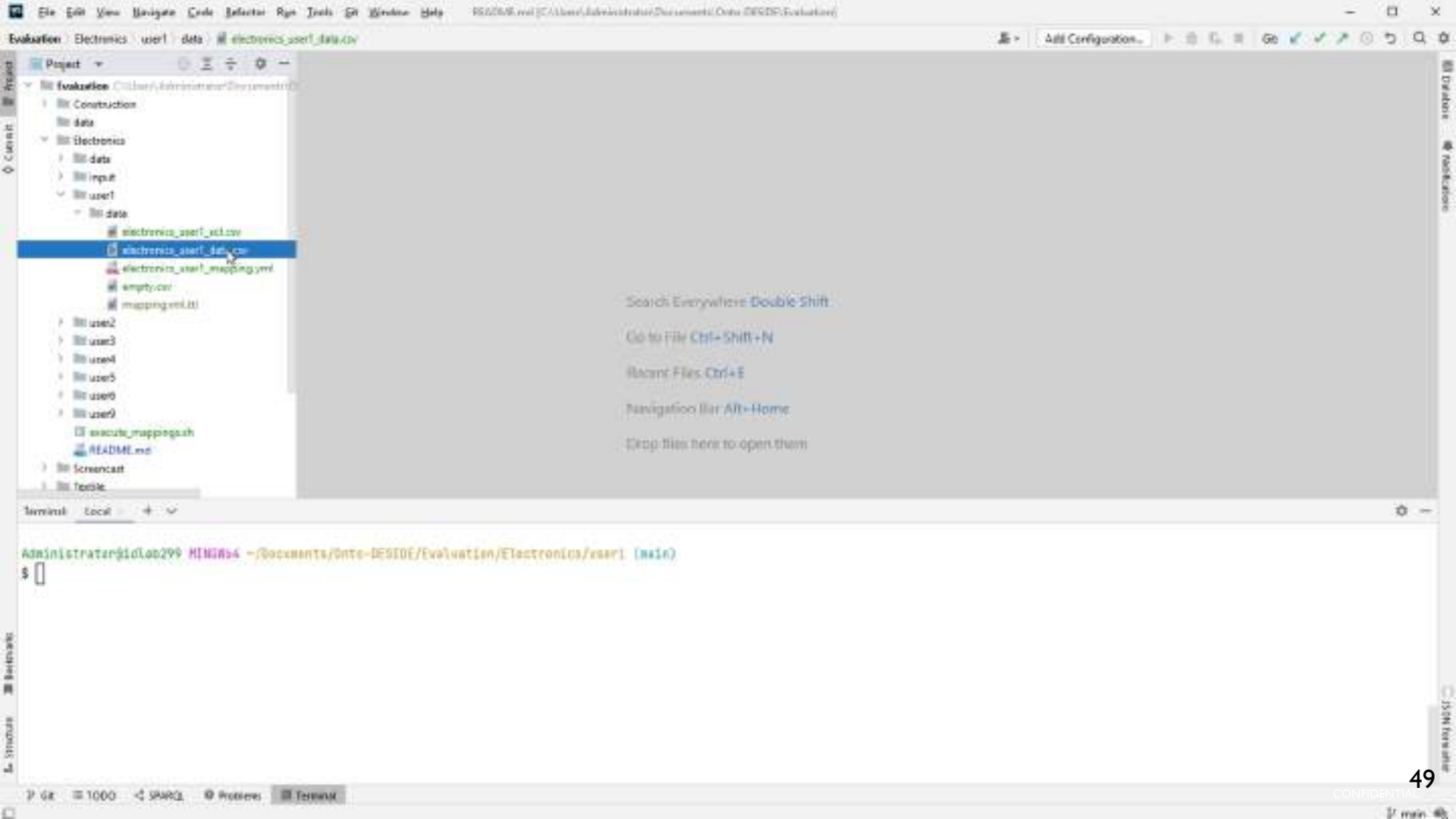
Finished in: 0s Sources: 12

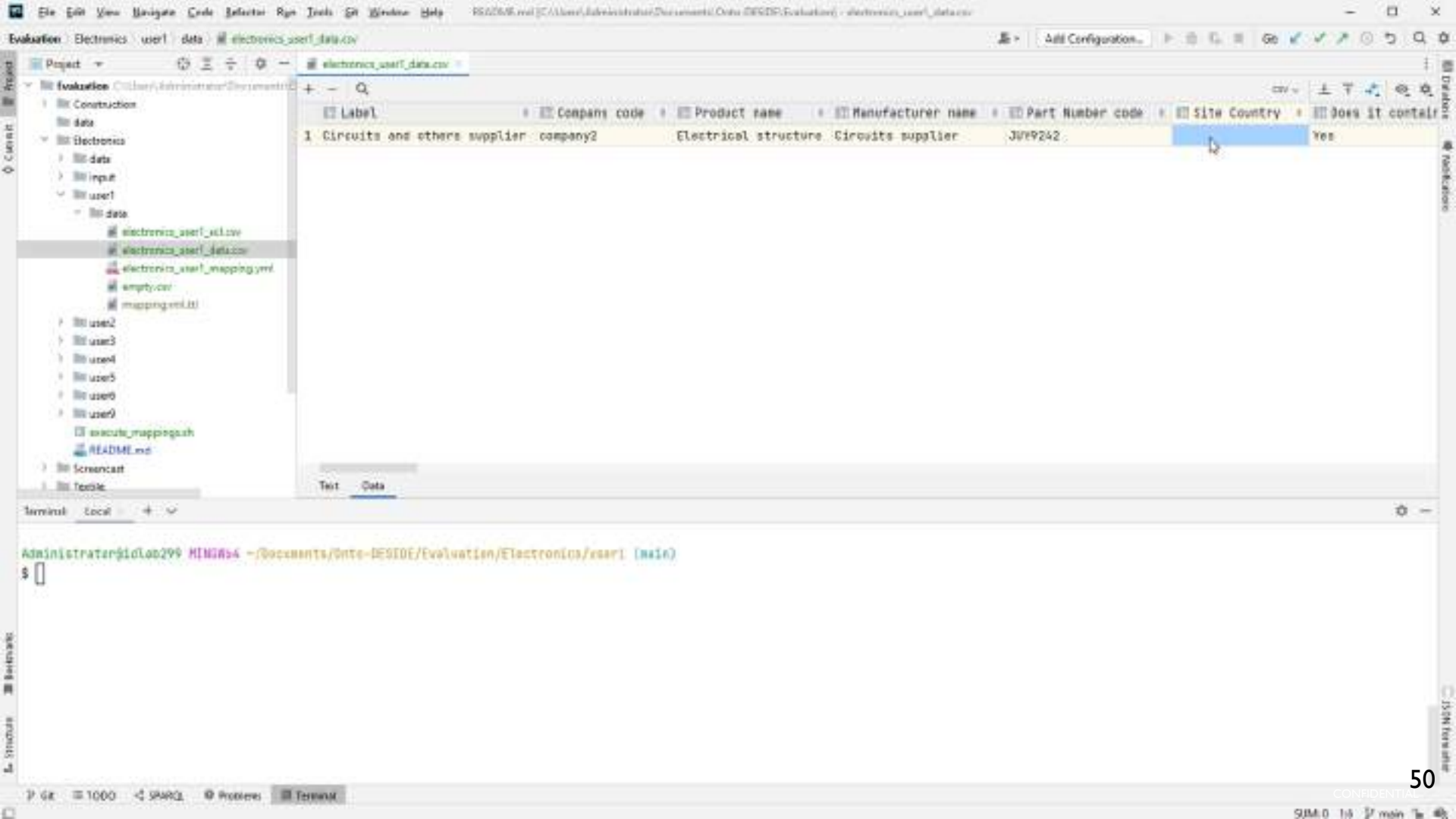
EXPORT

ComponentLabel	siteCountry
Electrical structure	
Magnet	China
Aluminum basket	China
Coil	China
Cone	Spain

Rows per page: 10 1-5 of 5

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





The screenshot shows a software application window titled "Evaluation: Electronics user1 data electronics_user1_data.csv". The main area displays a table with the following data:

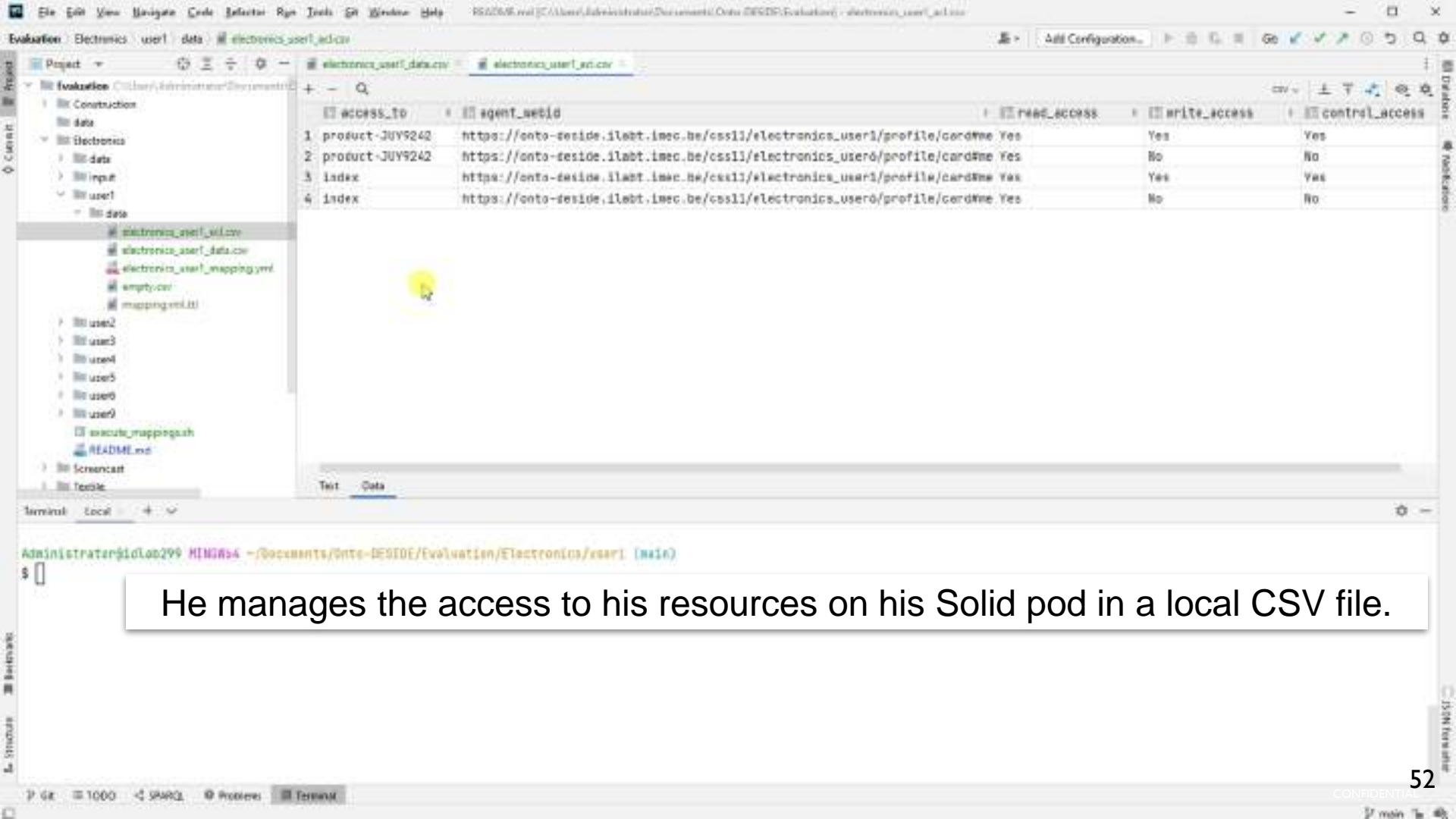
Label	Company code	Product name	Manufacturer name	Part Number code	Site Country	Does it contain	
1	Circuits and others supplier	company2	Electrical structure	Circuits supplier	JUY9242	Austria	Yes

The left sidebar shows a project tree with folders for "Construction", "data", "electronics", "input", "user1", "user2", "user3", "user4", "user5", "user6", "user9", "mapping", "mappingash", and "Tools". The "electronics" folder is expanded, showing "electronics_user1_data.csv" selected.

The supplier of the electrical structure updates his source data.

The terminal window shows the following text:

```
Administrator@idLab299: ~/Documents/Onco-DESIDE/Evaluation/Electronics/user1 (main)
$
```

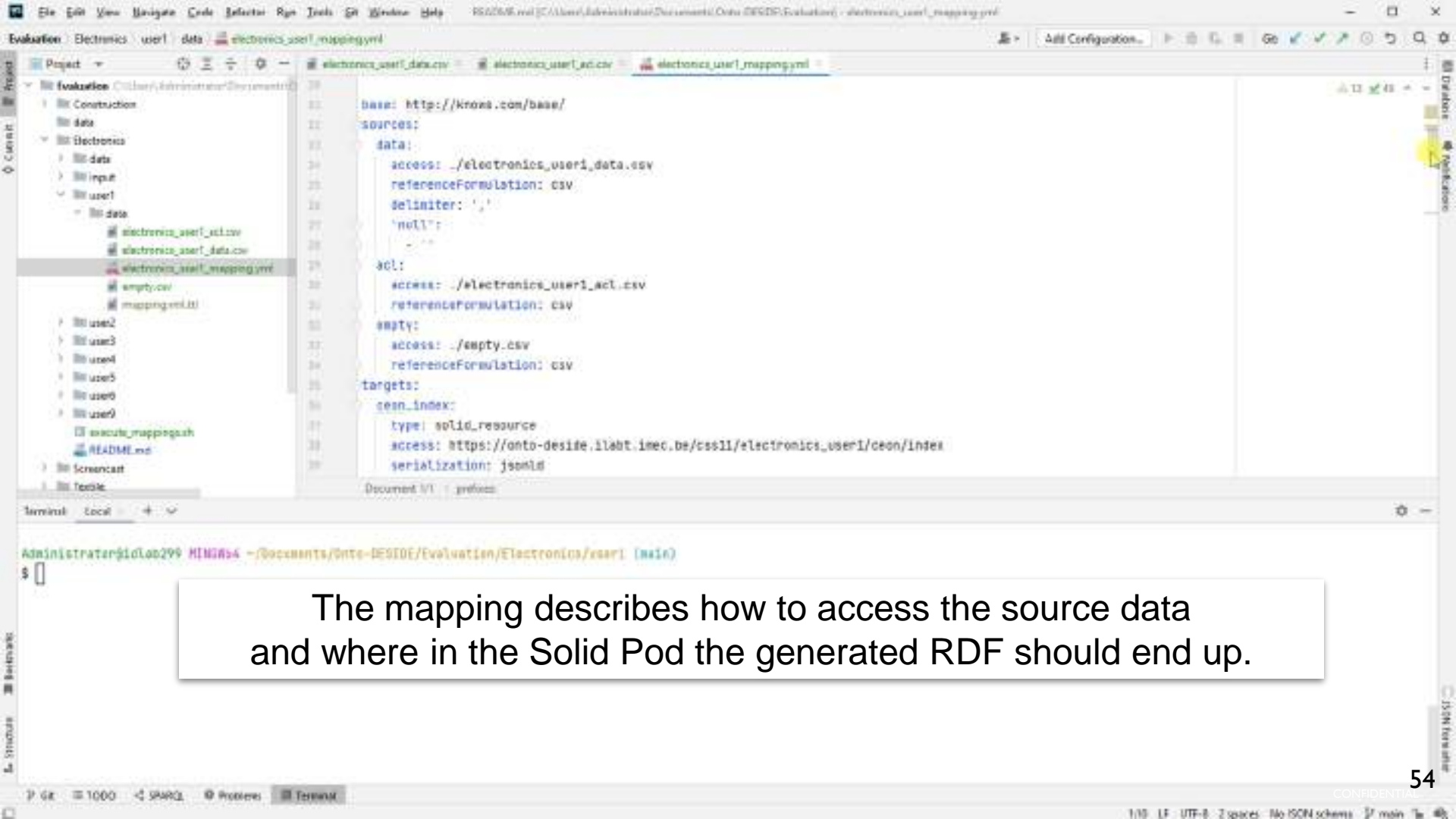


He manages the access to his resources on his Solid pod in a local CSV file.

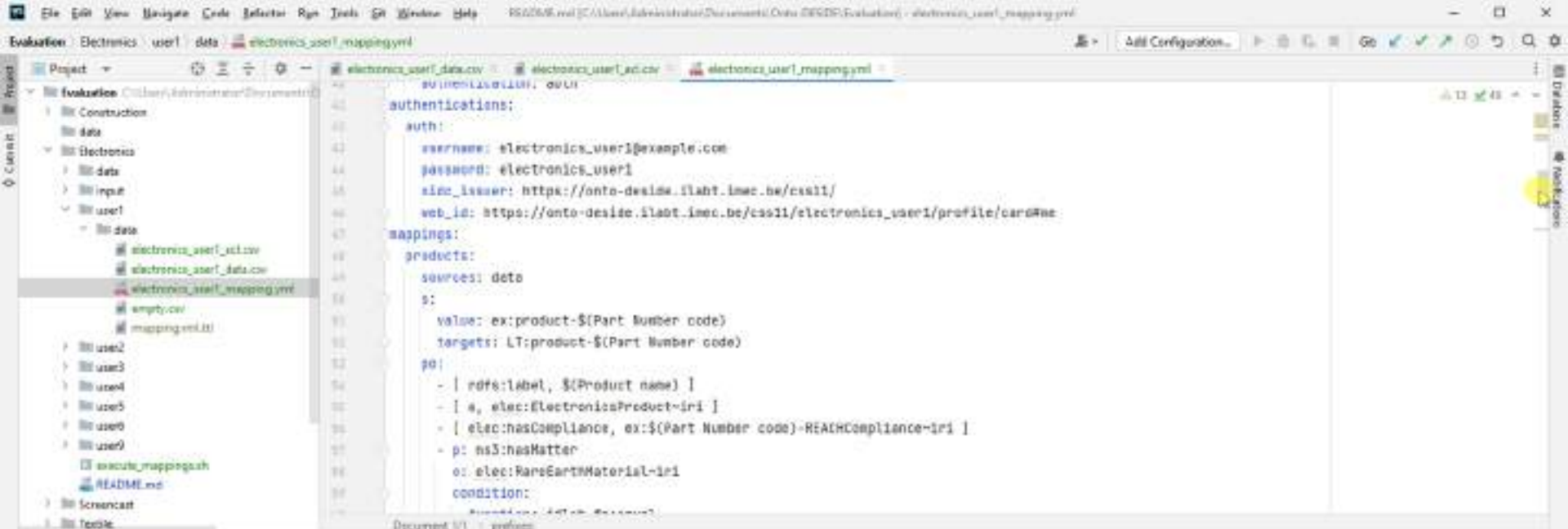
```
File Edit View Navigate Code Refactor Run Tools Git Help
Evaluation Electronics user1 data electronics_user1_mapping.yml
Project electronics_user1_data.csv electronics_user1_ad.csv electronics_user1_mapping.yml
Evaluation C:\Users\Administrator\Documents
  Construction
  data
  Electronics
    data
    input
    user1
      data
        electronics_user1_ad.csv
        electronics_user1_data.csv
        electronics_user1_mapping.yml
        empty.csv
        mapping.rml.ttl
    user2
    user3
    user4
    user5
    user6
    user9
    user9_mappingsh
    README.md
  Screenshot
  Tools
  2017-07-26 11:12:43
prefixes
1 acl: http://www.w3.org/ns/acl#
2 solid: http://www.w3.org/ns/solid/terms#
3 idsa: https://w3id.org/idsa/core/
4 idlab-fn: http://example.com/idlab/function/
5 grml: http://users.ugent.be/~bjdmeest/function/grml.ttl#
6 ex: http://example.com/
7 elec: http://w3id.org/CEON/demo/electronics/
8 ns1: HTTP://w3id.org/CEON/ontology/actorGDP/
9 ns2: HTTP://qudt.org/schema/qudt/
10 ns3: http://w3id.org/CEON/ontology/resourceGDP/
11 ns4: http://w3id.org/CEON/ontology/provenance/
12 ns5: http://w3id.org/CEON/ontology/product/
13 formats: http://www.w3.org/ns/formats/
14 rml1: https://w3id.org/inec/rml/
15 LT: http://knows.base/Logical_target/
16 T: http://knows.base/target/
17 rml: http://semweb.mmlab.be/ns/rml#
18 rml: http://semweb.mmlab.be/ns/rml-target#
19
20
Document 1/1 - prefixes
```

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

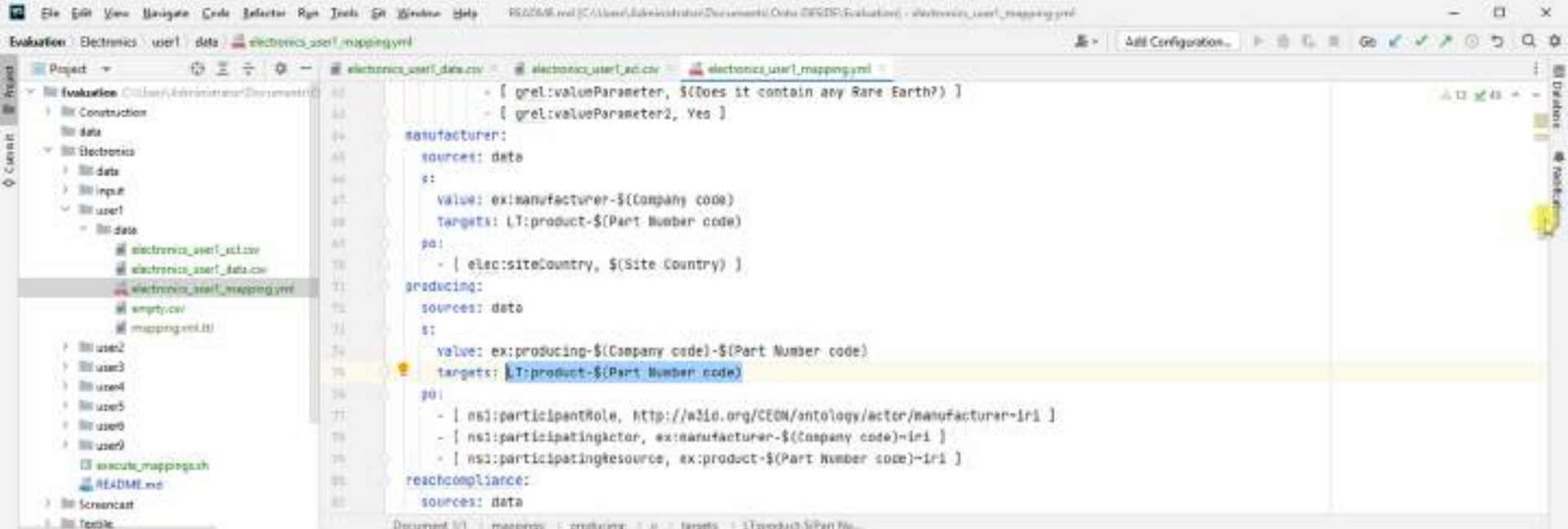
A mapping configures the publication pipeline for his data.



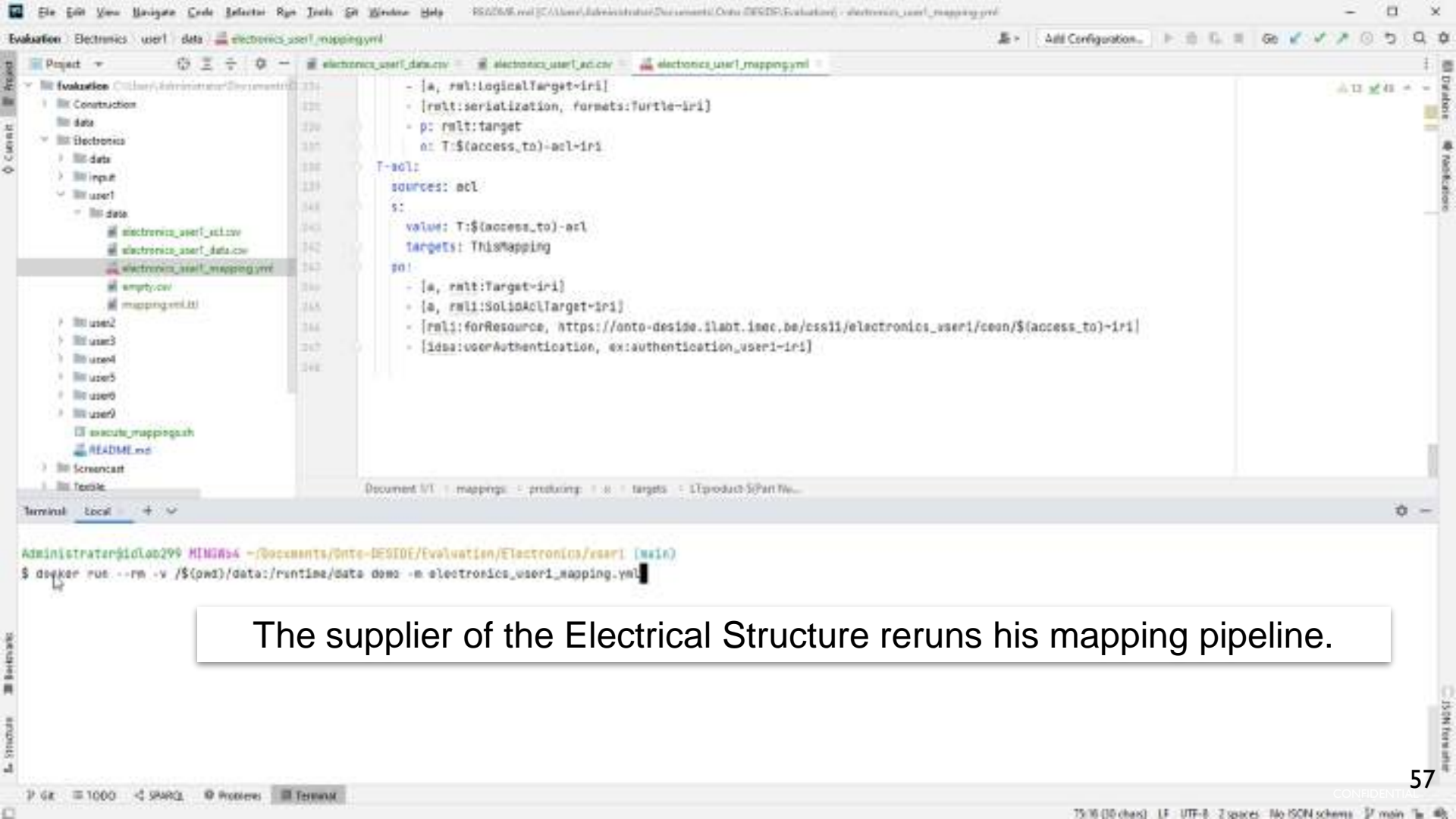
The mapping describes how to access the source data and where in the Solid Pod the generated RDF should end up.



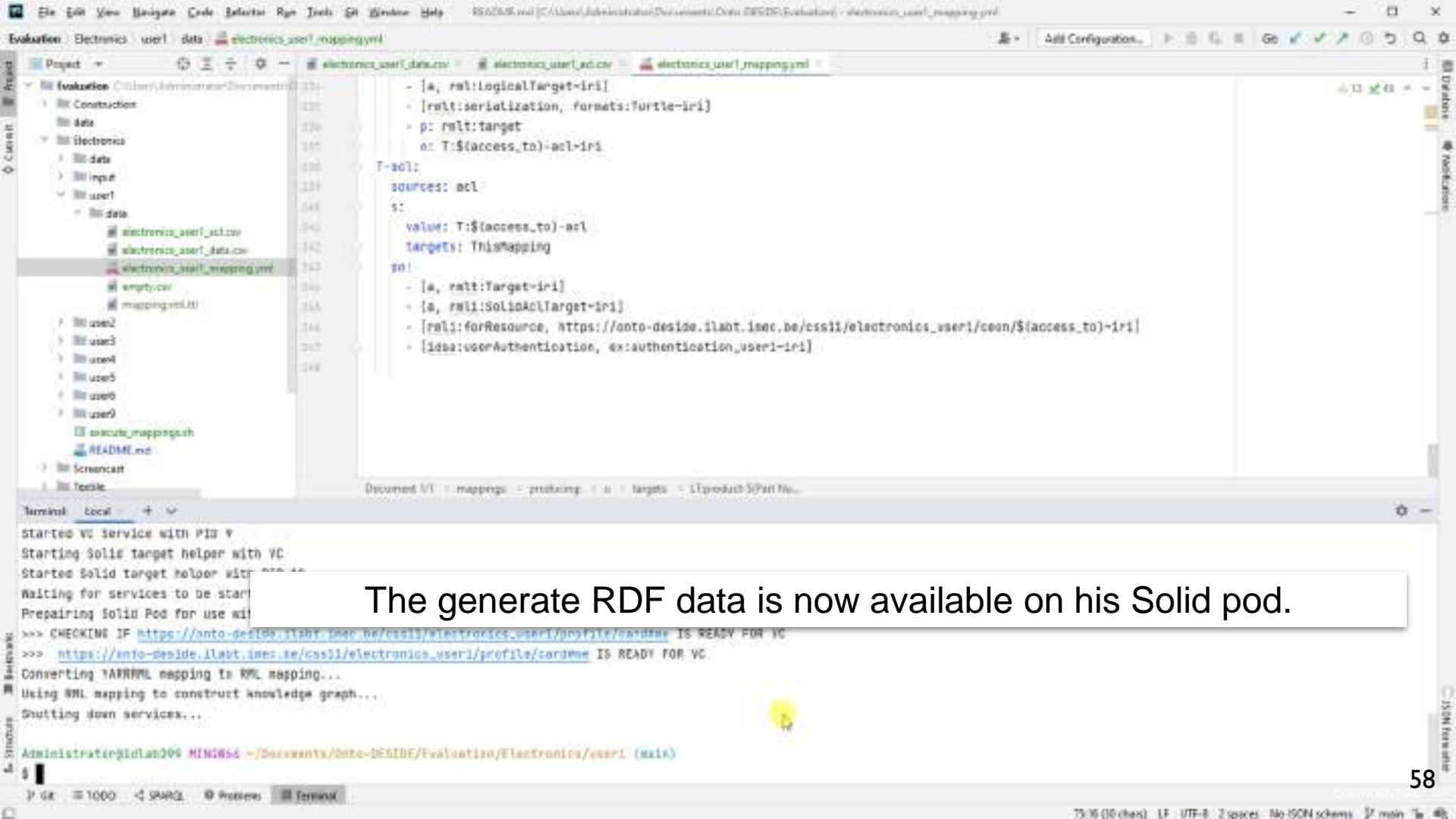
The mapping describes how to transform the source data to RDF.



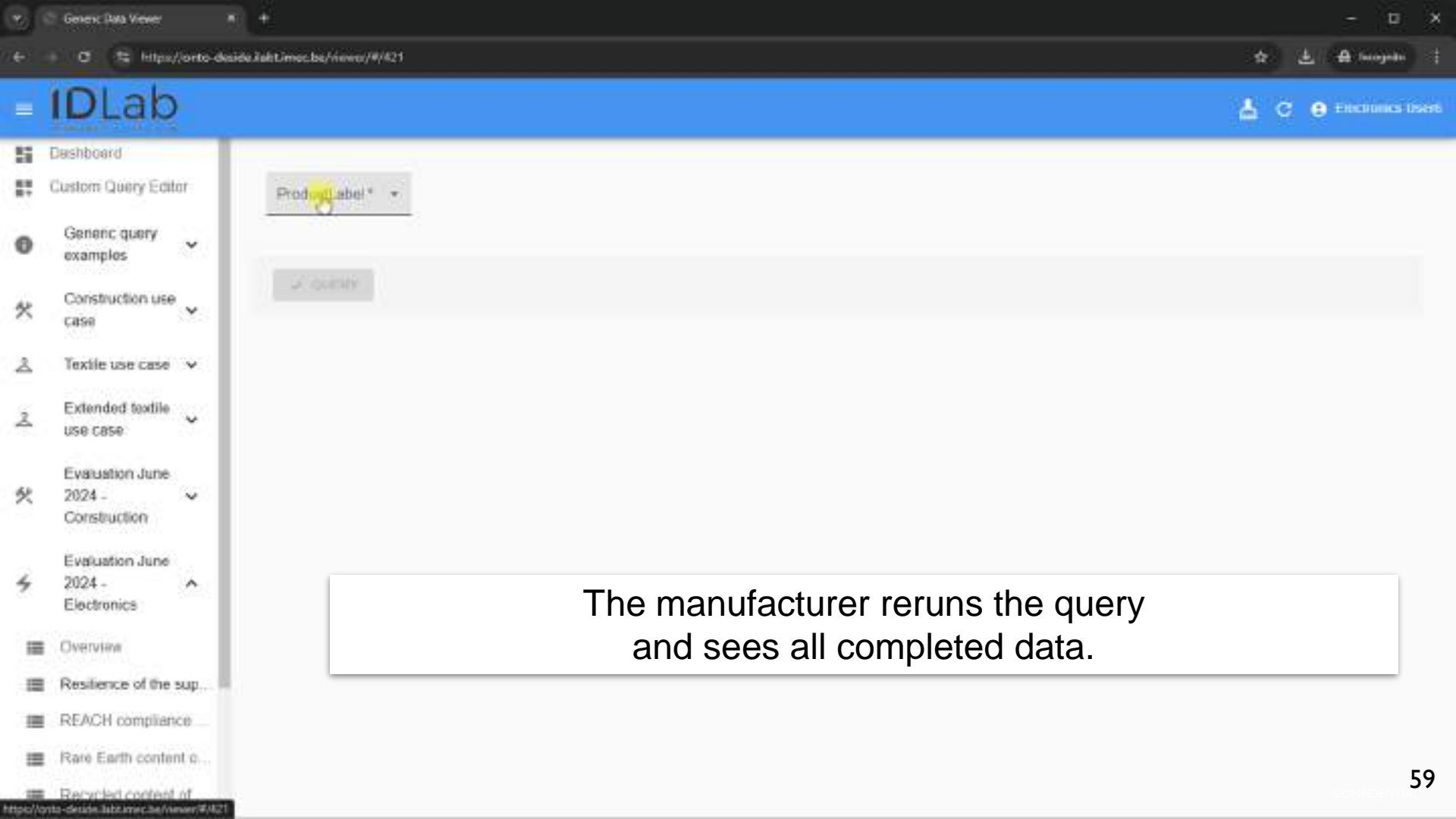
With the introduction of dynamic targets as an RML extension we enable flexible publication strategies.



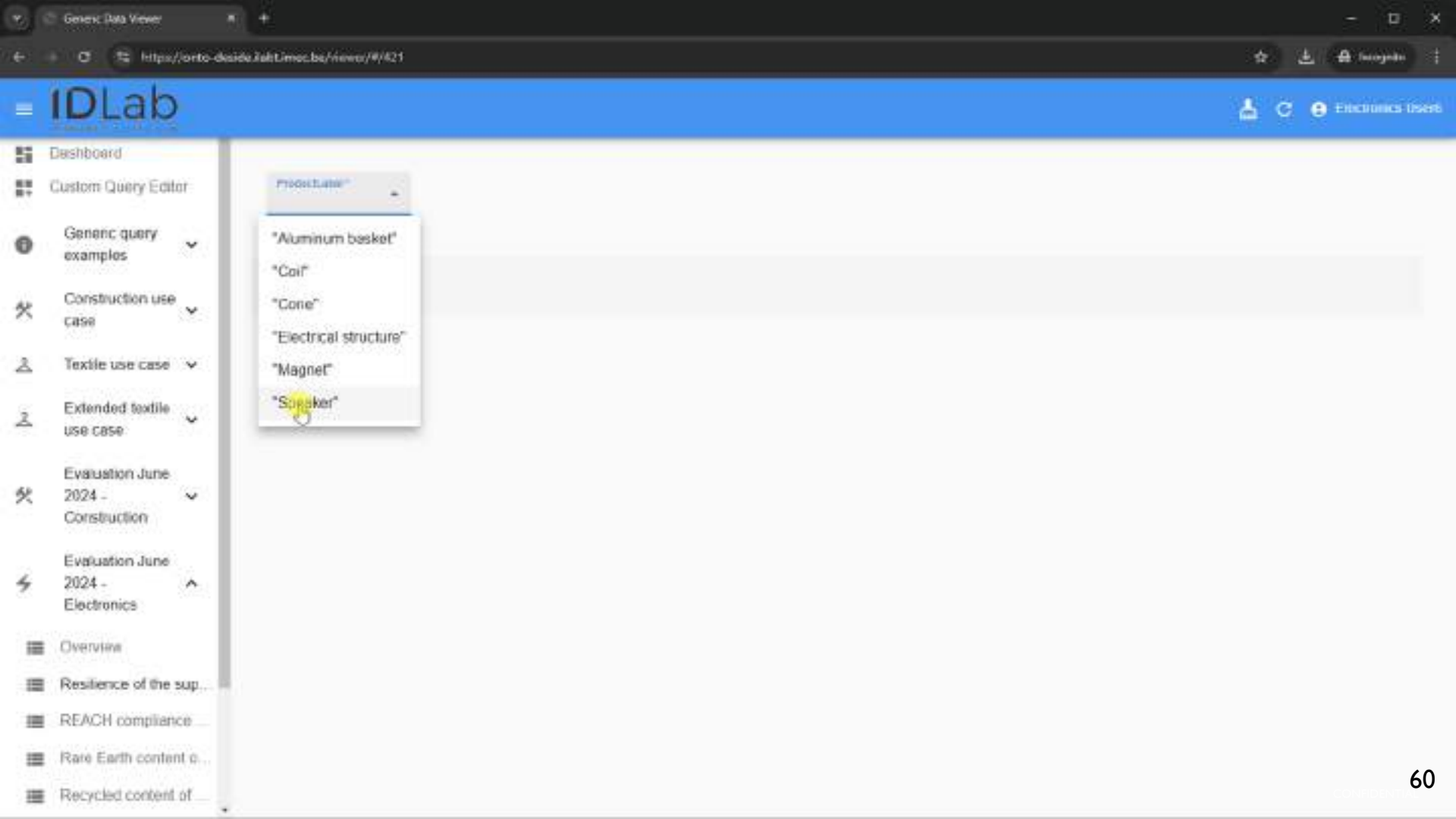
The supplier of the Electrical Structure reruns his mapping pipeline.



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



The manufacturer reruns the query
and sees all completed data.



Generic Data Viewer

https://onto-decide.fab.cmu.edu/viewer/#/421

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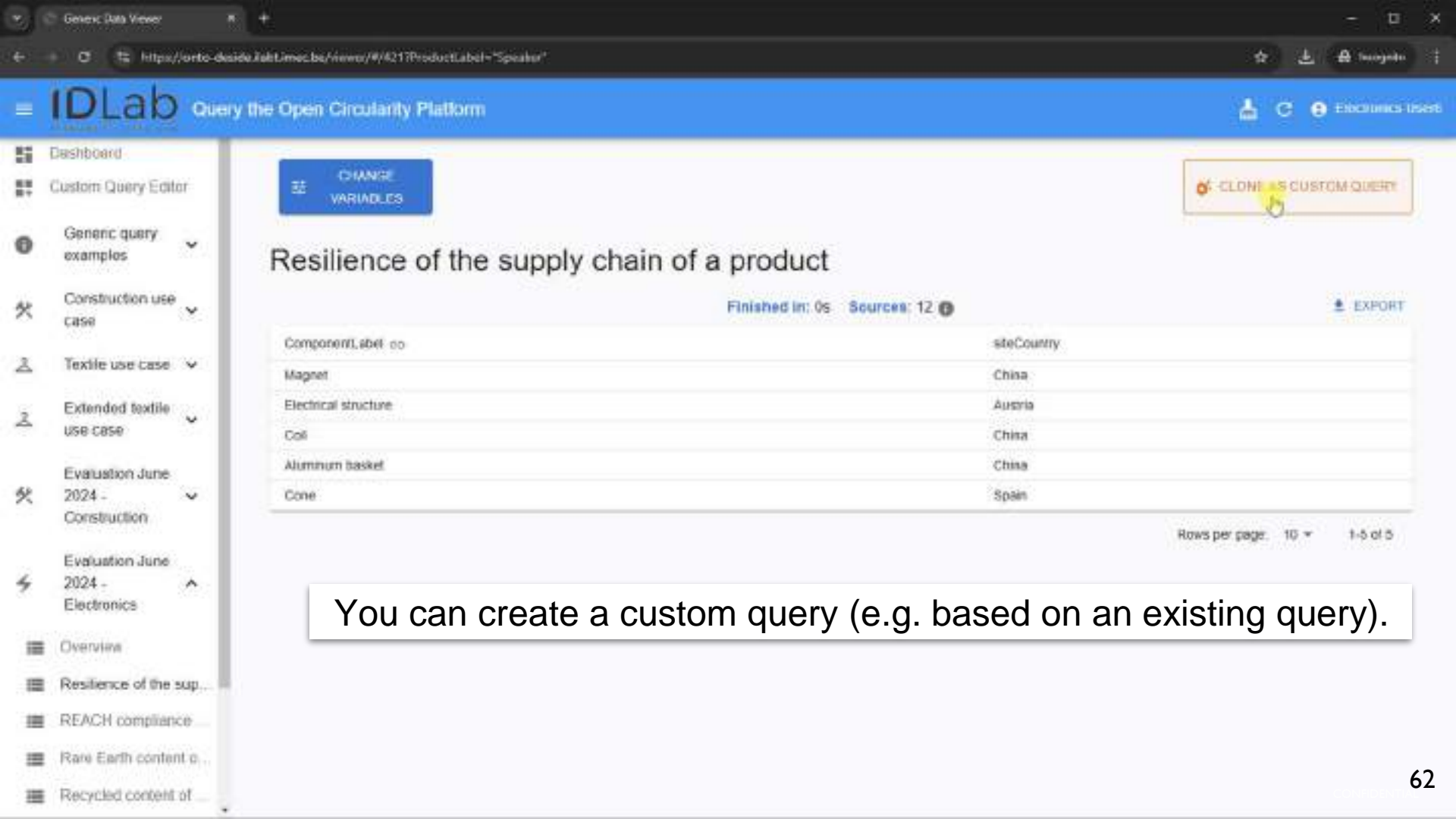
REACH compliance

Rare Earth content o...

Recycled content of

Product Label: "Speaker"

✓  



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-idea.fab.cmc.be/verso/#/customQuery?name=%28Cloned+from%29+Resilience+of+the+supply+chain+of+a+product&description=How+resilient+is+the+supply+chain+of+...

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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 .
```

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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-idea.fab.cmc.be/neo/#/customQuery?name=%28Cloned+from%29+Resilience+of+the+supply+chain+of+a+product&description=How+resilient+is+the+supply+chain+of+...

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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 .

```

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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 *

```

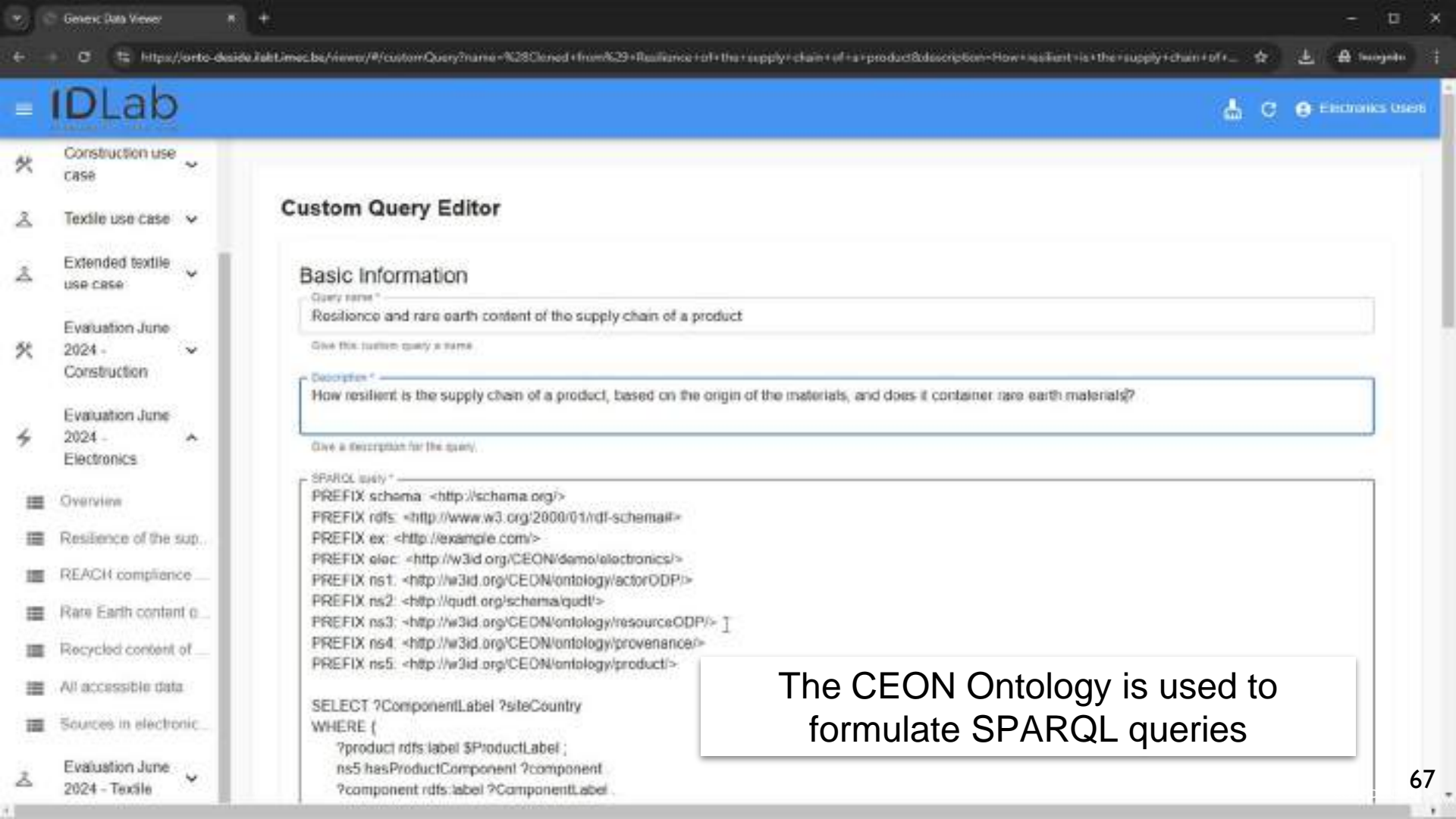
PREFIX schema <http://schema.org/>
PREFIX rdfs <http://www.w3.org/2000/01/rdf-schema#>
PREFIX ex <http://example.com/>
PREFIX elec <http://w3id.org/CEON/demo/electronics/>
PREFIX ns1 <http://w3id.org/CEON/ontology/actorODP/>
PREFIX ns2 <http://qudt.org/schema/qudt/>
PREFIX ns3 <http://w3id.org/CEON/ontology/resourceODP/>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

```



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 material?

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

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Basic Information

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

Give the 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 .
  }
}
  
```

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Basic Information

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

Give the 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
  }
}
```

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Query name *

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

Give the custom query a name.

Description *

How resilient is the supply chain of a product, based on the origin of the materials, and does it contain 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)
  }
}

```

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

Give the 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-decide.fkit.umec.be/viewer/#/customQuery?name=%3DCloned+from%3D+Resilience+of+the+supply+chain+of+a+product&description=How+resilient+is+the+supply+chain+of+a+product+to+the+supply+chain+of+a+product+based+on+the+length+of+the+material+and+does+a+consumer+have+such+material?

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/manufacture>;
    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

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Comunica Context & Sources

Advanced Comunica Context Settings

Fixed data source(s)

Give the source URL(s) for the user. Separate URLs with ";" (These are the Comunica context sources)

Indirect sources

Index file URL*

https://onto-deside.ilabt.ucl.ac.be/css-11/electronics_user0/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/>

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

Give the SPARQL query to get the source(s) 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

Generic Data Viewer

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

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

Templated Query

Fixed Variables Indirect Variables

Query 1 for indirect variables:*

```
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 full SPARQL query to retrieve the variables.

+ ADD ANOTHER QUERY

Extra Options

ASK query

+ CREATE QUERY

< GO BACK

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Generic Data Viewer

https://onto-qa.aida.fab.tum.de/viewer/#/173080599048

IDLab

ProductLabel

EDIT QUERY SHARE QUERY CLONE DELETE QUERY

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Extended textile use case

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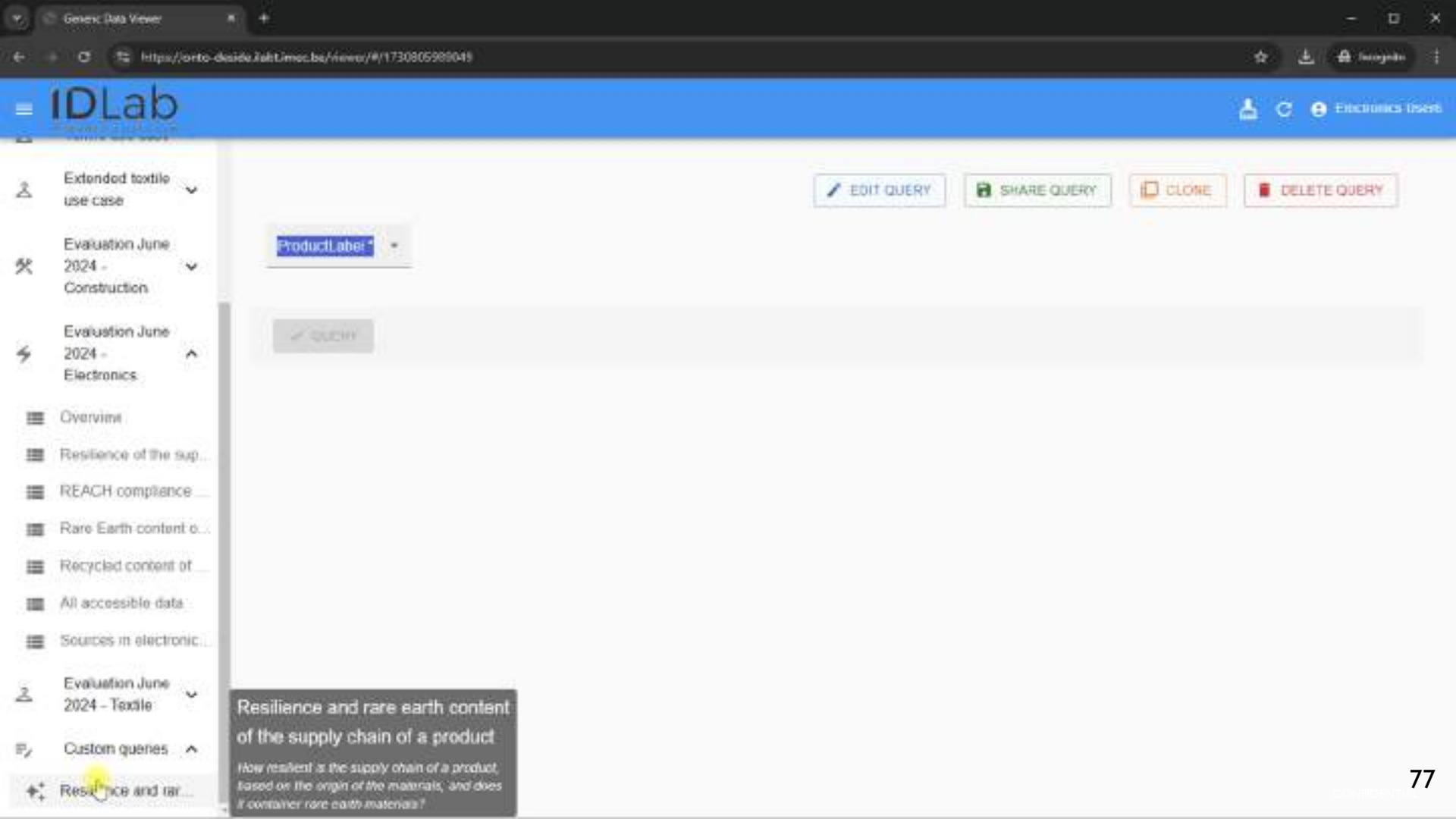
Recycled content of ...

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EDIT QUERY SHARE QUERY CLOSE 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 contain rare earth materials?

Generic Data Viewer

https://onto-decide.lab.umec.be/viewer/#/1730805989048

IDLab

Extended textile use case

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Resilience and rare

Product Label

EDIT QUERY

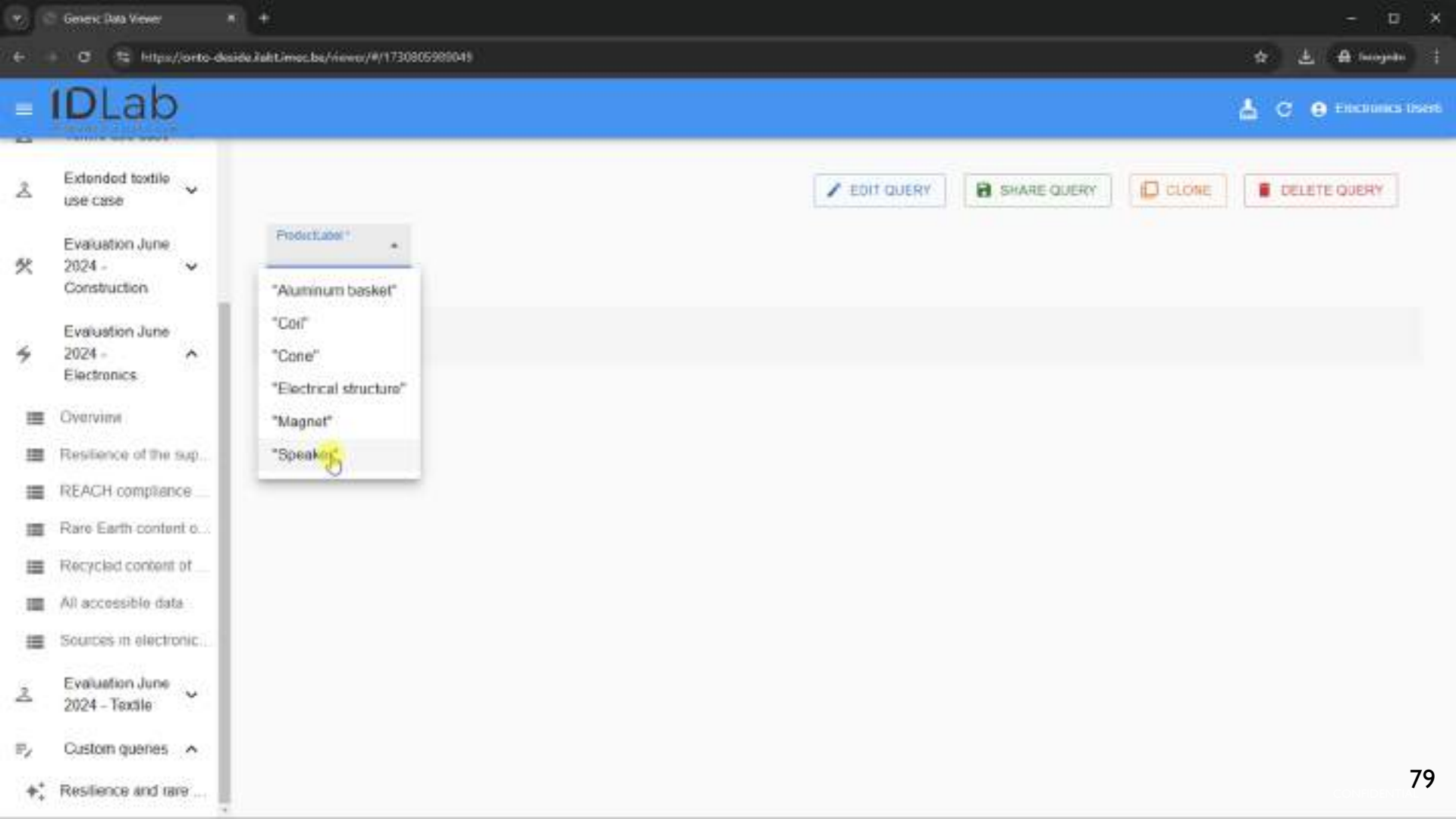
SHARE QUERY

CLOSE

DELETE QUERY

QUERY

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Generic Data Viewer

https://onto-decide.fakelimec.be/viewer/#/1730805989048

IDLab

ProductLabel
"Speaker"

EDIT QUERY SHARE QUERY CLOSE DELETE QUERY

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Generic Data Viewer

https://onto-ocaida.fab4mech.be/visual/#/1730805999045?ProductLabel="Speaker"

IDLab Query the Open Circularity Platform

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

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Generic Data Viewer

https://onto-decide.fab4mech.be/viewer/#/1730805990045?ProductLabel="Speaker"

IDLab Query the Open Circularity Platform

DECHEN

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
Cool	China	false
Cone	Spain	false

Rows per page: 10 1-5 of 5

Desktop

Custom Query Editor

Generic query examples

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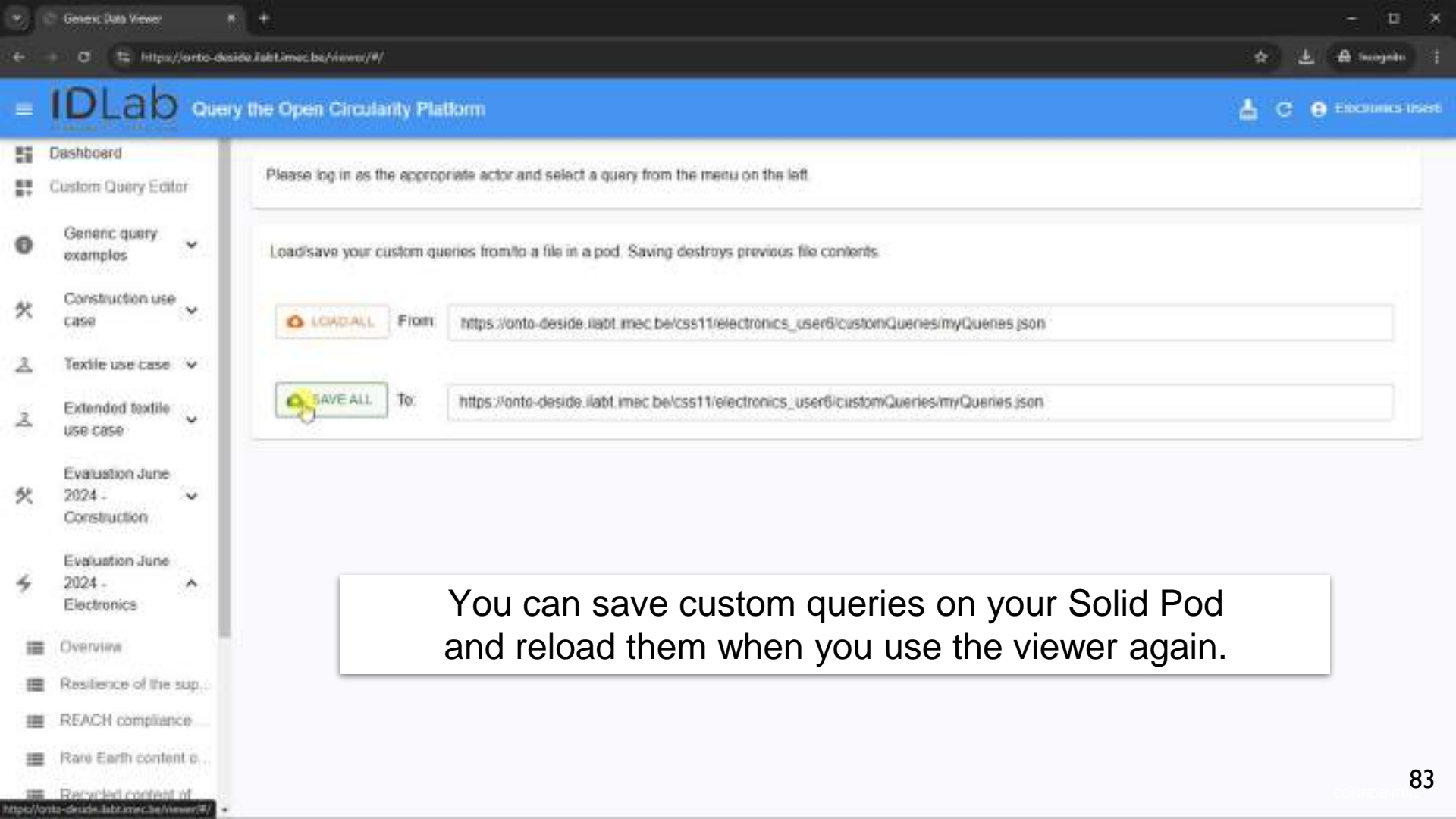
Resilience of the sup...

REACH compliance

Rare Earth content o...

Recycled content of

https://onto-decide.fab4mech.be/viewer/#/1730805990045?ProductLabel="Speaker"



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.labt.imec.be/css11/electronics_user8/customQueries/myQueries.json

SAVE ALL

To:

https://onto-deside.labt.imec.be/css11/electronics_user8/customQueries/myQueries.json

You can save custom queries on your Solid Pod and reload them when you use the viewer again.

Generic Data Viewer

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

IDLab Query the Open Circularity Platform

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Recycled content of

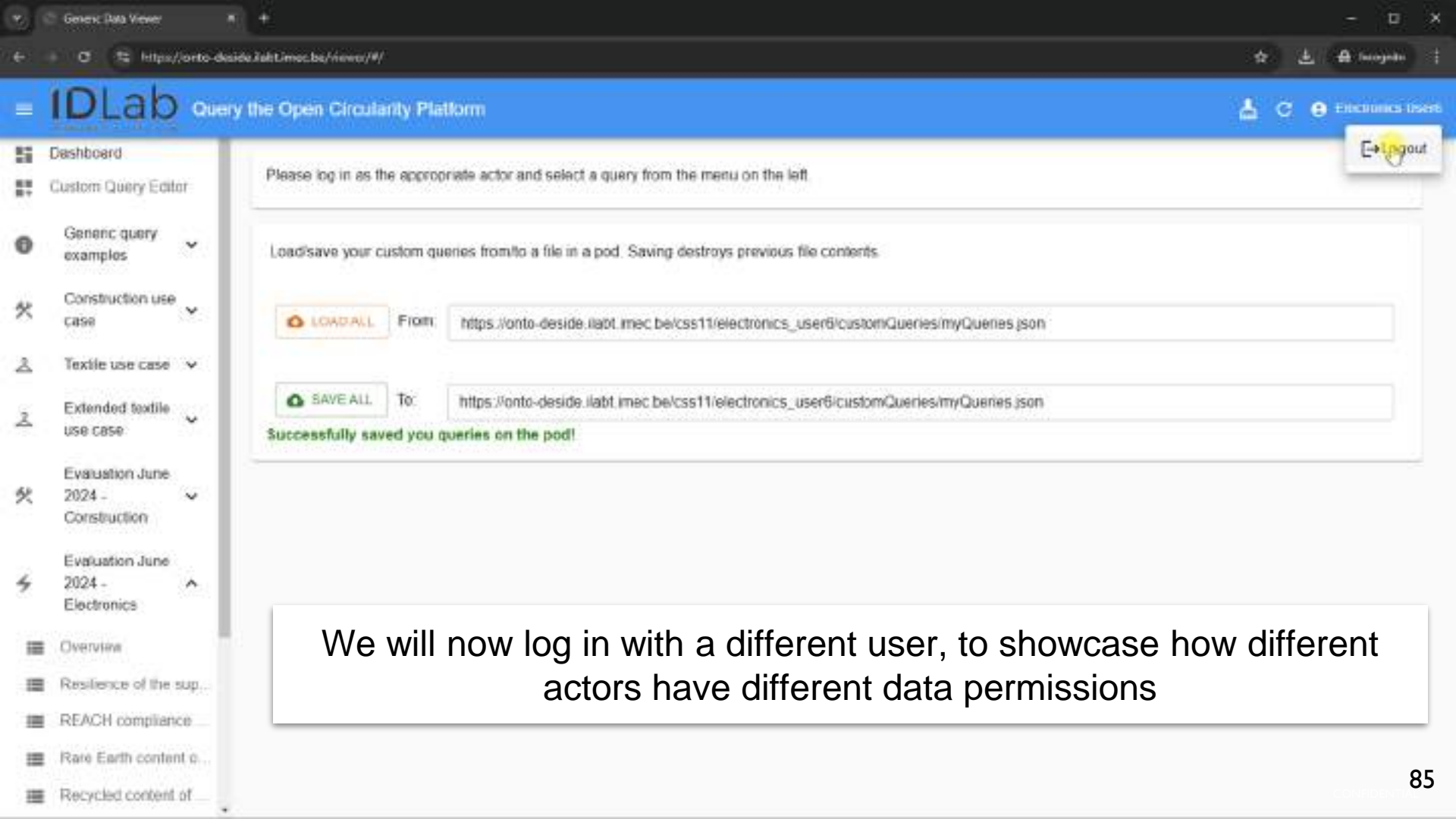
Please log in as the appropriate actor and select a query from the menu on the left

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

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

SAVE ALL To: `https://onto-deside.labt.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-qaide.kit.umec.be/#/

IDLab Query the Open Circularity Platform

Dashboard

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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

Profile

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https://onto-ocaida.kit.umec.be/#/

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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

login

https://onto-decide.fabf.imec.be

Login



Community Solid Server

Log in

Your account

Email

Password

Stay logged in



[Forgot password](#)

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Community Solid Server

An application is requesting access

Do you trust this application to read and write data on your behalf?

Name: Generic Data Viewer

ID: Qj8t5edBLOh2gu0PmCt

Choose your WebID to authorize

https://onto-deside.lab.limec.be/css11/electronics_user1/profile/card#me

Remember this client

Authorize

Cancel

[Edit account](#)

[Use a different account](#)

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Generic Data Viewer

https://onto-deside.labt.imec.be/visual/

IDLab Query the Open Circularity Platform

Electronics User1

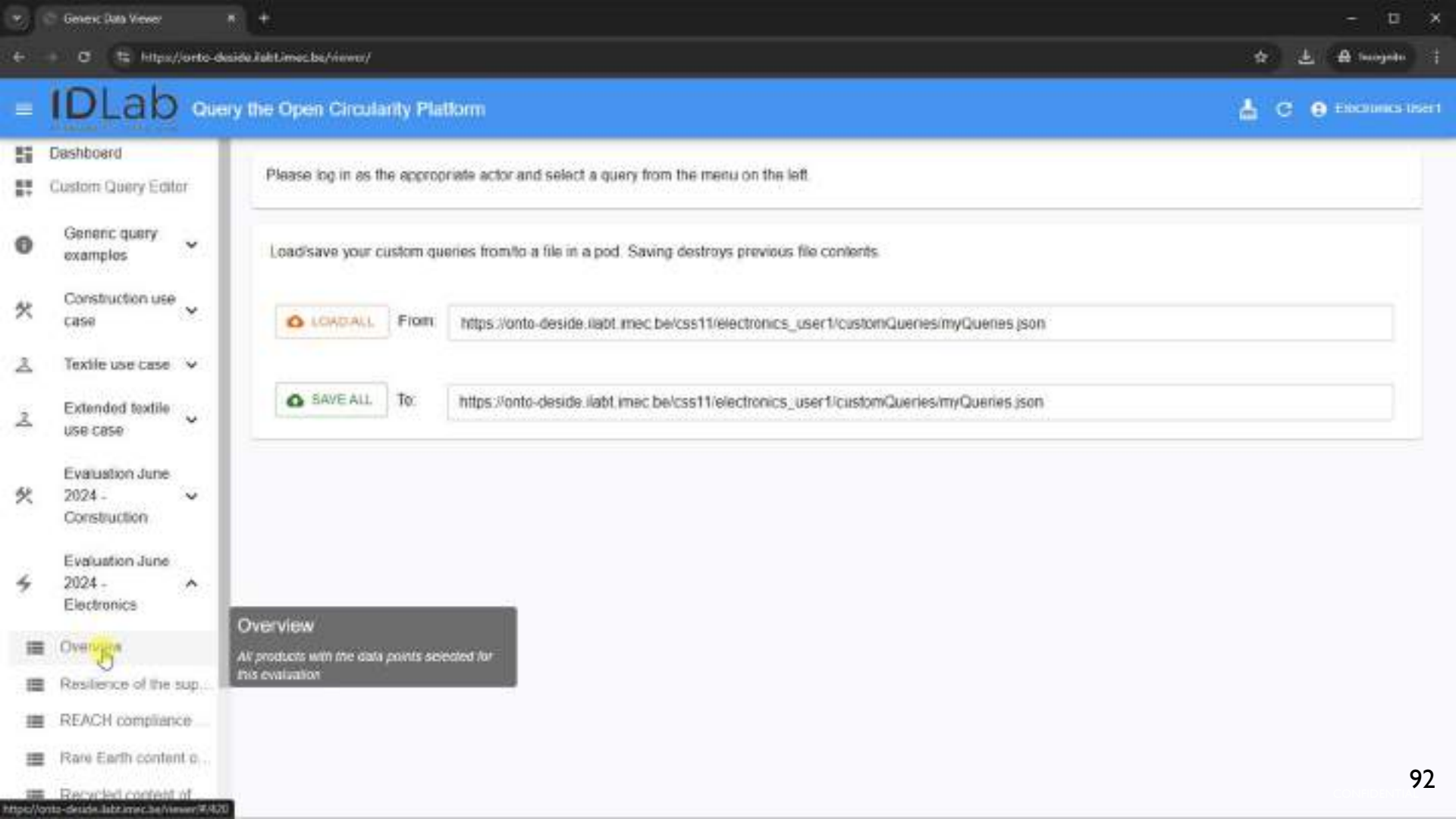
- Dashboard
- Custom Query Editor
- Generic query examples
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Please log in as the appropriate actor and select a query from the menu on the left.

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

LOAD ALL From:

SAVE ALL To:



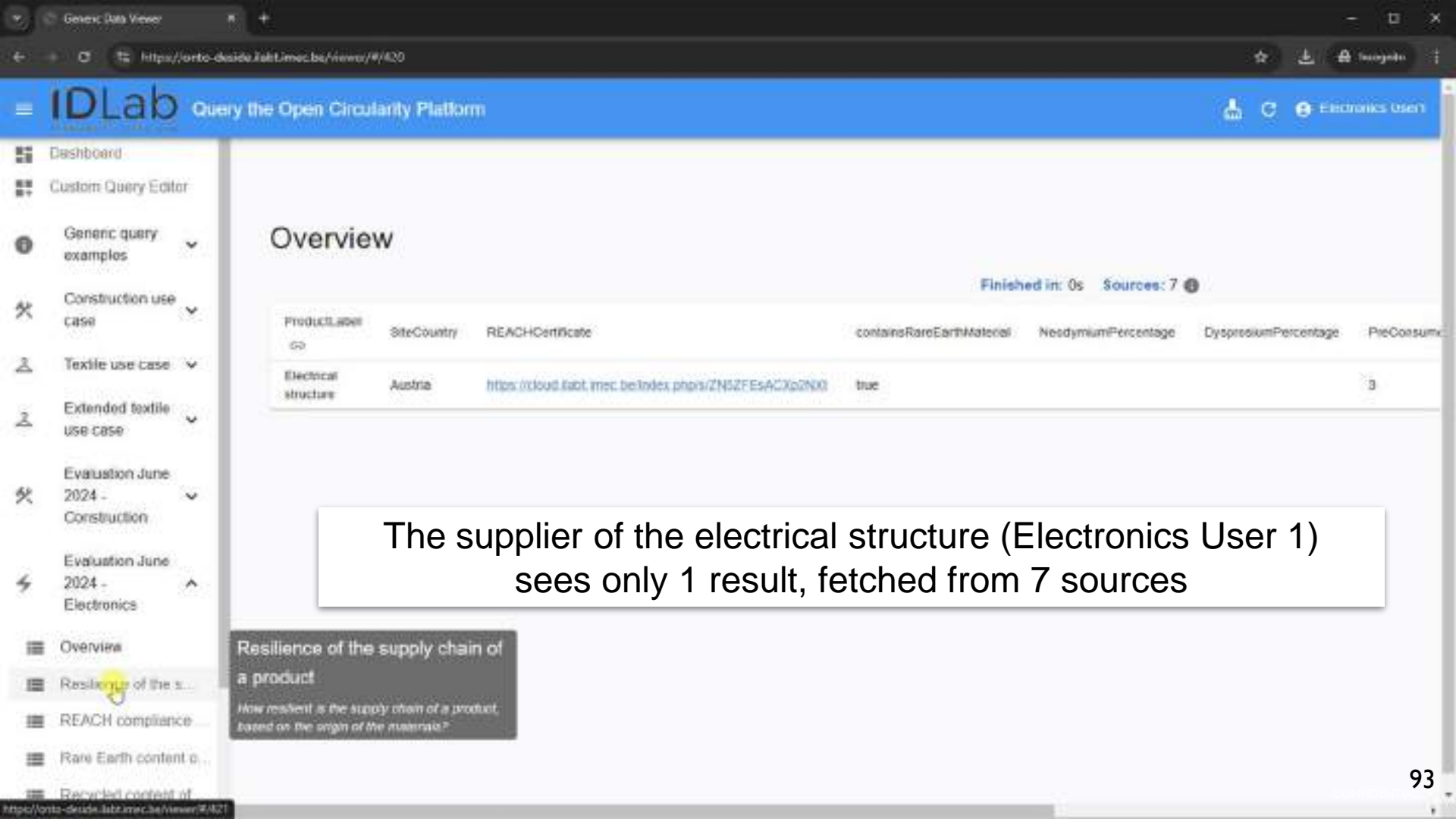
Please log in as the appropriate actor and select a query from the menu on the left.

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

LOAD ALL From:

SAVE ALL To:

Overview
All products with the data points selected for this evaluator



Overview

Finished in: 0s Sources: 7

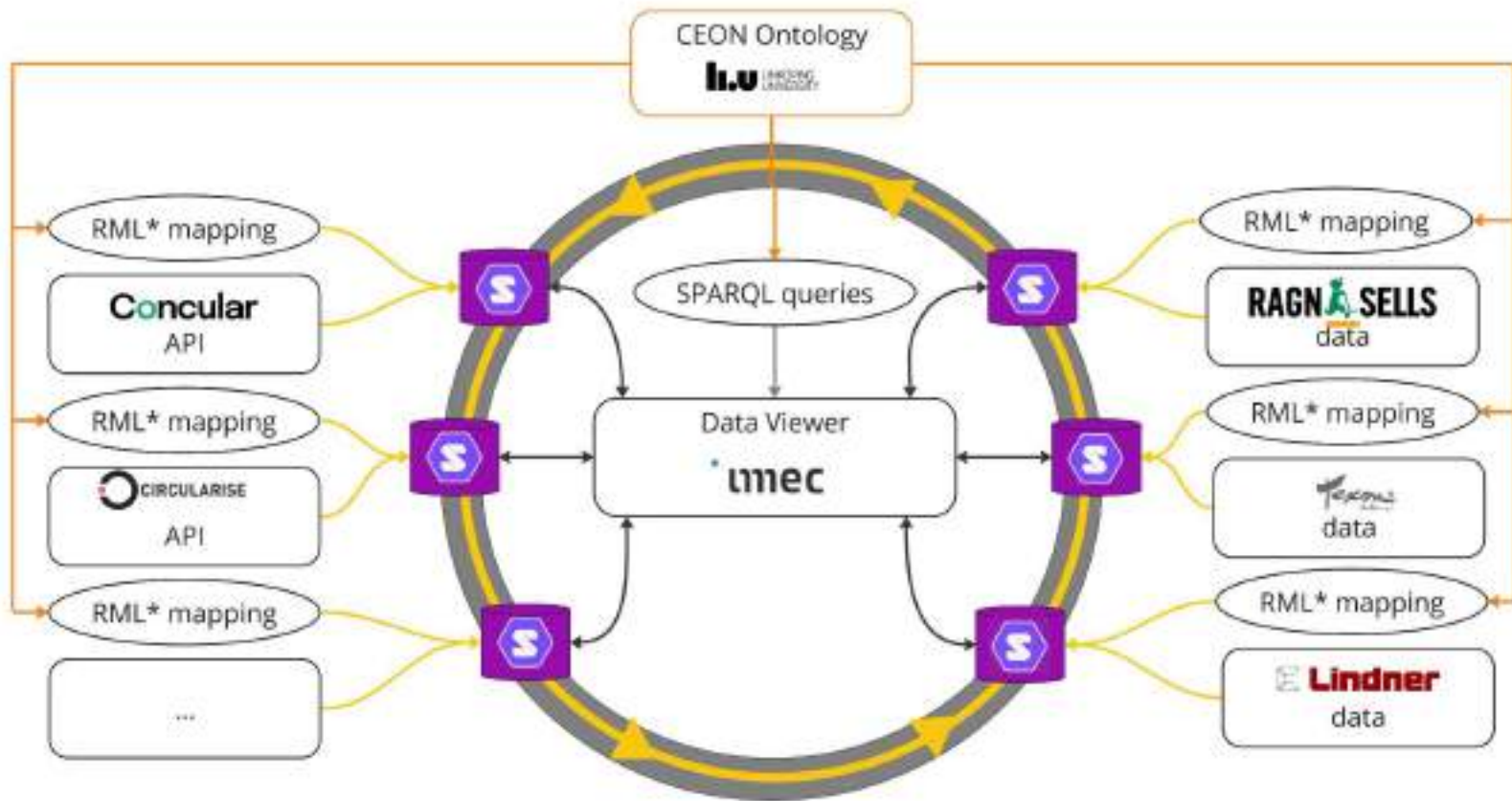
ProductLabel	Site/Country	REACHCertificate	containsRareEarthMaterial	NeodymiumPercentage	DysprosiumPercentage	PreConsum...
Electrical structure	Austria	https://cloud.fab.tum.de/index.php/s/ZNSZFEsAC3p2N00	true			3

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?

Vision



RML*: including RML extensions **imec**

- 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