

Project presentation

openXeco

Open Exchange for ecosystems
<https://openxeco.org/>

TLP:WHITE
26-10-2022



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Platform

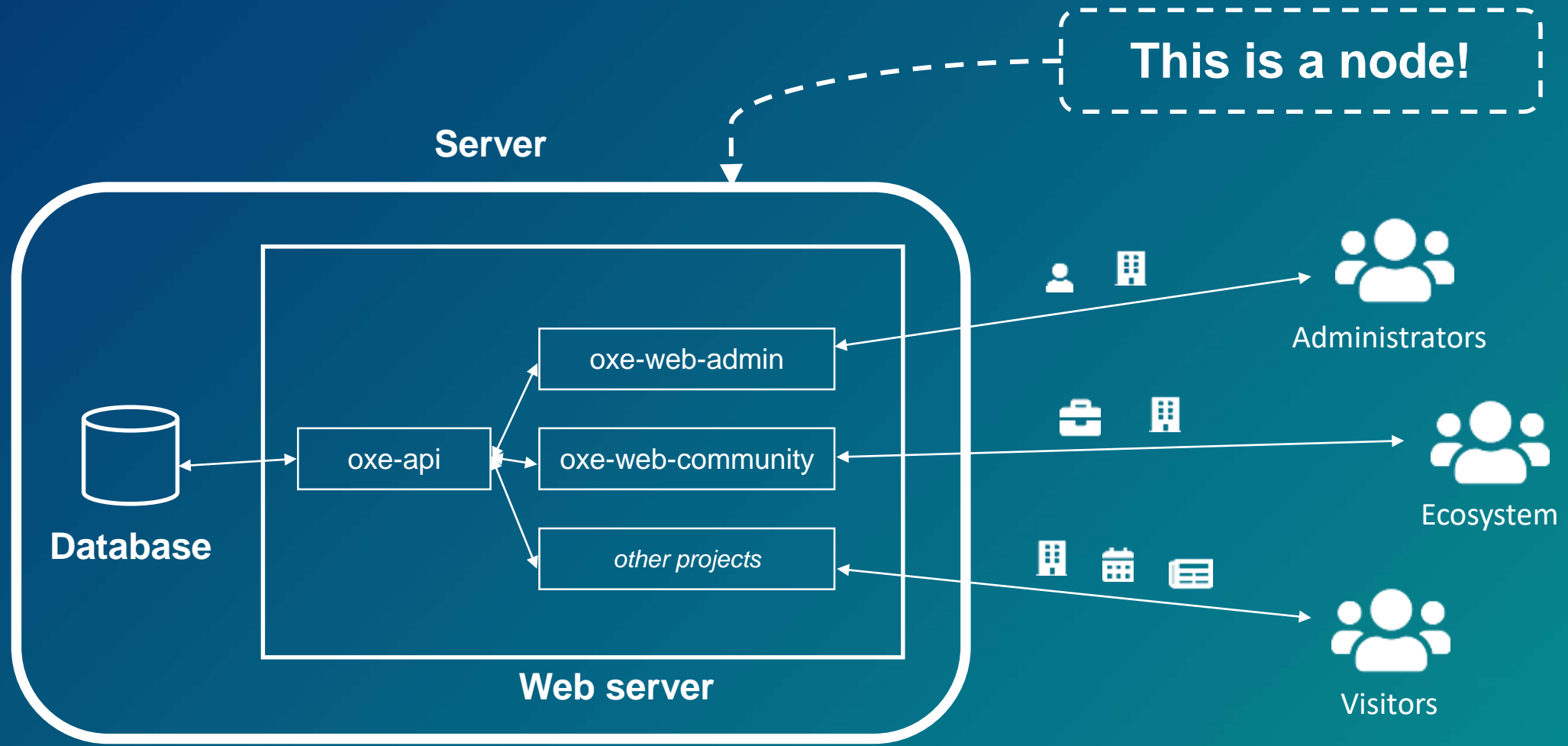
Platform: source code and components

- ✓ Open source with a public repository
 - <https://github.com/CybersecurityLuxembourg/openxeco-core>



- ✓ Components
 - oxe-api: API as a middleware between the database and the web app
 - oxe-web-admin: Web app for administrators
 - oxe-web-community: Web app for the community

Platform: node representation



Platform: manageable objects

Articles



News



Event



Job offer



Tool



Service

Taxonomies



Users



Entities



Civil society

Initiative



Corporate



Public
institution



Platform: oxe-web-admin

Only for administrators

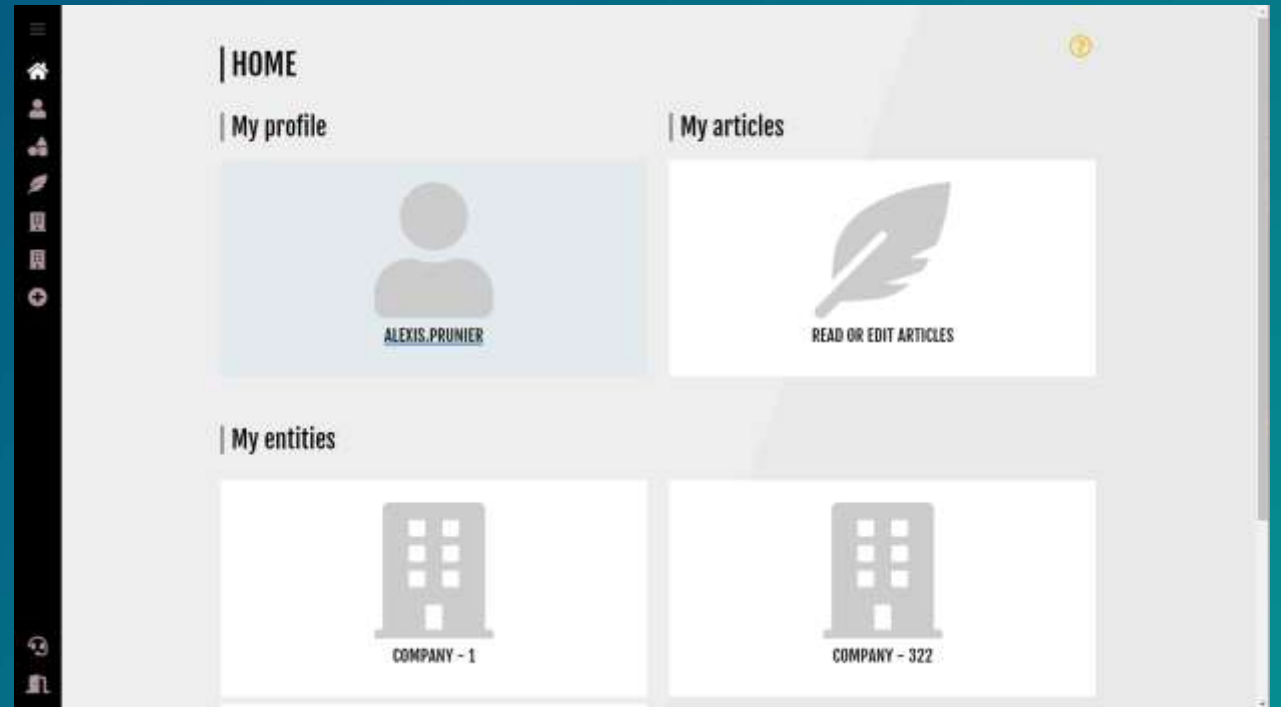
- ✓ Manage entities
 - Including metadata, address, contacts, workforce, taxonomy
- ✓ Manage articles
 - News, events, job offers, services, tools
- ✓ Manage taxonomies
- ✓ Create reports
- ✓ Manage requests
- ✓ Control the data
- ✓ Manage settings



Platform: oxe-web-community

Open to ecosystem

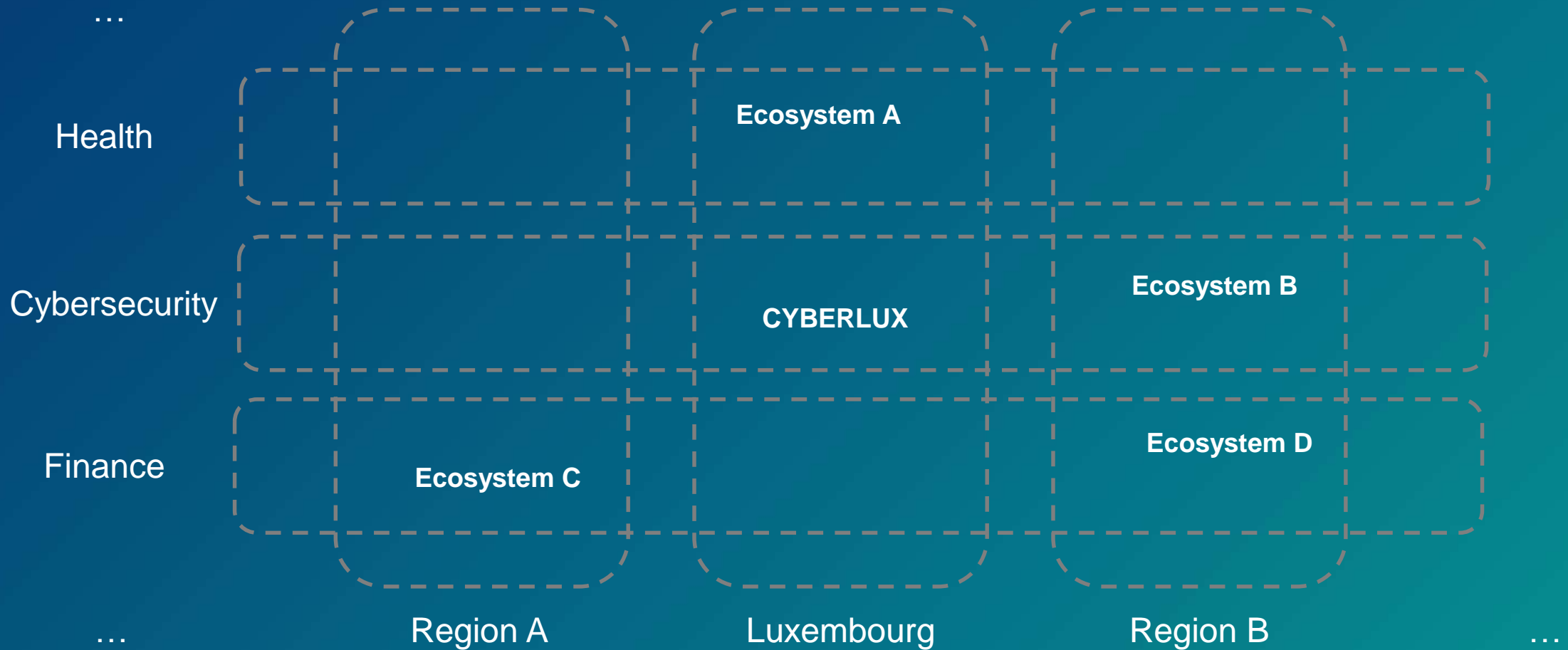
- ✓ Manage personal data
- ✓ Manage my entities
 - Including metadata, address, taxonomy
- ✓ Edit and publish articles on behalf of my entity
 - News, events, job offers, services, tools
- ✓ Generate logo



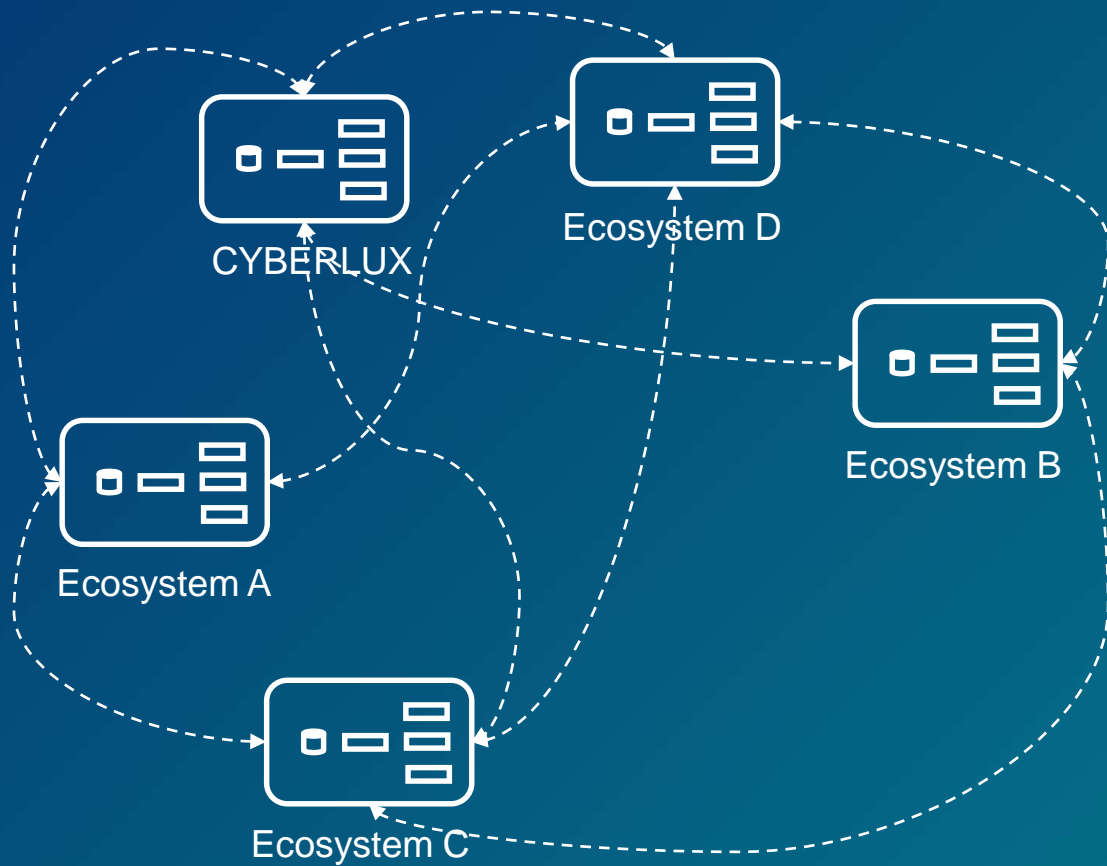
Platform: other projects

Connecting the ecosystems

Connecting the ecosystems



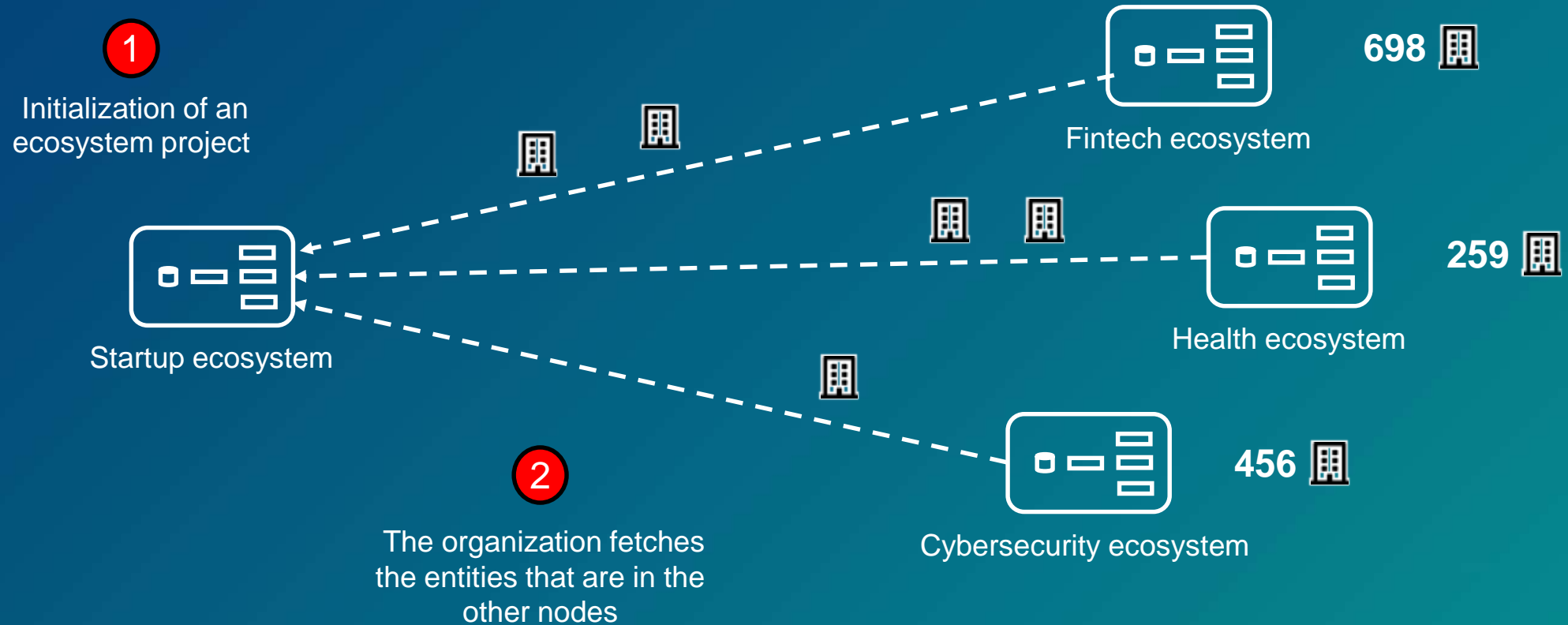
Connecting the ecosystems



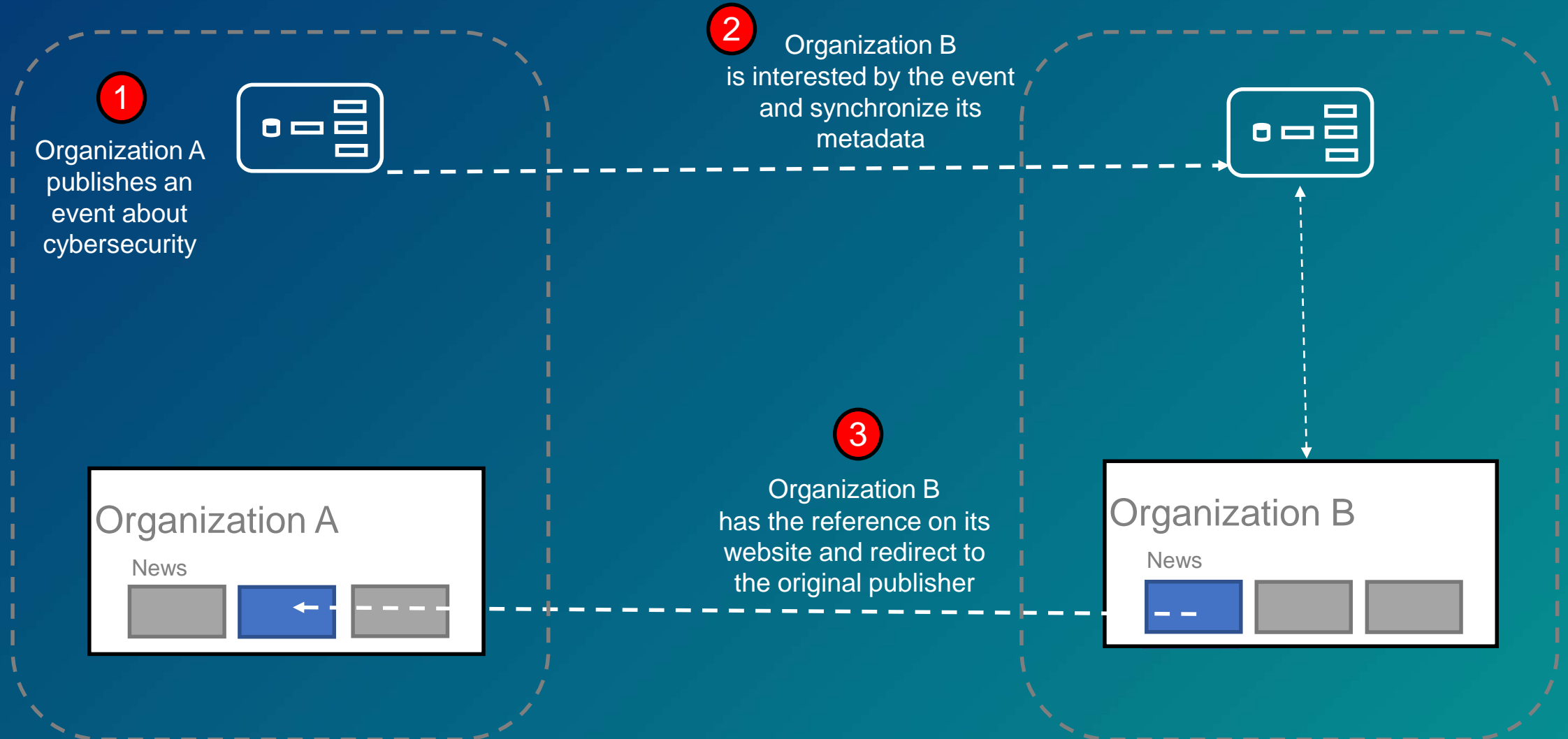
- ✓ All the nodes are independently connected to the internet
- ✓ Each node can synchronize objects from another node

Use cases

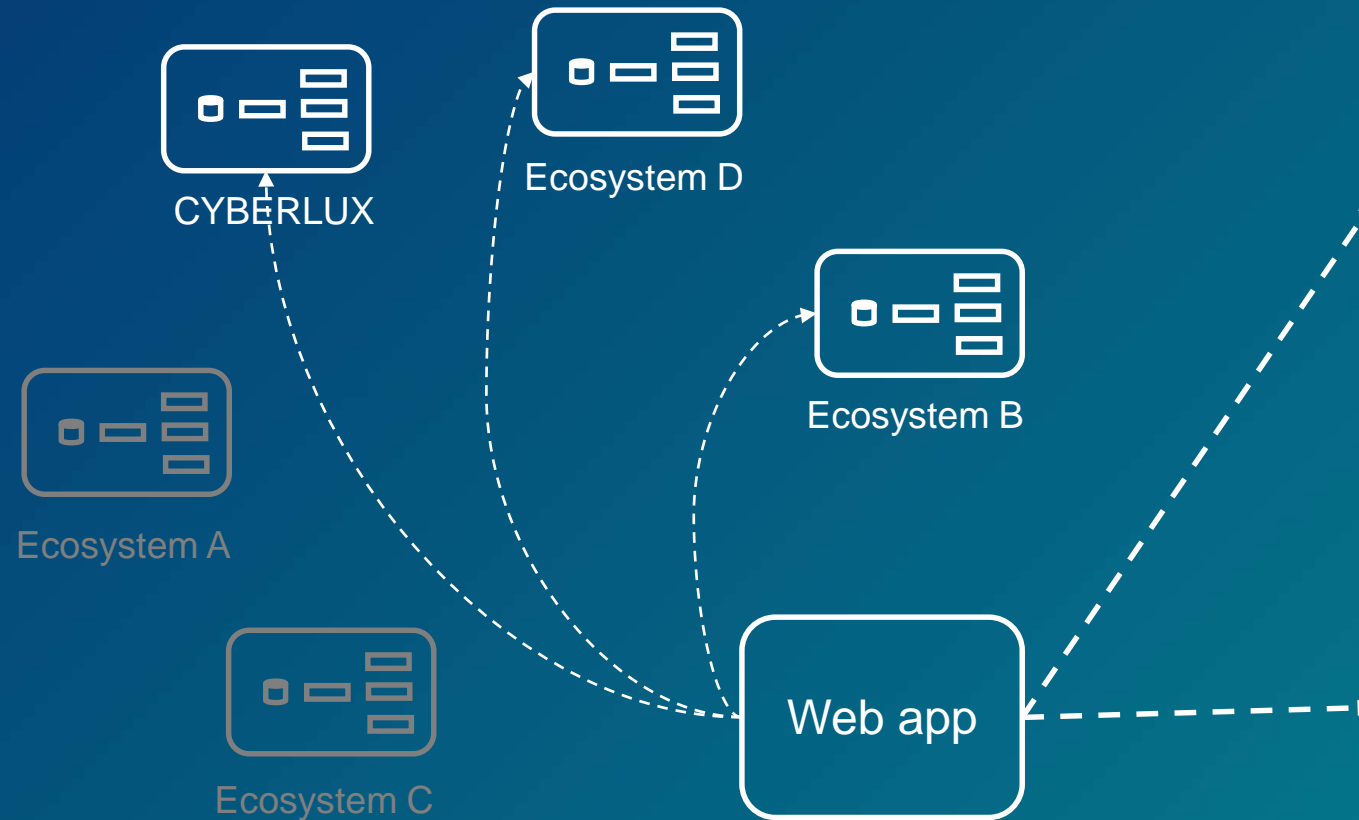
Connecting the ecosystems



Connecting the ecosystems



Connecting the ecosystems

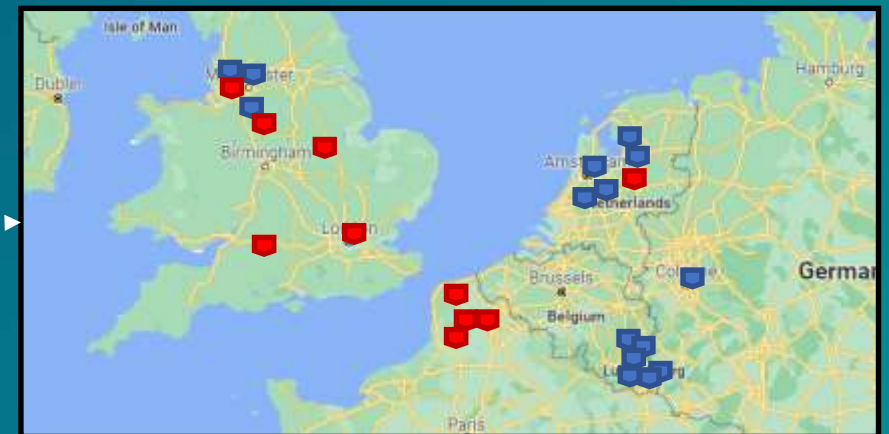


Example of research over the whole network

Search

143 results found

Example of representation of the ecosystems



Pros of collaboration

Pros of collaboration

- ✓ Build an effective open-source solution
 - Unify IT development workforce
 - Share ideas of development
 - Keep it free and accessible by any tier
- ✓ Build a constructive community
 - Standardize data format
 - Share data (entities, articles, taxonomies, ...)
 - Promote each other
- ✓ Help and support new initiatives

Overview of the functionalities:

Engage the community

- ✓ Let your community:
 - Add/modify information about their entities
 - **Publish articles** on their behalf
- ✓ Gather information through **Forms**
- ✓ Create email communications
- ✓ Generate and send **Newsletters** periodically

Overview of the functionalities:

Keep track of the ecosystem

- ✓ Manage your contact points of entities
- ✓ Use the noting system
 - To share information with your collaborators
 - On all kind of object
- ✓ Consult the dashboard
 - Network diagram of the ecosystem
 - Community activity line charts
 - ...

When is a software project successful?

- ✓ Stars on GitHub?
- ✓ Open issues?
- ✓ Number of pull requests?
- ✓ Number of distinct contributors?
- ✓ ...

Our biggest success so far

- ✓ 4k+ stars on GH
- ✓ Used by thousands of people
- ✓ Hundreds of active contributors



MISP
Threat Sharing

But why?

But why?

- ✓ Designed a culture that is welcoming for newcomers
- ✓ Low bars of entry
- ✓ Define processes publicly
- ✓ Release early, release often
- ✓ Built a tool for ourselves
- ✓ Modular design



Is openXeco there yet?

Is openXeco there yet?

- ✓ No, but...

Is openXeco there yet?

- ✓ Deployment within the ECCC network
- ✓ External development by other ecosystems
- ✓ Active engagement with the communities
- ✓ Feature time-line that is appealing to contributors
- ✓ Goal: Open-Source Interconnected Market Intelligence Platform

Thanks for your attention

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