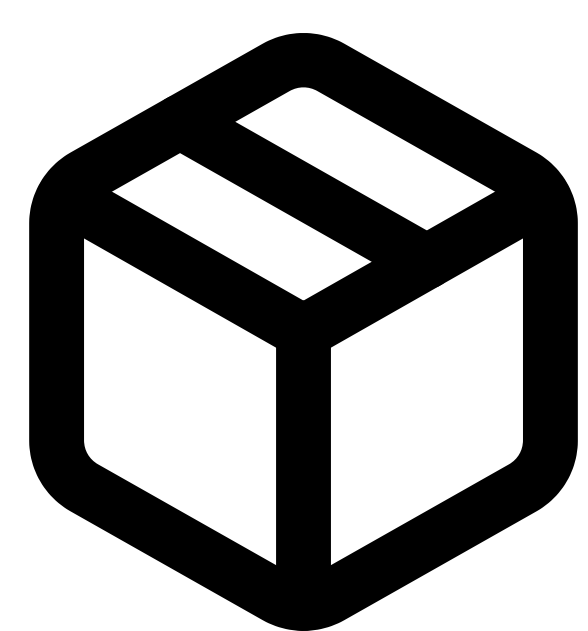


# An Editor for Research Object Crates to empower FAIR data sharing

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NovaCrate is a web-based editor for Research Object Crates, allowing users to inspect, edit, visualize, and validate their data and metadata.



**NovaCrate**  
RESEARCH OBJECT CRATE EDITOR

Import  
Export

ZIP  
ELN  
JSON-LD

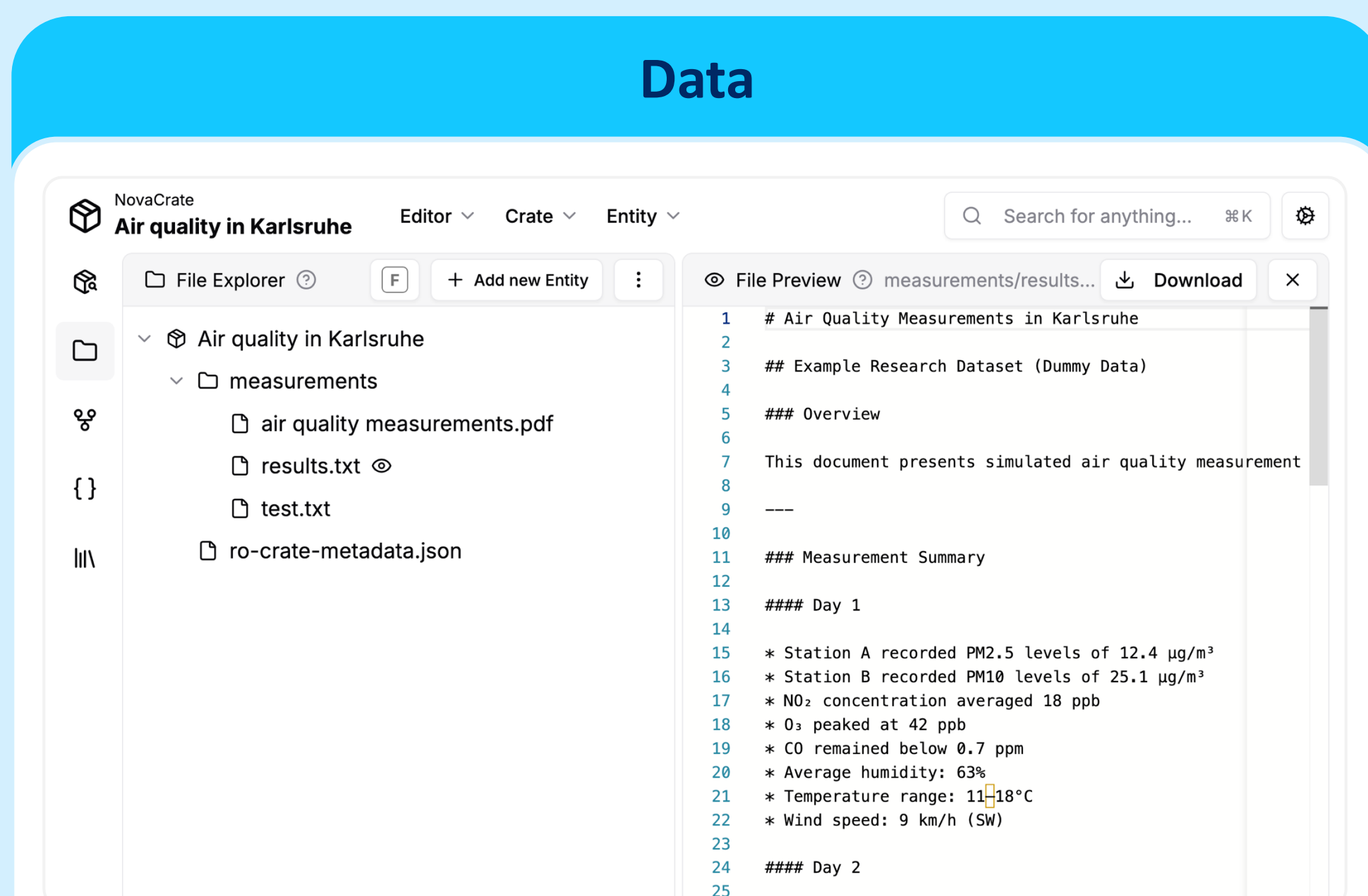


Research Object Crate

Research Object Crate is a packaging format combining Metadata (JSON-LD) and Data (in any format) into one FAIR artifact (ZIP/ELN).

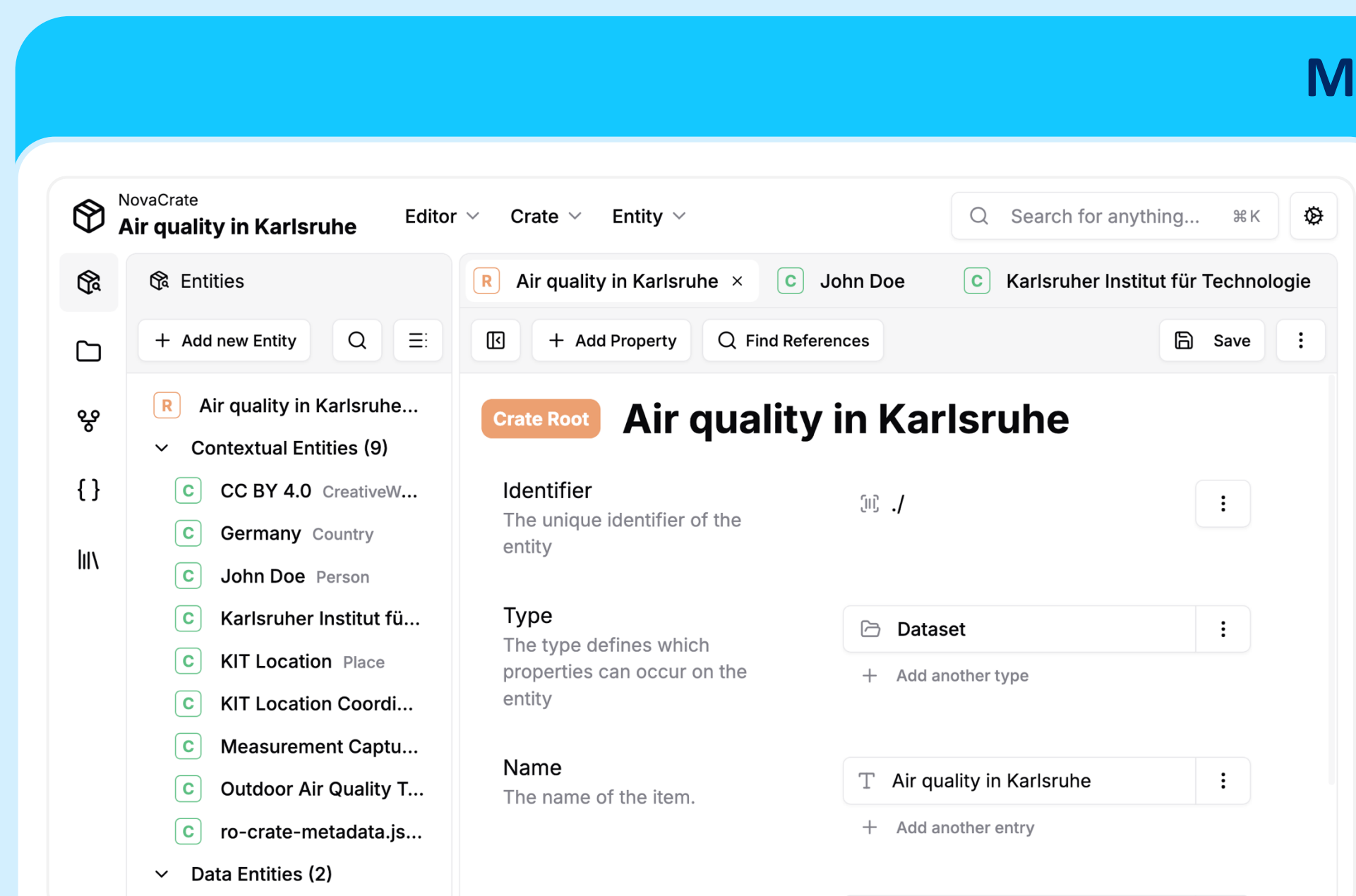
View ↔ Edit

View ↔ Edit



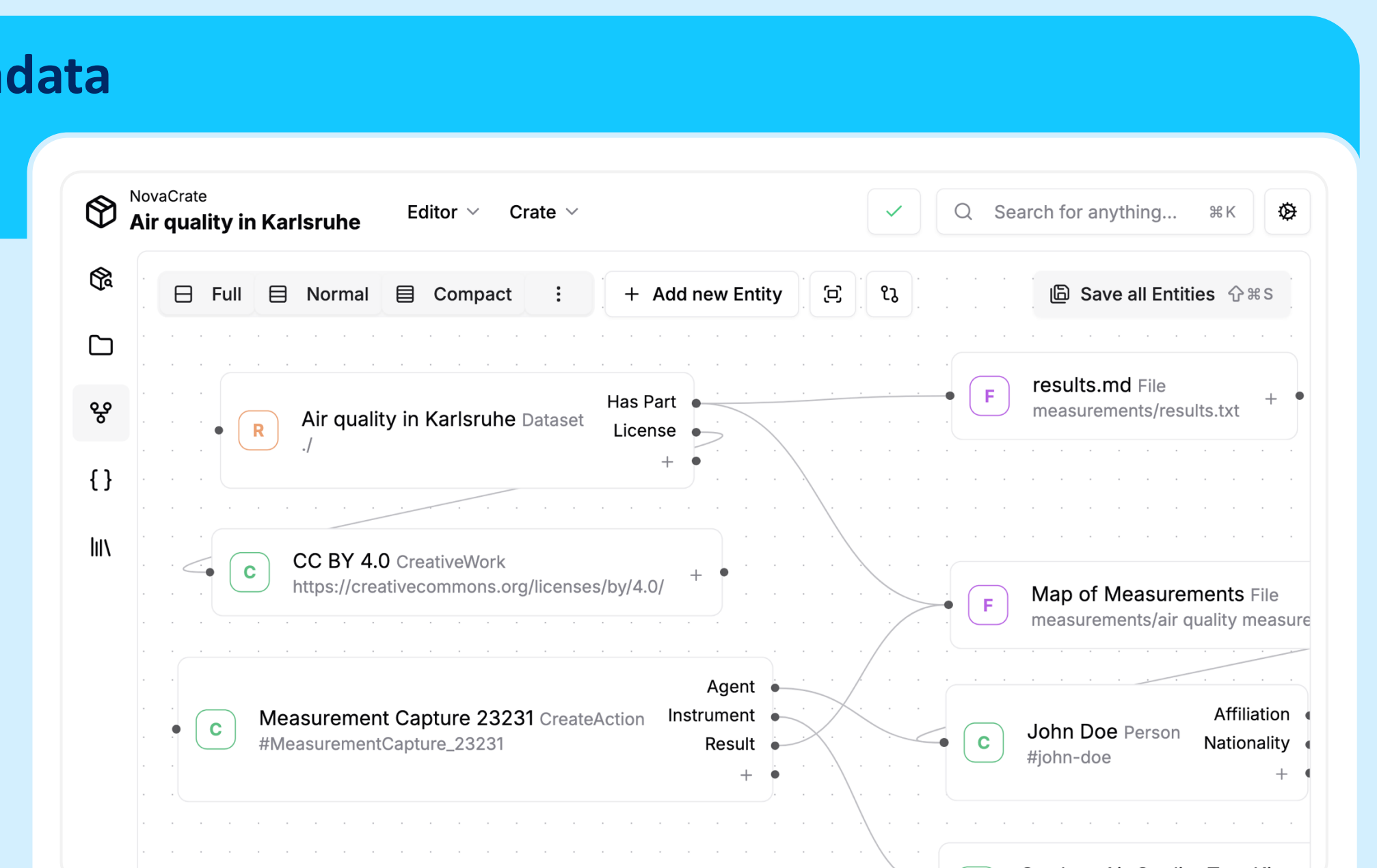
## File Explorer

The file explorer allows interacting with the data contents of the RO-Crate. It displays a tree-view of the included files and folders and allows previewing common file formats in-editor. It is also possible to add, rename, move, and delete files or folders. The file explorer shows which metadata entities are linked to which files and thus allows quick navigation to the entity editor.



## Entity Editor

This is the central element of NovaCrate. It enables users to view and edit the metadata entities encoded in the RO-Crate. It includes a live validation against the RO-Crate specification. The entity editor is used to describe the data stored in the RO-Crate, the RO-Crate itself, as well as any related authors, organizations, instruments, places, and anything else you want to describe.



## Graph View

This view displays all metadata entities as nodes in a graph, where each node is connected by the relationships between the metadata entities. The graph allows visualizing relationships encoded in the linked-data references of the RO-Crate and makes it easy to facilitate reuse of existing metadata entities. The graph view can be directly manipulated to change the relationships of the metadata entities.

## Findability

By allowing users to describe their metadata, their research data, and their RO-Crate in rich detail, NovaCrate empowers users to create findable RO-Crates that can instantly signify their value to researchers. NovaCrate empowers users to make use of unique identifiers (such as ORCID, ROR, DOI) when describing researchers, organizations, or any other contextual entity.

## Accessibility

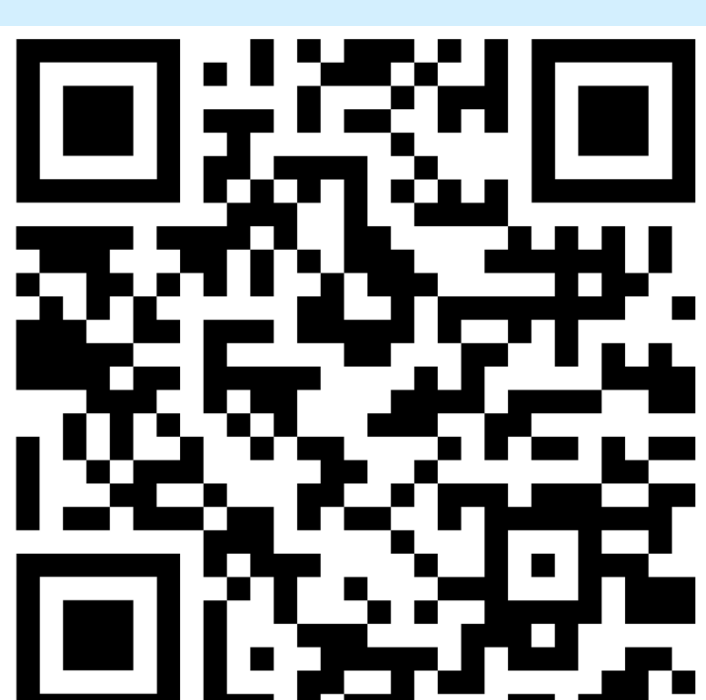
RO-Crates are inherently accessible in terms of the FAIR principles, and NovaCrate provides multiple different ways of presenting the data and metadata captured in an RO-Crate to boost accessibility of the format for humans. Furthermore, NovaCrate helps the user to create specification-conformant RO-Crates to further ensure accessibility according to the FAIR principles.

## Interoperability

NovaCrate can be extended with any vocabulary given in the JSON-LD or TTL format, enabling Interoperability with RO-Crates from many domains. RO-Crates have already been established as an exchange format for Electronic Lab Notebooks (ELN), and NovaCrate can import and export ELNs that are packaged as RO-Crates in the ELN file format.

## Reusability

NovaCrate empowers its users to create high-quality RO-Crates by providing live validation of the metadata encoded in the RO-Crate and by empowering users to include rich metadata about the data stored in the RO-Crate. NovaCrate allows directly opening any pre-existing RO-Crate to extract data or metadata encoded within, or to reuse it as a template for a new RO-Crate.



Try NovaCrate now!  
No Installation required



NovaCrate  
on GitHub

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