

# Creating and inspecting Research Object Crates – the interactive way

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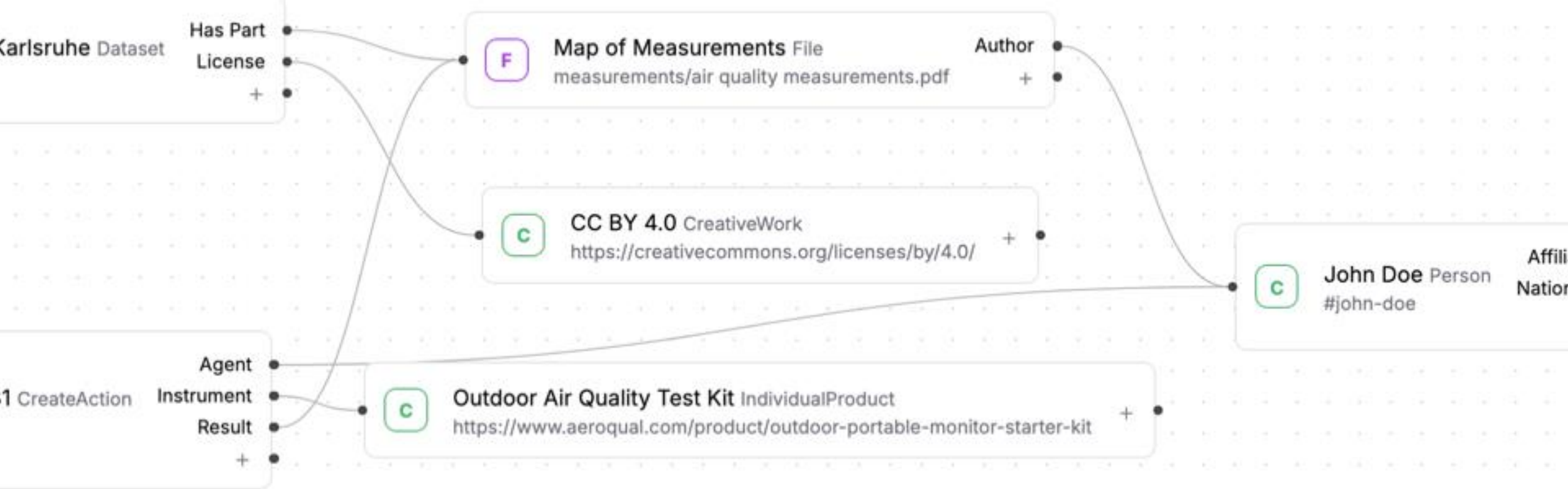
28. April 2026, 09:00 – 10:30

<HMC>

W02

## Agenda

1. Introduction (20 min)
2. NovaCrate Tutorial (5 min)
3. DIY Session (45 min)
4. Discussion & Feedback (20 min)



# Introduction

Chapter  
01

# Workshop Introduction

## Topic of the Workshop: The RO-Crate Editor NovaCrate

### Goals of the Workshop

- Training and hands-on experience with NovaCrate
- Training and hands-on experience with RO-Crates
- Gather feedback on NovaCrate
- Discuss RO-Crate advantages and shortcomings



# Initial Questions

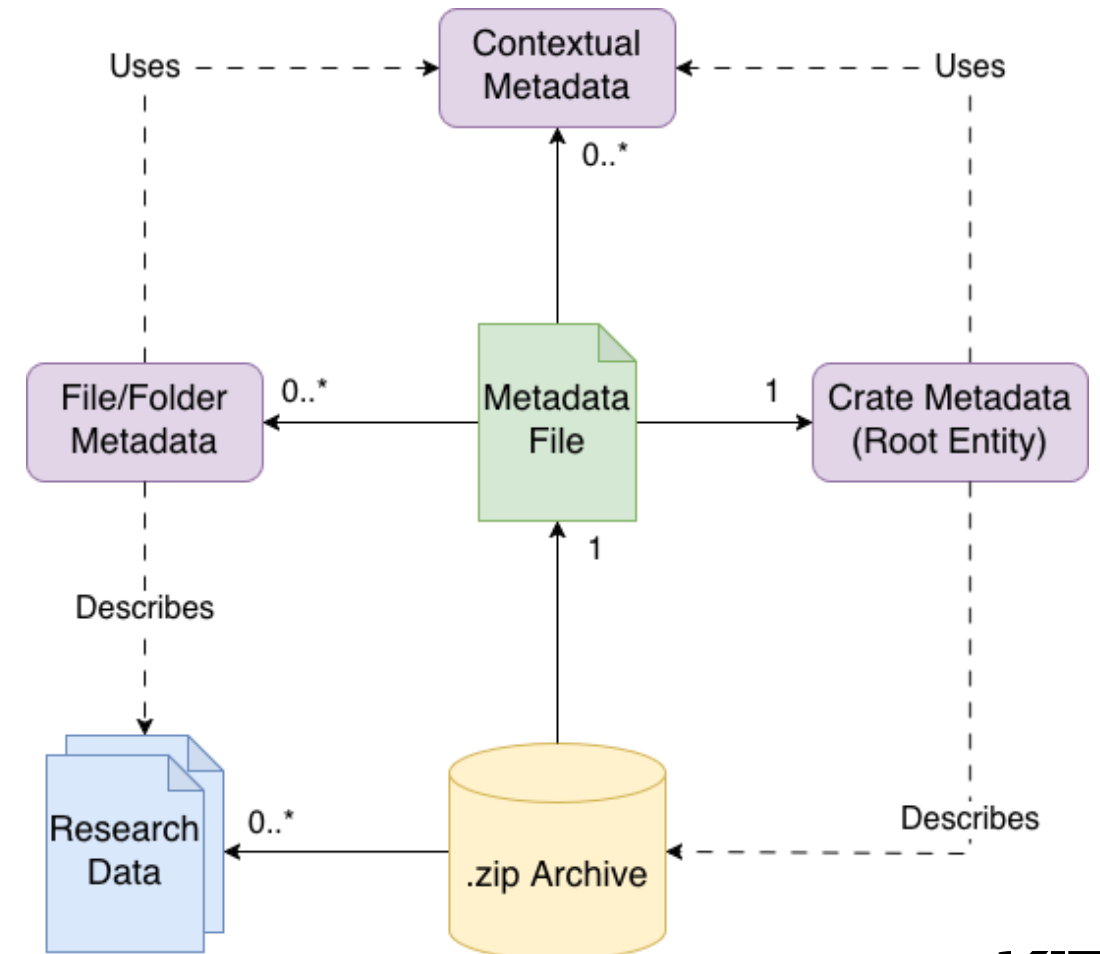


<https://www.menti.com/al2mp5adijgh>

# Introduction to Research Object Crates

## Packaging format to package research data together with its metadata in a single archive

- **Archive:** usually a .zip archive
- **Research data:** arbitrary files and folders located in the archive
- **Metadata:** JSON-LD file describing research data and context
  - **Data Entities:** describe Files and Folders
  - **Contextual Entities:** describe Authors, Organizations, ...
  - **Root Entity:** describes the RO-Crate itself



# Introduction to NovaCrate

**NovaCrate is a web-based editor for RO-Crates (in active development)**

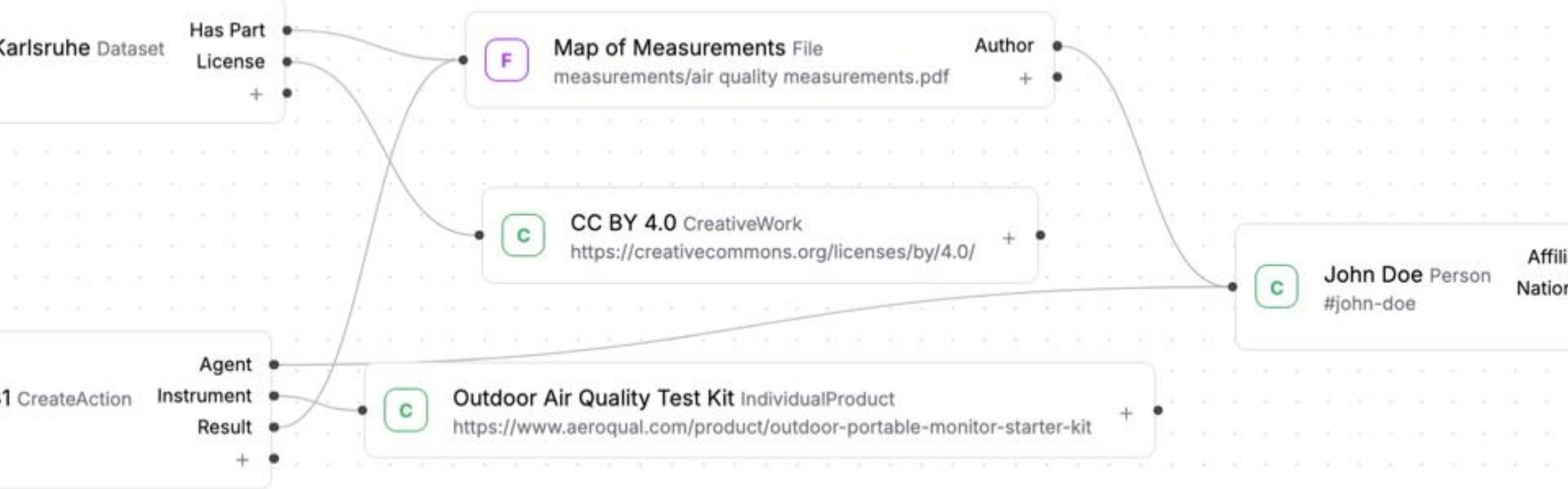
## Example user flows

- Create new crate from scratch, describe research data (findability)
- Open and inspect existing crate (accessibility)
- Convert between file formats (interoperability)
- Open and edit existing crate, then export to new crate (reuse)



## Integration and adoption

- Standalone editor for local use, or...
- Integrated in RO-Crate repository, or...
- Integrated in RO-Crate creation/inspection workflows

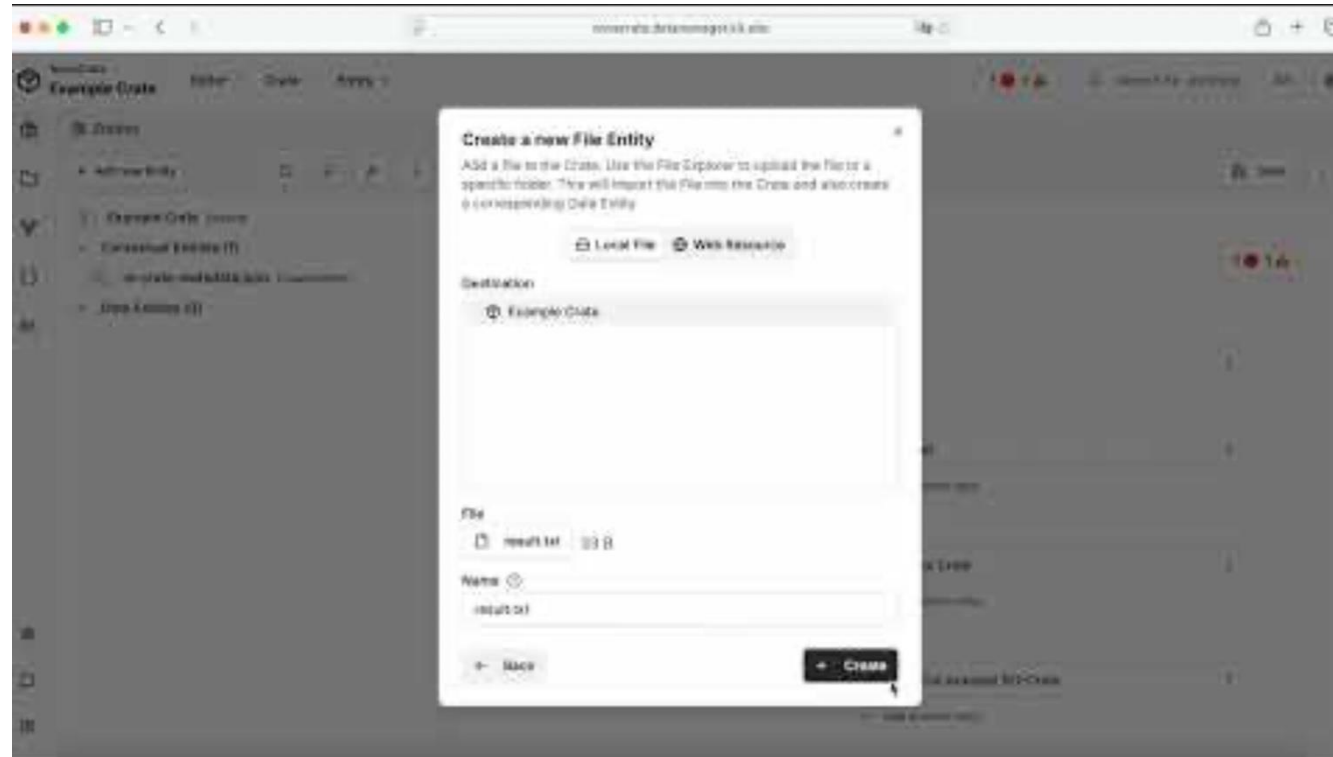


# NovaCrate Tutorial

Chapter  
02

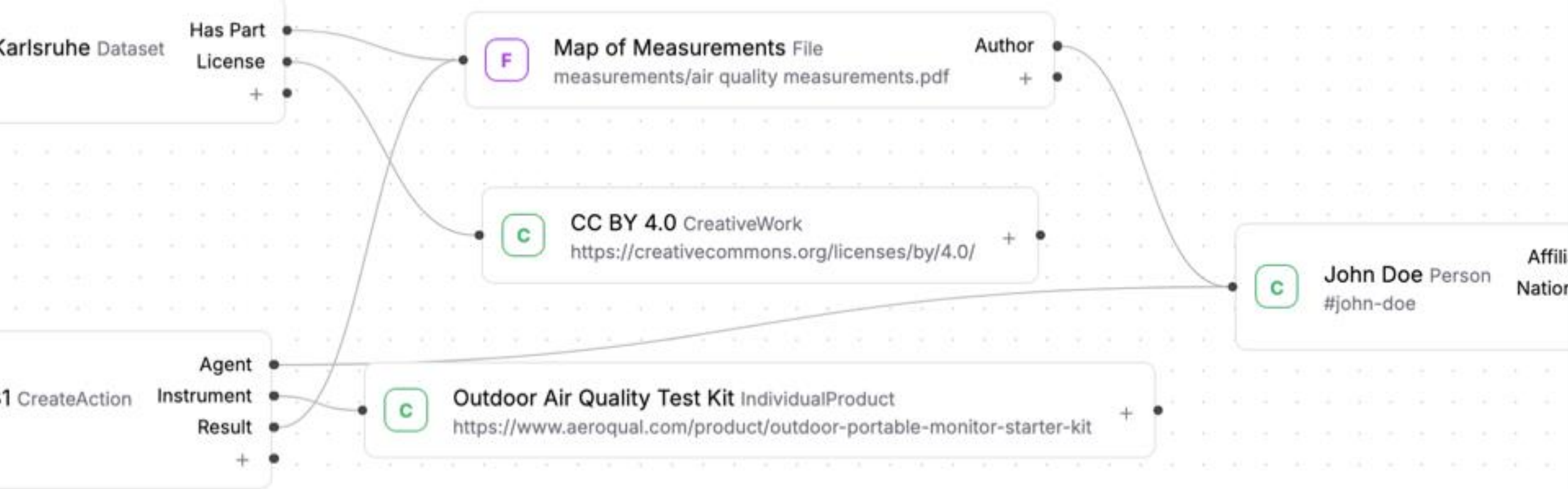


# NovaCrate Tutorial



## More Materials from our group

- Training videos: <https://youtube.com/@ScientificComputingCenter>
- Metadata Cookbook: <https://kit-data-manager.github.io/metadata-management-cookbook/intro.html>



# DIY Session

Chapter  
03

# DIY Session

## Research Data

- Bring your own data (recommended!)
- Use our example data (second link on the right)

## Tasks (Suggestion)

- Create a new RO-Crate
- Upload your selected research data
- Describe your data with any additional information
- Start creating contextual metadata about...
  - Authors of datasets
  - Organizations involved (Funding, Employer, Manufacturer)
  - Places involved
  - Measurement Devices used

### Post-Conference:

Find the Workshop Material in the Zenodo Publication  
(10.5281/zenodo.20025307)

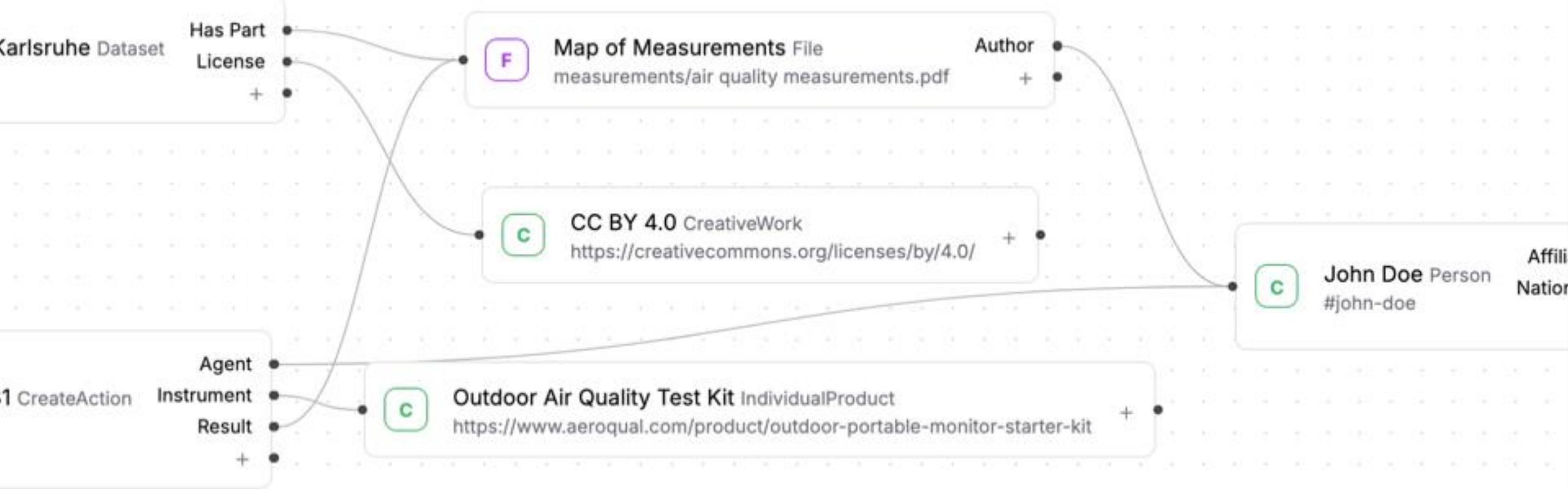
### Open NovaCrate

<https://s.kit.edu/novacrate>

**Workshop Materials**  
and links to the **Miro Board** and more

<https://s.kit.edu/w02-material>

**Take notes and add  
discussion impulses in the  
Miro Board**



# Discussion & Feedback

Chapter  
04

# Discussion & Feedback

## Discussing Topics from the Miro Board

- See the link on the right

## Fallback Questions

1. In which scenarios are RO-Crates useful?
2. How to approach reuse or consumption of RO-Crates?
3. How can you incorporate RO-Crates into your research?
4. What do you need/expect from NovaCrate to do any of the above?

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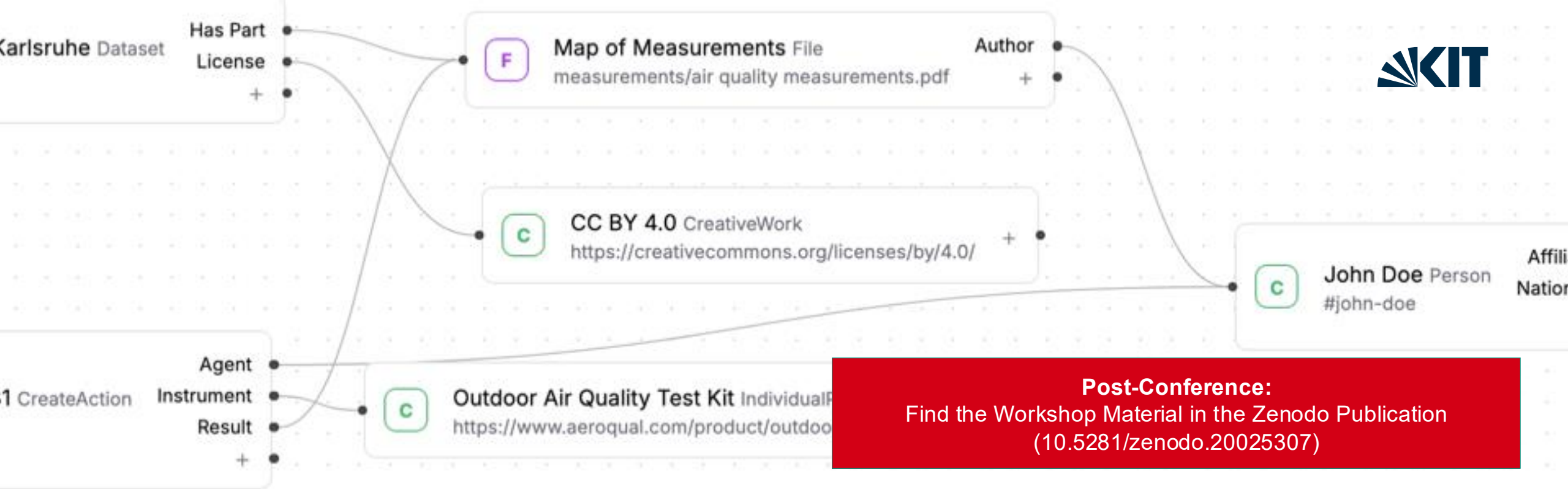
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# Thank you for your attendance!

Contact: [christopher.raquet@kit.edu](mailto:christopher.raquet@kit.edu)

**Workshop Materials**  
<https://s.kit.edu/w02-material>

**Open NovaCrate**  
<https://s.kit.edu/novacrate>

**Next workshop in this room:**

→ **W06:** Make your own FAIR Digital Objects –  
The Graphical Way