

Towards the automated data management in NRP

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NRP KA5.3



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Nanoscale analysis of human G1 and metaphase chromatin in situ

Lu Gan

Accession S-BIAD1466
DOI 10.6019/S-BIAD1466
Description Confocal and immunoblot data of RPE-1 cells
Keywords RPE-1, confocal, immunoblot
License CC BY 4.0
RPE-1 cells
Organism Homo sapiens (human)
Biological entity RPE-1 cells

RPE-1 cells
Sample preparation protocol NTERT-RPE-1 cells (human retina epithelium cells immortalized with hTERT; CR1-4000*) were obtained from ATCC (Manassas, VA). The cells were grown in an incubator set to 37°C and 5% CO₂. The cells were cultured in complete medium consisting of DMEM/F-12 with GlutaMAX™ medium supplemented with 10% fetal bovine serum and 1% penicillin-streptomycin (Pen-strep). Cell washing was done with PBS+Ca+Mg, consisting of Phosphate-buffered saline, 0.1 mg/ml CaCl₂, and 0.1 mg/ml MgCl₂.

Confocal microscopy
Imaging instrument LSM900
Image acquisition parameters For morphological analysis, RPE-1 cells were imaged using a Nikon Eclipse TI microscope (Nikon Instruments Inc., Tokyo, Japan) equipped with a Plan Fluor 10x Ph1 objective lens. To obtain

Data files

Name
Confocal_WB_Figures_RawData_Index.xlsx
20240131_RPE1_01_SSP_DapiPol255p_630-01
20240131_RPE1_01_SSP_DapiPol255p_630-01
20240131_RPE1_01_SSP_DapiPol255p_630-01
20240131_RPE1_01_SSP_DapiPol255p_630-01

Showing 1 to 5 of 140 entries

Download all files

Entries / CO2RuZn116 FHI-aims DFT SinglePoint simulation

PUBLISH EXPLORE ANALYZE ABOUT

OVERVIEW

Method name: DFT
Workflow name: SinglePoint
Program version: 221103
Program name: FHI-aims
Basis set type: (LJAPW)lo
Core electron treatment: full all electron
Jacob's ladder: GGA
XC functional names: GGA_C_PBE, GGA_X_PBE
Jacob's ladder: GGA
Relativity method: scalar_relativistic_atomic_ZORA
Basis set: atom-centered orbitals
Entry type: FHI-aims DFT SinglePoint
Entry name: CO2RuZn116 FHI-aims DFT SinglePoint...

Comment: no comment
References: Herzain I, Rivera-arrieta 10.17172/NOMAD/2024.05.10-1

Material

ORIGINAL

Description: A representative system chosen from the original simulation.

PROPERTY	VALUE
Chemical formula hit	CELL
Chemical formula hit	CO2RuZn116
Chemical formula Iupac	RuZn116CO2
Structural type	unavailable
Label	original
Material id	unavailable
Elements	C, O, Ru, Zn
N elements	4 (quaternary)
Watsons	120

Workflow Graph

Filter tasks (N=1)

View JSON

Summary information

Study title
Service Production with Basis in the Fishing Industry, 1989.

Creator
Osland, Ove

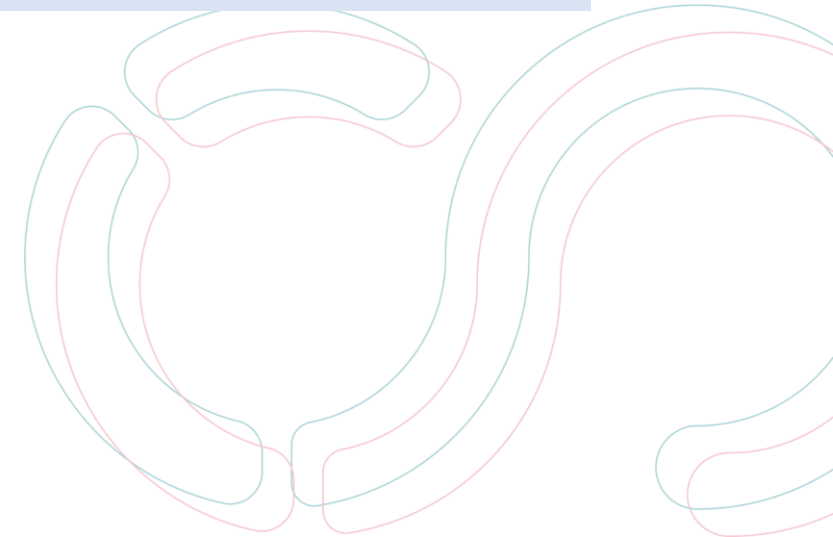
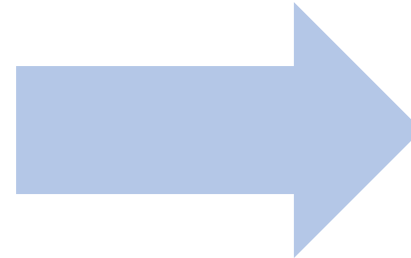
Study number / PID
https://doi.org/10.18712/NSD-NSD1605-V1 (DOI)

Data access
Information not available

Series
Not available

Abstract
The purpose of this project was to investigate the effects of delivery with regard to goods and services to the fishing industry. The survey was carried out through the creation of a business database sorted by activity on the user side, location etc. In addition, interviews with users of fisheries services were carried out.

Data submission to repository



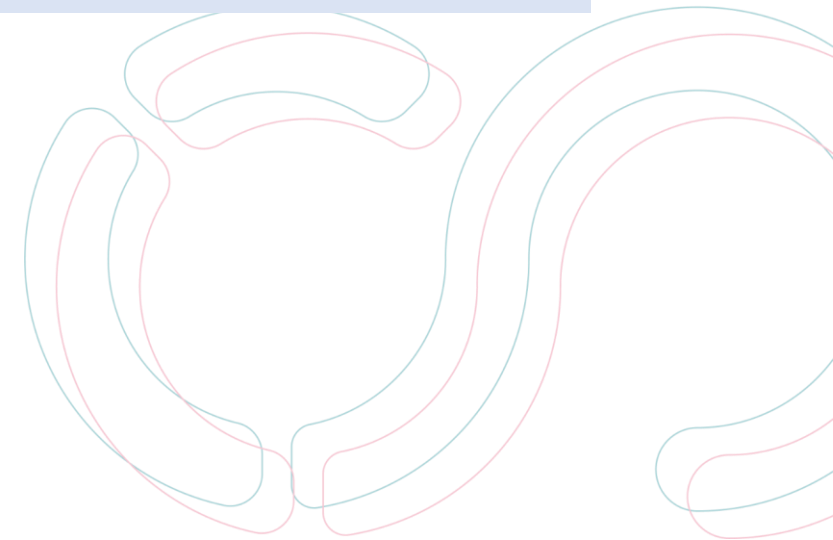
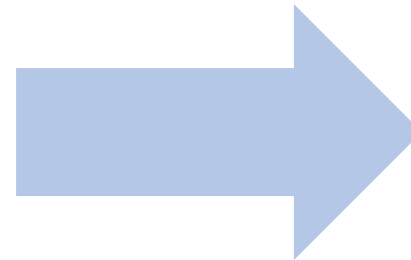
Data submission to repository



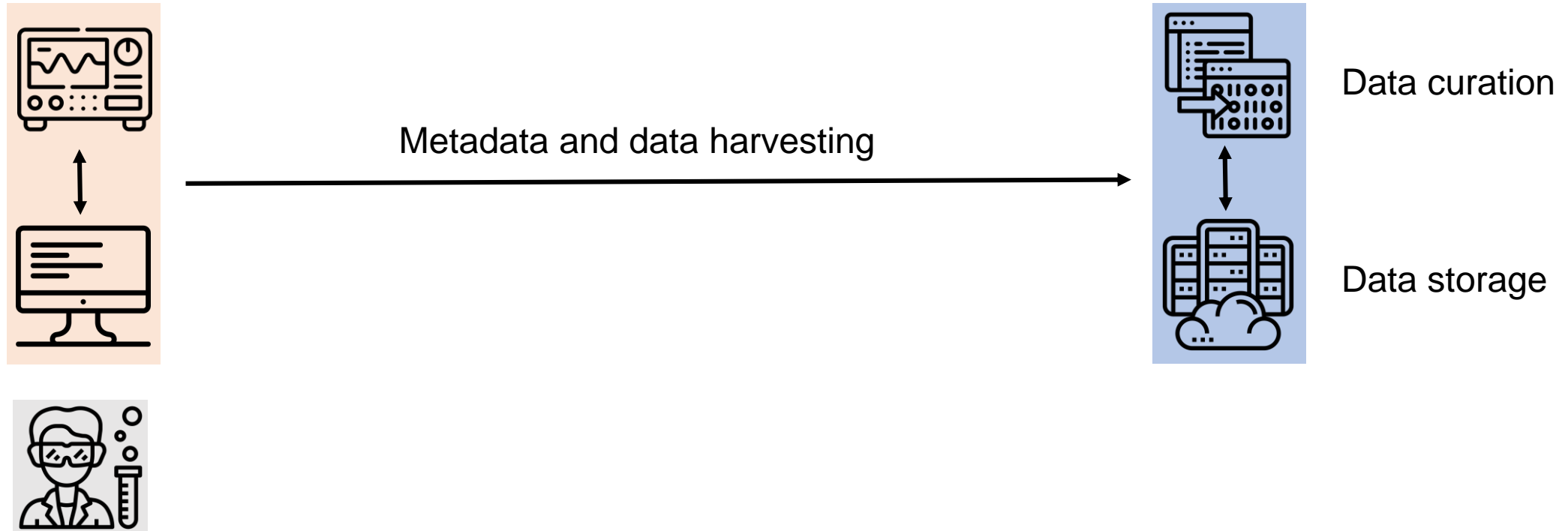
Data processing



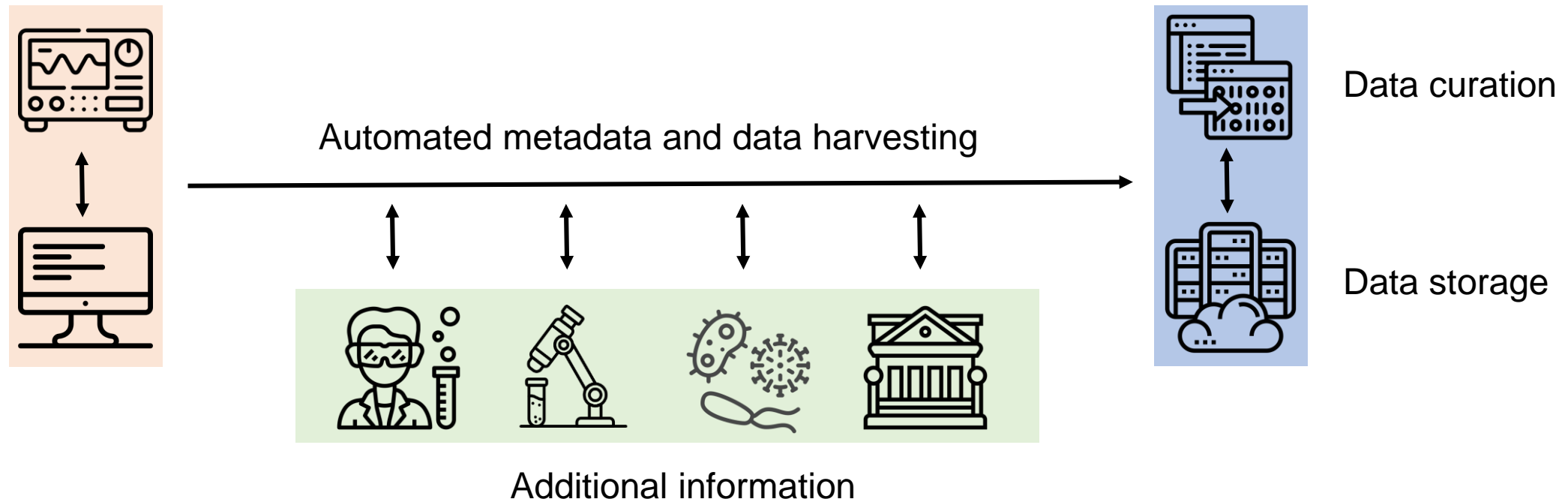
Automated (meta)data submission to repository



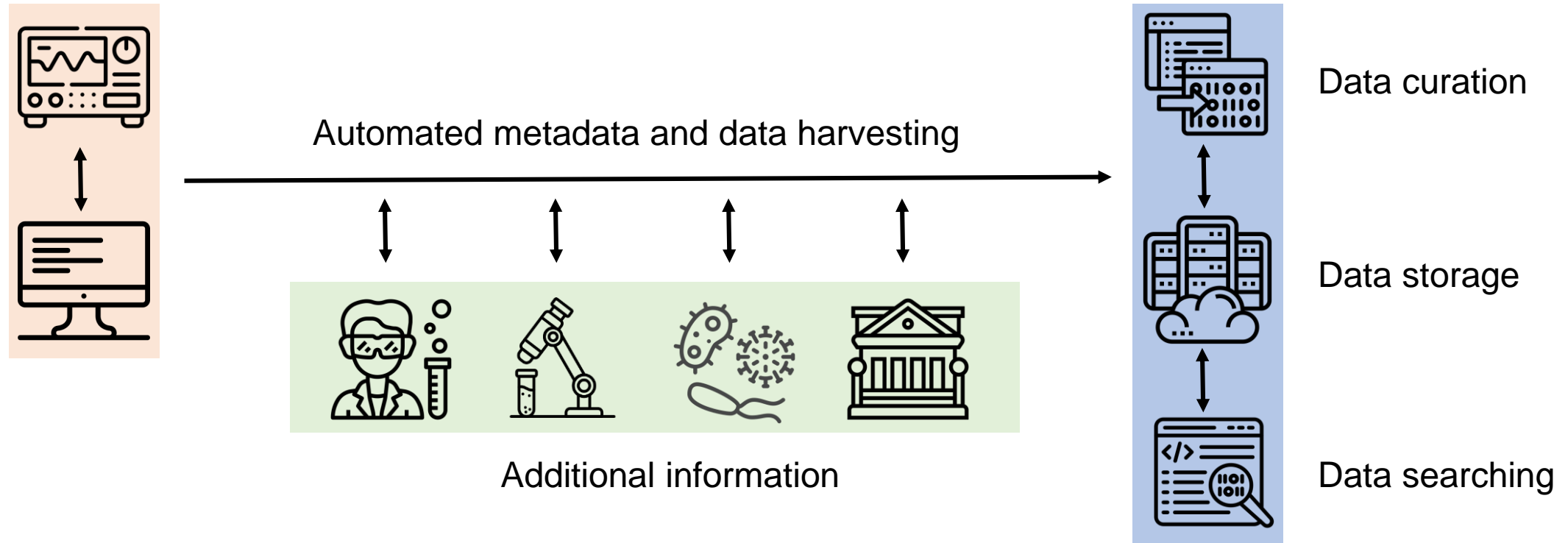
Automated (meta)data harvesting to NRP



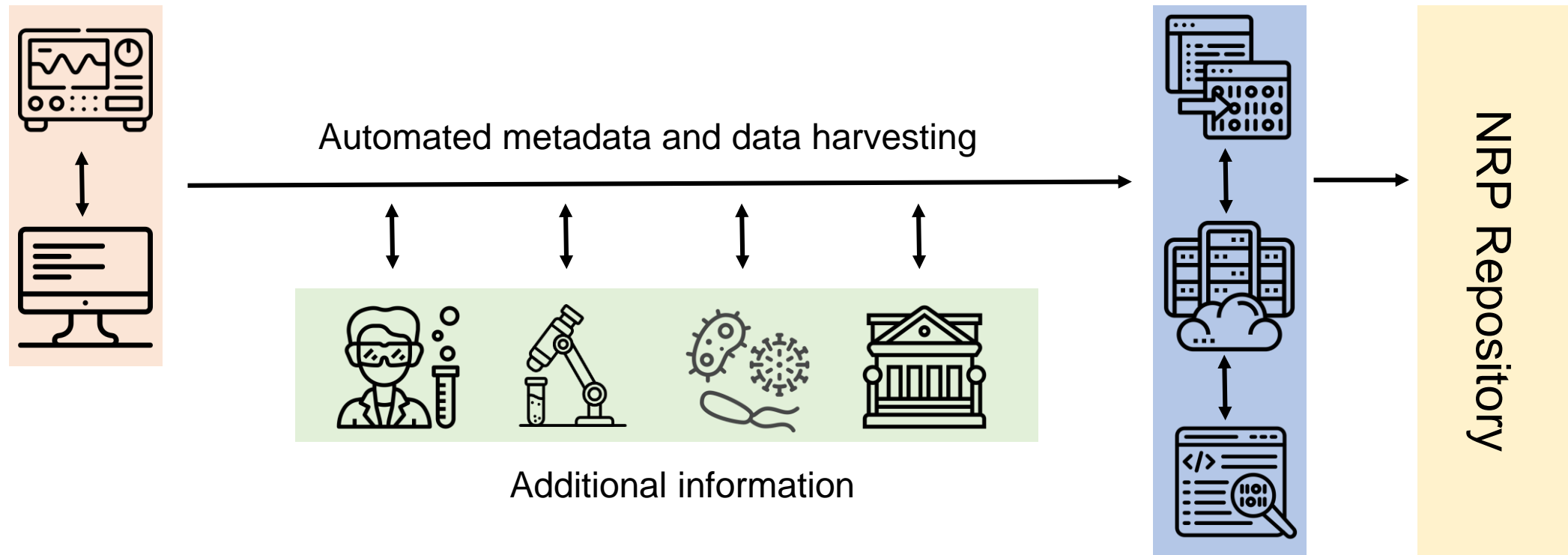
Automated (meta)data harvesting to NRP



Automated (meta)data harvesting to NRP



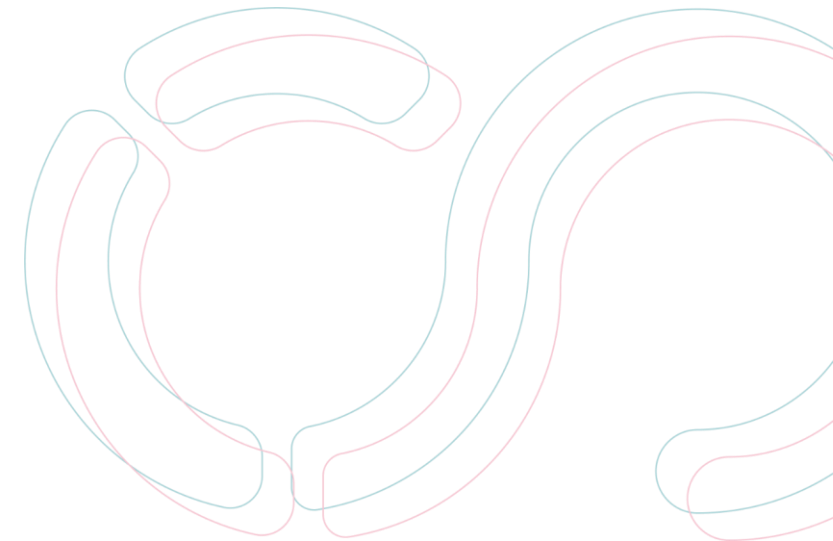
Automated (meta)data harvesting to NRP



KA5.3 Automated (meta)data harvesting to NRP

Two systems:

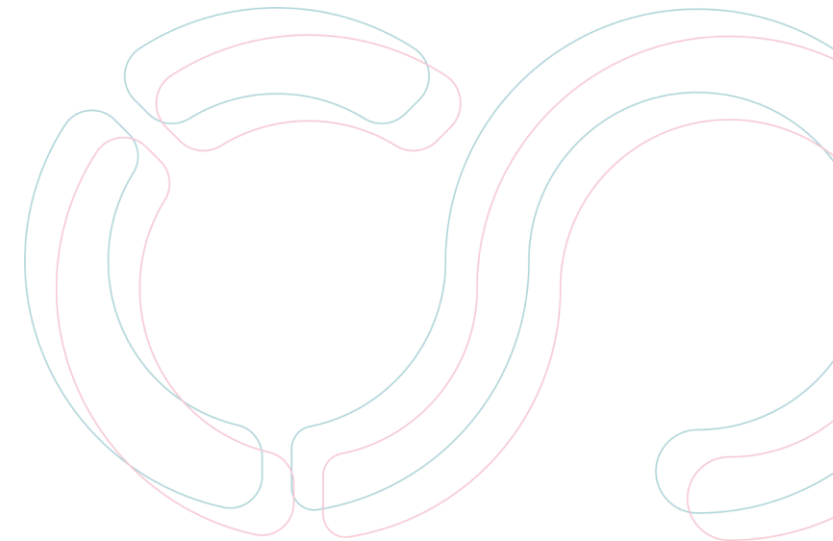
- DDR (Data-Driven Research)
- OneData - CEITEC



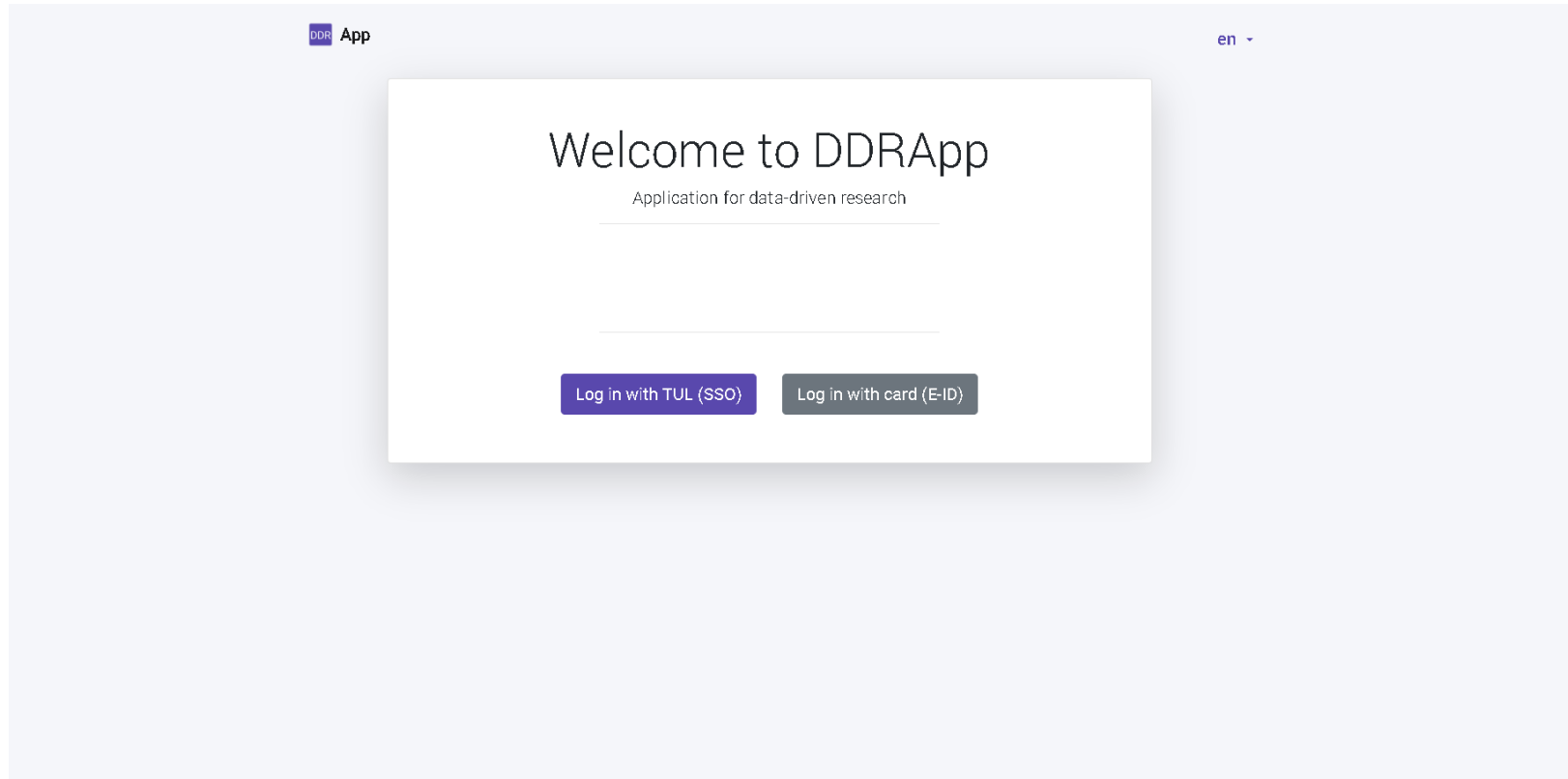
KA5.3 Automated (meta)data harvesting to NRP

Two systems:

- DDR (Data-Driven Research)
- OneData - CEITEC



DDRapp – basic functions



DDRapp – basic functions

The screenshot displays the DDRapp interface with a navigation bar at the top containing 'App', 'Instruments', 'Datasets', 'Measurements', 'S3Point Browser', 'Reservations', and 'Users'. On the right side of the navigation bar, there are icons for a notification bell, a user profile, and a language selector set to 'en'. The main content area features four vertically stacked cards:

- Instruments:** Na vašem oddělení jsou evidovány 3 přístroje z celkem 3 na vaší součásti. (+ | menu)
- Datasets:** Na vašem oddělení jsou aktuálně 3 otevřené datasey z celkem 3 na vaší součásti. (+ | menu)
- Measurements:** Na vašem oddělení je aktuálně 1 běžící měření z celkem 12 na vaší součásti. (+ | menu)
- Reservations:** Aktuálně máte 0 rezervací. (+ | menu)

DDRapp – basic functions



< Create a new measurement

Please enter details to begin a measurement

Acronym*

Specify a name for a better description. Only Latin characters, numbers and hyphens.

Dataset*
 ??measurement.button.find_en??

Instrument*
 Show Instruments

Tags

Insert tags comma(,) separated. Use only Latin characters, numbers or hyphens.

[Need help? Contact Administrator](#)

DDRapp – basic functions



< Create a new measurement

Please enter details to begin a measurement

Acronym*

Acronym or at least one character

Specify a name for a better description

Dataset*

– select from the menu

Instrument*

– select from the menu

Tags

Tags separated by comma

Insert tags comma(,) separated

DDR App Instruments Datasets Measurements S3Point Browser Reservations Users

Instruments
Detailed overview

+ Add Instrument Search

Department *1	Acronym *2	Czech name	Installed	Measuring	??entity.actions_en??
OABI	dPCR	QIAcuity One	✓	✗	
OECH	FemtoLaser	Femtosekundovy pulzni laser	✓	✗	
ONCH	FTIR spektrometr	FTIR spektrometr	✓	✗	

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DDRapp – basic functions



< Create a new measurement

Please enter details to begin a measurement

Acronym*

Specify a name for a better description. Only Latin characters, numbers and hyphens.

Dataset*
 ??measurement.button.find_en??

Instrument*
 Show Instruments

Tags

Insert tags comma(,) separated. Use only Latin characters, numbers or hyphens.

[Need help? Contact Administrator](#)

The screenshot shows the 'Datasets' section of the DDRapp interface. At the top, there is a navigation bar with 'App', 'Instruments', 'Datasets', 'Measurements', 'S3Point Browser', 'Reservations', and 'Users'. A notification bell and user profile icon are on the right. Below the navigation, the 'Datasets' title is followed by a '+ Add dataset' button and a search input field. The main content is a table with the following data:

Creation date ^1	Acronym ^2	Resource internal nr	Resource activity	Resource acronym	??entity.actions_en'
2024-11-22 09:29	StuchlikMartin	6492/8300	206	Zakazka	
2024-11-13 13:03	GenericOMIDataset	8410	107	OMI	

At the bottom of the table, there is a pagination control showing 'Page 1 of 1', a dropdown menu set to '20', and '1 - 2 / 2'. A copyright notice at the bottom reads '© 2023-2024 TUL, AVCR, CESNET (Version: 1.0.2.cab8832)'.

The screenshot shows the DDRapp interface. At the top, there is a navigation bar with the following items: 'DDR App', 'Instruments' (circled in red), 'Datasets', 'Measurements', 'S3Point Browser', 'Reservations', and 'Users'. On the right side of the navigation bar, there are icons for a notification bell, a user profile, and a language dropdown set to 'en'.

Below the navigation bar, the 'Datasets' section is visible. It includes a '+ Add dataset' button and a search input field. The main content is a table with the following columns: 'Creation date', 'Acronym', 'Resource internal nr', 'Resource activity', 'Resource acronym', and 'entity.actions_en'. The table contains two rows of data:

Creation date	Acronym	Resource internal nr	Resource activity	Resource acronym	entity.actions_en
2024-11-22 09:29	StuchlikMartin	6492/8300	206	Zakazka	
2024-11-13 13:03	GenericOMIDataset	8410	107	OMI	

At the bottom of the table, there is a pagination control showing 'Page 1 of 1', a dropdown menu set to '20', and a link icon. Below the table, there is a copyright notice: '© 2023-2024 TUL, AVCR, CESNET (Version: 1.0.2.cab8832)'.

The screenshot shows the DDRapp interface. At the top, there is a navigation bar with the following items: **DDR App**, **Instruments**, **Datasets**, **Measurements**, **S3Point Browser**, **Reservations**, and **Users**. The **Users** item is circled in red. To the right of the navigation bar, there are icons for a notification bell, a user profile, and a language dropdown set to 'en'.

Below the navigation bar, the main content area is titled **Datasets** and **Dataset lookup**. It features a purple button labeled **+ Add dataset** and a search input field with the placeholder text **Search**. Below this is a table with the following columns: **Creation date**, **Acronym**, **Resource internal nr**, **Resource activity**, **Resource acronym**, and **entity.actions_en**.

Creation date	Acronym	Resource internal nr	Resource activity	Resource acronym	entity.actions_en
2024-11-22 09:29	StuchlikMartin	6492/8300	206	Zakazka	
2024-11-13 13:03	GenericOMIDataset	8410	107	OMI	

At the bottom of the table, there is a pagination control showing **Page 1 of 1**, a dropdown menu set to **20**, and a link icon. Below the pagination control, there is a copyright notice: **© 2023-2024 TUL, AVCR, CESNET (Version: 1.0.2.cab8832)**.

DDR App Instruments Datasets Measurements **S3Point Browser** Reservations Users

+ Add dataset Search

Creation date ^1	Acronym ^2	Resource internal number	Resource activity	Resource acronym	??entity.actions_en'
2024-11-22 09:29	StuchlikMartin	6492/8300	206	Zakazka	
2024-11-13 13:03	GenericOMIDataset	8410	107	OMI	

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DDR App Instruments Datasets Measurements S3Point Browser Reservations Users

en

S3Point Browser

??s3point.subtitle_en??

+ Add resource + Add dataset Search

Buckets ^	Datasets ^	Directories/Files ^
<input type="text"/>	<input type="text"/>	<input type="text"/>
64928300-206-zakazka	StuchlikMartin	@DDP V4 t0.CSV
8410-107-omi	StuchlikMartin/	@DDP V4 t0.SPA
8460-117-lmi		DDP V4 t0.SPA
airflow-logs		export.png
cxi-web		test.txt
dzg858109-126-surri		

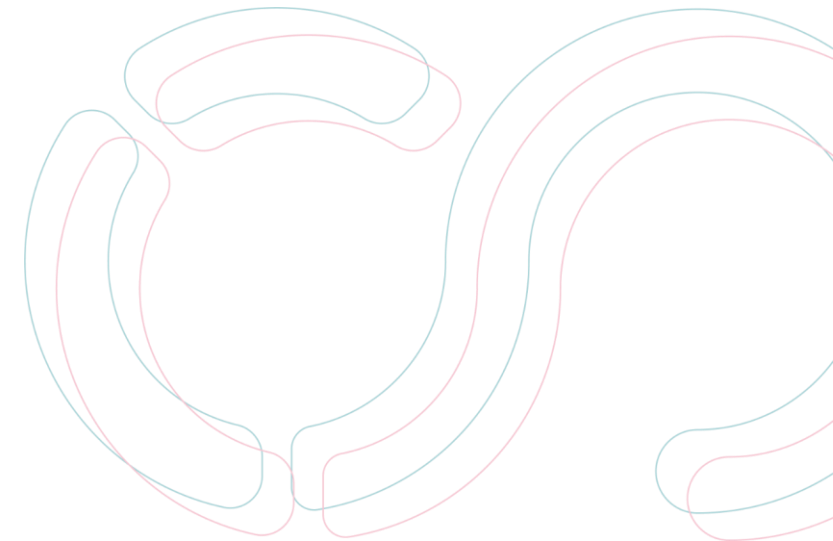
Page 1 of 1

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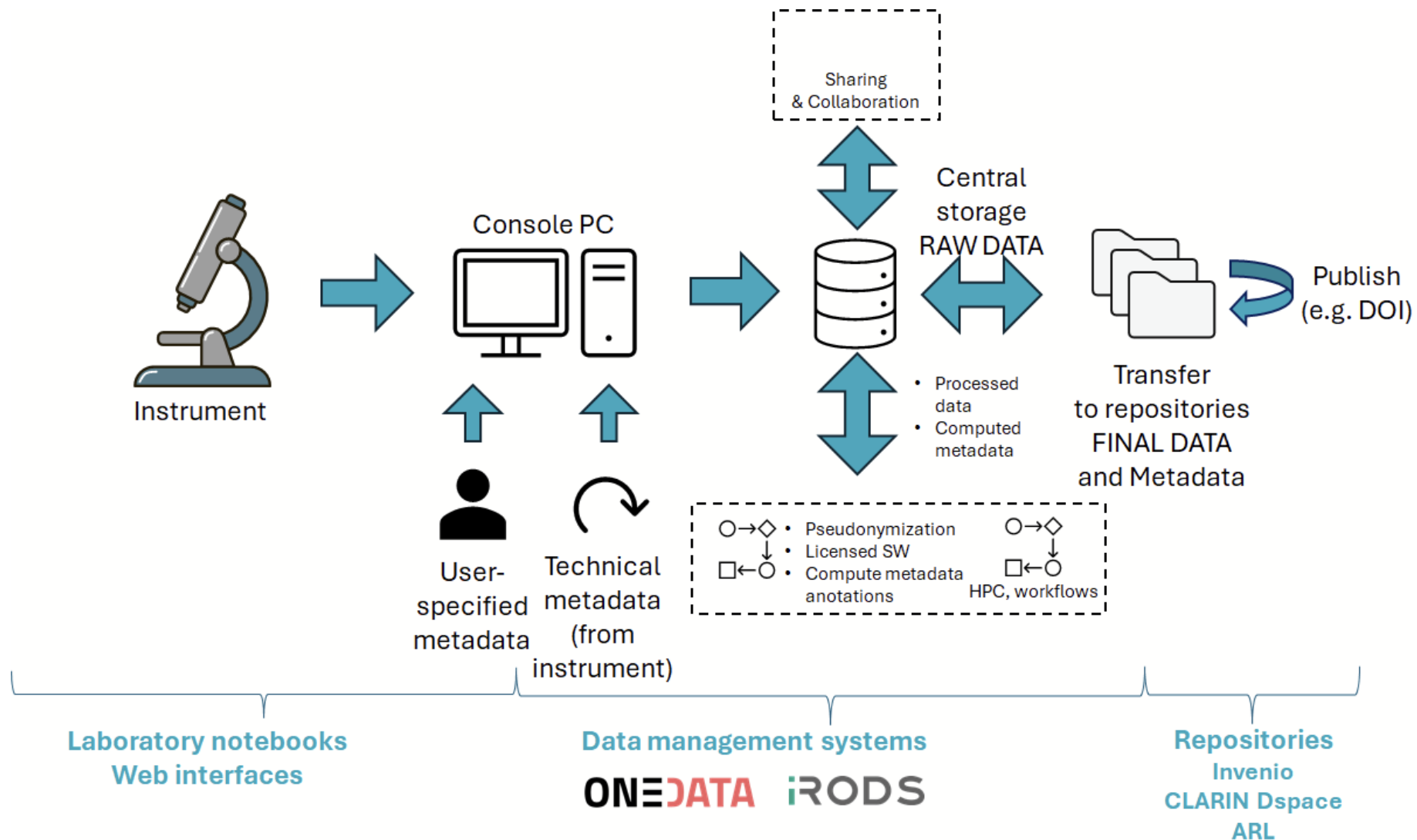
KA5.3 Automated (meta)data harvesting to NRP

Two systems:

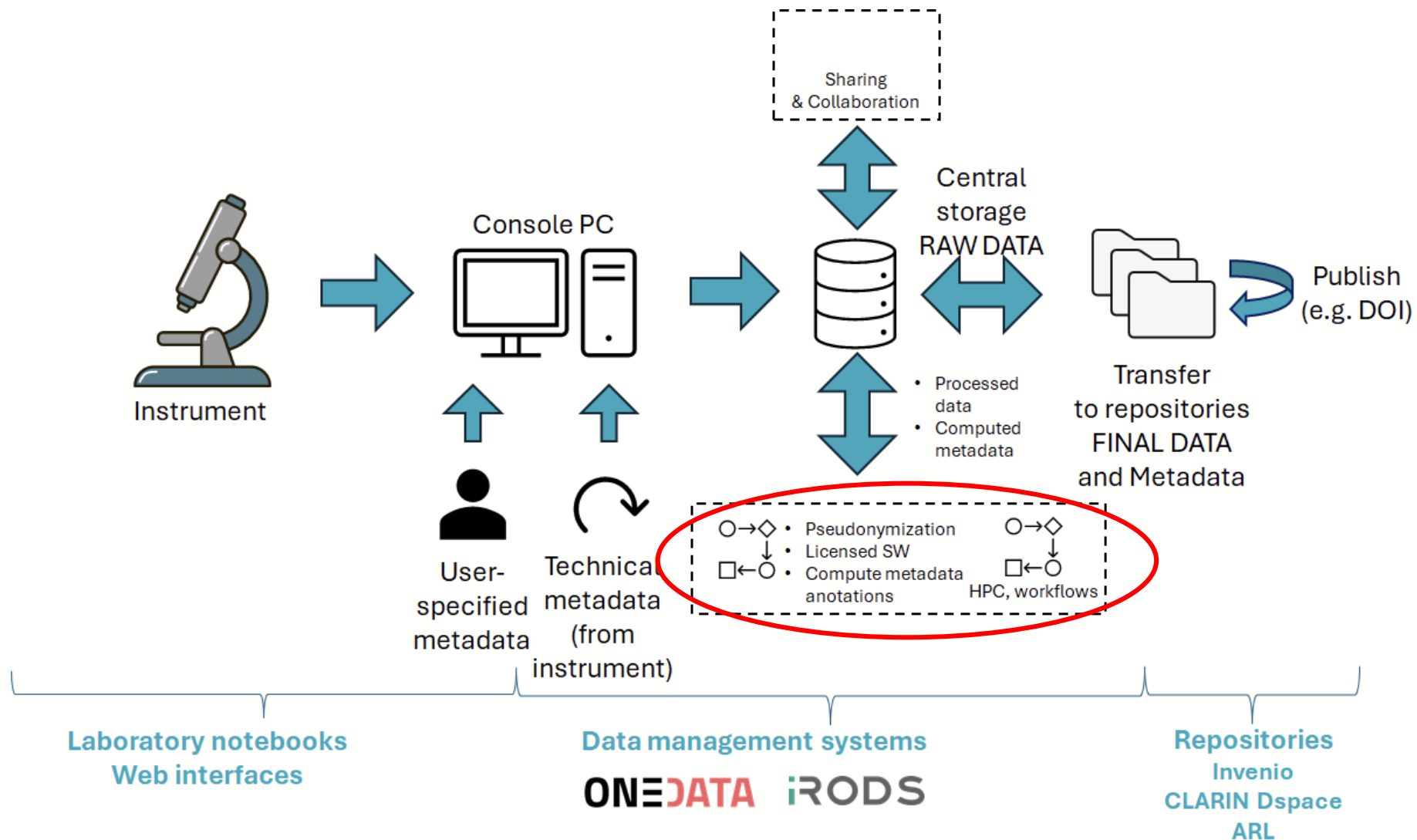
- DDR (Data-Driven Research)
- OneData - CEITEC



OneData – CEITEC system

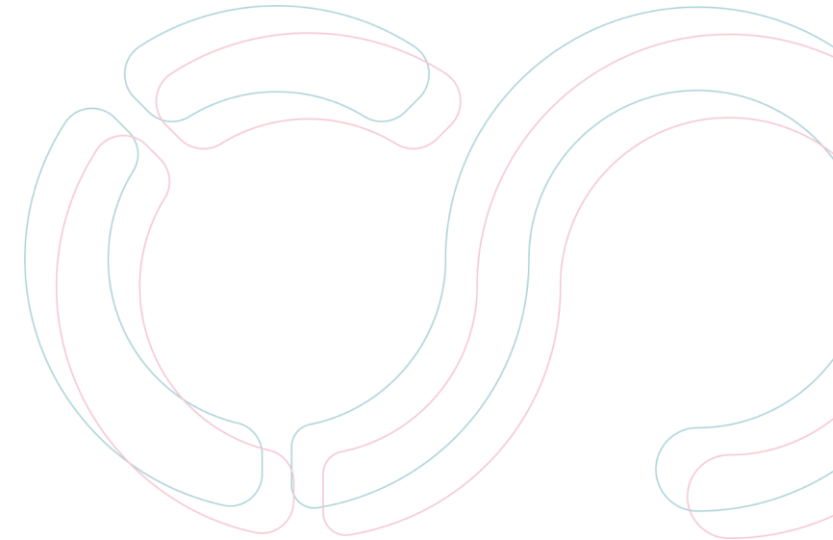


OneData – CEITEC system

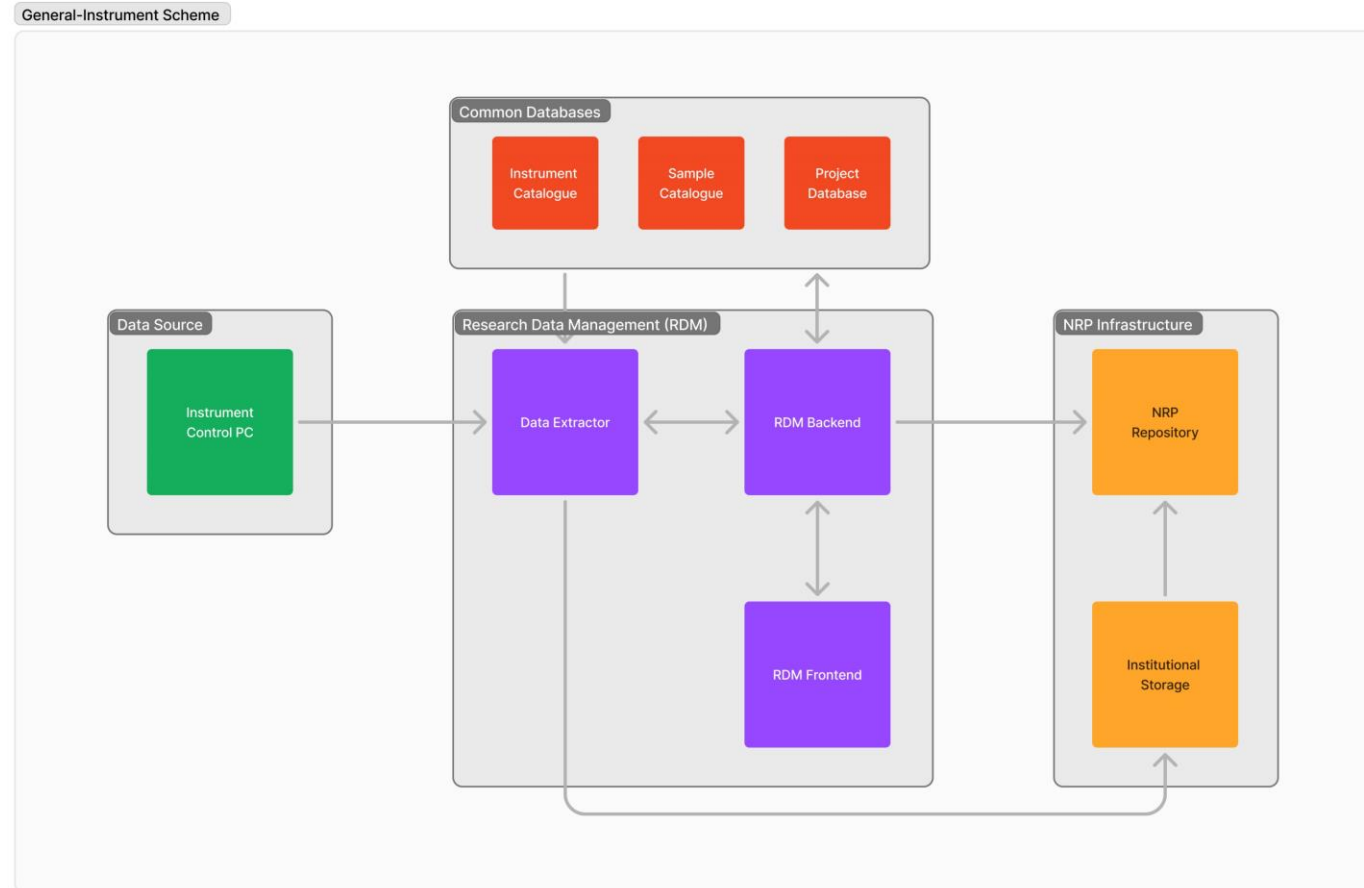


Future plans:

- Integration with compute services (NRP KA5.4)
- Custom metadata models (ontologies ?)
- National (federated) sample/instrument databases



Automated data management – Architecture



Thank you for your attention. Questions?

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