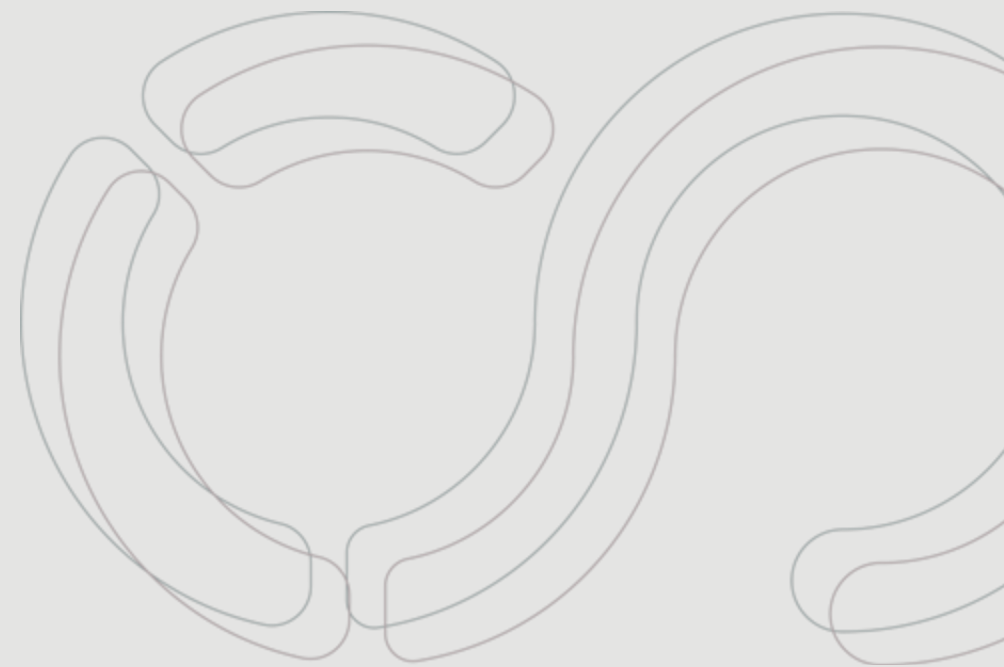


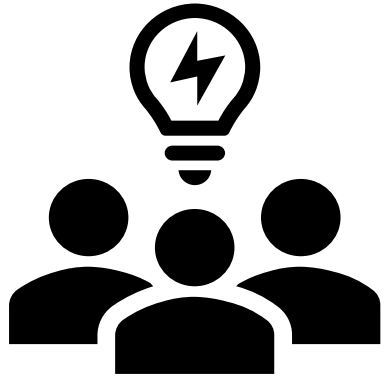
The Process of Creating a New Repository

Illyria Brejchová



Co-funded by
the European Union

Disclaimer

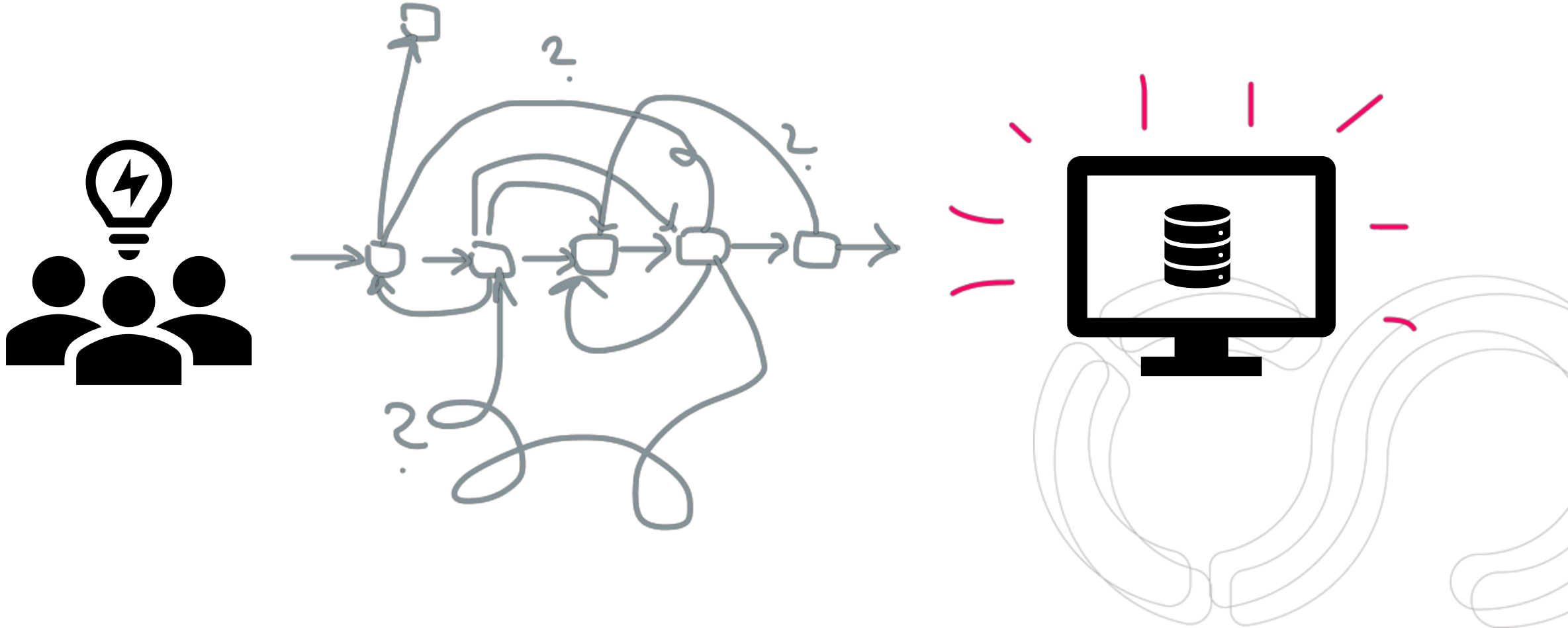


A repository in NRP
might be just what we
need



A trustworthy repository
used by the community

Reality



5 Phases



1

Preparation



2

Specification



3

Development



4

Launch



5

Operation

Repositories in the National Repository Platform (NRP)

Repositories in NRP

[Creating repositories in the NRP](#)

[Integration of an existing repository into the NRP](#)

Do you need to store and share research data for your scientific community over the long term? We provide an environment where you can build a new data repository tailored to your needs, or migrate an existing one.

We offer consultation for repository design and the technical resources required for implementation:

- storage capacity
- repository software
- infrastructure for deployment and operation

Standard components in a basic configuration are available. If your repository requires additional features or entirely new functionality, you can extend it with development provided on your side.

The result is a repository tailored to a specific research domain or data type, built on sustainable infrastructure and optional community-managed extensions. All repositories operate within the National Repository Platform, run by the CESNET association.

Who the service is for

The service is available to individuals and organisations across the research community in three modes:

1. Individuals

[https://www.eosc.cz/en/services/
data-storage/repositories-in-nrp](https://www.eosc.cz/en/services/data-storage/repositories-in-nrp)





Read the Conditions

Conditions for Creating New and Modifying Existing Domain Repositories

L. Matyska and the EOSC-CZ, CARDS, and NRP Projects
version 3.2

1 Terminology

The *National Repository Platform (NRP)* is a distributed system for creating repository instances, developed primarily within the NRP and IPs EOSC-CZ projects with the support of the IPs CARDS.

A *repository instance* (or simply *repository*, where no ambiguity arises) refers to a specific repository of a scientific group or institution. Examples of repository instances include a catch-all data repository or the "repository of fish genomic data".

A *repository software system* refers to the software package on which repository instances are built. Within the NRP, three supported core repository systems are available: CESNET Invenio, CLARIN DSpace, and ASEP/ARL. (Do not confuse the terms *repository instance* and *repository system*.) Repositories may also be built on other, alternative repository systems. Examples of alternative repository systems include Islandora (used in the pilot HUME Lab repository), or a custom system on which a repository instance is built for the specific needs

<https://www.eosc.cz/media/3991265/conditions-nrp.pdf>



Read the Recommendations



Recommendations for Creating Repositories in the NRP Environment

M. Janíček, I. Brejchová, D. Mikšík and the EOSC-CZ and NRP Projects
Collective

Version 1.0 from September 8, 2025

This document is primarily intended for representatives of user communities considering the establishment of a new repository instance in the **National Repository Platform (NRP)** environment. It will help you navigate the whole process of setting up and running a repository and not forget any crucial aspect. The aim is to provide an overview of the various activities that are integral to the repository creation process, including those that are the responsibility

https://www.eosc.cz/media/3946740/recommendations_1-0.pdf



Fill Out the Form: Purpose and Basic Features of the Proposed Repository

- Why should the repository be established?
- What is the current state of work on the repository?
- What data should be stored?
- Which scientific community is the repository intended to serve?
- How does the repository fit into the existing ecosystem?
- How should the repository look?
- What functions does the repository need to be useful to the community?



Request a Consultation

- Via form on EOSC website or email
- Creates a **ticket in a request tracker system** that will be used for communication with the repository system specialists throughout the process of building a repository
- Feel free to **ask questions** at any time
- We can also create a chat as a secondary means of communication

Contact us at nrp.repozitare@eosc.cz

[NRP #1481684] AutoReply: Nová žádost o založení repozitáře v NRP



○ Repository system specialists via RT <nrp.repozitare@eosc.cz>

To:  Illyria Brejchová

Dobrý den,
Vaši níže uvedenou zprávu jsme přijali a začali řešit. Co nejdříve Vás kontaktujeme pro případné doplnění údajů a s informací o řešení.

Tento podnět evidujeme pod identifikátorem
[NRP #1481684].

Nejsnadnější cestou k další komunikaci na dané téma je odpověď na tuto zprávu tak, aby byl zachován identifikátor v předmětu zprávy.

Děkujeme, že využíváte služeb e-infrastruktury CESNET.

Greetings,
we have received your e-mail and started solving it. We will contact you as soon as possible in case of need more data about the case and with the information about solution.

This message received the following identifier:
[NRP #1481684].

The easiest way to communicate on the given topic is to reply this message with preserved identifier in the subject.

Thank you for using CESNET e-infrastructure services.

Requestor: brejchova@ics.muni.cz

** Vyplněné údaje

**Jméno a příjmení

Illyria Brejchová

**Kontaktní email

brejchova@ics.muni.cz

**Zpráva

Měla bych zájem o konzultaci ohledně zřízení repozitáře Test v NRP.
V příloze přikládám vyplněný formulář.

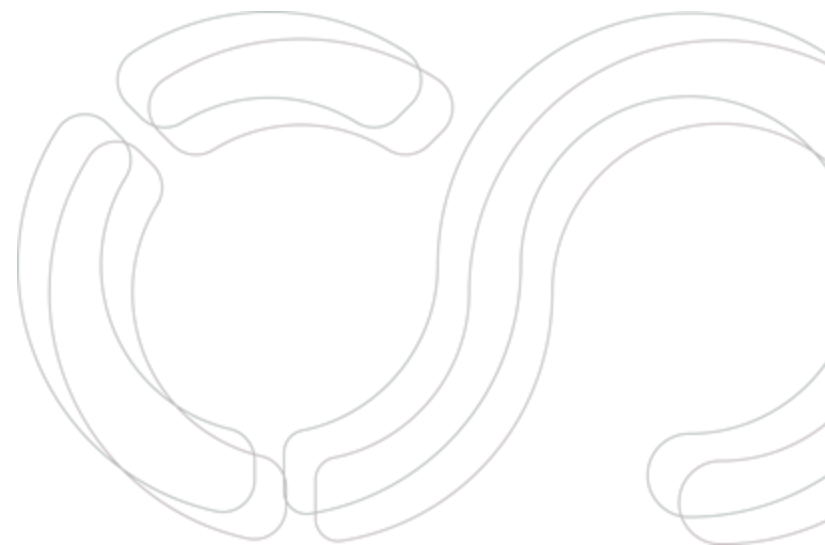
**Nahrání souboru

[uceL_repozitare.docx]



Understanding Your Requirements

- What do you need on top of the standard repository functions?
 - Domain specific preview
 - Integration with other systems
 - New metadata fields, controlled vocabularies, advanced search
 - Workflows and access management
- Be as specific as possible
- Include motivation
- Ask and validate with end users
- Prioritize





Individualised Checklist is Provided

A	B	C	D	E	F	G
id	co má komunita splnit	jak to má splnit (minimální požadavek)	předpoklady	Invenio	Podklady	Stav
1.	Příprava					
1.1	seznámit se s textem "Podmínky vytváření repozitářů"	potvrdit e-mailem, na setkání s metodikem			Podmínky pro repozitáře v NRP	DONE
1.2	seznámit se s textem "Doporučení pro zakládání repozitářů"	potvrdit e-mailem, na setkání s metodikem			Doporučení pro zakládání repozitářů v NRP	DONE
1.3	vyplnit šablonu	text/dotazník			šablona	DOING
1.4	požádat o zřízení repozitáře	email do RT nrp.repozitare@eossc.cz	zaslání odpovědi z bodu 1.3		Kontaktní	DONE
1.5	úvodní konzultace s metodiky	fyzicky/online meeting min. 90 min., nahrávané			Osnova úvodní konzultace	DONE
1.6	seznam prioritizovaných požadavků na systém	zárodek v šabloně, zde doplněno a precizováno spolu s metodiky (excel)			Specifikace požadavků	DOING
1.7	navazující konzultace s metodiky (zahrnuje příp. konzultace metodiků s provozovatelem NRP/provozovateli základních repozitářových systémů NRP)					
1.8	vybrat repozitářový systém	zápis do požadavku v RT				DONE
[milník]						
2.	Specifikace					
	stanovit metadatové profily dostupné v repozitáři	specifikace v domluveném formátu nebo odkaz na existující standard		YAML pro CESNET Invenio		



Sharing of Know How, Best Practices, Examples & Templates Where Possible

- Facilitating sharing of experiences and outputs between repositories
- Work in progress

**Example
Deposition
Licence**

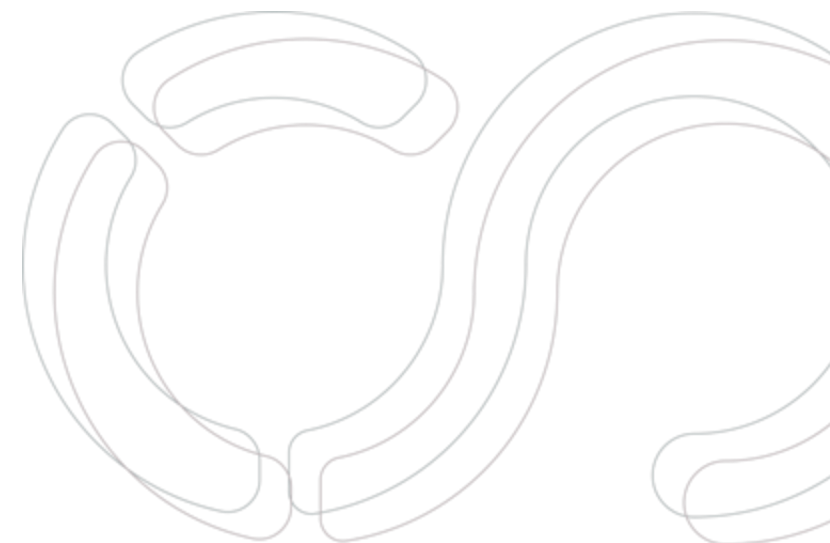
Documentation

**Figma Library of
Invenio UI
Components**

Selecting a Repository System

INVENIO

DSpace





Specification

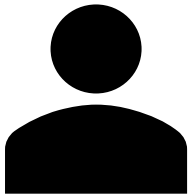
- Metadata profiles and controlled vocabularies to be used in the repository
- User roles and groups
- Use of persistent identifiers (PIDs)
- Deposition workflow
- UI requirements
 - Search
 - Custom file preview
 - Custom user flow



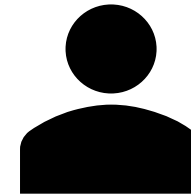
Actions

- Write the Repository Policy
- Register in the National Catalogue of Repositories (NKR)
- Share example metadata and data
- Decide on a visual identity (logo, colour scheme, name of the repository)
- Decide on an option in accordance with the Terms and Conditions
- Agree on a time frame for finishing the specification

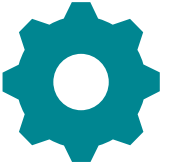
Technical Specification of the Repository and Division of Responsibility



Repository Administrator
(on behalf of and together with
their team and the user community)

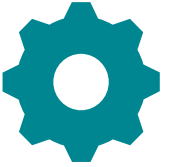


Repository System Provider
(on behalf of and together with the NRP
team, including the repository system
specialists, data storage, UX and more)



Development

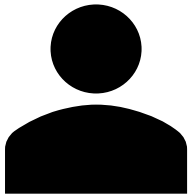
- Implement domain specific features
- Code on GitHub
- NRP-provided Environment for test deployments (Kubernetes)
- Code integration on a case-by-case basis
- Automated tests
- User testing in staging environment or stable test environment
- Bug reports, new feature requests – email RT or GitHub Issues
- Data migration



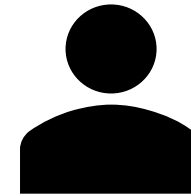
Administration

- Ask NRP to prepare the contract (for repositories backed by institutions)
- Agree on a mock-up of the UI
- Map non-CCMM and extended-CCMM profiles to CCMM for export to NMA (or other formats for other aggregators)
- List licences available in repository
- Write deposition license
- Designate a repository administrator
- Designate a data curator

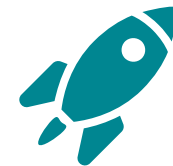
Functional Prototype



Tested and accepted by Repository
Administrator
(on behalf of and together with
their team and the user community)



Tested and accepted by Repository
System Provider
(on behalf of and together with the NRP
team, including the repository system
specialists, UX, NMA and more)



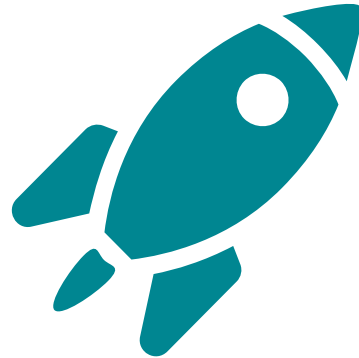
Launch

- Write about texts and finalize user documentation
- Provide user support
- Sign a contract with the NRP operator if the repository is established by an organization or by an individual acting under the auspices of an institution
- Provide complete information about the repository into the National Catalogue of Repositories
- Inform users about the repository (the EOSC PR team can help)



A Production Repository

- The repository is made fully accessible to the user community





Operation

- Bug fixes
- Security incident handling
- Monitoring new trends
- Monitoring of metrics
- Evaluation, prioritization and implementation of new feature requests
- Long-term sustainability

Questions and Comments