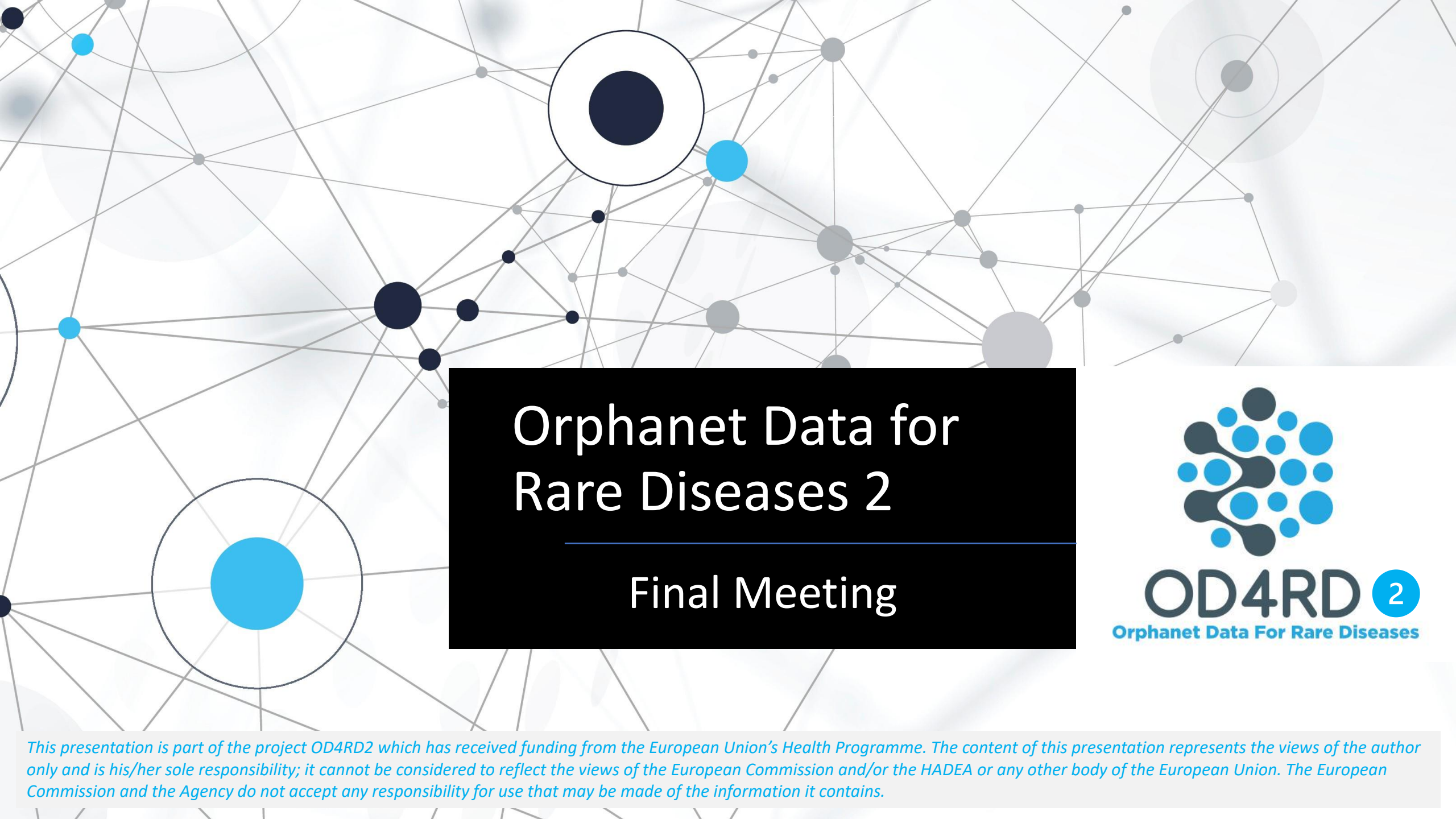




Orphanet Data for Rare Diseases 2

Final Meeting



This presentation is part of the project OD4RD2 which has received funding from the European Union's Health Programme. The content of this presentation represents the views of the author only and is his/her sole responsibility; it cannot be considered to reflect the views of the European Commission and/or the HADEA or any other body of the European Union. The European Commission and the Agency do not accept any responsibility for use that may be made of the information it contains.



Agenda

9h30-10h15: Welcome Coffee-Networking session

10h15-12h30: Session 1

- Welcome messages

DG Santé and HADEA representatives,
OD4RD2 coordinator

- OD4RD2 achievements
- RD Codification : lessons learned
- Synergies with JARDIN
- Next Direct Grant Proposal: OD4RD3

12h30-13h30 Lunch break

13h30-16h30: Session 2

13h30-14h30: **Parallel working sessions (1)** to identify gaps and needs

1. Scientific collaborations with ERNs: nomenclature and scientific information
2. ERN registries: how to transform their data in reusable knowledge

14h30-15h15: **Parallel working sessions (2)** to identify gaps and needs

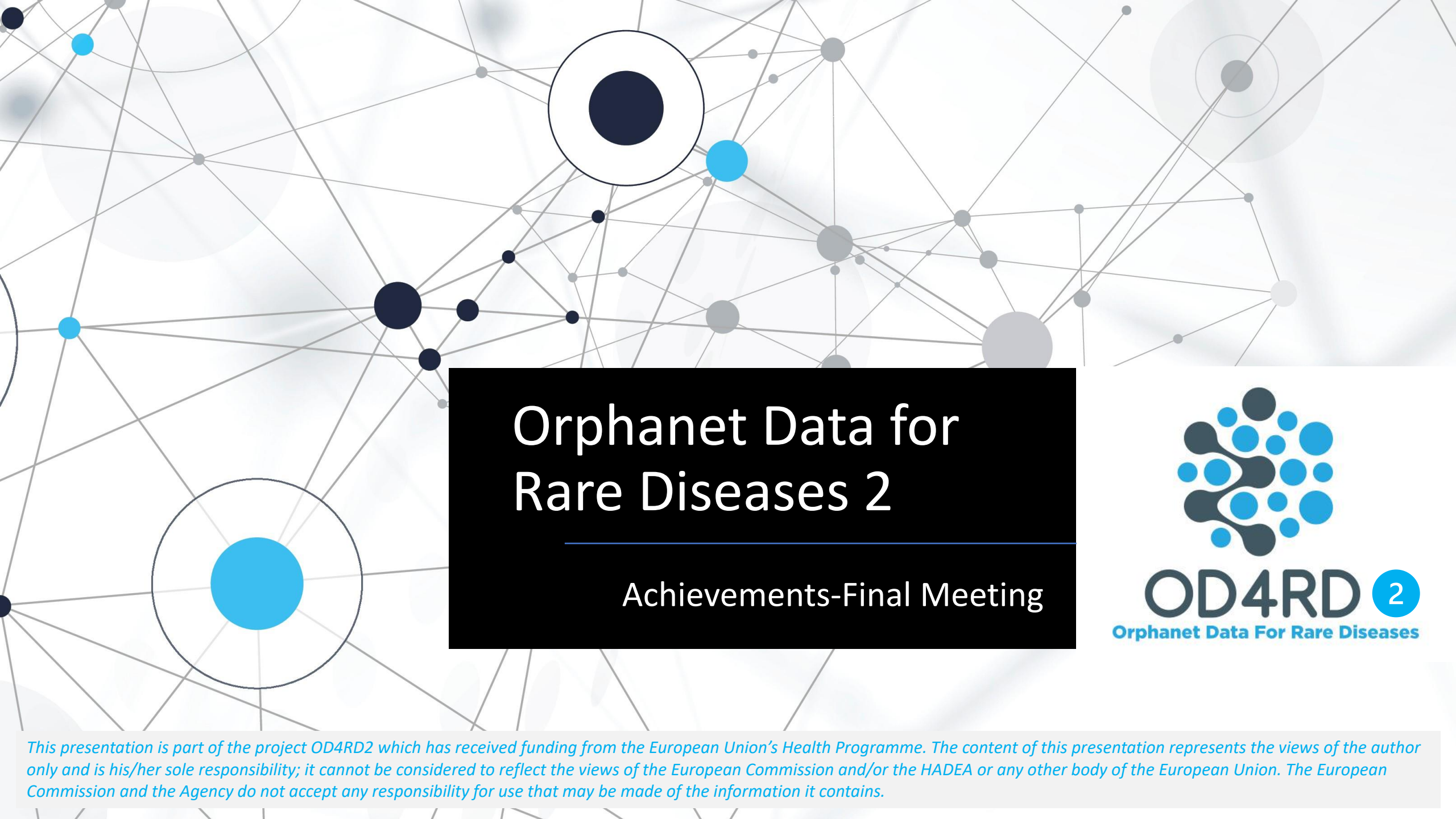
3. How Orphanet can help to disseminate ERN coding guidelines & other knowledge
4. Implementation & adoption of ORPHAcodes in MS

15h15-15h45: Coffee break

15h45-16h15 Plenary: Restitution of breakout sessions

16h15: Participant survey and Closing remarks

16h30: End of the meeting



Orphanet Data for Rare Diseases 2

Achievements-Final Meeting



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OUR OBJECTIVES



- To contribute to the generation of standardised, interoperable data on RD diagnosis for primary and secondary use, by the [maintenance and the support to the implementation of the Orphanet nomenclature of RD](#), in collaboration with the European Reference Networks (ERNs).
- To contribute to the harmonisation of data collection amongst settings (health records, registries) and amongst countries, through the [dissemination of ORPHAcoding good practices at the data source level](#).
- To contribute to [supporting evidence-based decision-making](#) in the framework of the European strategy around ERNs, by supporting the use of the reference corpus of data and information on RD



What do we
want?



OD4RD
Orphanet Data For Rare Diseases

@OD4RD



- ORPHAcodes production & maintenance ,
in collaboration with ERNs and experts
- Genetic annotations, definitions &
transcoding information
- Delivered in different formats
- Network of Orphanet National
Nomenclature Hubs: coordinated support
for ORPHAcode implementation in HIS of
19 MS Hospitals that host ERNs
- Wiki and central Helpdesk accessible to
the wider community

To fit the real-life
coders' needs

Adaptable to different
settings & systems

To facilitate and reduce
the burden of coding

Provide both
standardised & tailored
support

To allow further
analyses

Reinforce the national level to add value at the European level



Generation of standardised exploitable RD data at the national level contributing also for EU-level insights



• National hubs

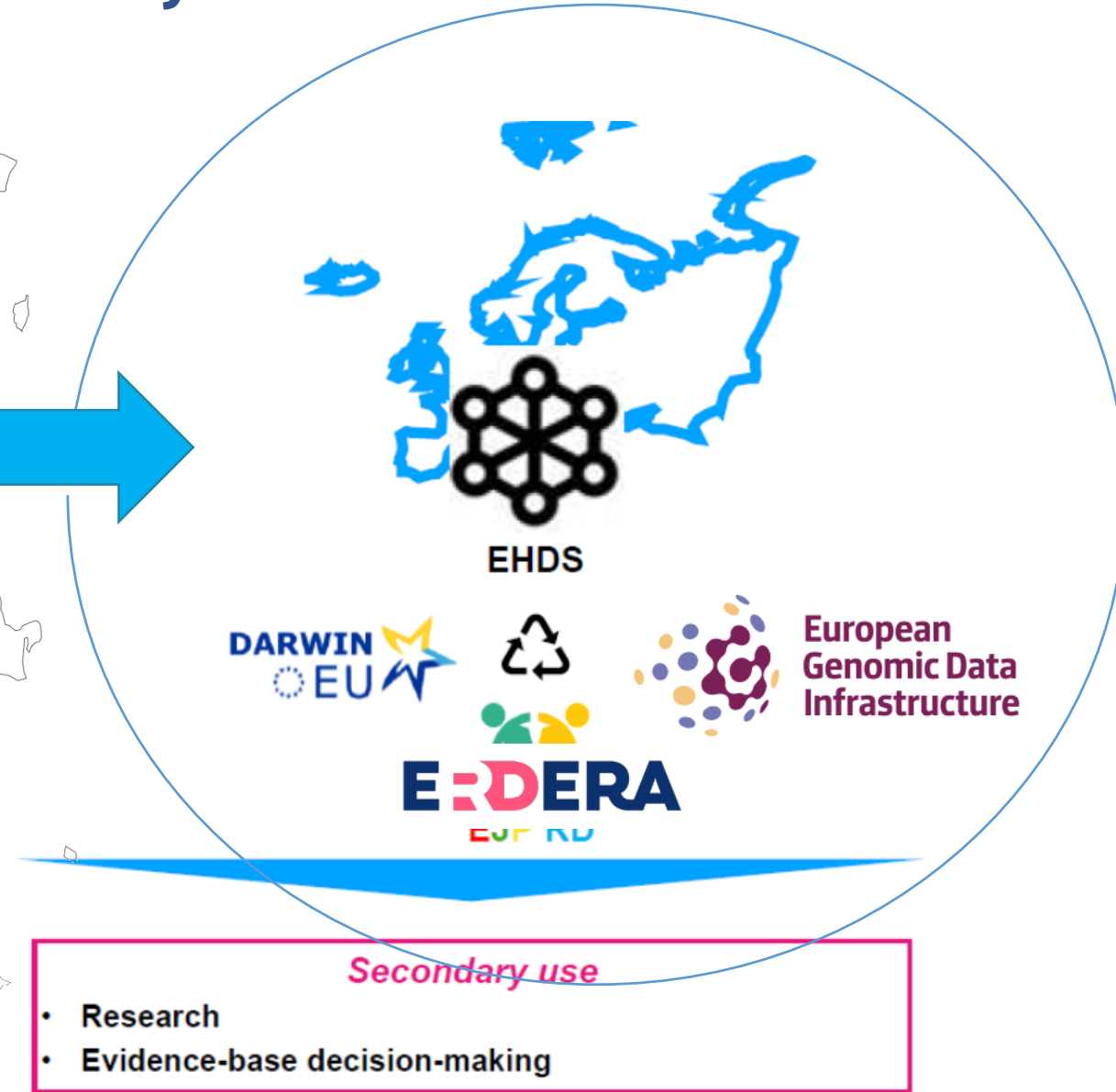
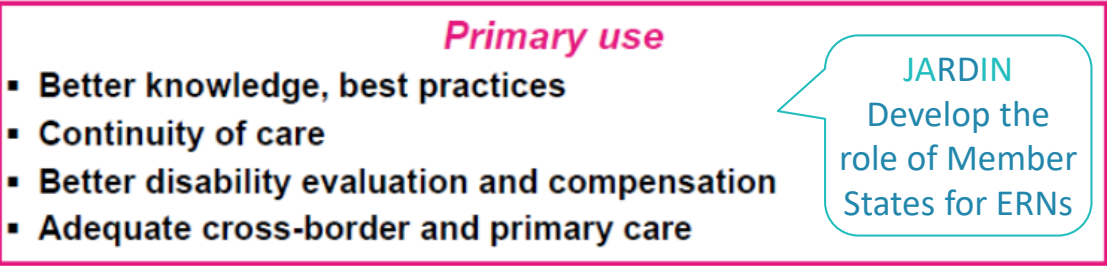
- Information & data
- ORPHAcode implementation support

National nodes

- Care and research activities
- CPGs
- ORPHAcode implementation

National nodes

- HCPs' data
- EHRs
- ORPHAcode implementation



Connecting the dots for a seamlessly RD data ecosystem... and ERN integration in MS



ERDERA European **Rare Diseases**
Research Alliance



orphanet

JARDIN



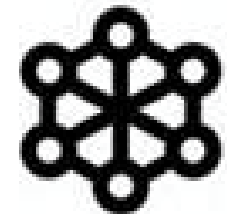

Rare2030
Foresight in Rare Disease Policy
Recommendation #7

EEHRxF

MyHealth@EU



HealthData@EU



EHDS



Accurate representation of current knowledge & meeting users' needs thanks to daily literature survey & to the experts in ERNs' feedback.

6500+ Disorders

Classification revisions
15 revisions with 10 ERNs

1628 Genes-disorders
associations

Disorders definitions &
mappings to generic
terminologies

Available in xml
& API at a single-stop
shop



Assess users' needs at national level



Organise capacity building around the Orphanet Nomenclature and tools



Support and advice implementation and use of ORPHAcodes



Coordinate partners to mutualise knowledge and build capacity across the network

NONH



**Coordinated approach to ensure mutualisation
& build capacity of the network while providing standardised and tailored support**

State of Play & survey of the ORPHAcodes usage in HCPs hosting ERNs

95 Trainings,
1800+ participants & 220
ad hoc events in national
language in 19 countries

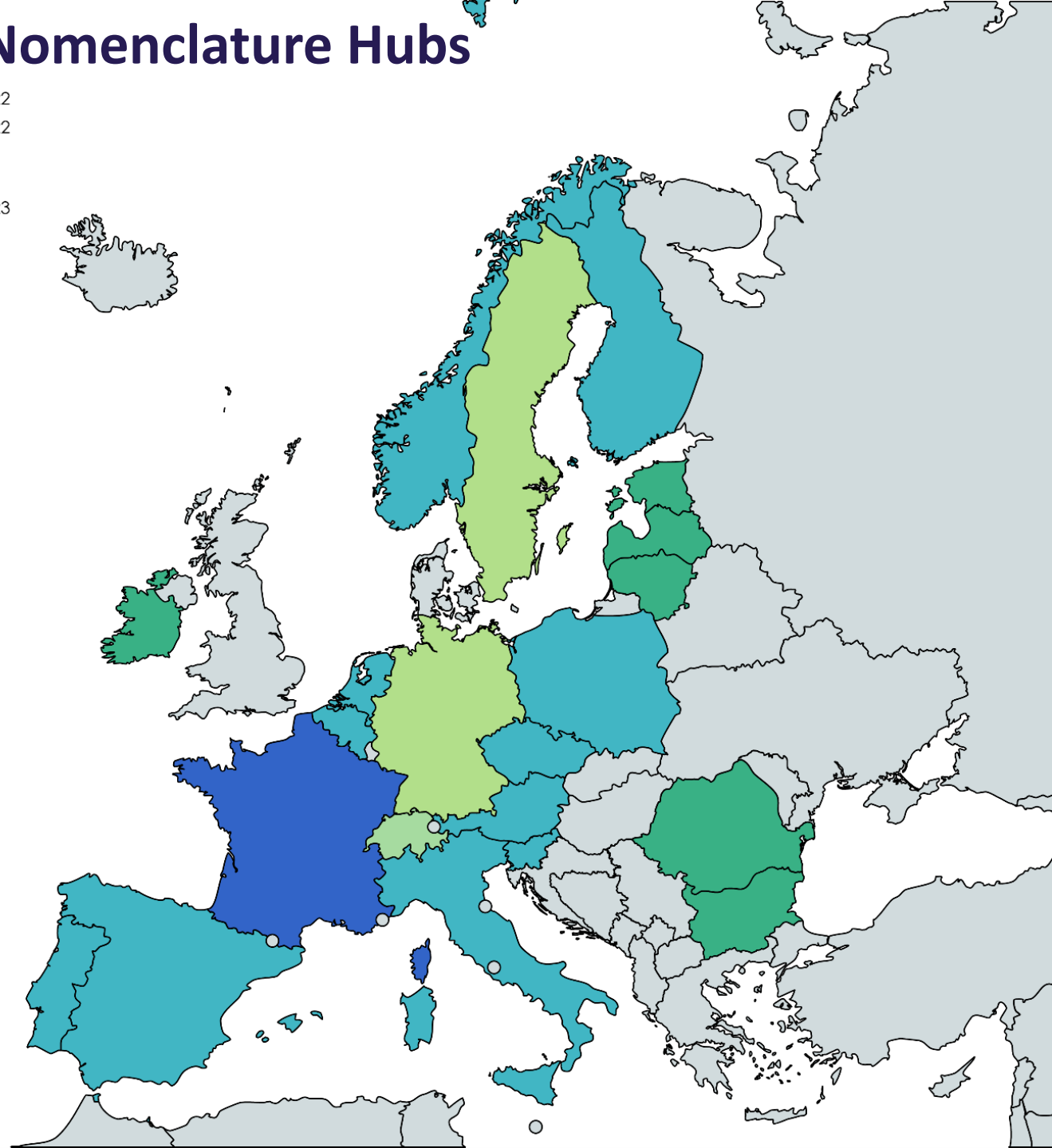
200+ demands received
via the national helpdesk
feeding the shared FAQ &
Bets practices

2 TfT & a hands-on
session + bi-monthly
meetings and open
sessions

OD4RD2 National Orphanet Nomenclature Hubs



-  National Hub since 2022
-  National Hub since 2022 (OD4RD observer)
-  Coordinator
-  National Hub since 2023
-  National Hub & WP4 Coordinator





National Hubs contacts

Austria: ursula.unterberger@meduniwien.ac.at

Belgium: Orphacodes.Belgium@sciensano.be

Bulgaria: info@raredis.org

Czech Republic: info@orphanet.cz

Finland: harvinaiset@thl.fi

Germany: orphanet@bfarm.de

Ireland: orphanet.ireland@mater.ie

Estonia: Vallo.Tillmann@ut.ee Sille.vahtra@ut.ee

Italy: orphanetitalia@opbg.net

Latvia: retasslimibas@bkus.lv

Lithuania: retosligos@santa.lt

Netherlands: orphanet@radboudumc.nl

Norway: Sjeldne-diagnoser@ous-hf.no

Portugal: info.orphanet@dgs.min-saude.pt

Poland: k.chrzanowska@ipczd.pl a.madej-pilarczyk@ipczd.pl

Romania: orphanet.romania@gmail.com

Slovenia: luca.lovrecic@kclj.si

Spain: helpdesk.orphanet@ciberer.es

Sweden: orphanetsweden.karolinska@regionstockholm.se

Switzerland: contact@orphanet.ch

Single-stop shop

<https://www.orphacodes.org>





ORPHA C O D E S



Orphanet Nomenclature of Rare Diseases

The Orphanet nomenclature is a multilingual, standardised, controlled medical terminology specific to rare diseases. It includes all clinical entities registered in the [Orphanet knowledge base](#). Each clinical entity (disorder, group of disorders, or subtype of a disorder) is associated with a unique numerical identifier named ORPHAcode, as well as a preferred term, synonyms, and a definition. The Orphanet nomenclature is organised in a classification system, structured according to major medical specialties, according to diagnostic and therapeutic relevance. This clinical coding system is mapped to the main generic clinical and genetic terminologies, thus providing a common language across healthcare and research for effective monitoring and reporting on all rare diseases diagnosis, ultimately improving their visibility.

The Orphanet Nomenclature of rare diseases is produced according to [standard procedures](#) and updated based on new literature and collaborations with expert groups, so as to reflect the evolution of knowledge.

ORPHAcodes files are available via the [CC BY 4.0 licence](#) and are released annually* in July.



ORPHA C O D E S

The Orphanet nomenclature pack compiles various files which provide the computable information necessary to achieve implementation of ORPHAcodes in health information systems, and ensure accurate coding. Differentials are provided to ensure traceability*.



NOMENCLATURE PACK
WITH GENERIC TERMINOLOGIES MAPPING FILES

The ORPHAcodes API facilitates the informatic access to the nomenclature pack data and allows flexible implementation into the various IT systems in use in the different countries and/or settings.



ORPHACODES API

* as per [recommendation of the RD-ACTION working group for routine maintenance of codification.](#)

ORPHAcodes – Guidance for ORPHAcoding implementation and exploitation

Helpdesk

Tools for coders

Standard procedures

The ORPHAcodes in the data policy ecosystem



ORPHA C O D E S

ORPHAcodes – Guidance for ORPHAcoding implementation and exploitation

Helpdesk

Tools for coders

**ORPHACODES CLASSIFICATIONS BROWSER**
a tool dedicated to browse the Orphanet classifications; it allows searching for clinical entities by ORPHAcode.

**ORPHACODES MAPPINGS BROWSER**
a tool that facilitates transcoding by allowing users to search for rare clinical entities and displaying the corresponding mappings in aligned generic medical and genetic terminologies.

**ORPHACODE DATAVIZ TOOL**
a tool that allows visualisation of scientific data and classification information associated to rare diseases in a user-friendly format.

Standard procedures

The ORPHAcodes in the data policy ecosystem

This nomenclature and classification system has been developed and maintained thanks to European support (RD-PORTAL 512305098-2006119; RD-PORTAL2 512324970-20091215; ORPHANET EUROPE JOINT ACTION 20102206; EUCERD Joint Action 2011 22 01; ORPHANET OPERATING GRANT 20133305; RD-ACTION JOINT ACTION 677024; ORPHANETWORK DIRECT GRANT g1935-c25); RD-CODE 826607; OD4RD 101070531; OD4RD2 101110100) since the recognition as a priority, in the Council Recommendation of June 8th 2009 on an action in the field of RD, of the

Helpdesk

<https://github.com/OD4RD/Main-Help-Desk>



OD4RD / Main-Help-Desk Public

< Code Issues 84 Pull requests Discussions Actions Projects Wiki Security Insights

main 2 Branches 0 Tags

Go to file

<> Code

Riddhi-Orphanet Update README.md

README.md

Update README.md

README

ORPHAcoding Main-Help-Desk by O

This helpdesk, <https://github.com/OD4RD/Main-Help-Desk>, is dedicated to Orphanet nomenclature content and/or the implementation of ORPHAcoding systems. This is the official Helpdesk for ORPHAcoding, developed and maintained by the OD4RD project.

Our helpdesk was developed as part of the OD4RD project, which aims to support the implementation of ORPHAcodes in National Health Systems (NHS) (RD) by supporting the implementation of ORPHAcodes in National Health Systems (NHS) about the project, please visit www.od4rd.eu.

Please note that it is possible to post issues in your language if an Orphanet code is in your country, as per the list and instructions below. Issues addressed to the helpdesk must be in English*.

Before posting your issue: Please check our wiki, which contains the already existing issues. <https://github.com/OD4RD/Main-Help-Desk/wiki>. Your answer may already be there.

You can also check other issues to see if you're not the only one with this problem.

< Code Issues 84 Pull requests Discussions Actions Projects Wiki Security Insights

is:issue state:open

Open 84 Closed 291

Author Labels Projects Milestones Assignees Type

- Request for advice to code "Low-grade fibromyxoid sarcoma" Belgium Coding issue Creation #386 · Orphabre opened 2 days ago
- Synonym for Solitary bone cyst (ORPHA:83468) Switzerland Synonym #385 · OrphanetSwitzerland opened 3 days ago
- New sub-type for Rothmund-Thomson syndrome (ORPHA:2909) Creation Genes #384 · OrphanetSwitzerland opened 4 days ago
- O'Donnell-Luria-Rodan syndrome Creation Spain #383 · Orphanet-ES opened 4 days ago
- Requests to add / update conditions information on Orphanet #382 · JAston1 opened 5 days ago
- Master file containing all Orphanet codes (including groups) #381 · JAston1 opened 5 days ago
- Request to add: Empty nose syndrome #380 · galyea123 opened last week
- Creation - Aquagenic cutaneous disorder Creation Spain #379 · Orphanet-ES opened last week
- Congenital midnasal stenosis Creation Switzerland #378 · OrphanetSwitzerland opened last week
- ORPHA codes affected by the change of OMIM 182920 move to 609200 Cross reference #377 · Orphanet-ES opened last week

OD4RD / Main-Help-Desk Public

Notifications Fork 0 Star

< Code Issues 84 Pull requests Discussions Actions Projects Wiki Security Insights

Home

syimaiOR edited this page on Apr 25 · 15 revisions

ORPHA

C

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D

E

S

To provide a sustainable and homogeneous, standardised support to the Rare Diseases community, a 'Questions and Answers' section within GitHub has been developed by the coordinating team based on users' questions and issues. It aimed to provide standardised and generalised answers among 8 main topics:

- ORPHAcodes and Nomenclature,
- Orphanet classification,
- Good practice guidelines on Orphanet Nomenclature
- Epidemiology in RD,
- Alignments with other terminologies,
- Orphanet Tools,
- Education and Communication,
- Orphanet - ERN collaborations
- ORPHAcodes Technical Implementation
- Guidance documents for ORPHAcoding implementation and exploitation

Pages 12

Find a page...

- Home
- Welcome to the Main Orphanet ...
- 1. ORPHAcodes & Nomenclature
- 2. Orphanet classification
- 3. Good practice guidelines on Orp...
- 4. Epidemiology in Rare Diseases
- 5. Alignements with other terminol...
- 6. Orphanet Tools for Coders
- 7. Education & Communication
- 8. Orphanet-ERN collaborations
- 9. ORPHAcodes Technical Impleme...

Training modules



PRESENTATIONS

> Why ORPHAcodes?

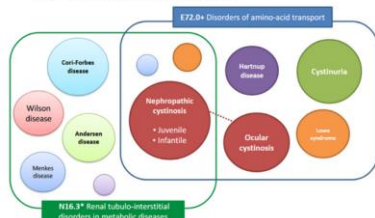


To ensure ALL RARE DISEASES are visible in Health information System

To allow RD data to be interoperable among hospitals, regions, and countries.

To answer a range of public health and research questions and make evidence-based decisions

> Diagnosis of Infantile Nephropathic Cystinosis in the ICD-10 nomenclature



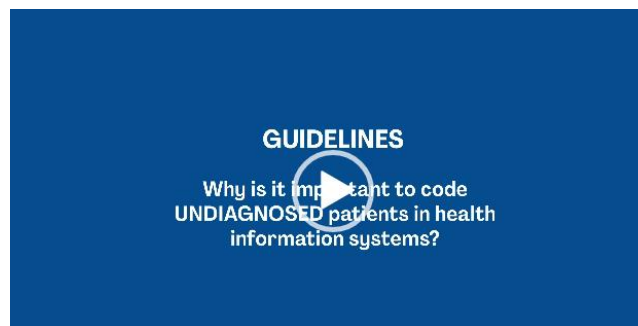
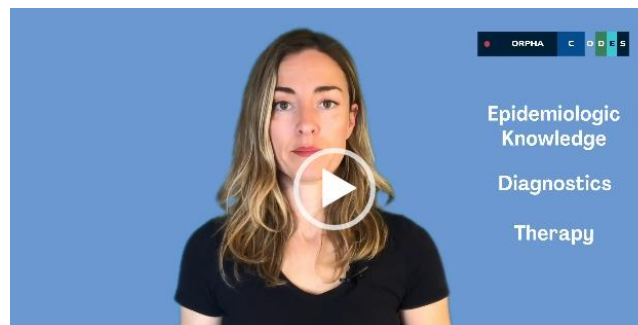
PROBLEM

DIFFICULT IDENTIFICATION

CONSEQUENCES

- DIFFICULT FOLLOW UP
- DIFFICULT HEALTHCARE PATHWAY ANALYSIS
- DIFFICULT EPIDEMIOLOGICAL ANALYSIS

VIDEOS



E-LEARNING

sjelden.no | SJELDNE DIAGNOSER | | Diagnostiser | Ressurser | Om oss | Arrangementer

ORPHAcodes for rare diseases

Nettkurs | 30 min | Sist revidert: September 2024

Faglig ansvarlig: [National Advisory Unit on Rare Disorders](#)
Målgruppe: Helse
Tema: Sjeldenhet

This course will give you an introduction to the Orphanet nomenclature of rare diseases and the advantages of using ORPHAcodes. The course is in English.



The target audience for this course is clinicians. No previous knowledge is required.

This course is developed by the [Norwegian Orphanet team](#) (National Advisory Unit on Rare Disorders, Oslo, Norway), in collaboration with the Orphanet coordinating team (Inserm, Paris, France).

The content of «ORPHAcodes for rare diseases» is based on the training module «Orphanet nomenclature and ontology for Rare Disease research» developed in the framework of the EJP-RD project (European Joint Program on Rare Diseases) which has received funding from Horizon 2020, the EU program for research and innovation, under grant agreement no. 825575.

[→ Start course](#)

[ORPHA Coding – RD-CODE](#)

[Orphanet - YouTube](#)

[ORPHAcodes for rare diseases - Sjelden](#)



OD4RD2 White paper

OD4RD2_Whitepaper



Milestone 15

OD4RD2 Whitepaper: Semantic interoperability of data on rare diseases - ORPHAcodes as part of the coding system landscape

31.03.2025

This document represents milestone 15 of the OD4RD2 project, which has received funding from the European Union. The document has been produced by the members of the OD4RD2 - Work Package 4. The OD4RD2 project has been launched in April 2023 for a 33-month period.

Orphanet Data For Rare Diseases

More information on the activities of the OD4RD can be found at www.OD4RD.eu

Disclaimer:

The findings and conclusions in this report are those of the contributors, who are responsible for the contents; the findings and conclusions do not necessarily represent the views of the European Commission or national health authorities in Europe. Therefore, no statement in this report should be construed as an official position of the European Commission or a national health authority.

1. It is recommended to capture the respective **ORPHAcode** for patients with RD at the point of care and to enable the inclusion of the ORPHAcode in the consecutive data flow.
2. In case of a **joint use of two or more coding systems**, it is recommended to link the Orphanet nomenclature of RD to the other coding system(s) as much as possible and using **standardized, curated mappings** so that at the point of coding, codes from both coding systems can be captured.
3. To avoid future misalignment of the different coding systems, it is recommended to the **developers and guardians of the different coding systems** used in the disease space to **continue and enhance collaboration** on aligning the coding systems and enabling the joint use.

https://od4rd.eu/communication-material/OD4RD2%20MS%2015%20White%20Paper_final-V02.pdf

***The project also provides evidence to support ERN coordination,
BoMS and the EC ERN strategy & decision making***



Exploitation of the
Orphanet classification
and database

Mapping ERNs' thematic and
subthematic areas to
ORPHAcodes (groups of
disorders)

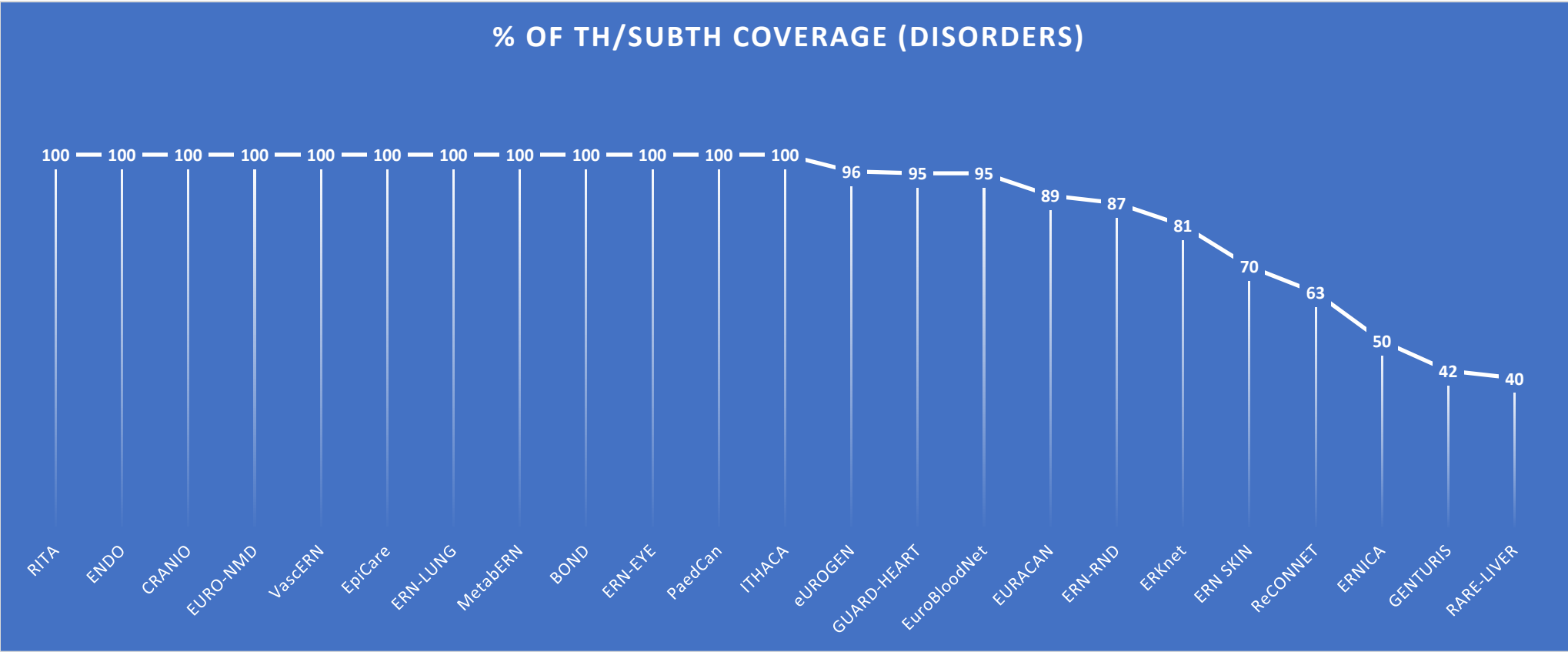
Assuming all RD in a
covered group are
covered

Several validation rounds
by 23 ERN* coordinators
and WGs

* Excluding TransplantChild



Declared coverage of thematic/subthematic areas



GAPS and overlaps



❁ After exclusion of infectious and toxic-related disorders:

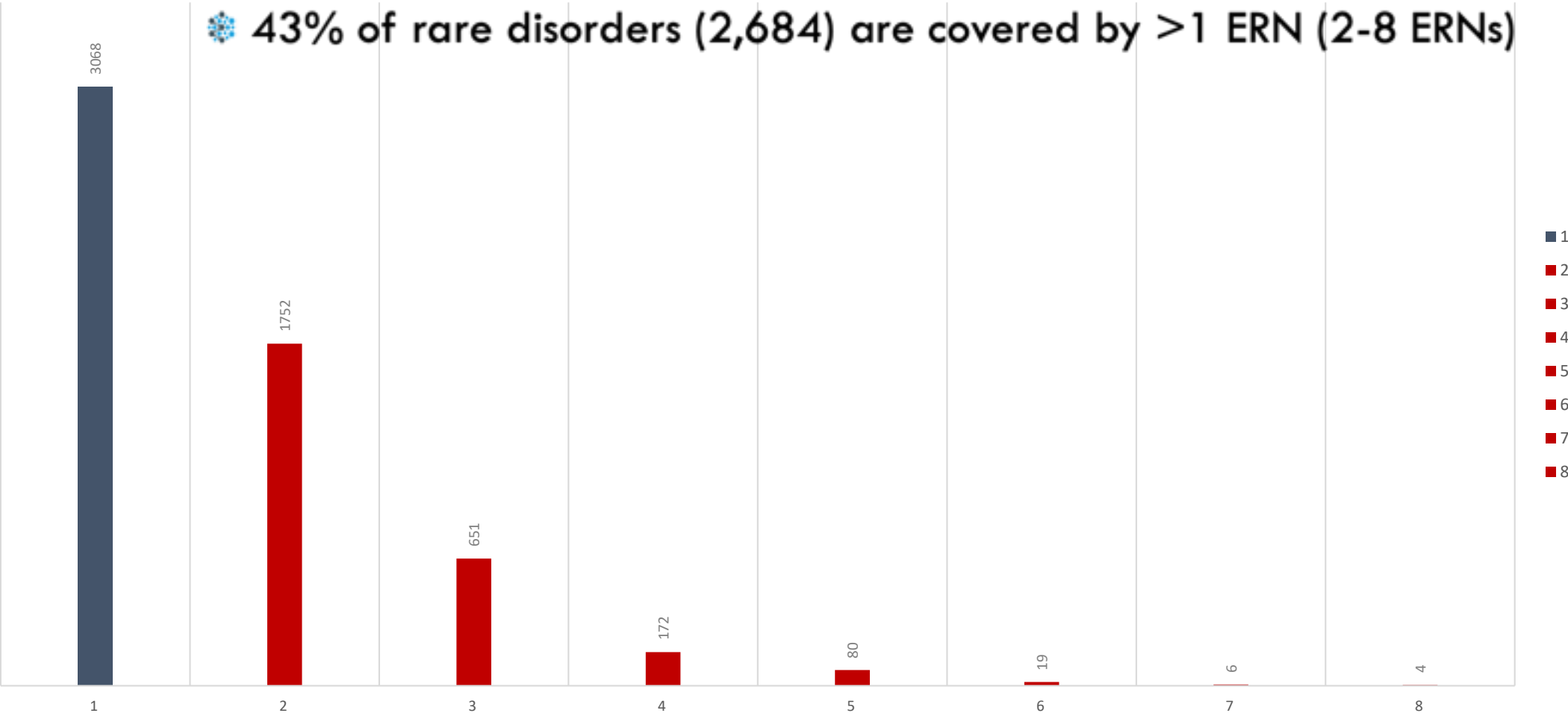
- ❁ Total gap, defined as RD not being covered by an ERN, is:
 - ❁ 7.45% (467/6,246 disorders, April 2025 version), not considering the declared demands for extension
 - ❁ 7% (442/6,246 disorders) considering the declared demands for extension
 - ❁ some ERNs asked for extensions for groups already covered by another ERN (ex. Vasculitis for ReCONNET, already covered by RITA)
- ❁ 180 RD out of 442 RD not covered (41%) have prevalence data (EU or worldwide)

= 1.5 M persons in EU

- ❁ 6 other RD have point prevalence data by country and 8 RD have birth prevalence data (giving a total extrapolation of **1,760,000 persons** in EU not covered by an ERN)
- ❁ 32 RD have other epidemiological data (annual incidence; lifetime prevalence)
- ❁ For 114 out of 442 RD not covered (26%) the prevalence is still unknown in the literature, and 102 are yet to be documented



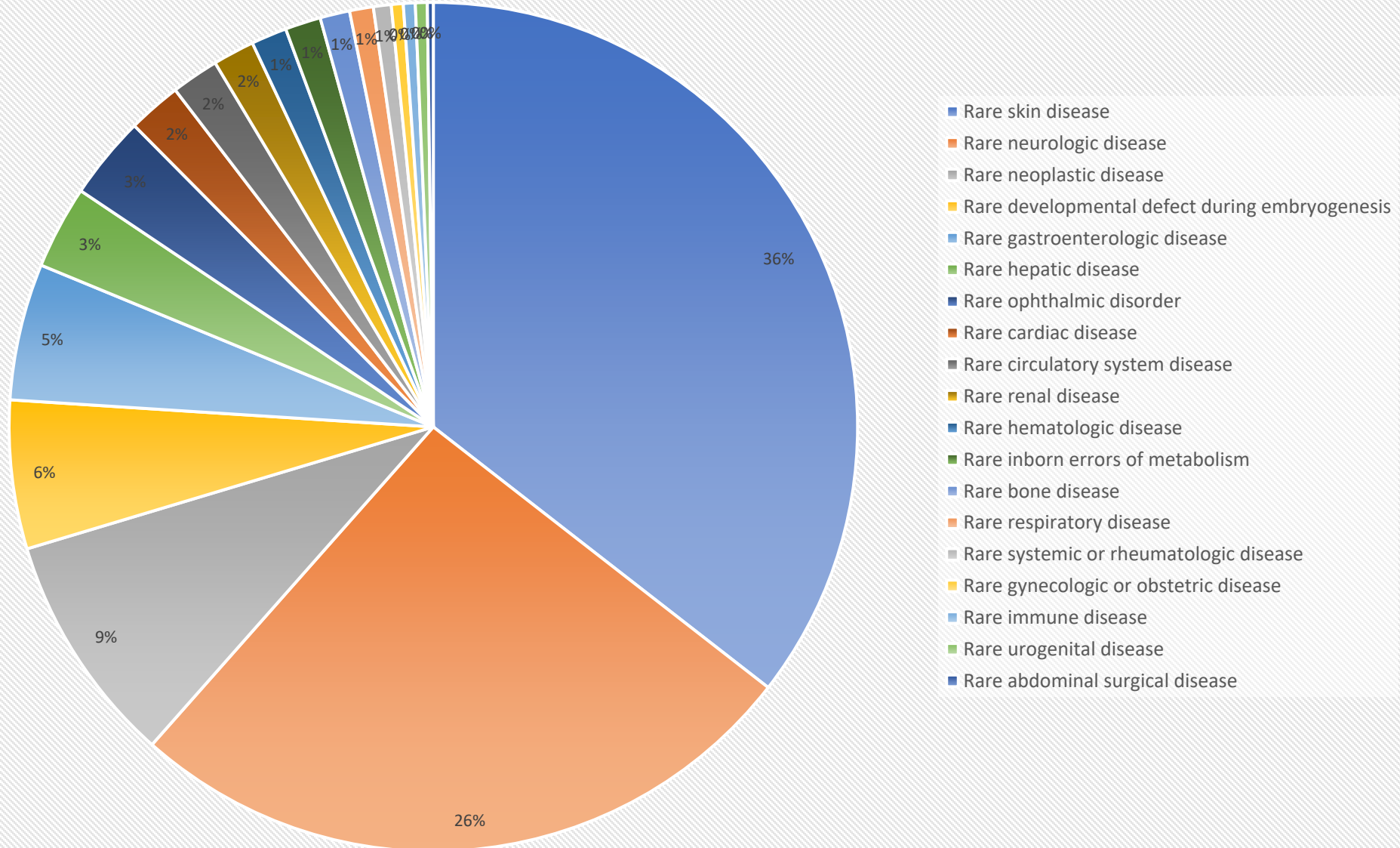
RD covered by >1 ERN



MAIN GAP AREAS



Distribution of uncovered RD by medical domain



OD4RD2 outputs and impacts



❁ **Increase the visibility of RD** in Health Information Systems

- By achieving real implementation in hospitals

❁ **Increase the quality of data** generated about RD patients

- By disseminating good coding practices

❁ **Empower ERNs, hospitals and the EC's understanding on RD-related activities**

- By providing means to generate accurate data for exploitation and analysis

❁ **Contribute to ERN integration** at the national level

- By collaborating with National Hospitals and JARDIN

❁ **Contribute to the EU health data strategy**

- By connecting the dots with structuring initiatives around EHR formats and health data spaces (EHDS)
 - For primary use: better diagnosis and care of RD patients, assessment of current practices and results against gold standards of care
 - For secondary use: informing policy decision-making and research



~~Connections~~ reasons of success

- ❁ A nomenclature that fits coding needs
- ❁ A nomenclature that allows for transcoding in HIS
- ❁ Well-trained National hubs, in capacity to support local implementation
- ❁ Very good connections at
 - ❁ Decisional level: MoH – Hospital managers
 - ❁ ERN coordination facilitating local level contacts and interactions
- ❁ Awareness and support from ERNs governing bodies
 - ❁ ERN Coordination
 - ❁ Board of Member States
 - ❁ European Commission



THANK YOU FOR YOUR
ATTENTION!

OD4RD²

Orphanet Data For Rare Diseases





Objective WP4

- Provide coordinated support for ORPHAcodes implementation in Health Information Systems of Hospitals hosting ERNs in the participating countries and to harmonise ORPHAcoding practices across countries.

Drafting of a White Paper adapted to the national context

Producing education module for health professionals

Production of Alpha-ID-SE file

Participation in TV show and radio

Translation of Orphacodes made available to ERN units and national Reference Centres

Surveys in ERN HCPs regarding the use of ORPHA codes

Adaption and streamlining existing ORPHAcoding material

Making ORPHAcodes visible in the EHR

Activities

- Trainings
- Networking
- Communication
- Help desk



OD4RD ORPHANET National Hubs

LL data collection topics

State of Play – Impact

Activites – Effort and Impact

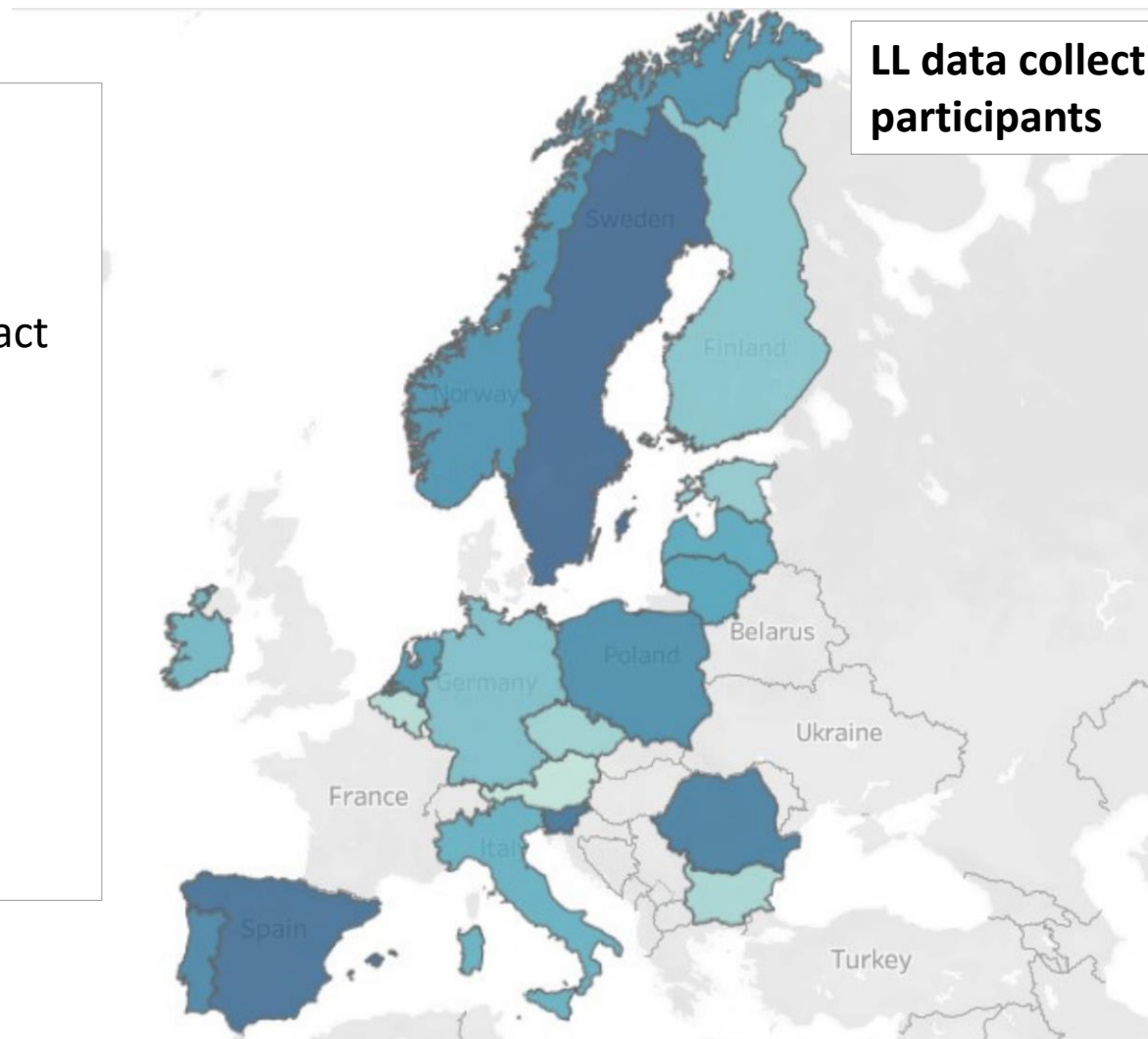
Trainings

Communication

Networking

Action plans

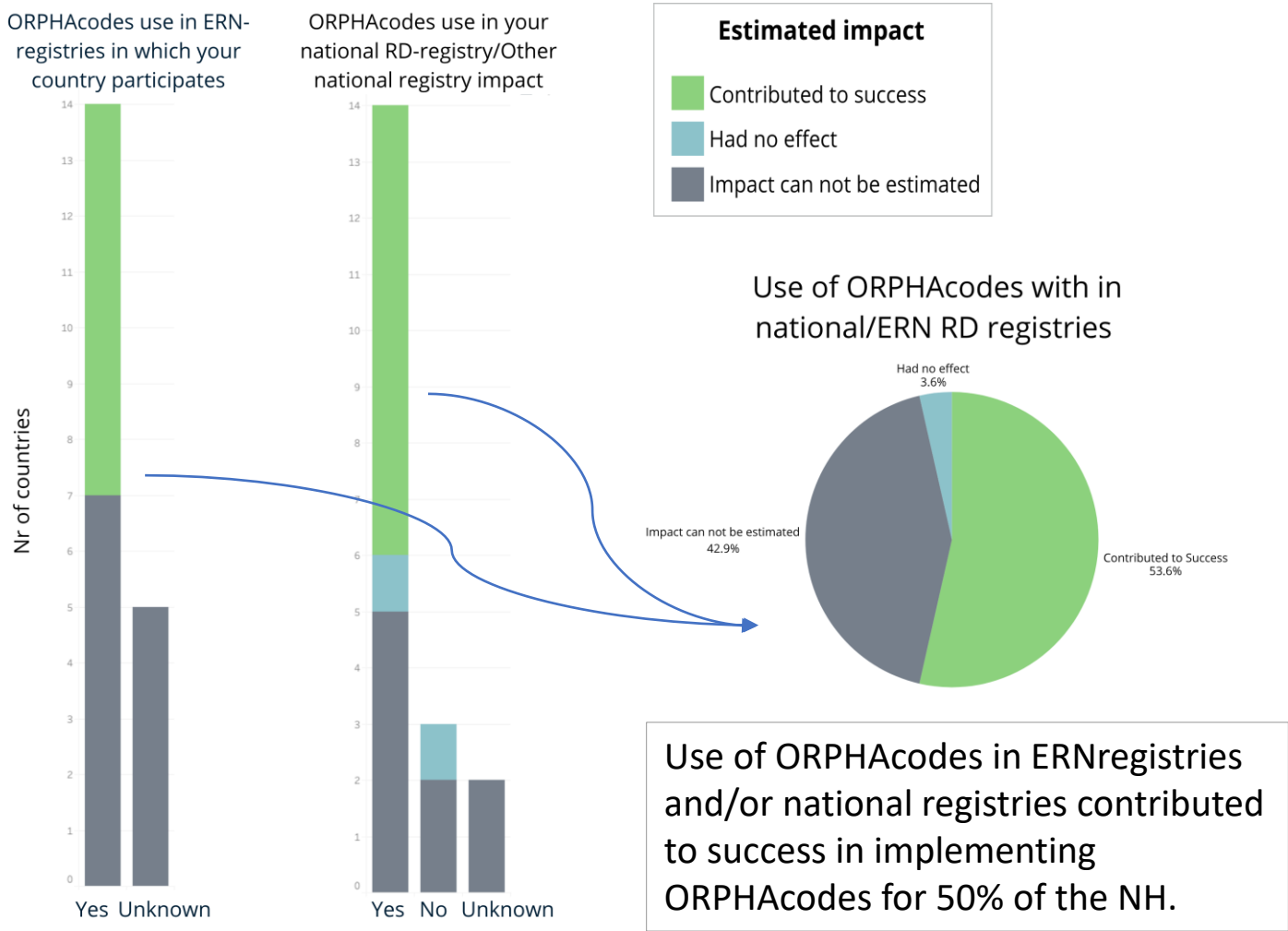
LL data collection participants



- Austria
- Belgium
- Bulgaria
- Czech Republic
- Estonia
- Finland
- Germany
- Ireland
- Italy
- Latvia
- Lithuania
- Netherlands
- Norway
- Poland
- Portugal
- Romania
- Slovenia
- Spain
- Sweden



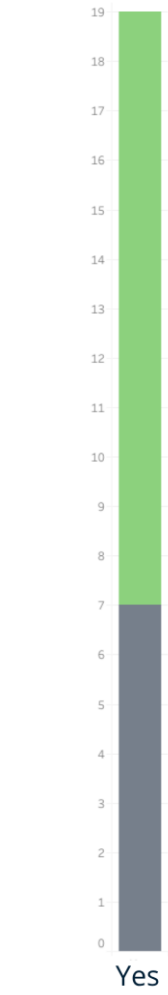
State of Play Success factors



The country is also represened in other EU-projects



ORPHAcodes are used by ERN:s with members in the country

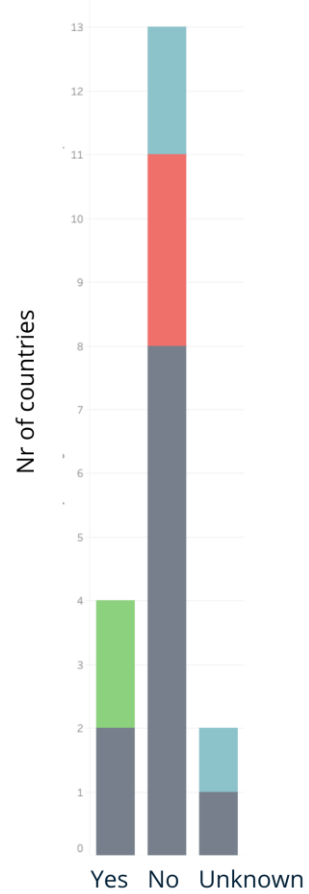


A majority of the NH experienced **engagement in other EU-projects** and **ERN use of ORPHAcodes** as having a positive effect on the implementation process.

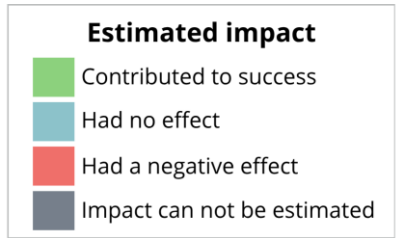


State of Play Success factors

ORPHAcodes use incentivized by affecting reimbursement calculation for healthcare services

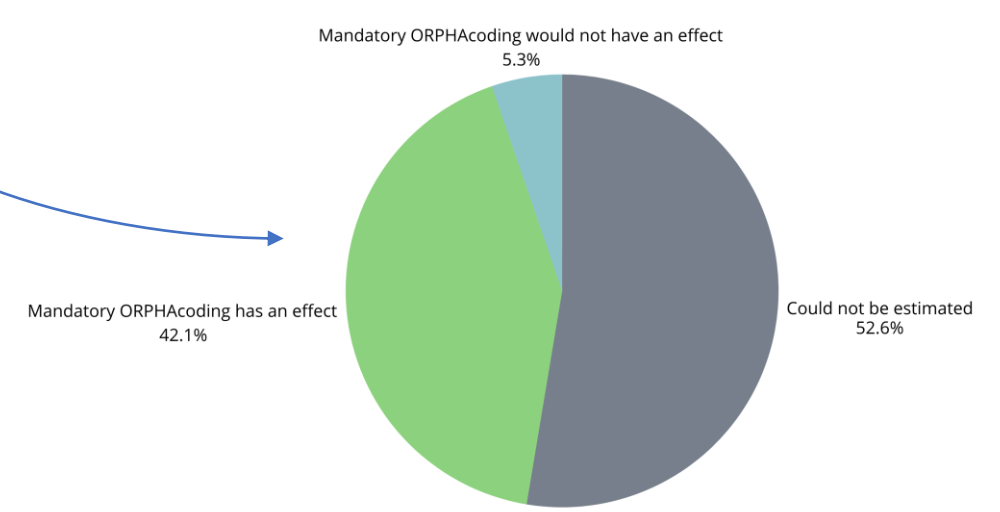


Using ORPHAcodes is mandatory when coding a patient with a rare disease



Incentivizing ORPHAcoding by linking it to reimbursement for health services is estimated to have an effect on implementation of ORPHAcodes by 25.3% of the NH

Estimated effect of mandating ORPHAcodes use for patients with RD



Mandating ORPHAcoding is estimated by 42% of the NH to have an effect on ORPHAcodes implementation



State of play - summary

- ❖ Engagement in European projects, use of ORPHAcodes by ERN:s and in registries have a positive impact on ORPHAcode implementation.
- ❖ If incentivizing ORPHAcode use by reimbursement has a positive effect on ORPHAcode implementation can not be determined.
- ❖ The experiences of the National hubs do not allow for firmly establishing that mandating ORPHAcode use for RD-patients has a positive impact on ORPHAcode implementation.



Activities- effort and impact



Results indicate a maintained balance between effort required and impact achieved for performed OD4RD2 activities

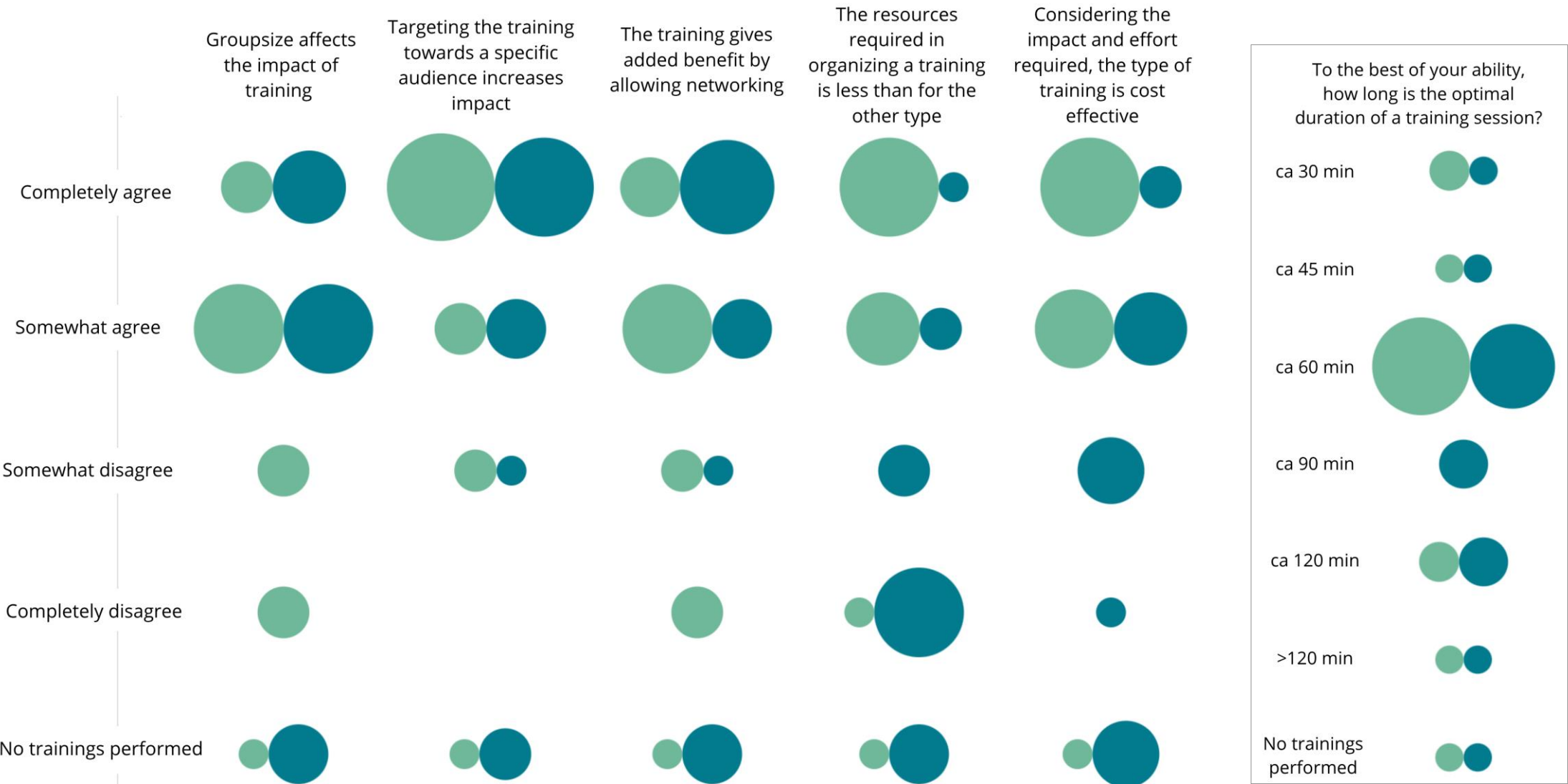
TRAINING method evaluation



Type of training

on-line

in-person



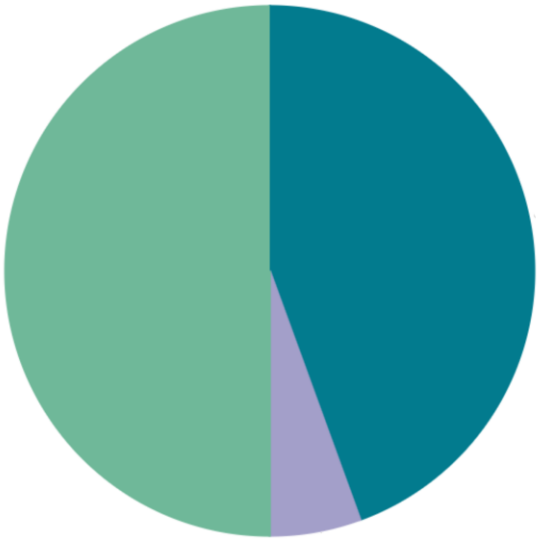


Training methods

Most successful training method

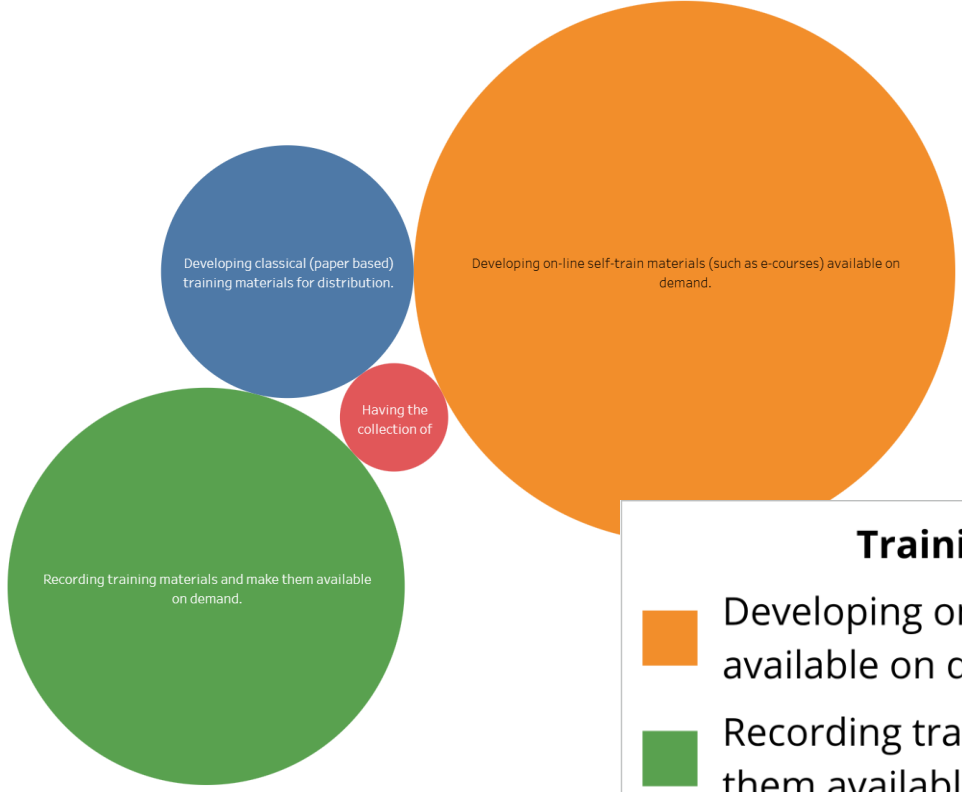
- Classical in-person training
- On-line webinars
- E-courses

Most successful training method



The time required to attend trainings is identified as an obstacle to professionals participating in trainings by 17 of the NH.

Which additional training materials would help circumvent the obstacle of required time?



Training material

- Developing on-line self-train materials available on demand.
- Recording training materials and make them available on demand.
- Classical (paper based) training materials for distribution.
- The compiled collection of good practices



Activities & Trainings - Summary

- ❖ The national hubs' assessment of effort and impact for OD4RD2 activities indicates a **well-balanced relationship between input and outcome**.
- ❖ Targeting trainings towards the intended recipients is a key success factor for all types of trainings.
- ❖ On-line trainings are considered cost-effective by a majority of the National Hubs and require less effort than in-person events.
- ❖ Groupe size affects the effectiveness of on-line trainings, but to a lesser extent than for in-person events.
- ❖ On-line trainings provide an opportunity to network, but less so than in-person events.
- ❖ The optimal duration of an in-person training is 60 or more, while being 60 minutes or less for on-line trainings.
- ❖ The time required for attending trainings is an obstacle to participation, this can in part be mitigated by developing training materials available on demand such as on-line self training and/or recordings



Networking

All networking methods have been successfully employed to connect with the target population by more than 50% of the countries.

most successfull

Least successfull

Type of networking

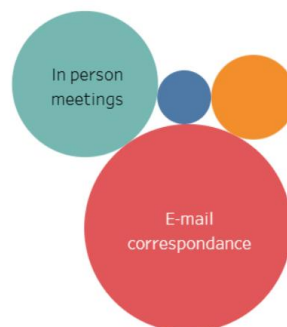
-  In-person meetings
-  E-mail correspondance
-  Attending events arranged by a different organization
-  Conference/direct calls

Health care
proffessionals



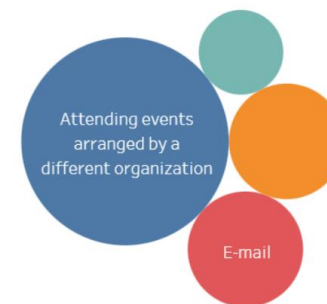
Target with most success

Health care
decision makers

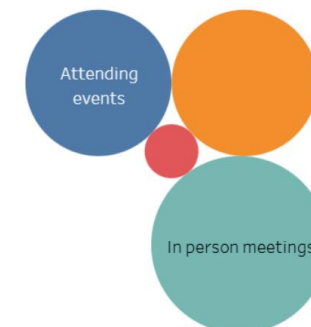


Target with least success

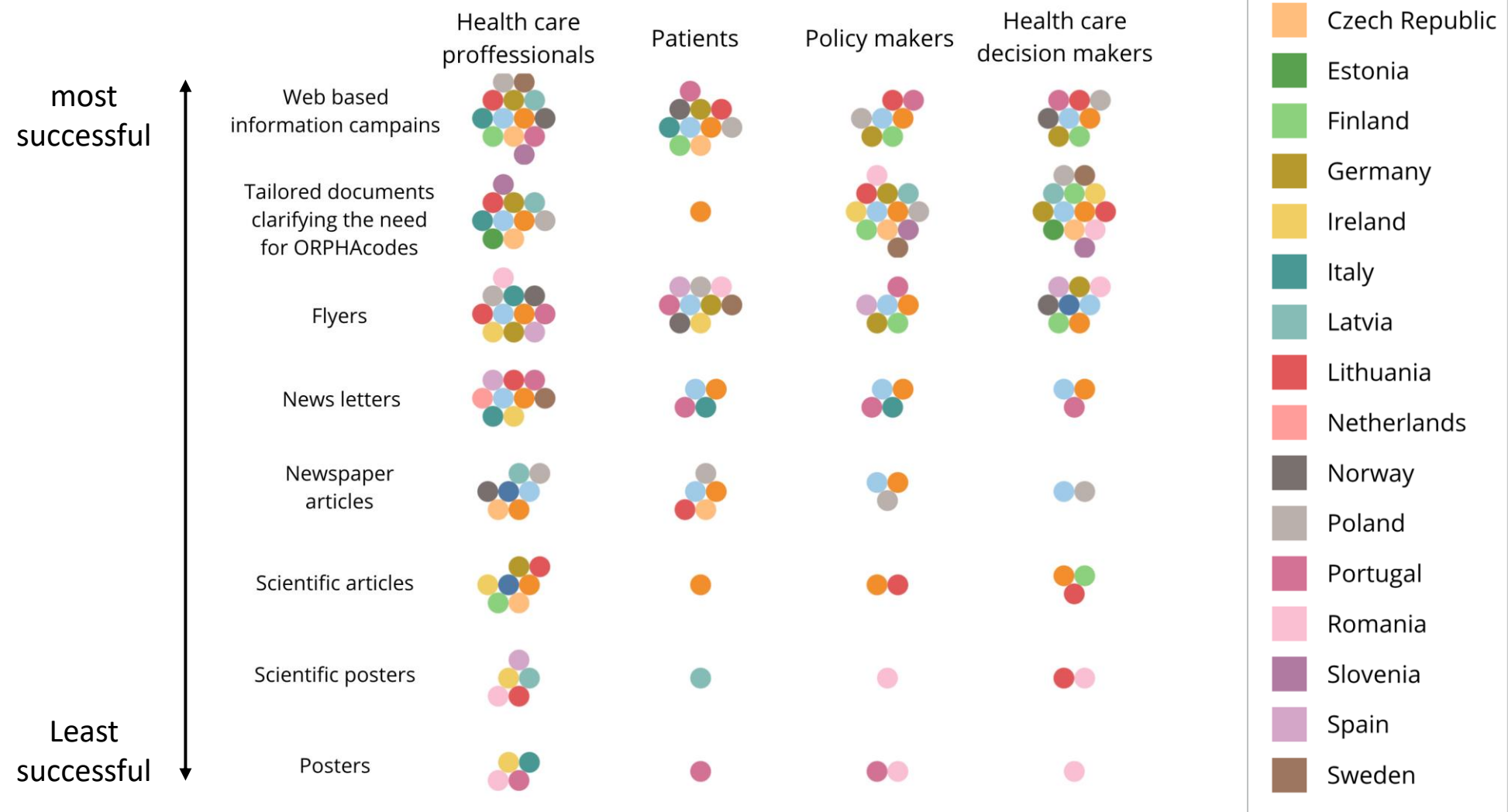
Patient
organizations



Policy makers



Communication materials





Additional successful communications

The most important method of communication to HCPs are direct in-person interactions, trainings, RD and ORPHA coding presentations included to specialization courses, dedicated scientific meetings / to patients - direct in-person interactions, presentation during PAG meetings / to policy makers and health care decision makers - dedicated presentations on RD and ORPHA coding / for all audience - RD Information Platform on governmental website

Participation in TV show and radio

Public hearings, social media posts

Drafting of a White Paper adapted to the Belgian context and sent to all decision-makers (Ministry, Terminology Centre, FPS Public Health, RIZIV-INAMI). In response, we have been invited to several meetings to address this topic. But unfortunately, it is still SNOMED CT that is promoted by the Belgian authorities as the terminology for primary coding in all electronic files

Rare Disease education module for health professionals published in Mar 2025 - included subsection on Orphanet and Orphacodes. Presentation on importance of orphacodes to MoH during development of new rare disease strategy (published Aug 2025)

meetings with groups of clinicians in HCP belonging to ERNs; involve patients in communication campaigns

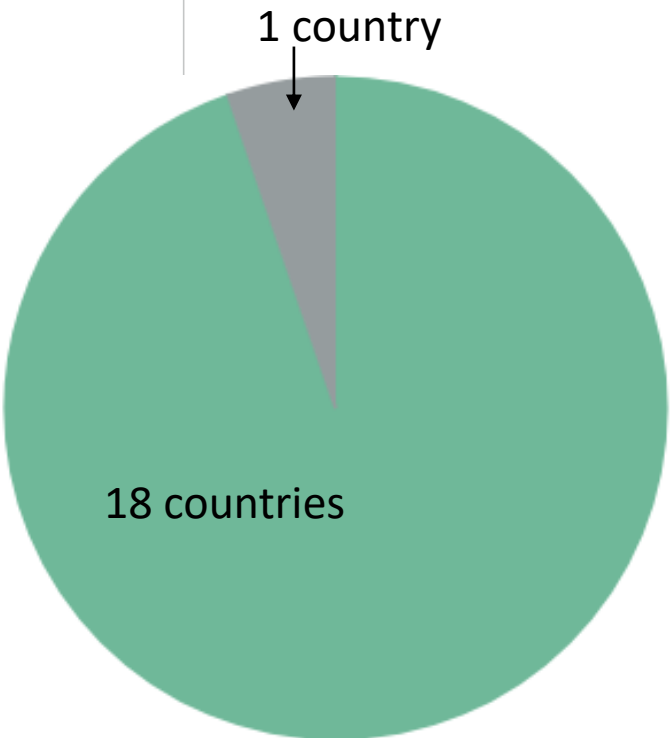
National conference for rare diseases, National RD expert centers annual meetings



Action plans

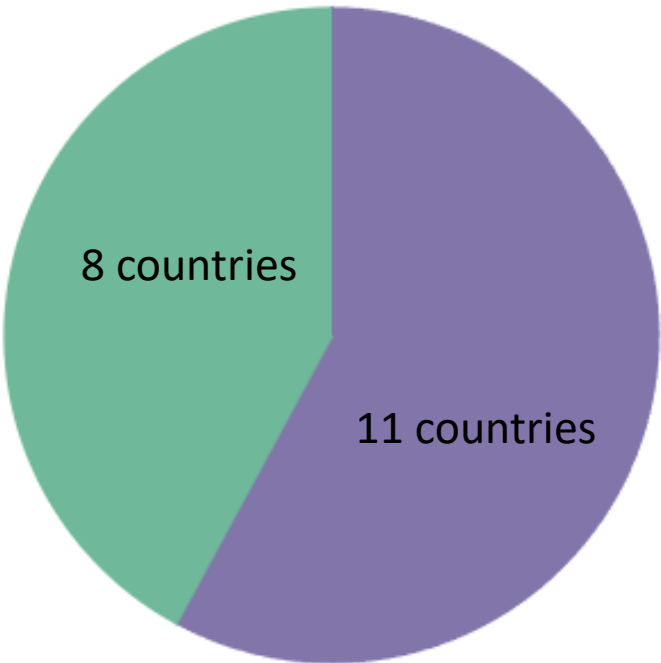
Compiling a national action plan was a fruitful method for planning, tracking and structuring our national activities.

- Agree
- we had/have to follow the timing of the Orphacode implementation in AT



In your Actionplans produced during the project, did you include any successful actions which has not been covered by the previous sections of this form (networking, training, information materials?)

- Yes
- No





Additional successful activities

Bulgaria

Applied best practices from other countries, questionnaire development for RD expert centers, online trainings, scientific publications

Portugal

To provide an up to date translation of Orphacodes available to the ERN units and national Reference Centres

The Netherlands

Getting ORPHAcodes made mandatory in the to apply for designation as an expert centre for rare diseases. Local EHR service teams have added specific fields for ORPHAcodes to the HER (as such field isn't provided by the EHR provider)

Belgium

Accreditation of the OD4RD2 training sessions: the training given to Belgian doctors as part of the OD4RD2 project is accredited since 2025

Poland

ERN HCPs surveys on use of ORPHAcodes gave opportunity to identify these centres, which are currently only ones in Poland to have been nominated by the Ministry of Health for ECRD). Establishing cooperation helped promote idea of ORPHAcoding, provide trainings and lobby for development of Common strategy for RD patients

Finland

Collaboration with national registries (malformation registry, abortion registry, Kanta registry, national care registry for healthcare)

Germany

Production of Alpha-ID-SE file , use mandatory for RD cases in inpatient sector

Norway

Development of ORPHAcoding module in EHR system, and its implementation in two of four health regions. E-learning course



Networking, communication & action plan - Summary

- ❖ All modes of networking (e-mail, meetings, attending events, direct calls) have been successfully employed by at least 50% of national hubs for each intended target (professionals, decision makers, policy makers, patient organizations)
- ❖ Non scientific communications materials were successfully employed by all national hubs with web-based information campaigns being the most reported successful measure.
- ❖ Targeted communications clarifying the need for ORPHAcodes were the most successful communication used for reaching policy makers and healthcare decision makers.
- ❖ A wide array of different communication activities have been successfully employed during the project!
- ❖ **Using an Action plan to organize national activities was a great success!**

How would you improve?



Key areas for success moving forward

- ❖ Closer collaboration with ERN:s
- ❖ Even stronger targeting of the HCP decision makers/policy makers
- ❖ Sustained emphasis on training
 - E-courses, videos, TfT
- ❖ Continued focus on implementation in HIS/EHR

Spain

a higher interaction with ERNs representatives at national level would be desirable but, to be more effective, it should be encouraged by the ERN coordinators following a top-down approach.

Norway

Reimbursements for orphacoding.

Poland

Promoting Orphanet-ERN collaboration

Romania

prioritizing the involvement of decision-makers

Italy

Communication campaigns regarding the importance of the Orpha Codes implementation in HCPs

The Netherlands

We would expand the national team and dedicate more time to creating e-learnings

Austria

There can never be enough training and communication

Finland

Stronger participation of hospital and electronic patient record experts in the project at all levels

Italy

initiatives to strengthen the relationships with ERN representatives /members

Spain

Perhaps the only change I would make it would be to prioritize the activities targeting decision makers.

Norway

higher priority for activities targeting health authorities in order to make orphacoding mandatory.

Poland

Training for trainers at an earlier stage.

Poland

Strengthening training activities

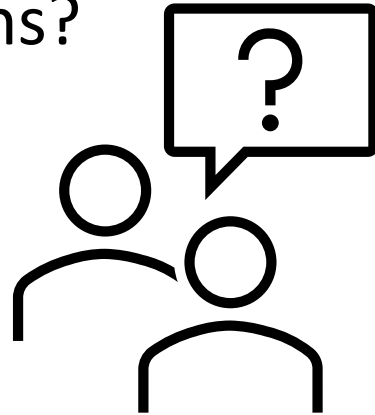
Bulgaria

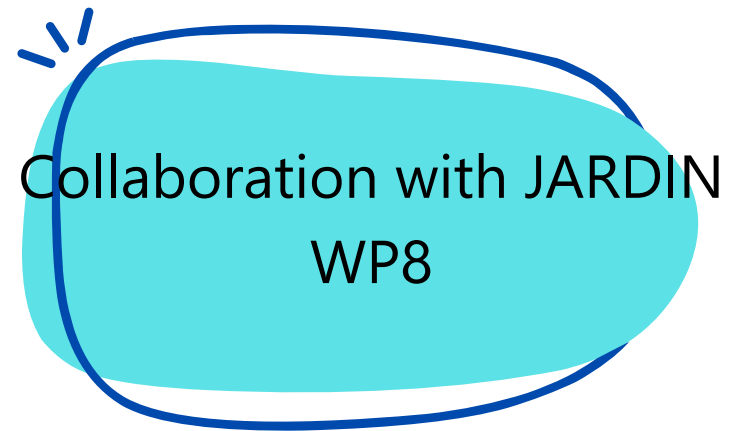
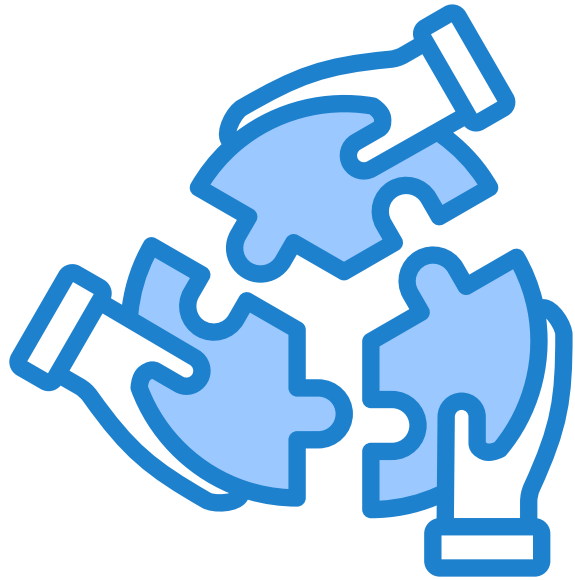
adapting / developing educational videos and tools for medical students



Thank you!

Questions?







JARDIN



Joint Action on Integration of ERNs into National Healthcare Systems

Introduction to Work Package 8 and Future Cross-Project Collaborative Strategies



Co-funded by
the European Union

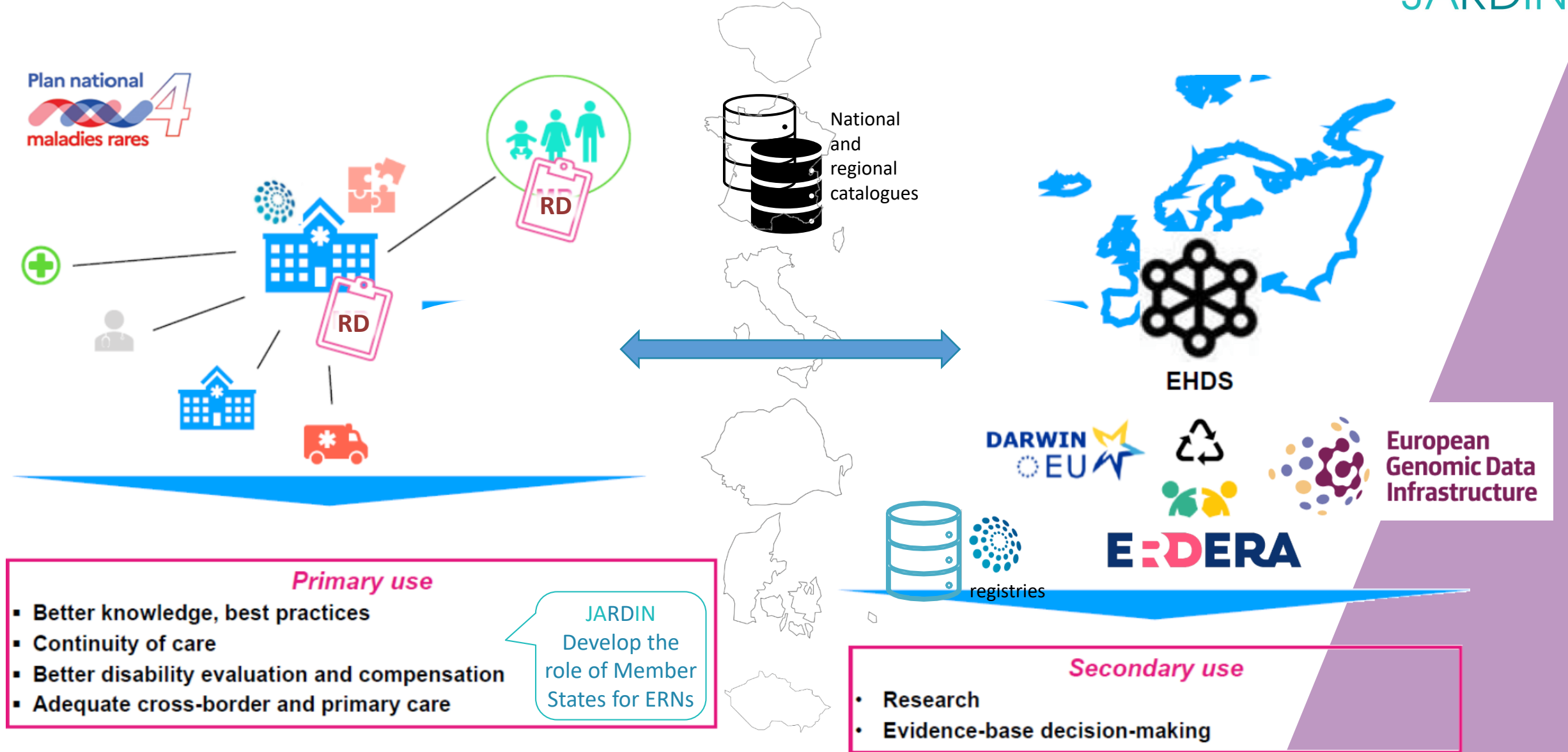
“Co-funded by the European Union. Views and opinions expressed are however those of the author(s) only and do not necessarily reflect those of the European Union or European Health and Digital Executive Agency. Neither the European Union nor the granting authority can be held responsible for them.”

The Role of Data in RD Care

- Data has both primary and secondary uses in patient care
 - Secondary uses include policymaking and research
- RD data and expertise is complex, heterogenous, and scarce
 - Therefore insufficient to achieve these objectives
- Strategies such as data cumulation, collaboration, and sharing across HCPs, registries, and countries are thus indispensable
- To achieve this, data must be FAIR to improve semantic accuracy and interoperability
 - Will necessitate improvements in technical, legal, organisational, and political frameworks



RD in the Data Ecosystem: What is at Stake?



Improve engagement
of MS&Norway

JARDIN
Develop the
role of Member
States for ERNs
**Finance CPMS
& activity**



orphanet

WP9 :
Provide guidance
for a better ERN
– HCP support at
all levels

**National
support to
HCP in ERN,
for hospital
support and
CPMS services**

JARDIN
Develop the
role of Member
States for ERNs



**ORPHAcode
616874
UDP
Registry
CDE UDP**

WP7: Improve
NRN and UDP
integration with
ERN
orphanet

WP4 : Ensure
sustainability in
every aspect of
JA actions
orphanet



**National
Plans
/
Strategies**



WP5 : Improve
care pathways
governance and
quality
orphanet

JARDIN
Develop the
role of Member
States for ERNs
**Launch
national plan**

**Data collection
Record-linkage
Quality cheks
National Data
Hub
Infrastructure**

JARDIN
Develop the
role of Member
States for ERNs
Infrastructure

WP8
Plan national
maladies rares
orphanet

WP6 : Improve
national care
pathways
integration with
ERN
orphanet



**National
care
pathways &
emergency
UKRAINE**

JARDIN
Develop the
role of Member
States for ERNs
**PNDS /
National Hub :
23 filières de
santé maladies
rares**

A short introduction to JARDIN and the ERNs



- The EU has long recognised that the scattered distribution of RD patients renders the acquisition of knowledge and expertise difficult
- The 24 European Reference Networks were established in 2017
 - Designed to:
 - Improve patient access to high quality care
 - Promote research
 - Advance clinical training and therapies
 - Inform healthcare policy



JARDIN Joint Action



- Joint Action of the Integration of ERNs into National Healthcare Systems
- Running in parallel to other synergistic initiatives
 - European Rare Disease Research Alliance (ERDERA): RD research
 - European Rare Disease Research Coordination and Support Action (ERICA): ERNs research
 - Orphanet Data for Rare Disease Projects (OD4RD/OD4RD2): RD codification and data
 - European Health Data Space (EHDS) and related projects (TEHDAS, Xt-EHR)
- ERNs and RD data are at present fragmented and unintegrated into national health systems

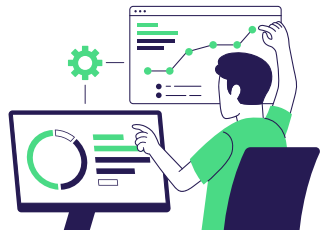
'To improve the accessibility and support the long-term sustainability of the ERN system by contributing to the effective integration of ERNs in the national health systems (while always respecting the autonomy of MS in this regard), thereby, on the other hand, also strengthening the resilience of the national health systems'

- JARDIN WP8 looks to bridge this gap through technical and semantic operability via consistent legal, operational and governance frameworks

JARDIN Survey



- Conducted to better understand the barriers that exist in the journey of RD health data as well as what solutions exist to overcome said barriers
- Addressed to three groups of targeted respondents
 - HCP Unit Leads: 457 responses from 27 countries
 - IT Support: 100 responses from 24 countries
 - National Authority IT Experts: 28 responses from 23 countries
- Covered topics such as the first capture of data, data sharing, and data FAIRness



Focus on ORPHAcoding – Current State of Play

- **ORPHAcodes implementation in hospital EHRs**
 - MS coverage remains incomplete
- **ORPHAcodes implementation in RD registries**
 - Complete in most of the MS
- **Huge heterogeneity in ORPHAcodes implementation**
 - Subset of ORPHAcodes only
 - Inpatients or outpatients only
 - Lack of portability of ORPHAcodes
 - Secondary ORPHAcoding from hospital to registry

Semantic, Technical, & Infrastructural

Barriers

- Lack of digital infrastructure
- Non-standardised datasets
- Limited interoperability between local, national, and European systems
- A lack of automation, leading to labour-intensive processes
- Limited integration of ORPHAcodes

Solutions

- Common or interoperable standardised EHR formats at the national level that allow for the consistent use of ORPHAcodes and other coding standards (e.g. EEHRxF, HL7 FHIR)
- Implementation of FAIR Principles and use of semantic terminologies and tools (e.g., the ORPHAcodes) to harmonise coding
- Use of standardised minimum datasets to simplify data collection

Barriers

- Absence of binding national policies enforcing ORPHAcodes usage
- Fragmented legal frameworks for data sharing and reuse
- Complexity of obtaining consent and approvals for secondary use

Solutions

- National legislation mandating ORPHAcodes in (at least) designated centres or hospitals
- Clear and centralised governance frameworks for RD data protection and sharing
- Central ethics approval for reuse of pseudonymised data
- Adoption of opt-out models
- Harmonised Consent Frameworks

Organisational & Resource-Based

Barriers

- Limited human or technical resources for registry participation
- Administrative delays in data sharing agreements

Solutions

- Establishment of central coordinating support units
- Engagement in national or regional initiatives to support structured RD data capture and international interoperability
- Capacity-building Initiatives
- Enhanced Data Governance and Policy Support

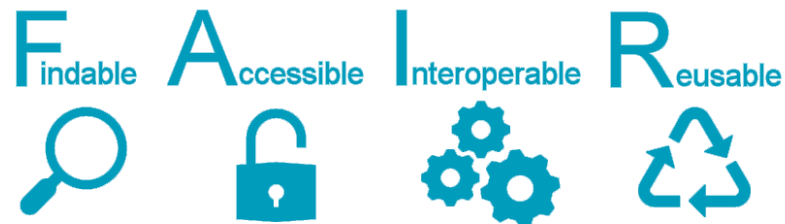
Minimum Datasets

- Inconsistent and non-standardised RD coding and data capture make it difficult to identify RD patients in hospital systems
 - Negatively impacts RD patients and healthcare systems
- Conversely, harmonised standards confer many benefits
 - Improvement of patient care
 - Clinical research
 - Epidemiological insights
 - Resource allocation
 - Public health policy



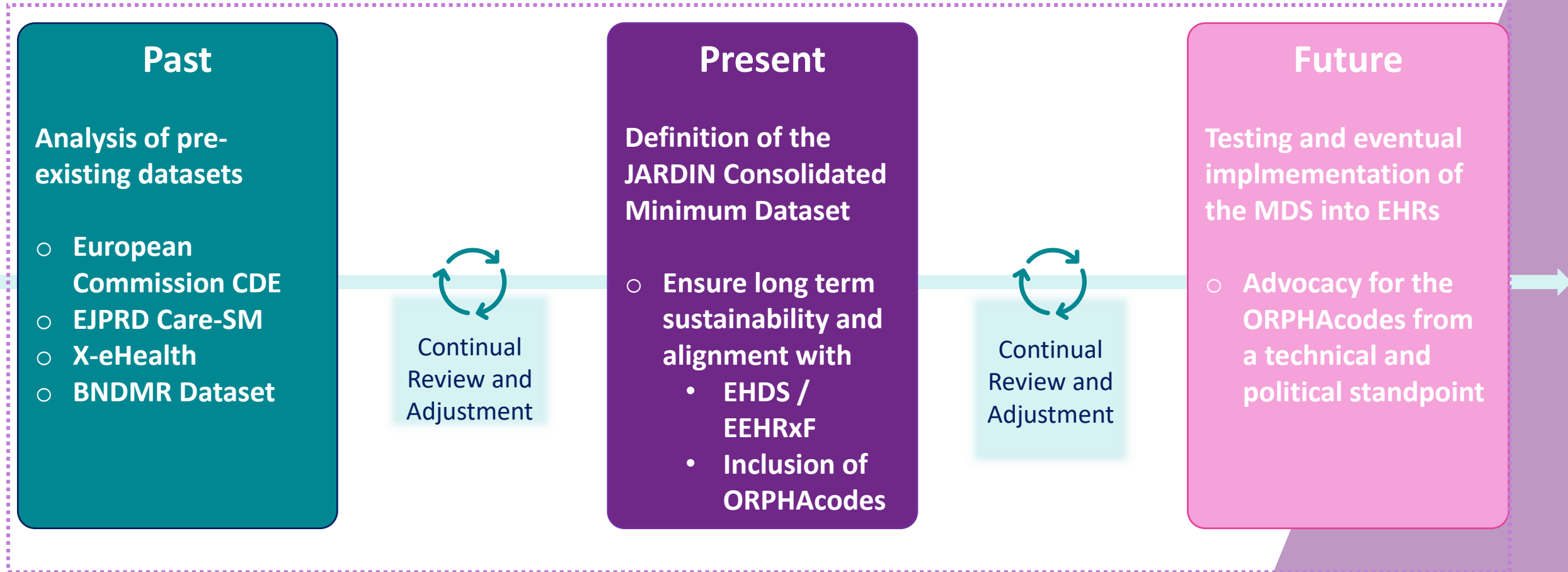
Minimum Datasets

- A minimum dataset (MDS) defines a consistent list of data elements to be collected for all RD patients
 - Ensures homogeneity across HCPs, countries, registries and databanks
- MDS render collected data interoperable and reusable (FAIR) for both primary and secondary data use
 - By using known and accepted standards, data can be shared, reused and understood across EHRs, software and registries



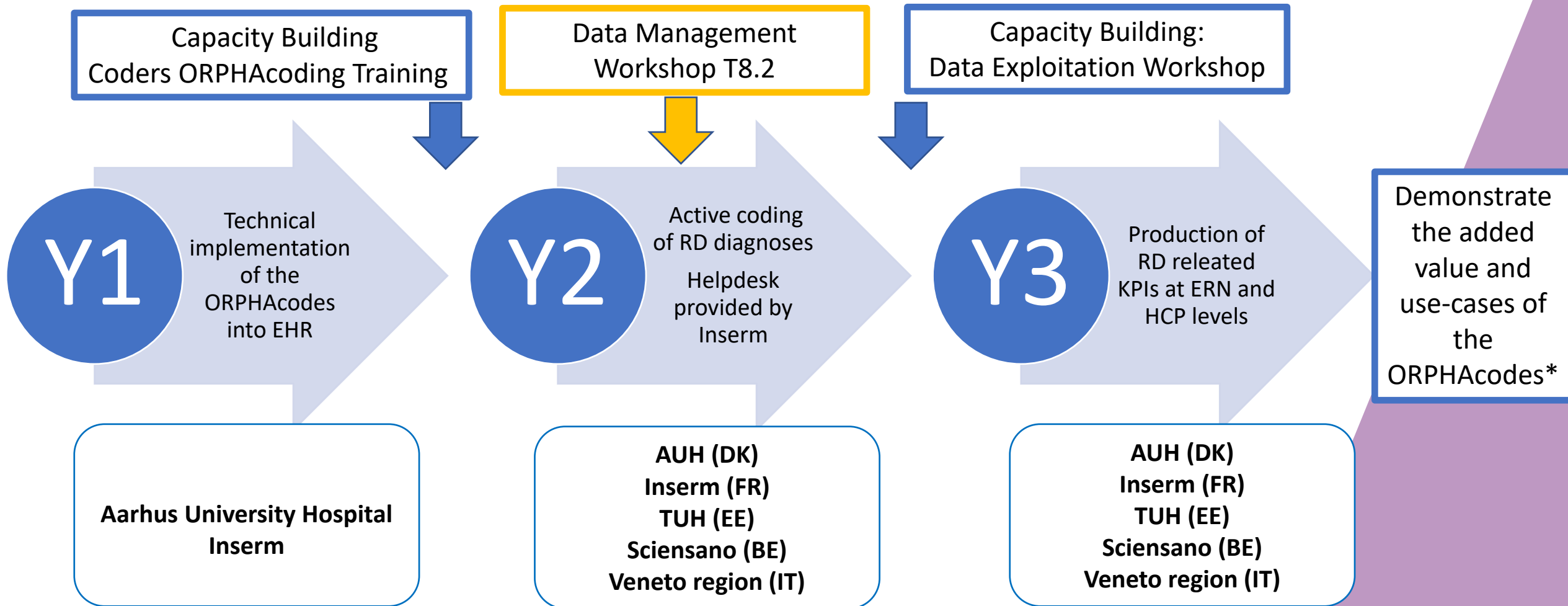
JARDIN Chronology

Flow Chart of JARDIN WP8 Methodology



JARDIN Subtask 8.4.3

Use of implemented RD datasets for monitoring HCP and ERN activities



** i.e. increase in the number of RD identified (OC vs ICD10) ; comparing LOS in RD inpatients vs non-RD patients*

Data Management Workshop

Countries Represented in JARDIN Data Management Workshop

Absent Present

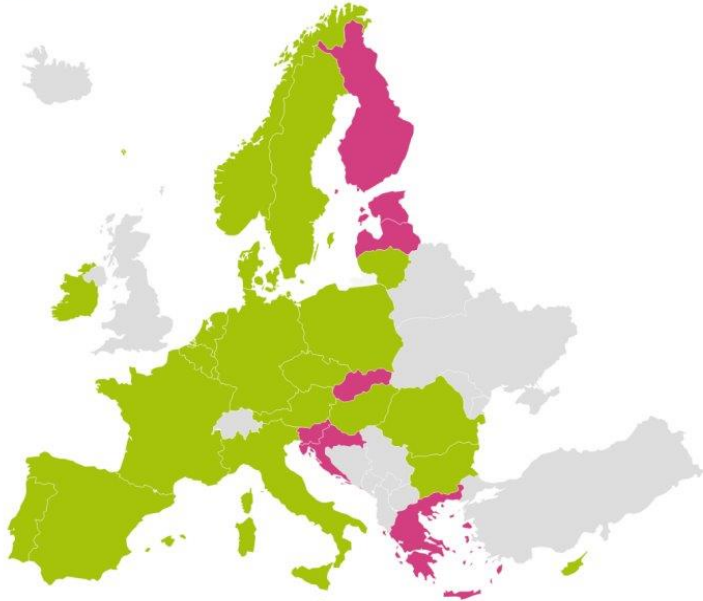
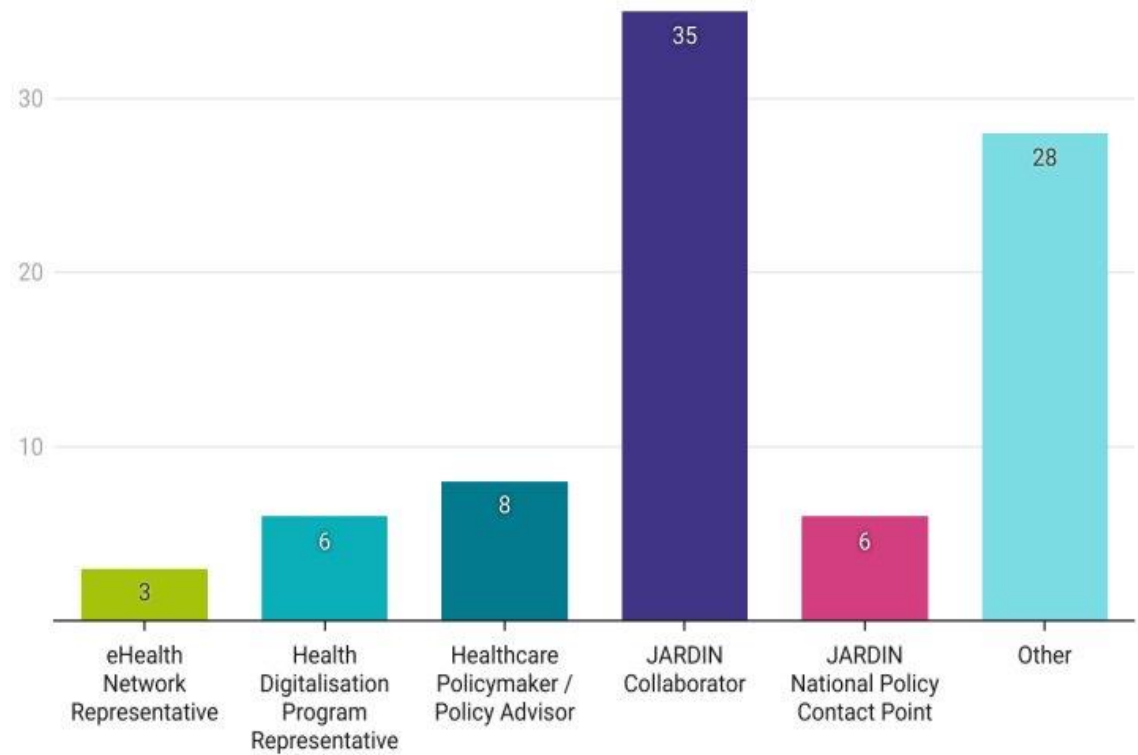


Figure 1 Countries Represented in the JARDIN Data Management Workshop: The map indicates the countries who were present at (green), or absent from (magenta), the JARDIN Data Management Workshop. Countries not implicated in the workshop are in silver.

Breakdown of Participants' Backgrounds



Data Management Workshop - Key Messages



- Promote **policies** commanding the capture, sharing and re-use of RD data at national level
- **Incentivise** through benefits (for HCPs, for health professionals, for patients) and education
- **Finance** the data capture, harmonization and technical/legal support
- Enforce and empower HCPs IT departments to implement **ORPHAcodes and MDS**, and use **IT implementable solutions and guidelines (automation)**
- Provide **capacity building** tailored for IT, health professionals, coders, managers
- Facilitate **helpdesks/helplines** to support them

ORPHAcode Implementation Policy Guidance

- Will require consideration of how the ORPHAcodes are utilised at the policy level in addition to the HCP level.
 - There are numerous use-cases for coding with the ORPHAcodes
- Therefore, a better understanding coding practices is important as these practices will have policy implications.
 - This may require further research or a survey of the member states to gain a better understanding of their ORPHAcoding practices.
 - General recommendations that can be adopted at the national level would be the ultimate goal.

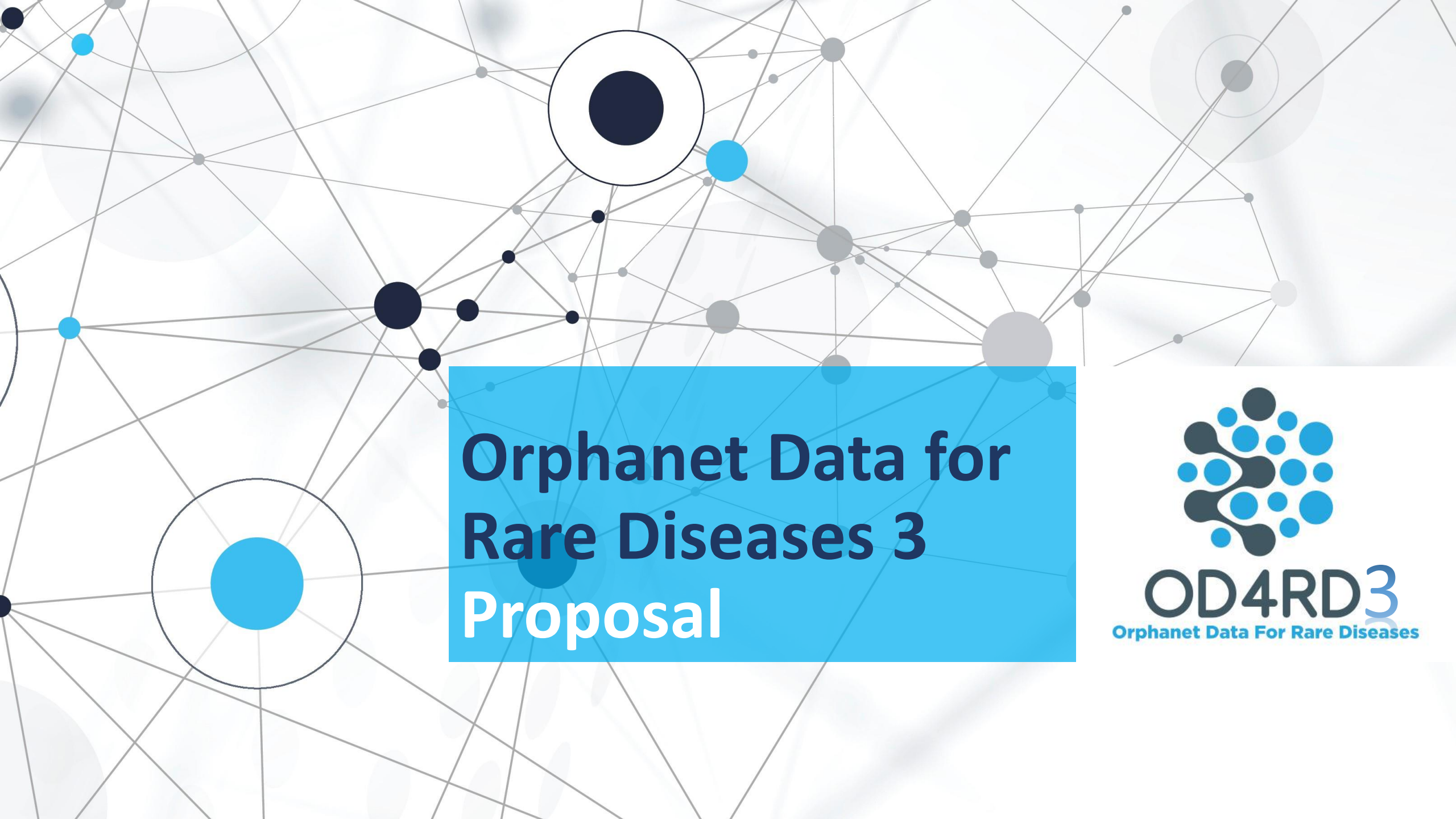
Opportunities to Collaborate: JARDIN / OD4RD2

- JARDIN to provide the framework and guidelines for ORPHAcode implementation from a political standpoint
 - Can further advocate for this through our final workshop and documentation
- OD4RD2 can provide the groundwork through capacity building, practical assistance, and the empowerment of coders and IT personnel





THANK YOU!

A complex network diagram with numerous nodes of varying sizes (black, blue, and grey) connected by thin grey lines. Some nodes are highlighted with larger concentric circles. The background is a light grey with faint, larger-scale network patterns.

Orphanet Data for Rare Diseases 3 Proposal





Contract information



Direct grant

- No competition
- Orphanet *de facto* monopoly

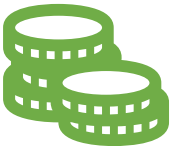


Mono-beneficiary (INSERM) + 23 affiliated entities(+4: GR; IS; DK; *LU*)



33 months

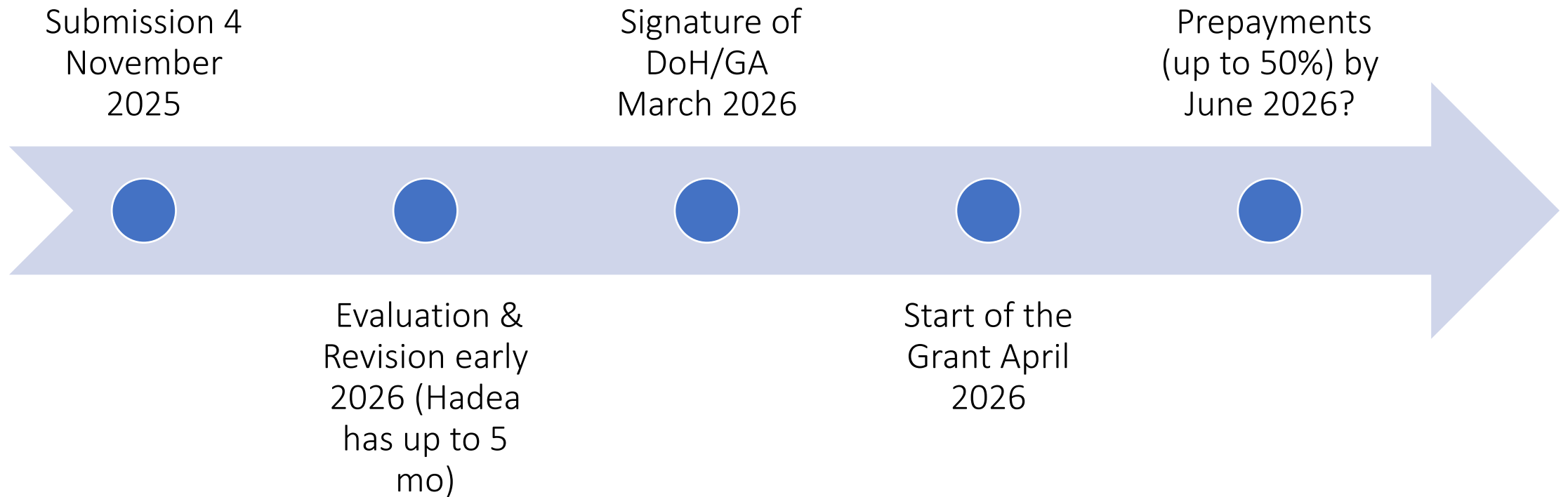
- March 2026 – Dec 2028



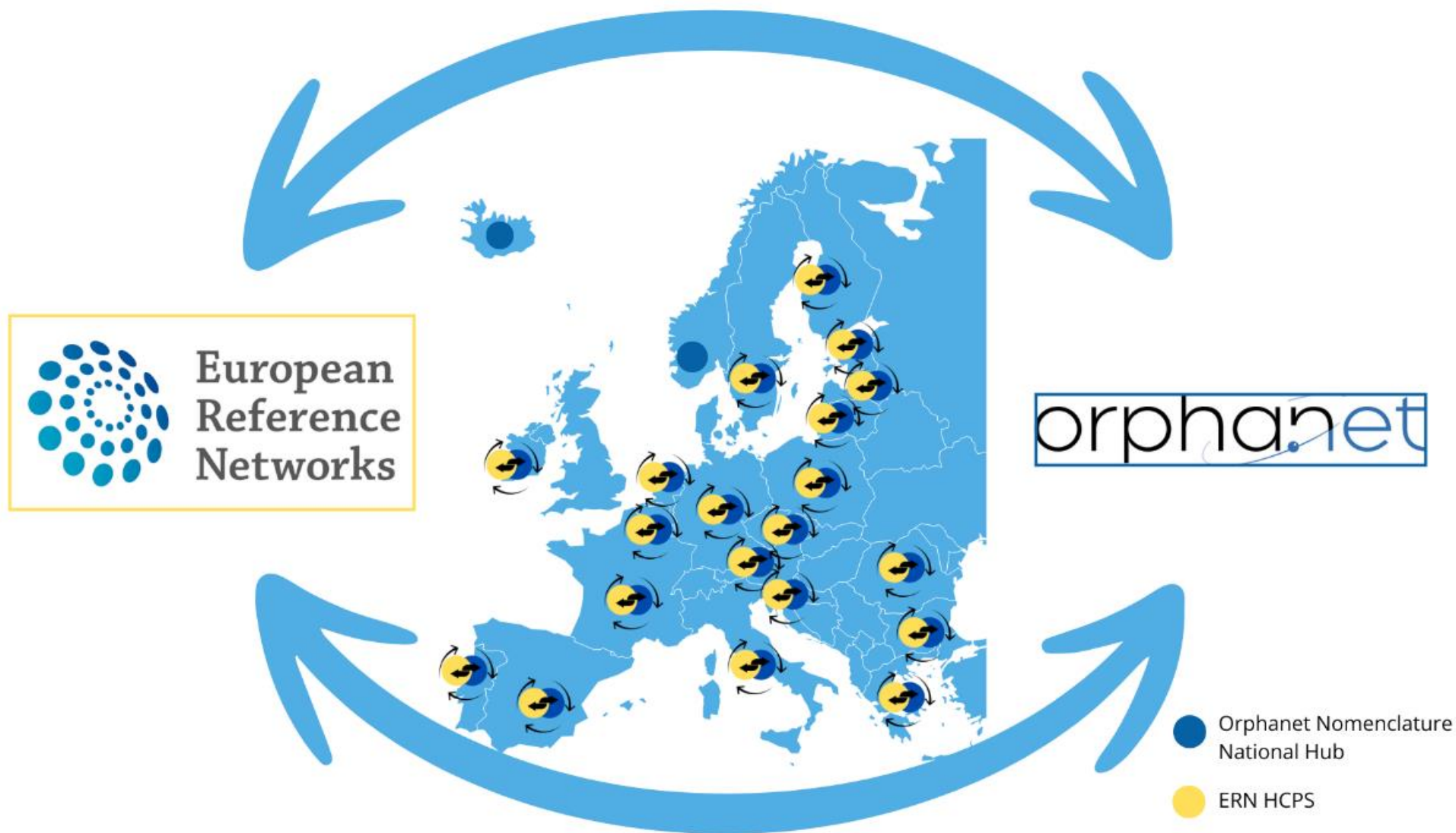
Estimated call budget 3.5 M€



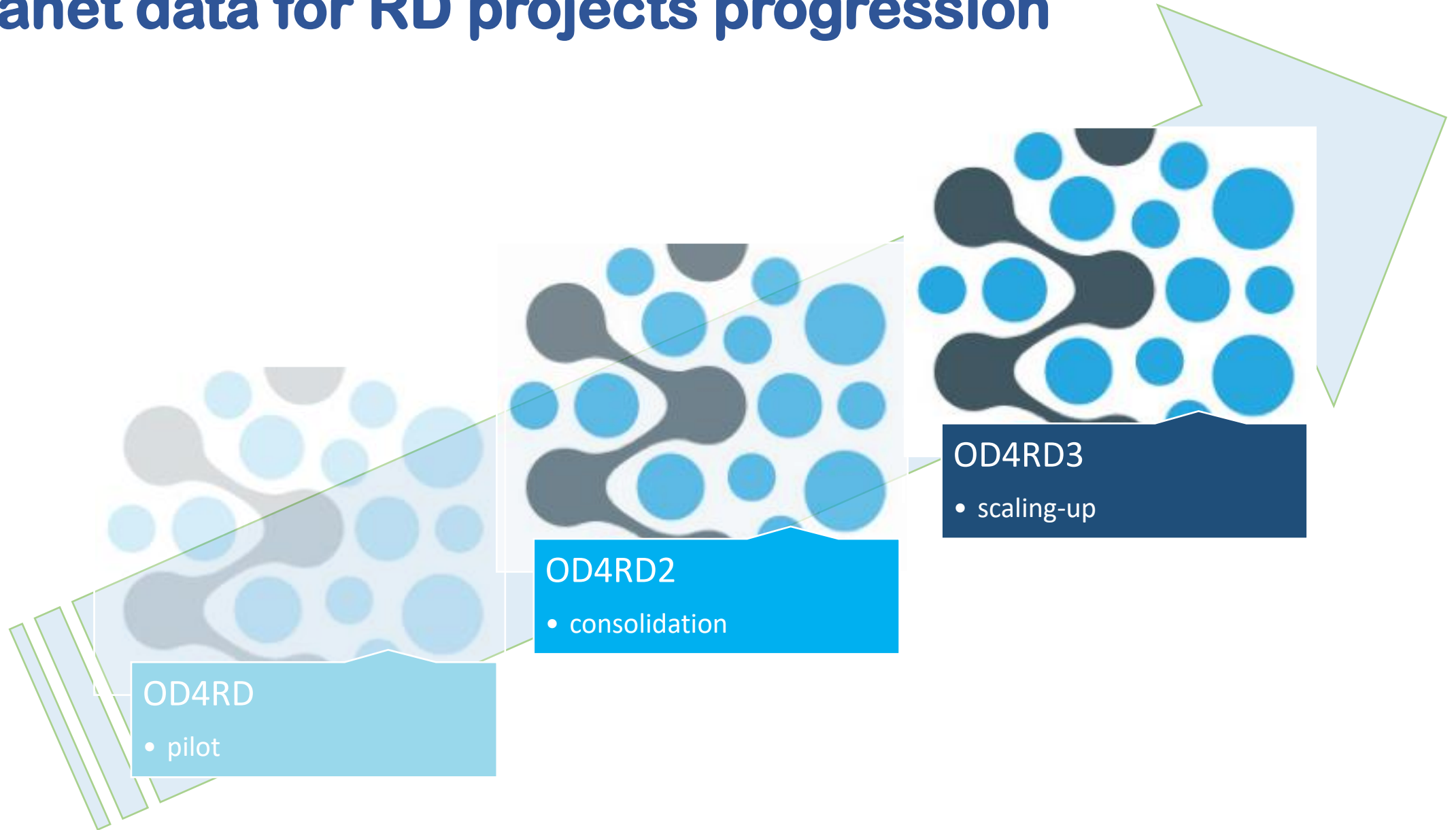
Expected Timeline



Main principle



Orphanet data for RD projects progression



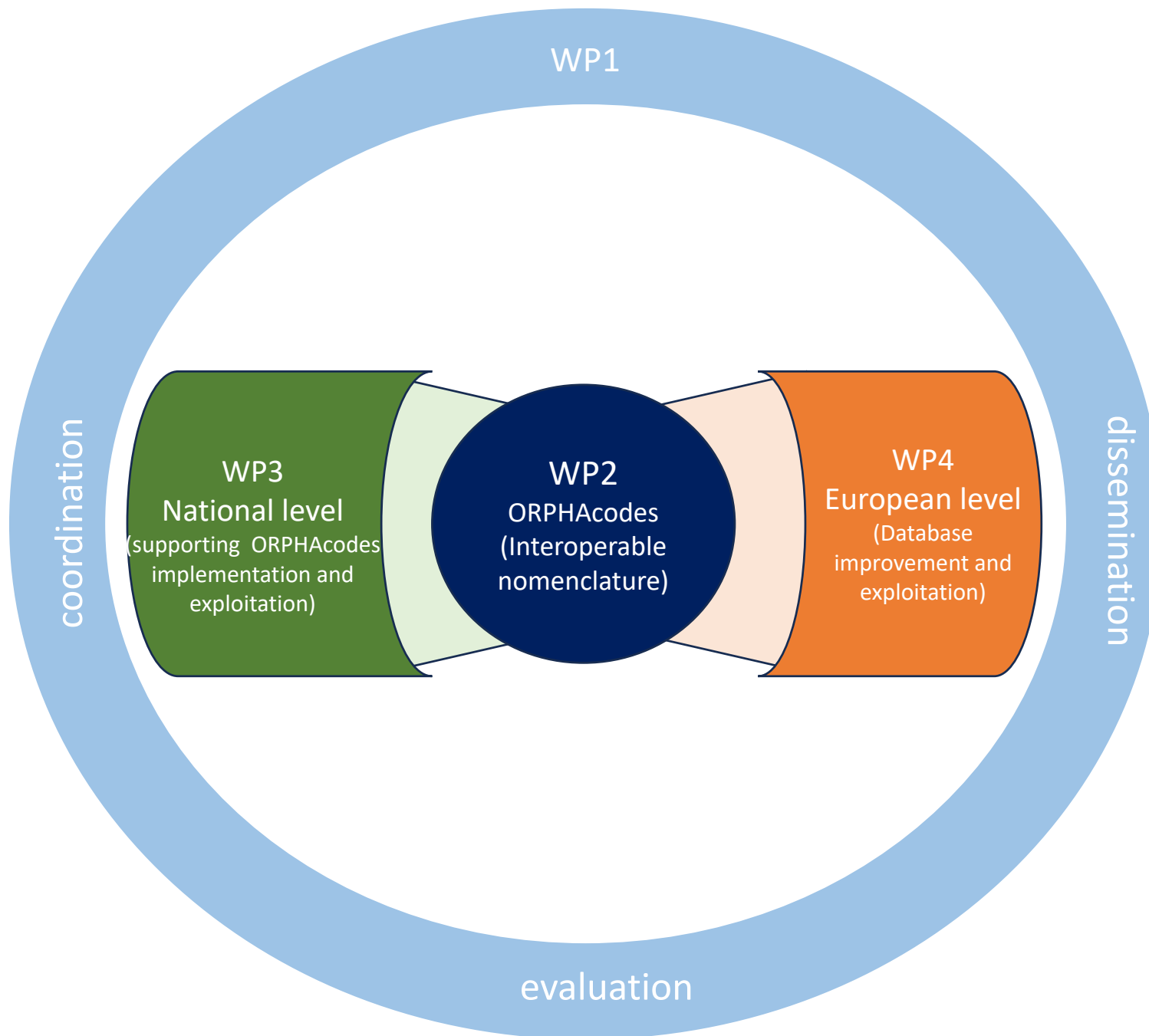
Challenge for RD Data	Description	Needs	Solutions	Foreseen actions
Rarity and invisibility; insufficient representation of RD in medical terminologies	There are 6500+ RD and 85% touch less than 1 person in 1 M. This implies that no country or system can alone generate a critical mass data necessary to build knowledge + no generic terminology can as of today specifically represent EACH and ALL RDs, except ORPHAcodes.	To generate a critical mass of the data all countries must collect RD data in a standardized way using a specific terminology	ORPHAcodes implemented in medical records in Hospitals, coding at the bedside. Clinicians should be supported and coding facilitated for data accuracy and quality IT departments should be supported so as ORPHAcodes are effectively implemented	Continuous production of specific RD Nomenclature in collaboration with ERNs (WP2) Delivery of a ready-to-use ORPHAcodes files and tools to ease implementation (WP2) Support and training to coders and IT by national Hubs (with umbrella coordination) (WP3)
Rapid evolutivity of the field, and of the knowledge especially in genetics	New diseases are described, already known diseases are better characterised and either regrouped or splited. Knowledge of each RD evolves (etiology and physiopathology, natural history, management and therapies) ERNs hold the clinical expertise, increase the knowledge on RD through their registries and provide clinical practice guidelines and standards of care	To have an up-to date nomenclature, textual information and scientific data on each RD available for consultation and re-use for free to all the stakeholders	Update the Orphanet database to follow up the evolution of knowledge in collaboration with ERNs Develop facilities to capture experts/users' feedback	Production of specific RD Nomenclature in collaboration with ERNs (WP2) Production of genetic annotations of RD (WP4) Production of updated information on RD (WP4)
RD touch every specialty and the border between care (1ary use) and research and policy-making (2dary use) is very faint	Good quality data produced at the point of care is necessary for improved care as well as research & for Indicators production , allowing for evidence-based decision making in health systems. However, in most countries it is impossible to answer the most basic questions such as how many RD patients we have in our health system.	To ensure interoperability between these different domains. To demonstrate the added-value of good quality data for healthcare provision and planning.	Accurate alignments between terminologies are available and delivered in computable formats. Support for data exploitation at local level (HCPs, registries, etc) by using the Orphanet RD classification system.	Production of specific RD Nomenclature in collaboration with ERNs (WP2) Quality controlled and inter-terminologies consistent alignments (WP2) Developments of data stewardship programme (WP3) Easy to use tools (WP2-3)
Need for evidence to support policy actions in the ERNs sphere	ERNs are aimed to bring coordinated expertise and standard of care for all RD including rare cancers across MS. No systematic analysis on this coverage is available. It is difficult nowadays to design patient care pathways by RD within and among ERNs.	To have up-to-date quantitative and qualitative reports on coverage of all RD by ERNs to inform future actions within and between ERNs To have a clear picture of the geographical distribution of ERN expertise across MS.	Analyse RD field coverage using the Orphanet classification, analyse qualitative coverage by co-analysing Orphanet and ERNs' data, including the Orphanet database of expert centers.	Production of reports on ERN RD coverage (WP4) Identification of gap expertise at national and EU level (WP4) Specify and provide a user-friendly way to capture the updated ERN coverage of RD

General Objectives

1. Ensure the production and delivery of the **Orphanet nomenclature of RD** (ORPHAcodes) in a way it is updated and adapted to evolution of knowledge and coding needs including the need for interoperability of RD data in health and research systems.
2. Accompany and promote the **RD codification expansion** in ALL European MS, by providing human and technical support for implementation, actual adoption and codification in a harmonised standardized way across Europe
3. Collaborate closely with ERNs so their expertise and data collected in registries contributes to **knowledge generation and dissemination** through a constantly improved Orphanet knowledge base.
4. Accompany the **RD data exploitation** at scale, for primary and secondary use (including monitoring activities) by disseminating best practices, tools and services, and making use of the Orphanet reference data produced in collaboration with ERNs.

Specific Objectives

1. Ensure the continuous production and delivery of Orphanet **nomenclature** so as to follow the continuous evolution of knowledge and to adapt to coding needs, in particular by enhancing collaborations with ERNs
2. Ensure the **interoperability** between ORPHAcodes and other terminologies in use (in particular ICD-10, ICD-11 and SNOMED-CT) so as to provide an accurate and consistent resource for transcoding.
3. **Scale-up** the support for ORPHAcodes implementation in MS by expanding the capacity and the geographical coverage of **the Network of Orphanet Nomenclature Hubs (NONH)**, so as to cover all EU MS, and Ukraine by adapting the National hubs action plans to the local situations
4. Empower the NONH to provide **support for data exploitation** using the Orphanet open-science knowledge base for the production of monitoring indicators and/or to respond to research questions through the creation of a data stewardship programme
5. Expand and update the **Orphanet knowledge base** content in collaboration with ERNs so as to contribute to its exploitation for primary use (improved patients' healthcare pathways) and secondary use (data exploitation)
6. Contribute to the European RD policy by providing **support** to the European Commission, the Board of Member States and the ERN coordination **for evidence-based decision-making**.





OD4RD3 structure and activities

- **WP1. Project management and coordination (Inserm)**
 - Coordination
 - Dissemination
 - Evaluation
- **WP2. Orphanet interoperable nomenclature and classification of RD update and maintenance**
 - Production & release of the nomenclature; Collaboration with ERNs (Inserm)
 - Maintenance and quality control of ORPHAcodes alignments with ICD and SNOMED) (Inserm & BfArM)
- **Work Package 3: Supporting ORPHAcodes implementation & exploitation at the National Level**
 - Scientific and organisational coordination to scale up (Inserm & OUS)
 - Support to implementation and coding + good coding practices
 - Support to data exploitation using Orphanet classification & knowledge base
 - National hubs action plans (all)
- **WP4. Database improvement and exploitation at the European level (Inserm)**
 - Expand and improve RD information (genes and texts) in collaboration with ERNs
 - Specify and (co)develop services for the EC and ERN coordination
 - Update and expand the RD coverage analysis for better patient pathways

WP1. Orphanet nomenclature

Orphanet and ERN collaboration steps





Orphanet and ERN collaboration projects

ERN	Group Revised/ to be revised		Collaboration main goal	Status
ITHACA-eUROGEN / Spina Bifida and other dysraphisms	ORPHA: 268357	Neural tube closure defect	Classification revision and entities inclusion	Finalized
MetabERN	ORPHA:738	Porphyria	Entities inclusion	
ERN-EYE	ORPHA:499047	Isolated optic neuritis	Classification revision and entities inclusion	
VASCERN	ORPHA:211237	Rare vascular tumor	Classification revision and entities inclusion	
ERN-EuroBloodNet	NA	Pediatric thrombotic diseases	Entities inclusion	
ERN SKIN	ORPHA:79373	Ectodermal dysplasia syndrome	Entities inclusion	
ERN GENTURIS	ORPHA:104010	Intestinal polyposis syndrome	Entities inclusion	
ERN EuroBloodNet	ORPHA:68364	Hemoglobinopathies	Classification revision and entities inclusion	
ERN EURO-NMD	ORPHA:599	Distal myopathy	Classification revision and entities inclusion	
ERN EURO-NMD	ORPHA:98482	Idiopathic inflammatory myopathy	Classification revision and entities inclusion	
ERN-Transplantchild	ORPHA:506210	Rare disorder potentially indicated for liver transplant	Classification revision	
ERN-Transplantchild	ORPHA:506222	Rare disorder potentially indicated for lung transplant	Classification revision	
ERN-Transplantchild	ORPHA:506225	Rare disorder potentially indicated for heart transplant	Classification revision	
ERN-Transplantchild	ORPHA:506213	Rare disorder potentially indicated for kidney transplant	Classification revision	
ERN-EYE	ORPHA:519311	Rare disorder of the posterior segment of the eye	Classification revision and entities inclusion	
ERN RND	ORPHA:282	Frontotemporal dementia	Classification revision and entities inclusion	Finalized before 2026
ERN EpiCARE	ORPHA:101998	Rare epilepsy, step 1: Epilepsy syndromes, ORPHA:166463	Classification revision and entities inclusion	
ERN VASCERN	ORPHA:211237	Rare vascular malformation: simple	Classification revision and entities inclusion	
ERN VASCERN	ORPHA:211237	Rare vascular malformation: complex	Classification revision and entities inclusion	
ERN PaedCan/SIOPE	NA	Pediatric cancer - high grade glioma - CNS	Creation of the classification	
ERN EURO-NMD	ORPHA:98491	Neuromuscular Junction disease	Classification revision and entities inclusion	
ERN ERNICA	ORPHA :104012	Rare Inflammatory Bowel Disease	Classification revision and entities inclusion	



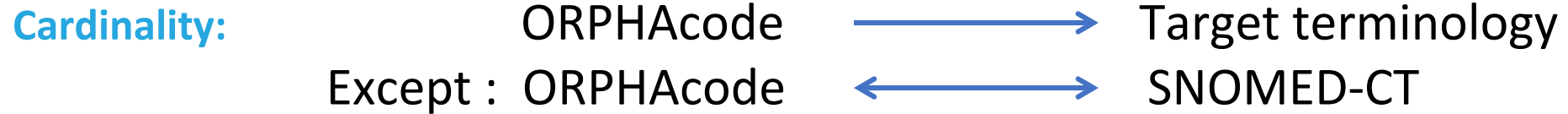
Orphanet and ERN collaboration projects

ERN	Group Revised/ to be revised		Collaboration main goal	Status
ERN GUARD-Heart	ORPHA:218436	Rare cardiac rhythm disease	Classification revision and entities inclusion	Ongoing
ERN RND	ORPHA:68356	Leukodystrophy	Classification revision and entities inclusion	
ERN RND	ORPHA:306719	Chorea	Classification revision and entities inclusion	
Inter ERN Mito-WG	ORPHA:68380	Mitochondrial disease	Classification	
ERN PaedCan/SIOPE	NA	Pediatric cancer - renal tumors	Creation of the classification	
ERN PaedCan/SIOPE	NA	Pediatric cancer - Very rare tumors	Creation of the classification	
ERN PaedCan/SIOPE	NA	Pediatric cancer - CNS tumors	Creation of the classification	
ERN RND	ORPHA:98006	Hereditary spastic paraplegia	Classification revision and entities inclusion	
MetabERN	ORPHA:289899	Organic aciduria	Classification revision and entities inclusion	
ERN EURO-NMD	ORPHA:97245	Congenital myopathy	Classification revision and entities inclusion	Pending
ERN-NMD	ORPHA:98006	Rare neurological diseases, step1: Hereditary spastic paraplegia	Classification revision and entities inclusion	
ERN-Transplantchild	ORPHA:506216	Rare disorder potentially indicated for bowel transplant	Classification revision	
ERN-Transplantchild	ORPHA:506219	Rare disorder potentially indicated for HSC transplant	Classification revision	
ERN-CRANIO	ORPHA:2014	Cleft palate	Classification revision and entities inclusion	
ERN SKIN	ORPHA:79354	Ichthyosis	Classification revision	Starting in early 2026
ERN SKIN	ORPHA:79357	Hereditary palmoplantar keratoderma	Classification revision	
ERN SKIN	ORPHA:79373	Ectodermal dysplasia syndrome	Classification revision	
ERN EuroBloodNet	ORPHA:182040	Rare aplastic anemia	Entities inclusion	
ERN EuroBloodNet	ORPHA:98363	Rare hemolytic anemia	Classification revision and entities inclusion	
ECLip & Lipodystrophy international experts	ORPHA:90970	Primary lipodystrophy	Classification revision and entities inclusion	Starting in late 2026

WP1. Interoperability of the Orphanet nomenclature



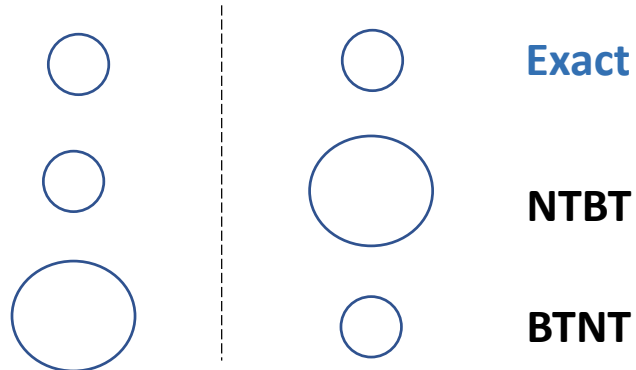
Alignments workflow: ensure interoperability between ORPHAcodes and other generic terminologies



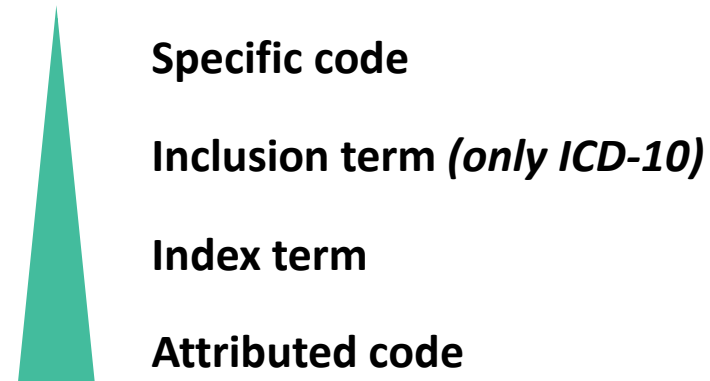
Alignments are qualified by:

A proximity relationship

ORPHAcode → **Targeted terminology**



A specificity relationship (WHO terminologies)





Alignments workflow:

ensure interoperability between ORPHAcodes and other generic terminologies



- ❁ Reciprocal collaboration:
 1. Orphanet produces the updates of RD nomenclature
 2. Knowledge is transmitted to and evaluated by SNOMED-CT according to their own guidelines
- ❁ Only exact matches are aligned

SNOMED browser:
<https://browser.ihtsdo.org/>



- ❁ Survey of OMIM phenotypes (once a month)
- ❁ Orphanet genetic entities are aligned with phenotypic OMIM numbers
- ❁ Alignment is qualified by proximity relationship: Exact matches, NTBT or BTNT.

<https://www.omim.org/>



World Health Organization

ICD-10

ICD-11

- ❁ Aim to cover all of the entities at the disorder level
- ❁ ICD-11 includes: MMS & foundation
- ❁ RDs are more represented in ICD-11
- ❁ Alignments qualified by:
 - Proximity (Exact, NTBT, BTNT)
 - Specificity (Specific, Index, Inclusion for ICD-10, Attributed)

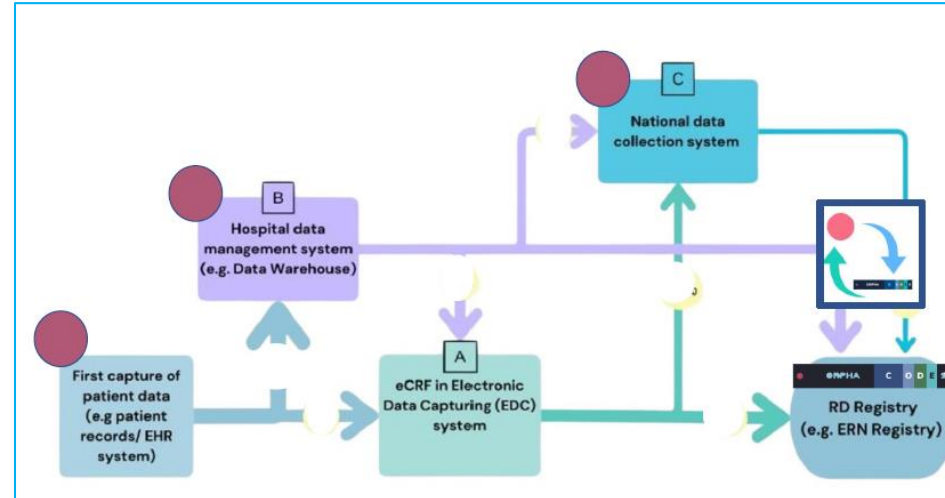
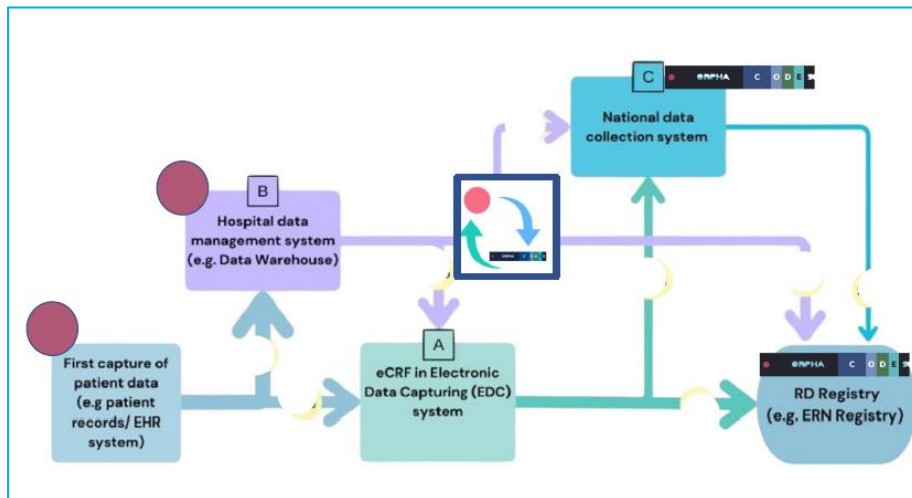
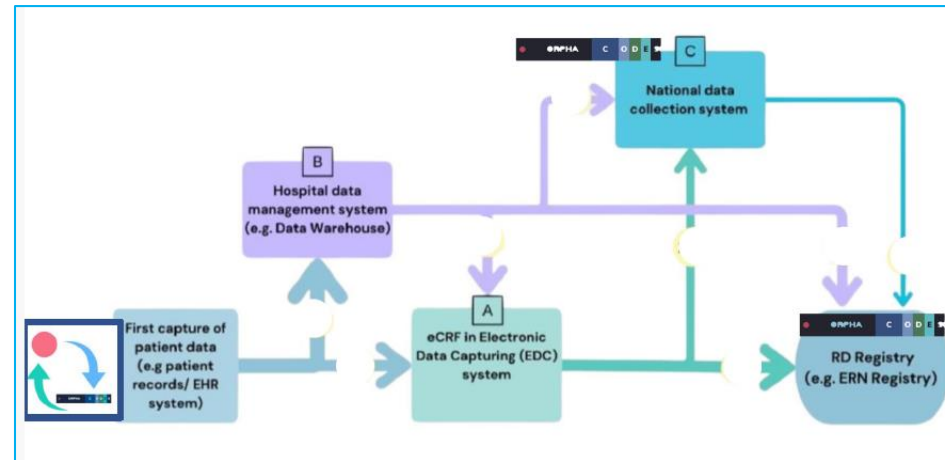
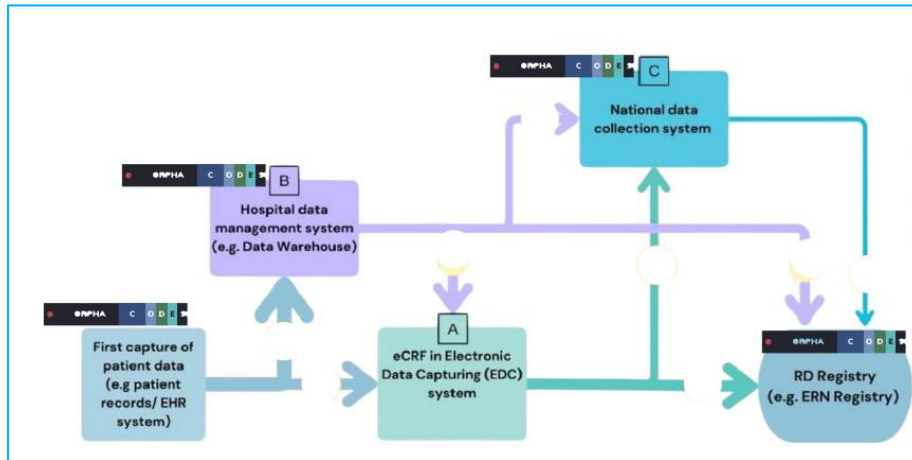
ICD-10: <https://icd.who.int/browse10/2019/en>
ICD-11 MMS: <https://icd.who.int/browse/2025-01/mms/en>



Alignment activity indicators

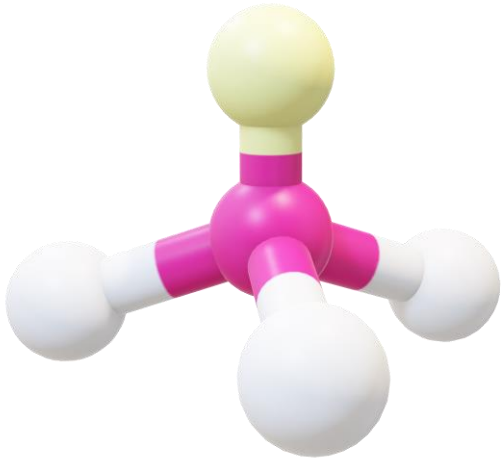
Indicator	Target reached (2022-2025)
% of disorder ORPHAcodes aligned with ICD-10, including inexact mappings	97.3%
% of disorder ORPHAcodes aligned with ICD-11 terms, including inexact mappings	71.7%
Number of ORPHA-SNOMED CT human-readable mapping files released	1/year, last release October 2025
Validation meetings with the scientific officer for ICD-10, ICD-11 and SNOMED-CT mappings	2/month
Survey of OMIM (phenotypes) updates	1/month

Inter-terminologies alignment: why it matters?





What's new in OD4RD3



- Cross-terminology alignment consistency
- By quality-controlling ORPHAcodes-to-n terminologies mappings
- Comparing to transcoding results from the ground (SNOMED CT mappings, Germany & other countries transcoding practices)



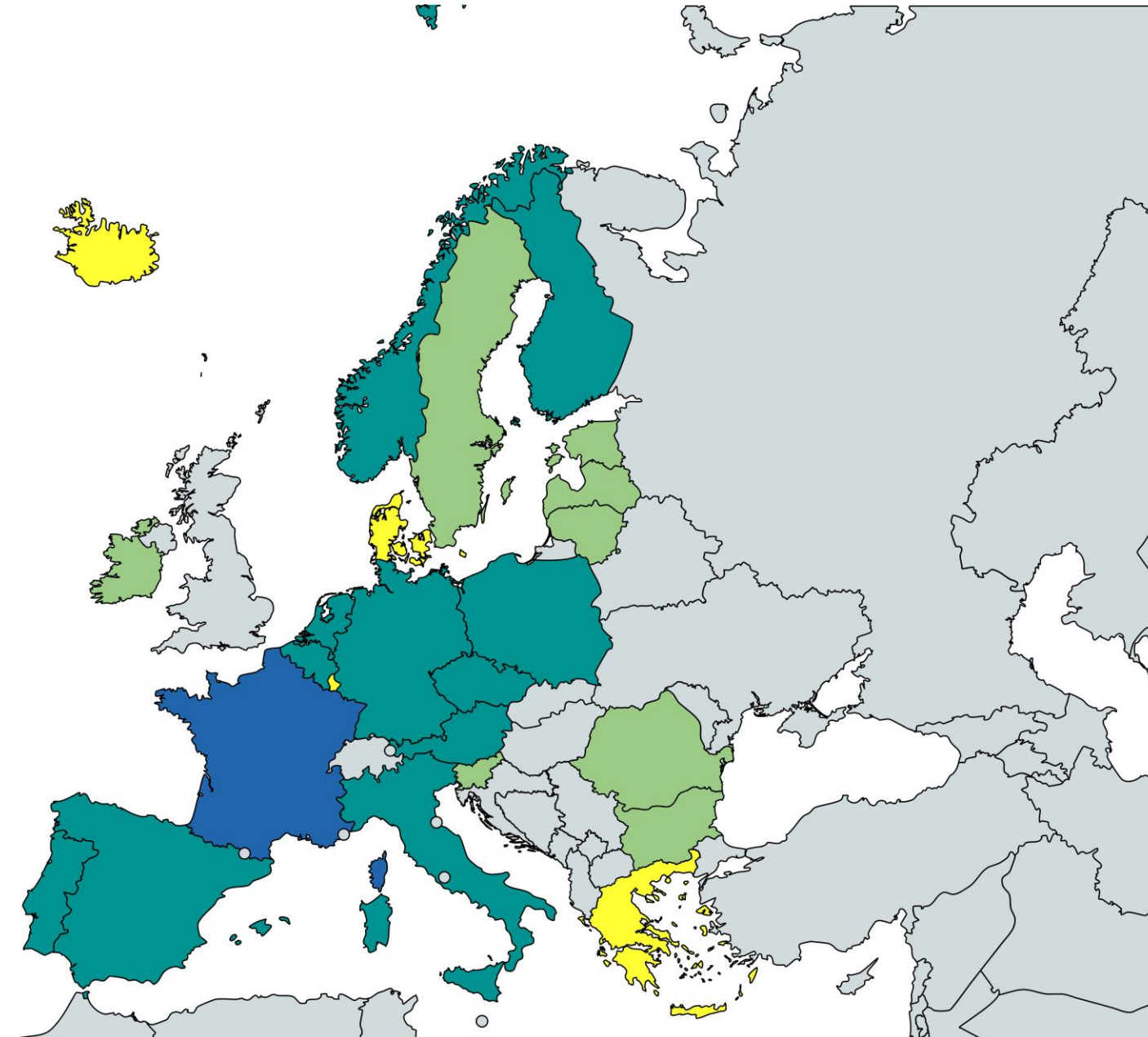
WP3. Supporting ORPHAcodes implementation & exploitation at the National Level

- Based on OD4RD2 and JARDIN lessons learned
- Increase the number of NOHN
 - Denmark
 - Greece
 - Iceland
 - Luxembourg
- Provide distant support to non-covered countries & Ukraine
- Increase the number of HCPs/country
- Provide support for data exploitation using the Orphanet classification and knowledge base
 - To produce indicators
 - To produce evidence for decision-making



Network of ONNH

- Coordinator
- ONNH since 2022
- ONNH since 2023
- ONNH starting 2026



Creation of a data stewardship programme for data exploitation support

- Year 1: forming
 - (constitution and capacity building of the coordinating team)
- Year 2: norming
 - (harmonizing practices based on first exploitation projects)
- Year 3: performing
 - (expanding the projects both within and across the borders to serve European Commission, MS, HCPs and ERNs aims)



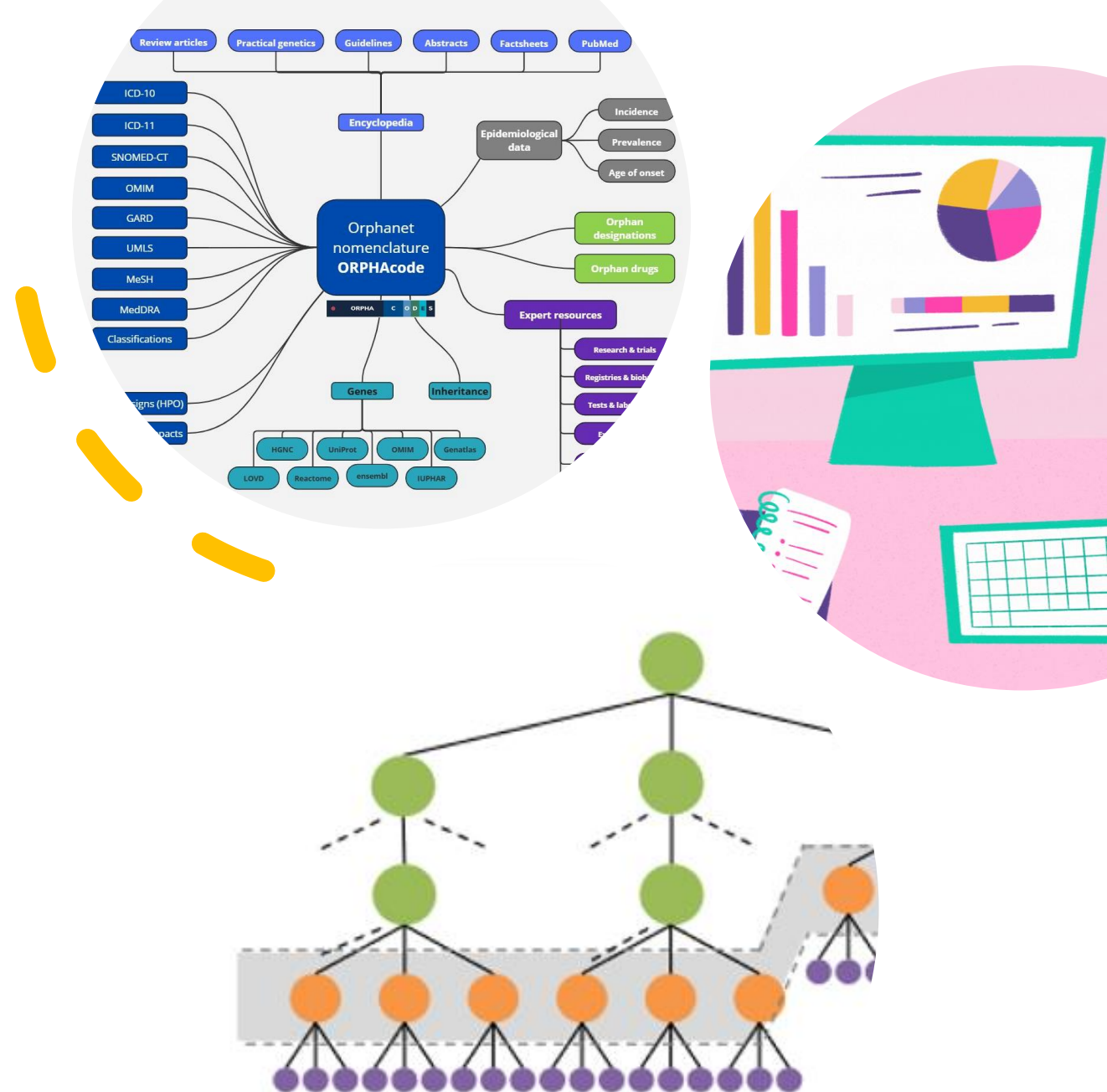
NOHN capacity building

Provide support to make use of the Orphanet classification graph

and the Orphanet knowledge base content organised around it

To analyse users' data in a meaningful way

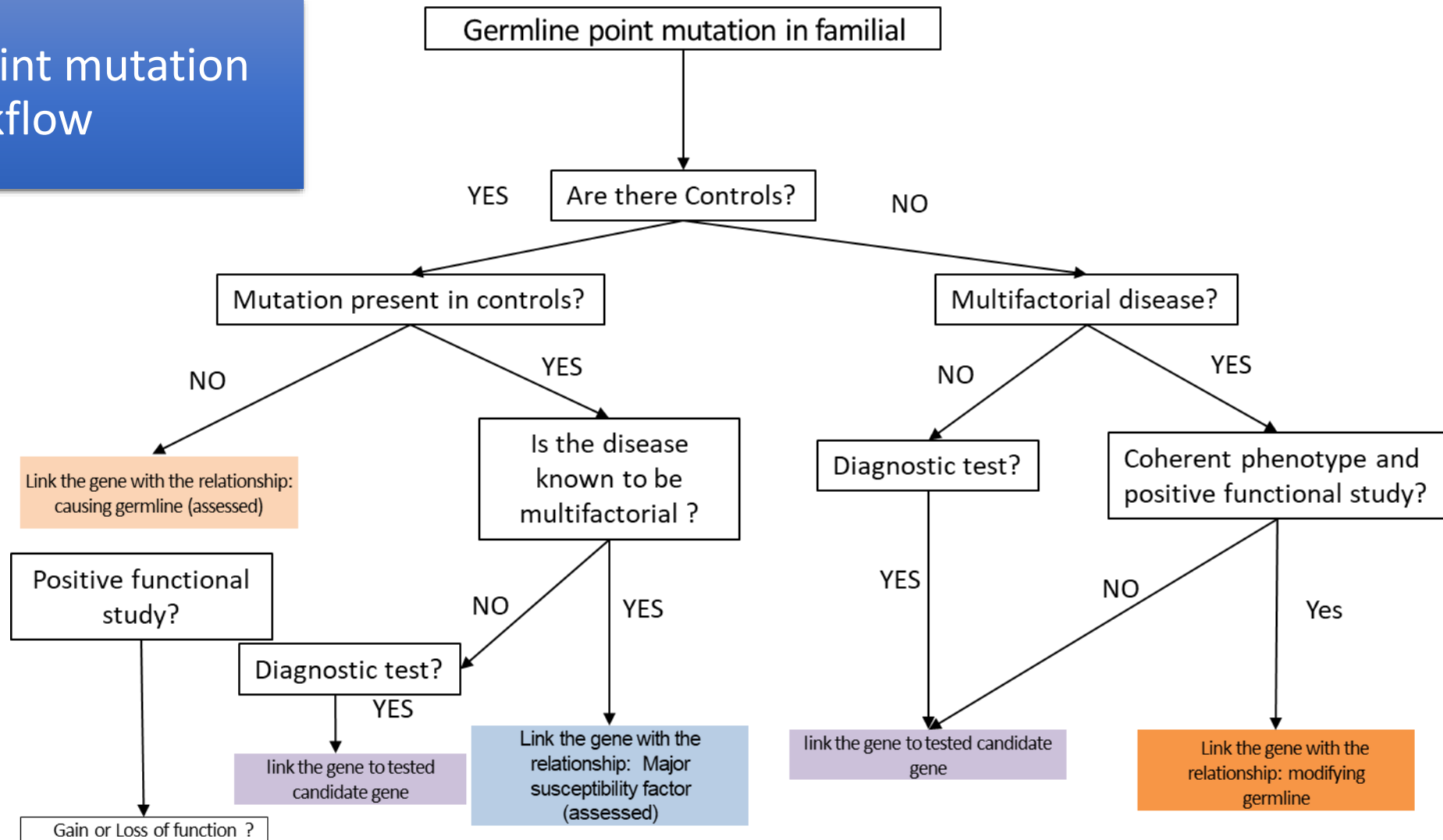
- Indicators
- Using JARDIN lessons learned and use cases



WP4. Orphanet content: gene-disease database



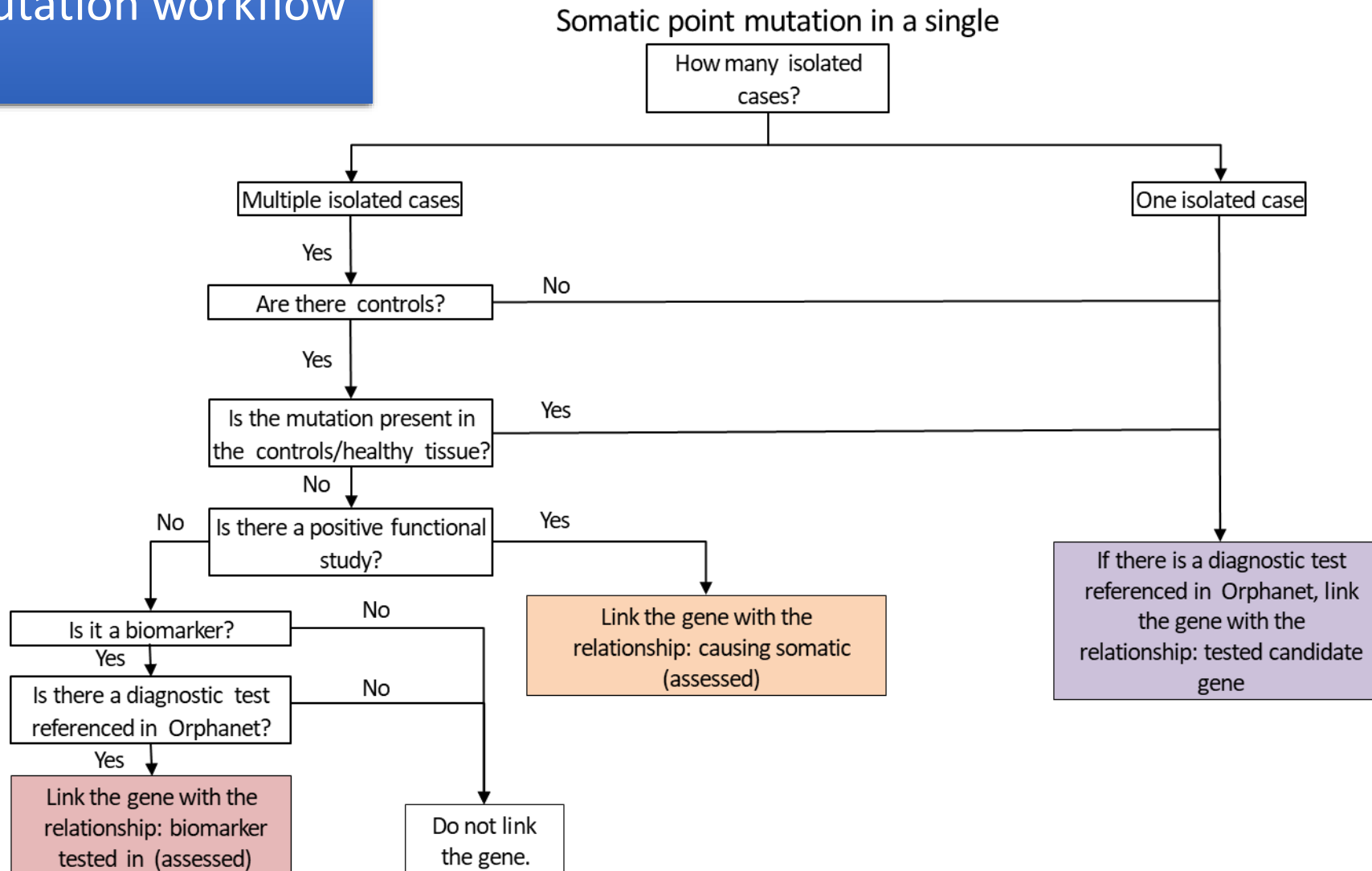
Germline point mutation workflow



WP4. Orphanet content: gene-disease database



Somatic mutation workflow





OD4RD/OD4RD2 gene database activity

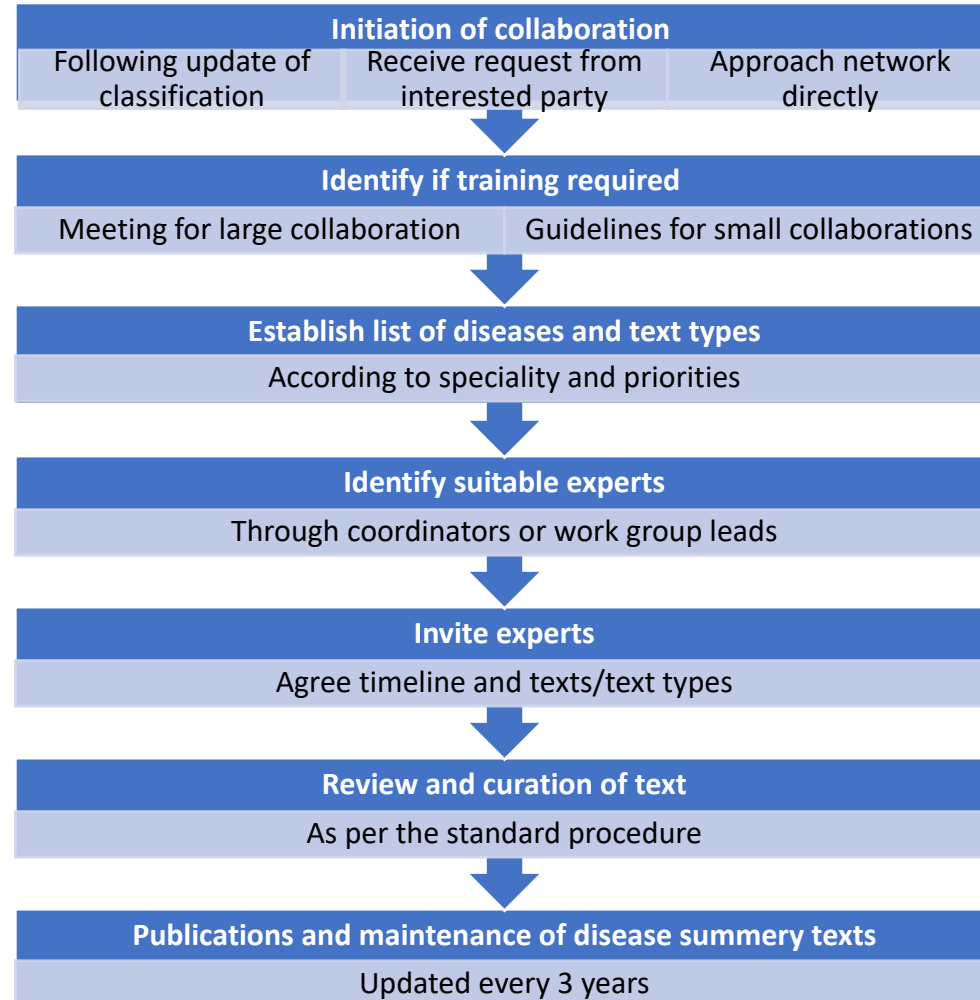
- Since Feb 2022 to July 2025

Indicator	Number of corresponding associations
New genes or genes-disease associations	895
Modifications of gene-disease associations	61
Gene-disease associations suppressions	672
Total = new or updated gene-disease associations	1628

WP4. Orphanet content: definitions and abstracts



Workflow for collaboration with experts & expert networks





Current status of ERN-Orphanet professional encyclopedia collaboration

■ Since Feb 2022 to July 2025

ERN	Number of text produced	ERN	Number of text produced
Endo-ERN	36	ERN-EuroBloodNet	28
EpiCARE	10	eUROGEN	3
ERKNet	13	ERN-EURO-NMD	19
ERN-CRANIO	18	ERN-ITHACA	43
ERN-RITA	7	MetabERN	36
ERN-BOND	4	VASCERN	11
ERN-EYE	3	Texts co-signed by inter-ERN-collaboration	
ERN-ERNICA	4	Endo-ERN & ERN-BOND	1
ERN-LUNG	2	eEUROGEN & ERN-ITHACA	4
ERN-RND	1	ERN-ITHACA & ERN-CRANIO	2
ERN-SKIN	25		
EURACAN	7	TOTAL number of texts	277 (with 18 ERNs)

WP4. Support the ERN governance



- Update the [quantitative RD coverage](#) analysis
- Perform a [qualitative RD coverage](#) analysis
 - Per country
 - To support patients' [healthcare pathways](#) understanding and design
 - To [map further expertise](#) needed to increase RD coverage
- Contribute to the ERN governance discussions and decisions
- To co-develop user-friendly tool for EC to keep RD coverage mapping up-to-date
 - Understand the needs
 - Specify the tool in collaboration with DG Santé IT colleagues
 - Implement data workflows





Lunch time



Thank you & please answer the survey ;)





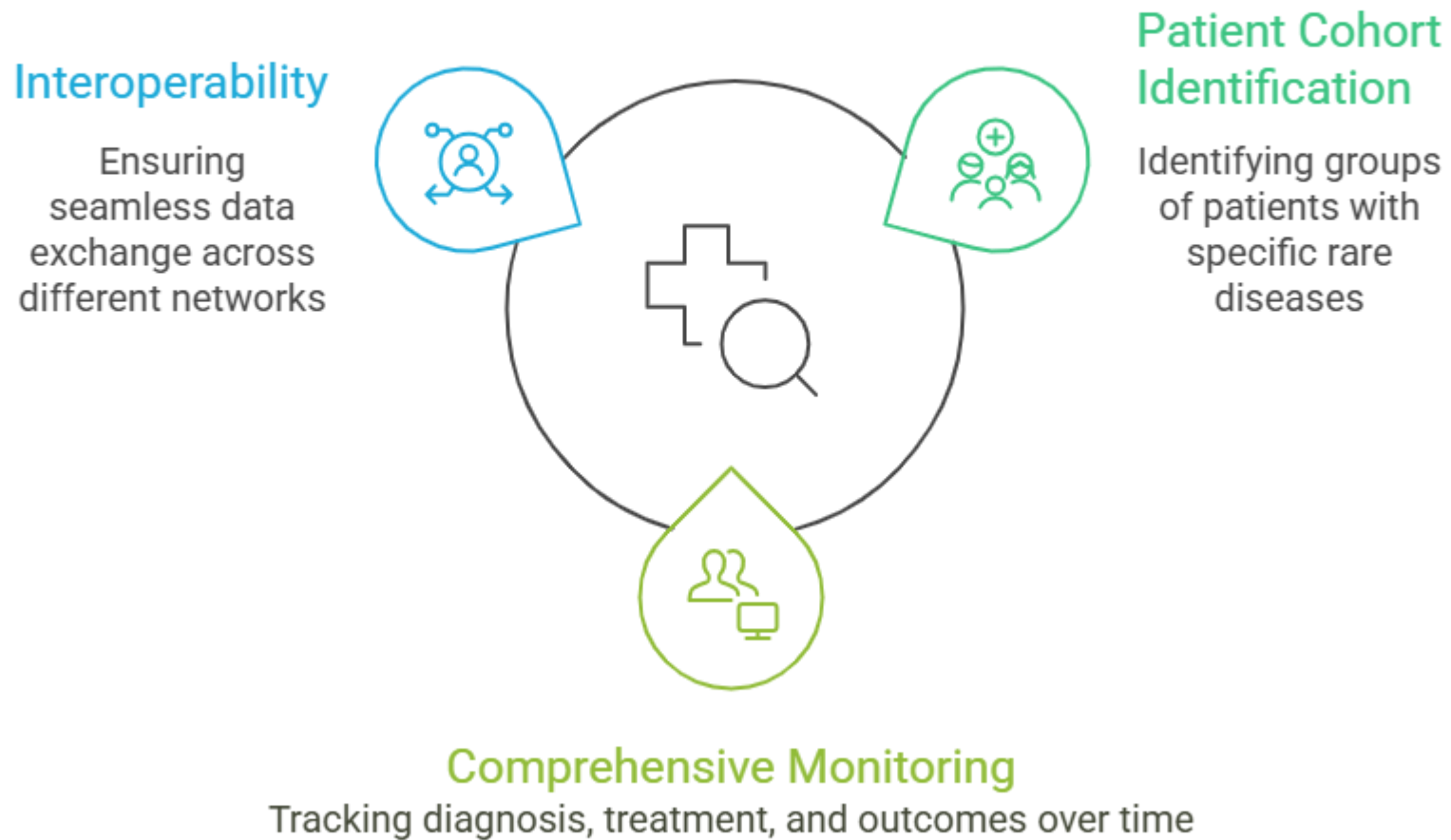
ANNUAL MEETING
Rare Diseases: how to
be

Paris, November
Announcers: Seed
and Dr. De Carvalho

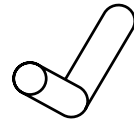
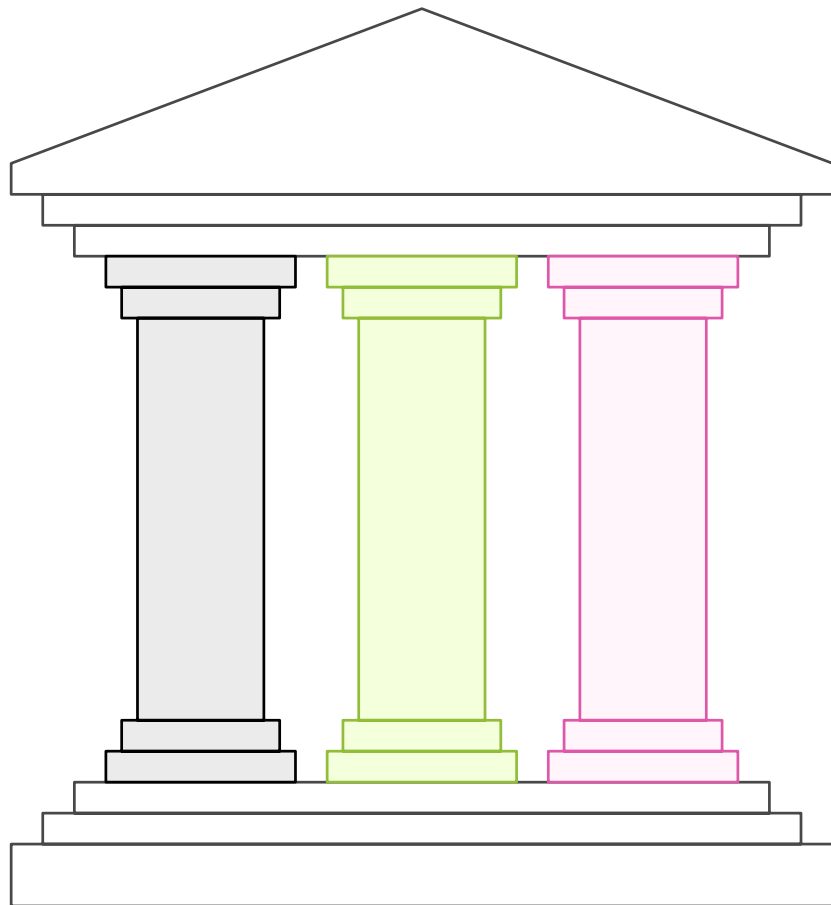


OD4RD
Orphanet Data For Rare Diseases

Registries: a useful set of data



Registries: Pillar of the ERN needs



FAIR Principles

Ensures data quality and usability through findability, accessibility, interoperability, and reusability.



Common Data Elements

Facilitates interoperability by sharing standardized data elements across registries.



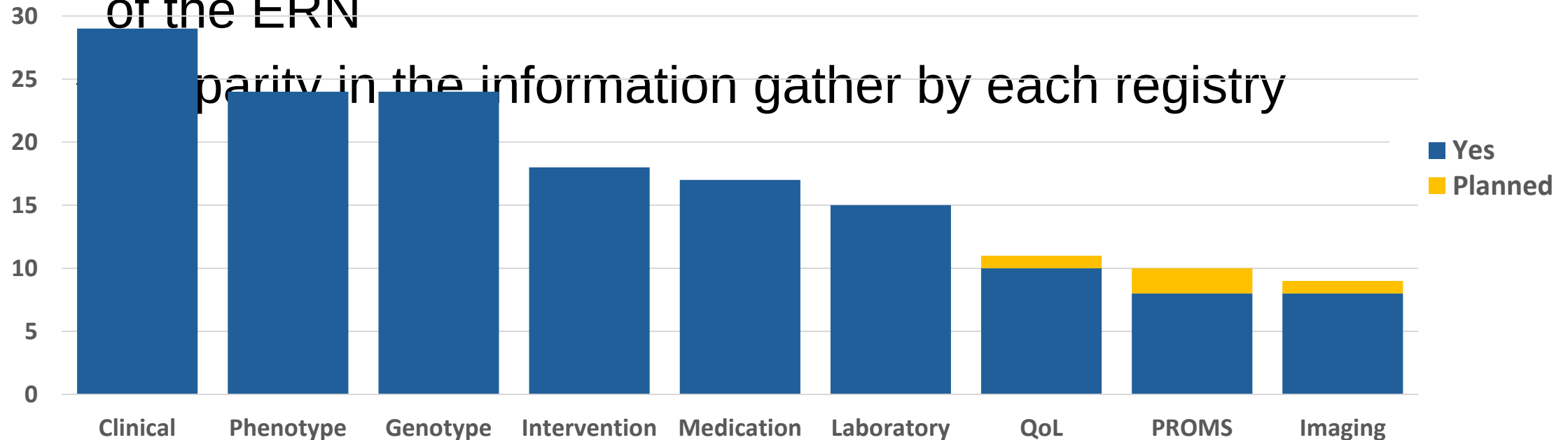
ERN-Specific Data Elements

Tailors data to specific clinical expertise areas, enhancing relevance and precision.

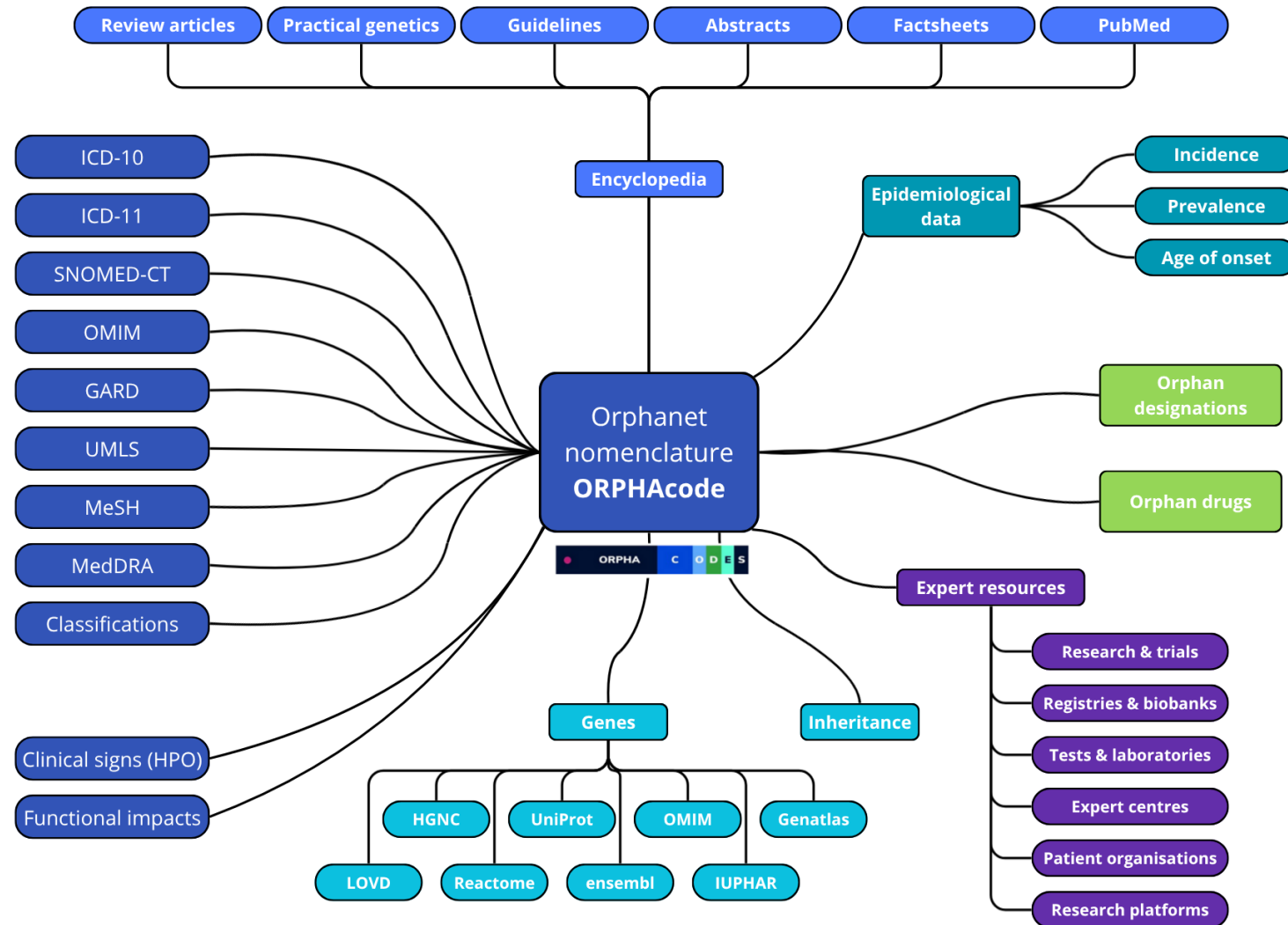
ERN Registries: State-of-the-art

- ❖ 29 registries for 24 ERNs with several ERNs with disease-specific registries

- ❖ Disparity in the number of centers participating depending of the ERN



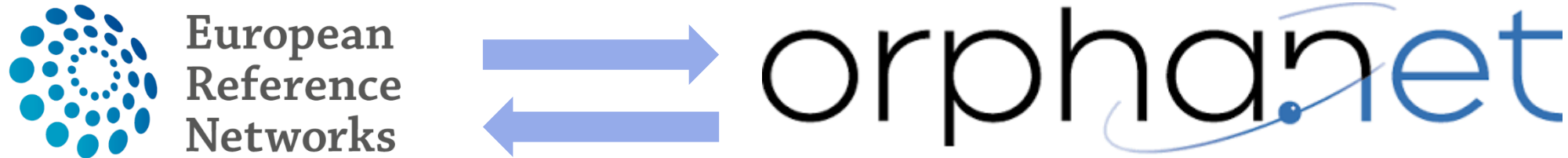
Orphanet datasets



Round table



Round table



- ❖ What specific support or resources can Orphanet offer to improve coding practices and coding guidelines in the registries?
- ❖ What are your registries main challenges and needs related to the exploitation of Orphanet data?
- ❖ How can Orphanet help turn registry data into shareable knowledge about rare diseases?

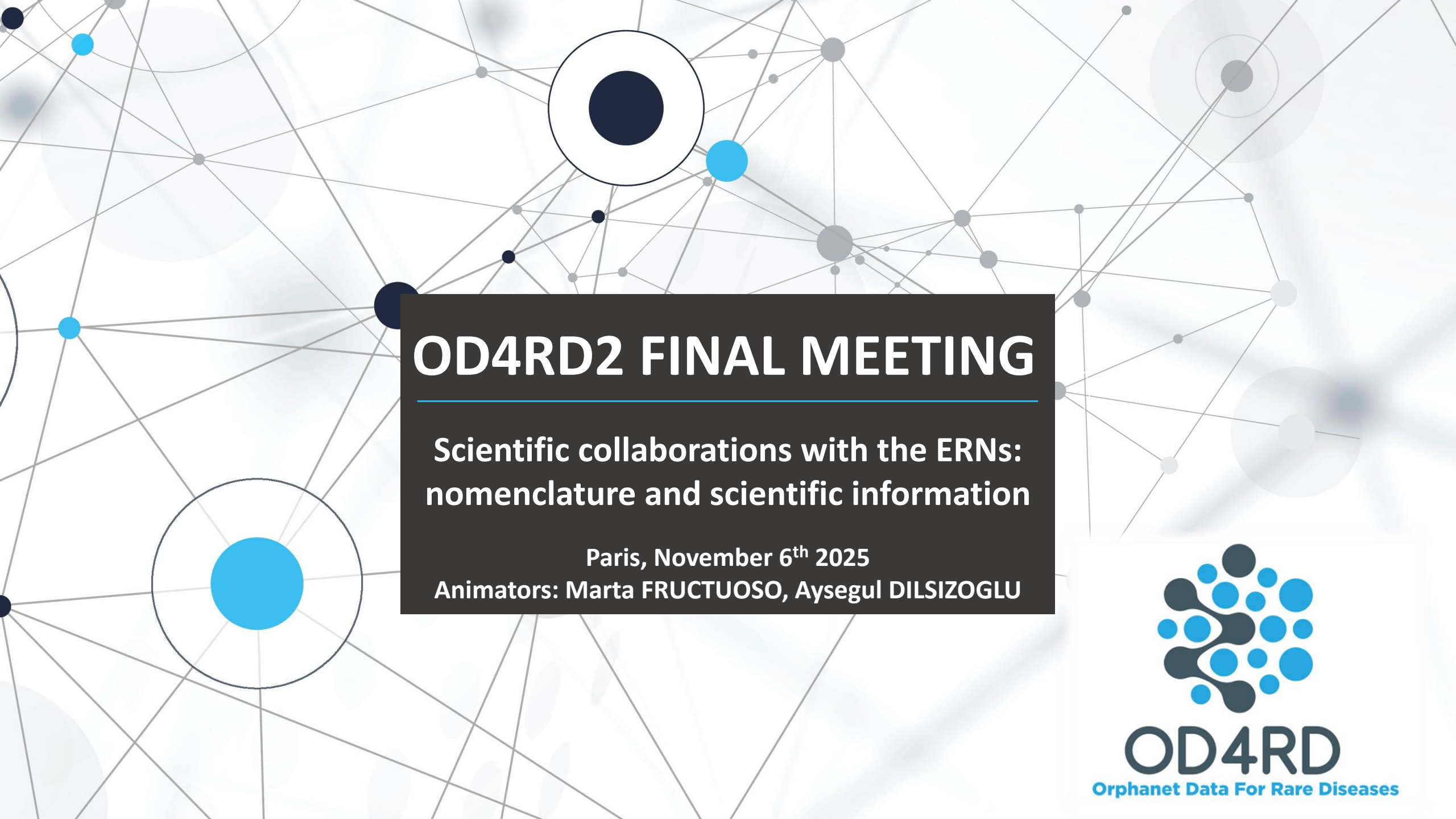
The background of the slide is a complex network diagram. It consists of numerous nodes of varying sizes, some colored in dark blue, light blue, and grey, connected by a web of thin grey lines. Some nodes are highlighted with larger, concentric circles. The overall aesthetic is clean and modern, suggesting a digital or scientific theme.

Thank you for participating!



OD4RD

Orphanet Data For Rare Diseases



OD4RD2 FINAL MEETING

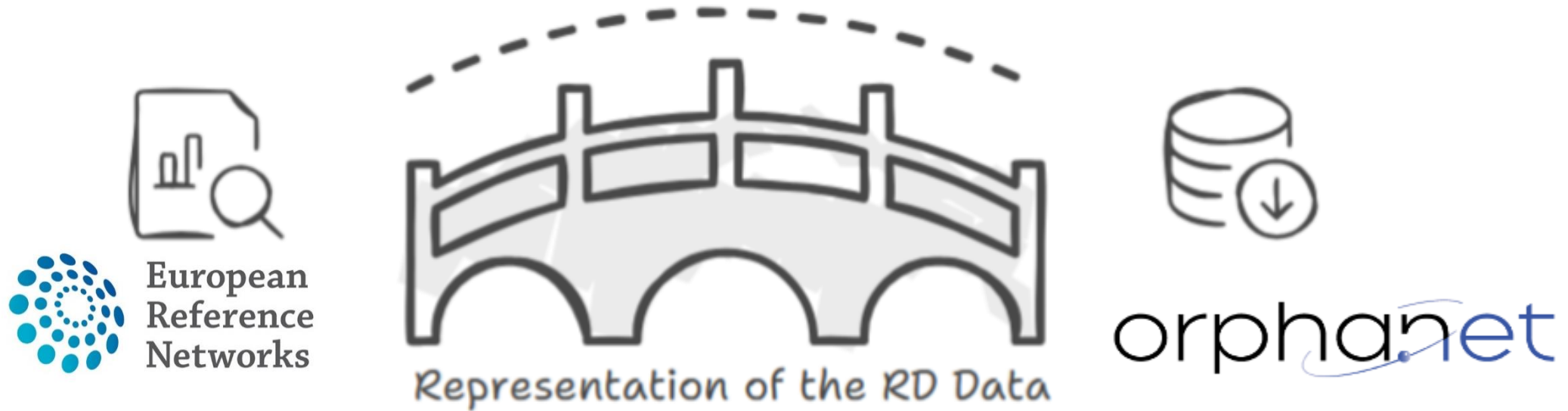
**Scientific collaborations with the ERNs:
nomenclature and scientific information**

Paris, November 6th 2025

Animators: Marta FRUCTUOSO, Aysegul DILSIZOGLU



Orphanet and ERN collaboration improves high quality RD data availability



Scientific and clinical

- Clinicians' needs
- Accuracy of the data
- Coding coverage
- Updated terminology

Standardized database

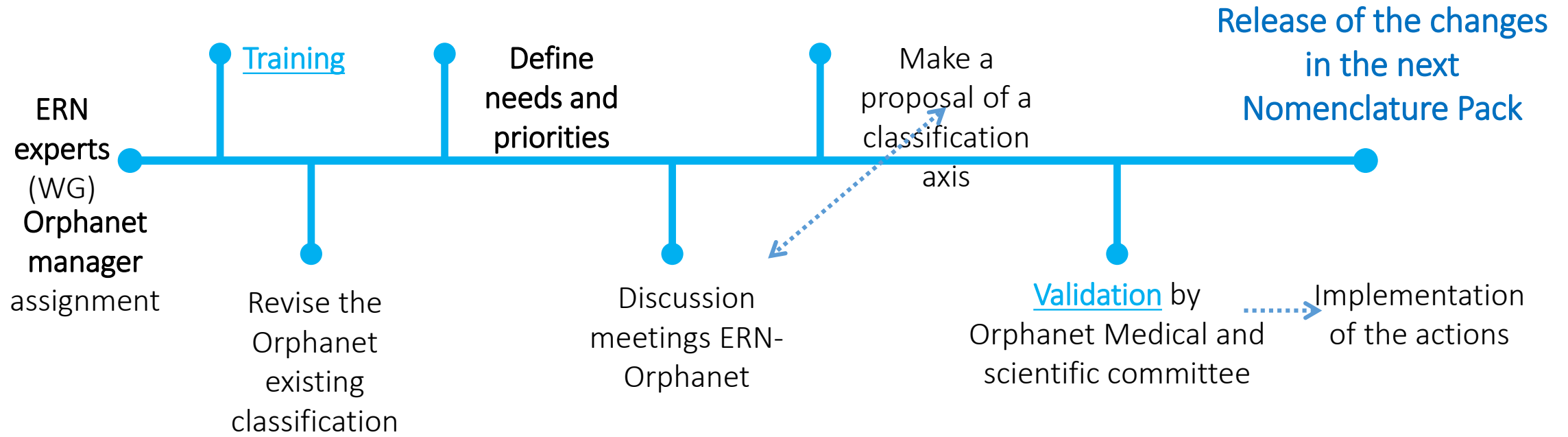
- High-quality, interoperable nomenclature
- Inter and intra-classification consistency
- Transpose RD information

• Orphanet and ERN collaboration steps



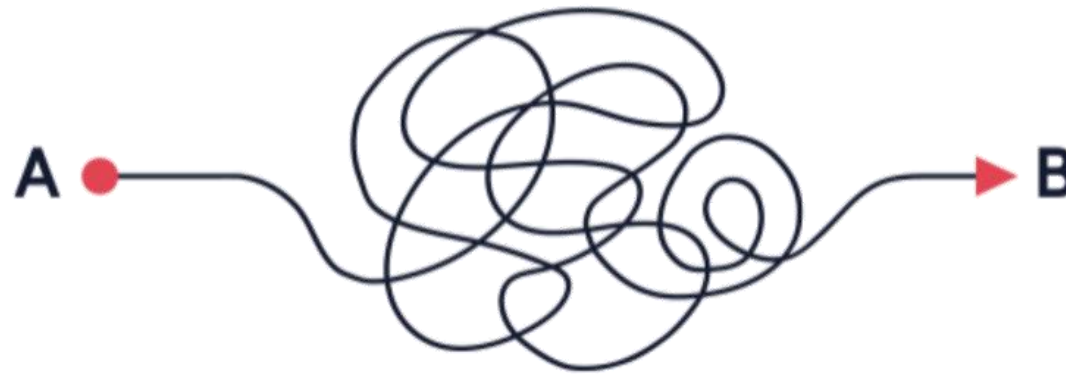
- To achieve the goal...

Expectation

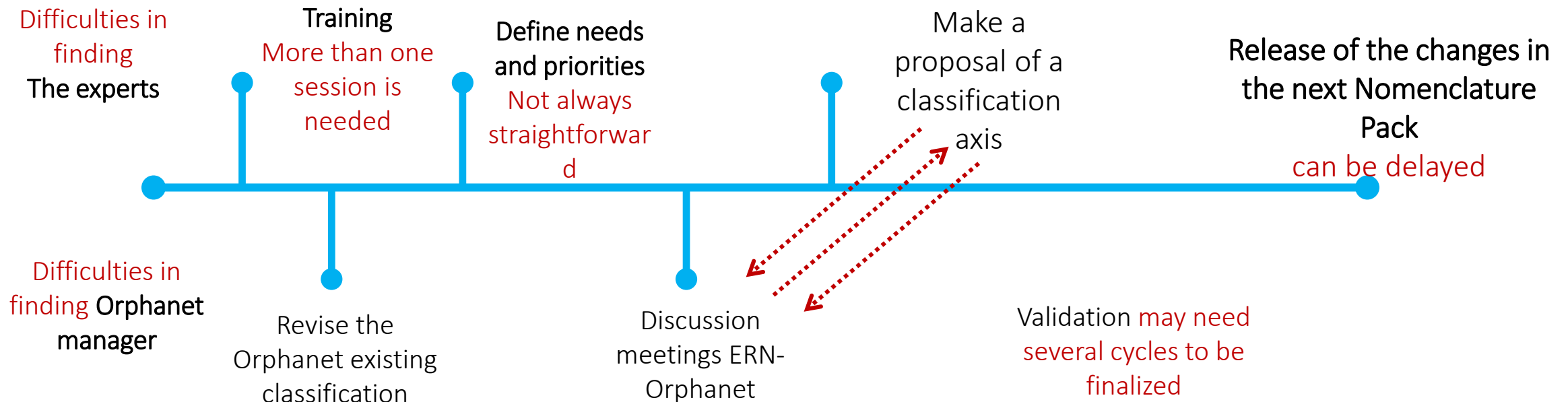


- ... progress isn't linear

Reality

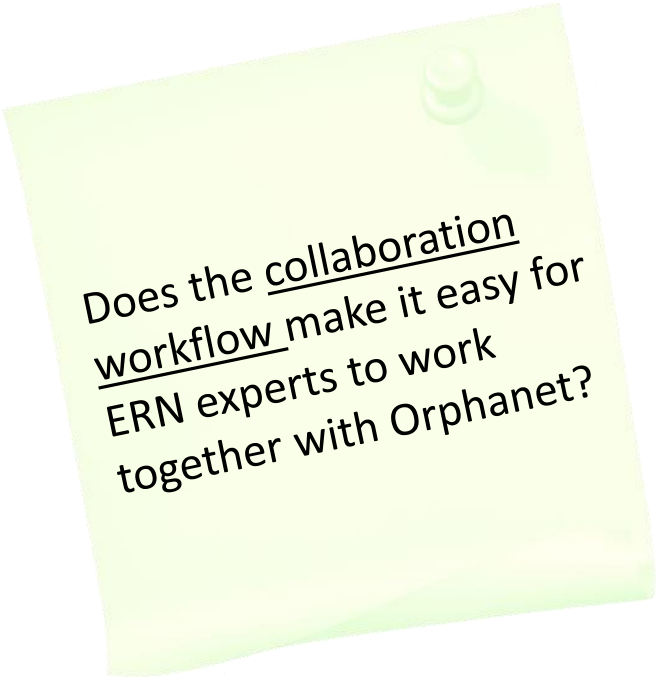


Sometimes, the final completion of the project may take longer than planned



Break-out session

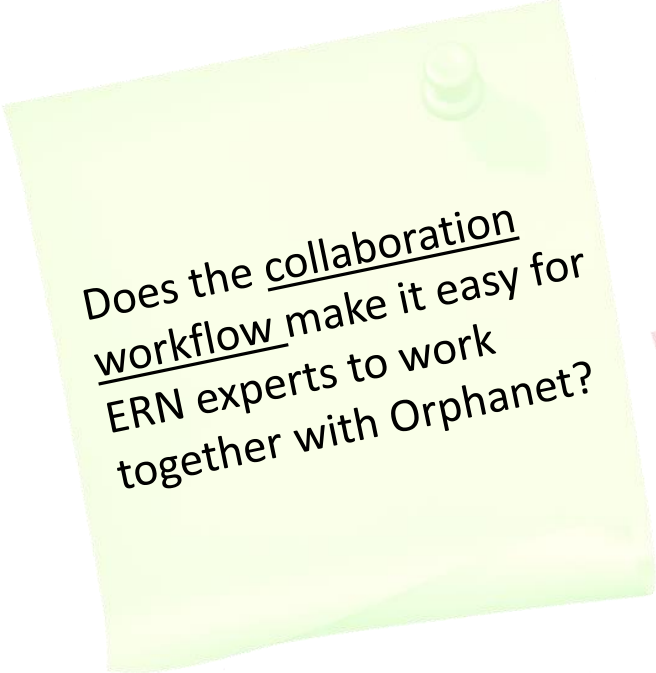
Round table



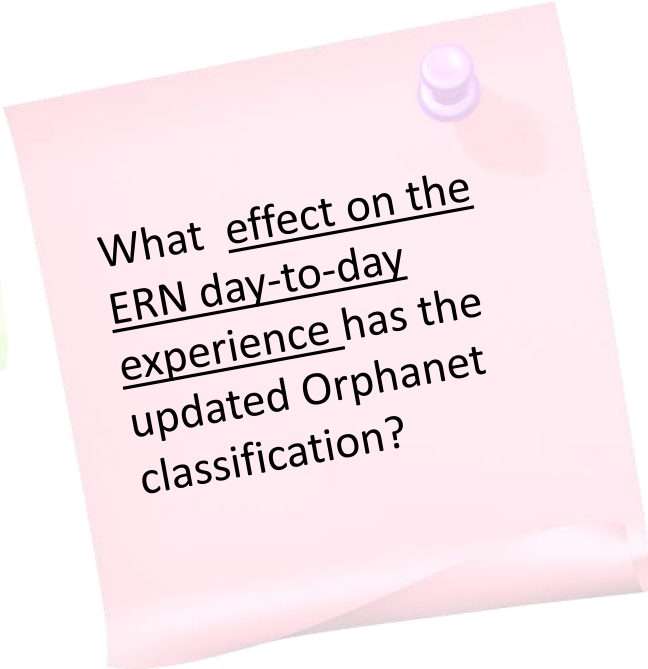
Does the collaboration workflow make it easy for ERN experts to work together with Orphanet?

Break-out session

Round table



Does the collaboration workflow make it easy for ERN experts to work together with Orphanet?



What effect on the ERN day-to-day experience has the updated Orphanet classification?

Break-out session

Round table

Does the collaboration workflow make it easy for ERN experts to work together with Orphanet?

What effect on the ERN day-to-day experience has the updated Orphanet classification?

Do the Orphanet rules allow enough flexibility to take into account the reality of the clinical settings?

Break-out session

Round table

Does the collaboration workflow make it easy for ERN experts to work together with Orphanet?

What effect on the ERN day-to-day experience has the updated Orphanet classification?

Do the Orphanet rules allow enough flexibility to take into account the reality of the clinical settings?



Break-out session

Round table

- What changes do you think should be made to make the collaborative process better?

 3 / 3  3

It's already very good Face to face meetings better if it's a complex area eg spina bifida

Again, budget to allow for some in person meetings for large scales revisions would be saving a lot of time and effort from everyone involved

To have a clear contact person for orphanet related matters in each ERN. Disseminate workflow, some ERNs don't know about it or at least it's not at the top Of their heads

Break-out session

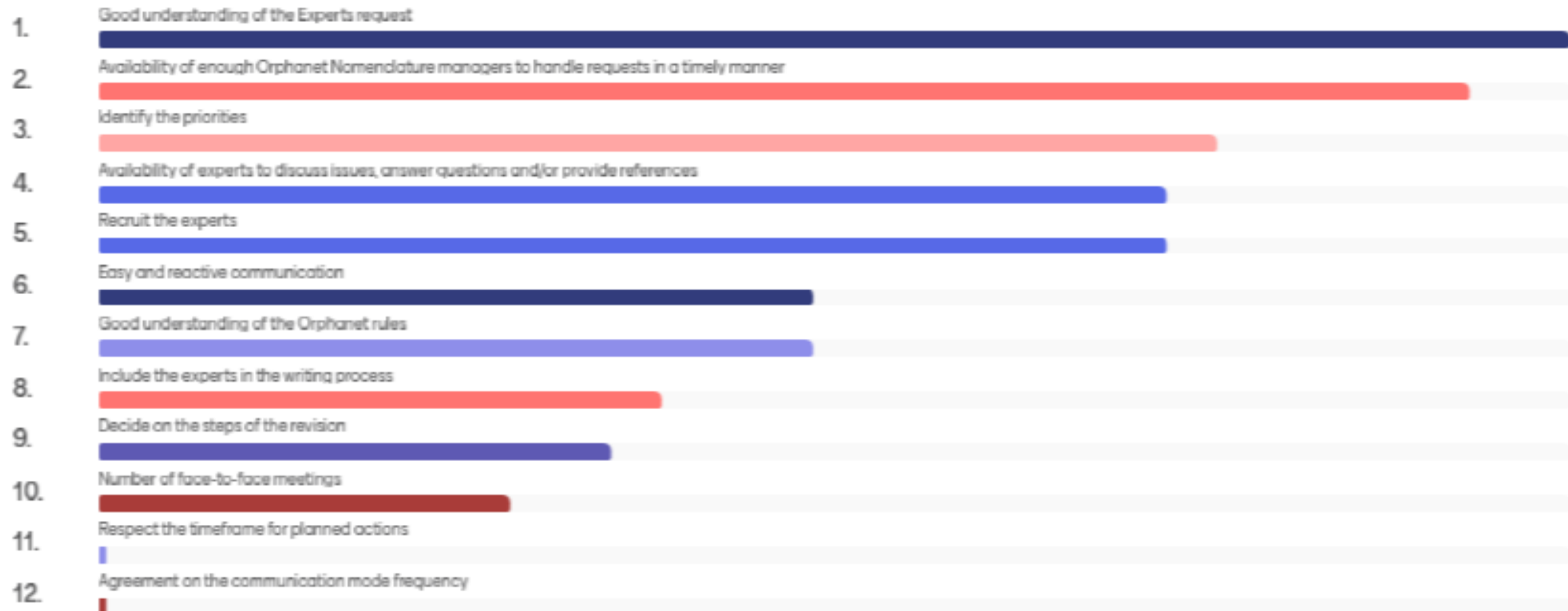
Select the key steps for a succesful collaboration

1. Availability of experts to discuss issues, answer questions and/or provide references
2. Availability of enough Orphanet Nomenclature managers to handle requests in a timely manner
3. Easy and reactive communication
4. Respect the timeframe for planned actions
5. Agreement on the communication mode frequency
6. Identify the priorities
7. Decide on the steps of the revision
8. Recruit the experts
9. Include the experts in the writing process
10. Good understanding of the Experts request
11. Good understanding of the Orphanet rules
12. Number of face-to-face meetings



Break-out session

Select the key steps for the straightforward revision of the RD nomenclature with ERNs



Break-out session



Select the key steps for the straightforward revision of the RD nomenclature with ERNs

3 / 3

> 1 Good understanding of the Experts request

> 2 Availability of enough Orphanet Nomenclature managers to handle requests in a timely manner

> 3 Identify the priorities

> 4 Availability of experts to discuss issues, answer questions and/or provide references

> 4 Recruit the experts

> 5 Easy and reactive communication

> 5 Good understanding of the Orphanet rules

Break-out session

> 5 Good understanding of the Orphanet rules

> 6 Include the experts in the writing process

> 7 Decide on the steps of the revision

> 8 Number of face-to-face meetings

> 9 Respect the timeframe for planned actions

> 9 Agreement on the communication mode frequency

key steps

Conclusion

This is a **collaborative project**, and **bidirectional** at every step:
there is an ERN counterpart and an Orphanet counterpart

Orphanet Scientific collaborations with the ERNs:

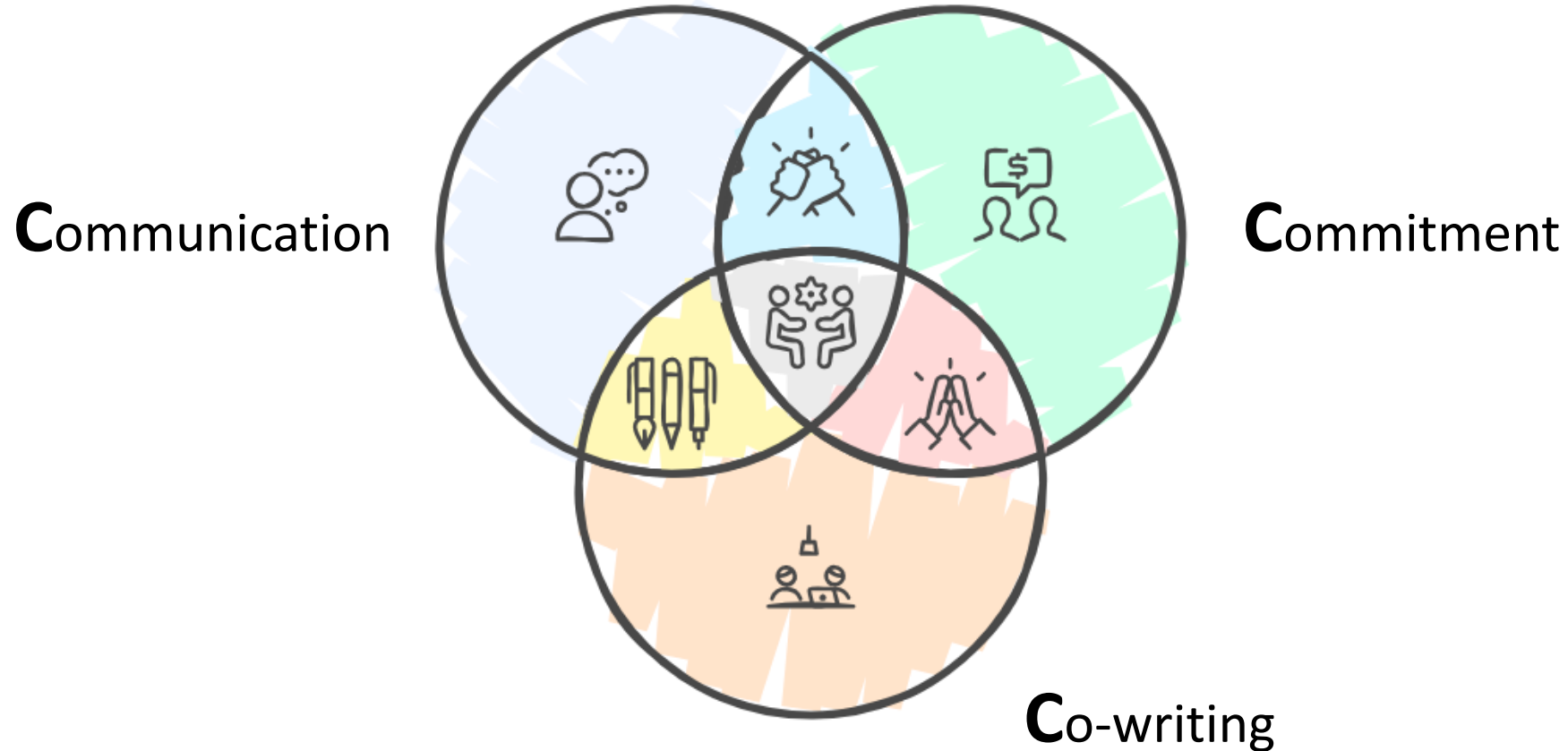
The four main points to respect are:

- ✓ Training on the Orphanet standards
- ✓ Fluid and frequent exchanges
- ✓ Engagement in accomplishing the delays
- ✓ Flexibility to apply/accept the most suitable actions

Common limitations observed:

- X Number of people involved
- X Fluid communication
- X Intrinsic time constraints due to Orphanet validation cycles and the high volume of demands to treat

Orphanet Scientific collaborations with the ERNs:



Orphanet and ERN collaborations are **Co-Constructive projects**

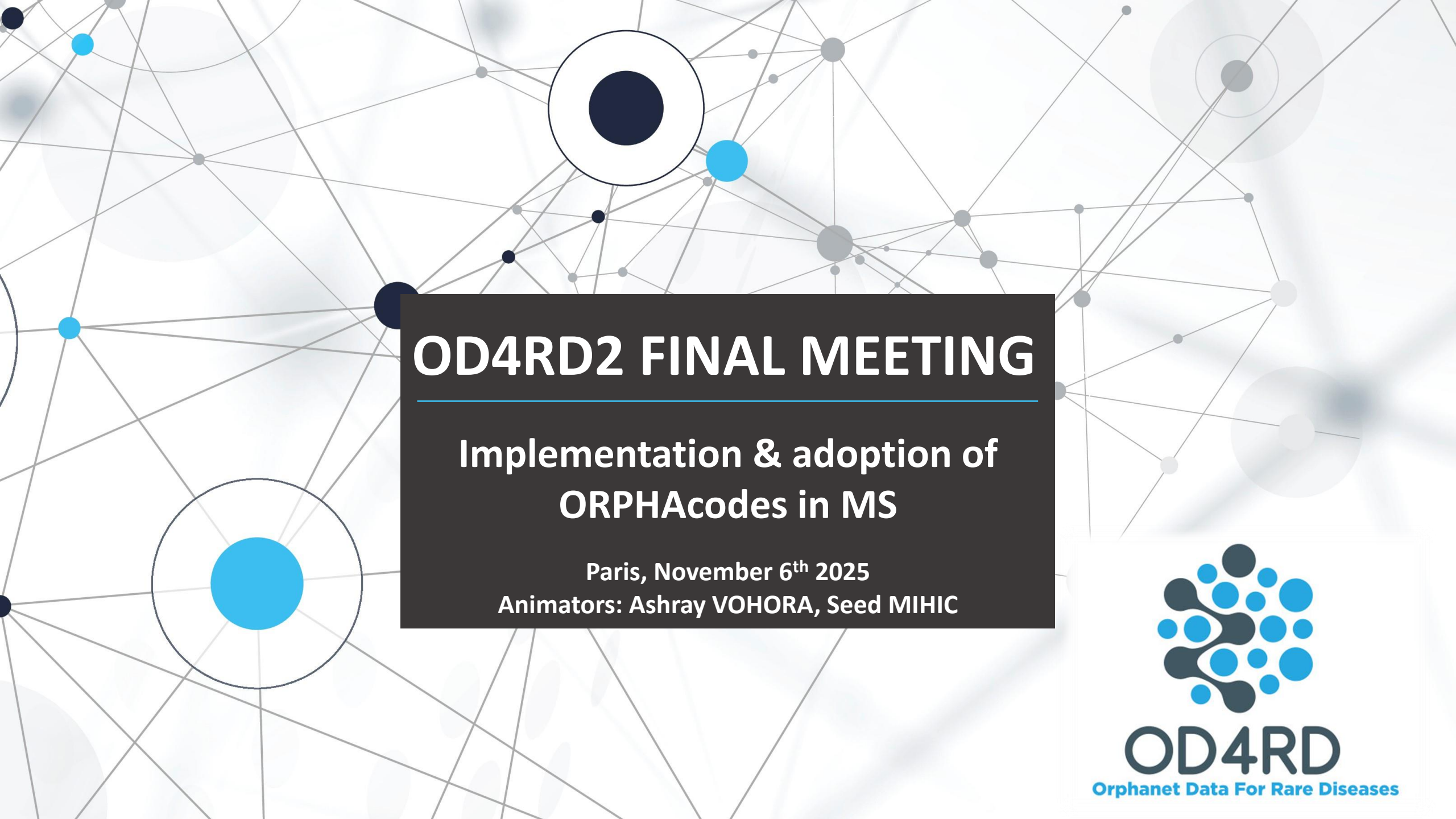
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Thank you for participating!



OD4RD

Orphanet Data For Rare Diseases



OD4RD2 FINAL MEETING

Implementation & adoption of ORPHAcodes in MS

Paris, November 6th 2025
Animators: Ashray VOHORA, Seed MIHIC



Rare diseases are not visible when using generic terminologies only

Underrepresented

ICD-10: ~83% of RD do not have any code*
ICD-11: ~39% of RD do not have any code*
SNOMED CT: 6% of RD do not have any code*
None of these terminologies have a code for the patients
in a diagnostic dead-end/undiagnosed RD patients



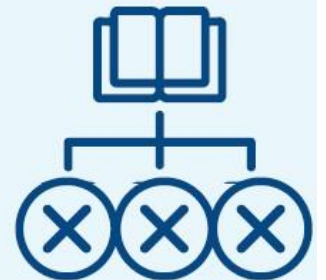
Imprecise

ICD-10: 93% of RD do not have a PRECISE code*
ICD-11: 84% of RD do not have a PRECISE code*
SNOMED CT: 6% of RD do not have a PRECISE code*



Not classified as "rare"

RD are "lost" amongst common diseases
Generic terminologies are not exploitable for RD-
specific statistics



WHY ORPHAcoding

https://od4rd.eu/communication-material/WHY%20ORPHAcoding%20vs%20Other%20Terminologies_VF.pdf

Benefits of ORPHAcoding



Using ORPHAcodes ensures visibility of rare diseases in health data

This visibility helps:

- facilitate the primary and secondary use of RD data
- adequate cross-border care
- equity in healthcare access
- epidemiological monitoring and better understanding of disease burden



ORPHAcodes also enable interoperability



Recognised as best practice by the European Commission since 2017

Recommended in the 78th WHA resolution on RD

State of play across Member States

Heterogeneous

- **Implementation:** some MS have national frameworks or legal mandates for ORPHAcode use
- **ORPHAcode usage:** some use primary coding with ORPHAcodes, while others rely mainly on transcoding from other terminologies, which limits consistency

ORPHAcodes implementation in Hospital EHR

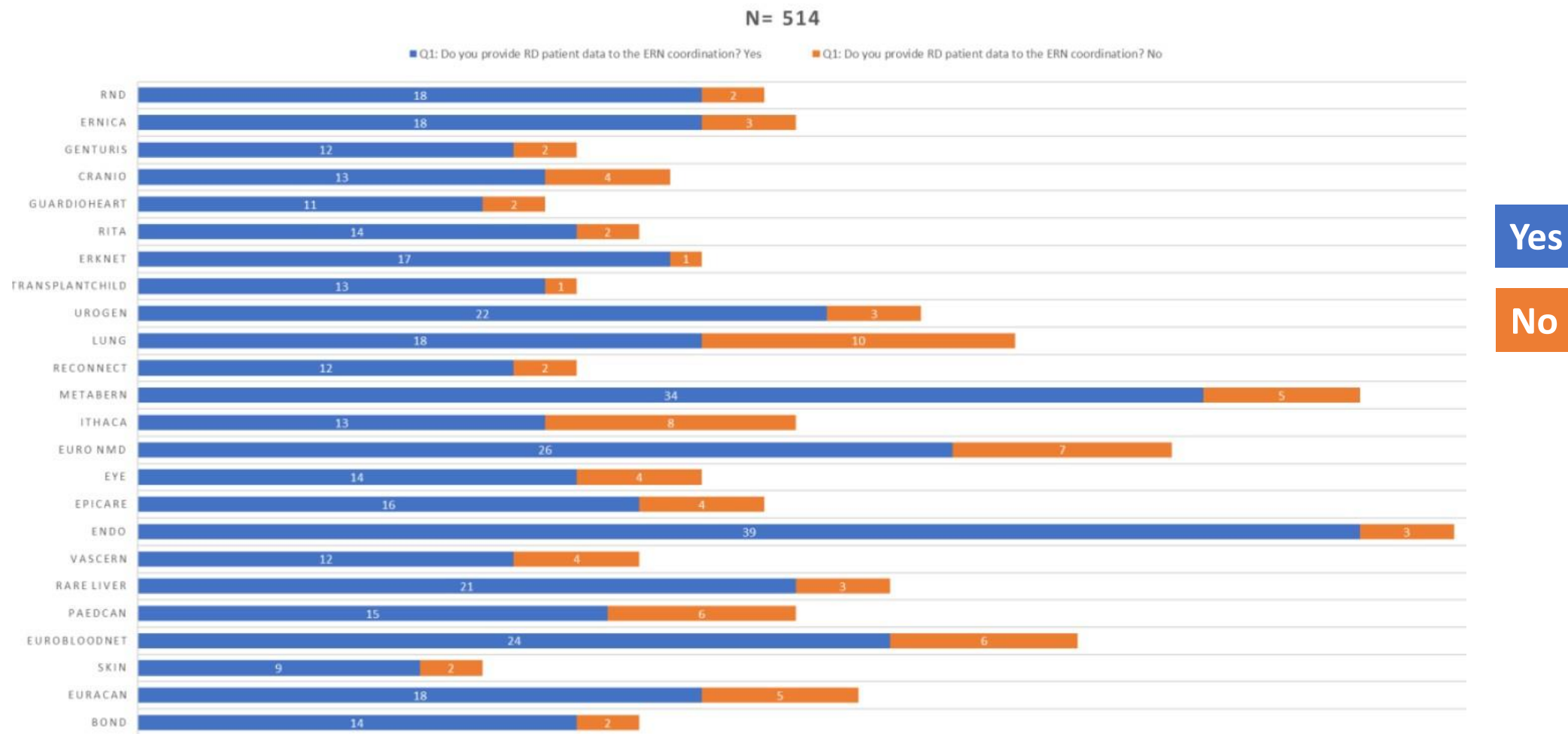
- National Implementation in all Hospitals
- National Implementation RD Centres
- National Implementation RD Centres 2026
- Implementation in ERN centres
- Local Implementation in some Hospitals
- No implementation



Created with mapchart.net

ORPHAcodes implementation in EHRs of hospitals or RD centres

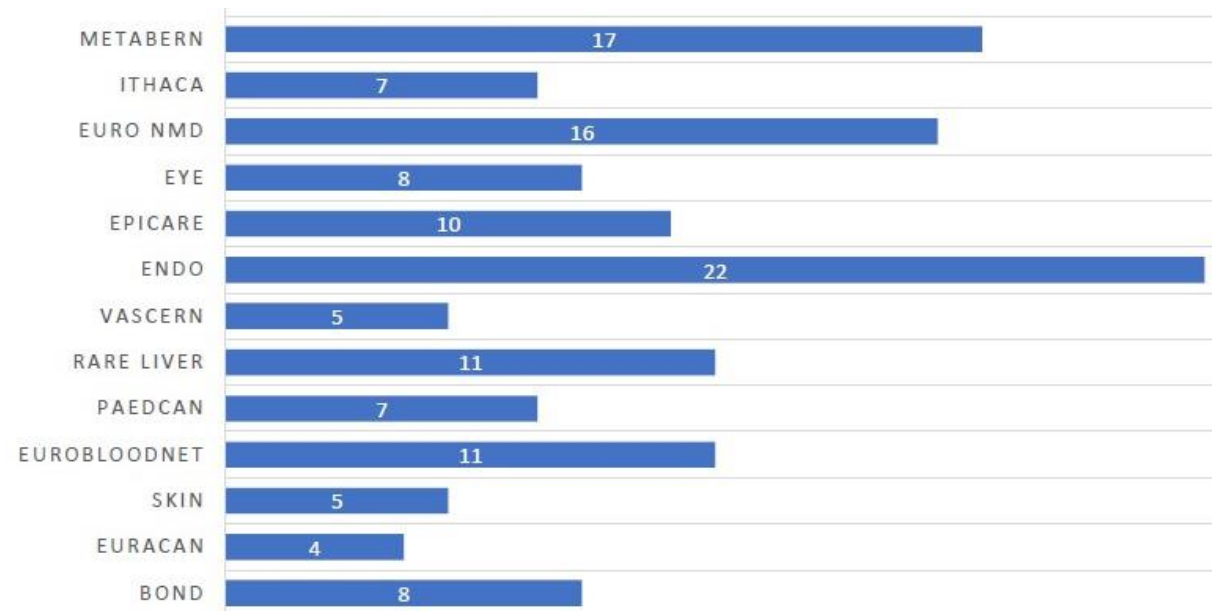
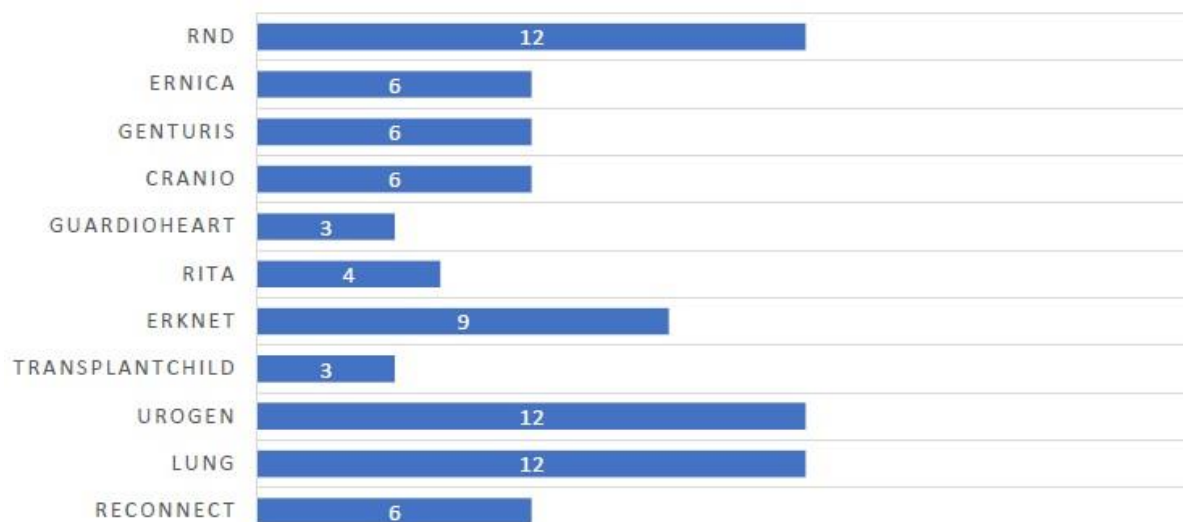
Do you provide RD patient data to ERN coordination?



What codification system do you use for what purpose: pooled answers “ORPHAcodes” and “ORPHAcodes coupled with another system”

N=210

■ Q2: What codification system do you use for that purpose? OC (OC + coupled with another)



OBJECTIVE of the workshop session

What can OD4RD and ERNs do to increase ORPHAcode adoption and implementation, to ensure that RD patients are visible across healthcare systems and that consistent, high-quality information is collected across Europe?

mentimeter



Round table

1. What can ERNs do for advocacy in their network to support the implementation and adoption of ORPHAcodes, on a national and local (hospital) level?
2. What can OD4RD do to support the ERN networks in this mission?
3. Please briefly explain the state of play in your network - share success stories or troubles to be addressed
4. For those that have not implemented ORPHAcodes - why? Can OD4RD help you to change this?

Take-home message

ORPHAcodes are recognised as the best practice for coding RD patients and as a policy priority. The focus should now shift from recognition to consistent implementation and exploitation, thereby ensuring that every person living with RD is visible in data and care pathways.

The background of the slide is a complex network diagram. It consists of numerous nodes of varying sizes, some colored in dark blue, light blue, and grey, connected by a web of thin grey lines. Some nodes are highlighted with larger, semi-transparent circles of the same color. The overall aesthetic is clean and modern, suggesting a digital or scientific theme.

Thank you for participating!



OD4RD

Orphanet Data For Rare Diseases



ANNUAL MEETING
European Orphan
Network
ERM
Paris, November
Announcers: Cater



CODING GUIDELINES FOR RD

> Why ORPHAcodes?



To ensure ALL RARE DISEASES are visible in Health information System

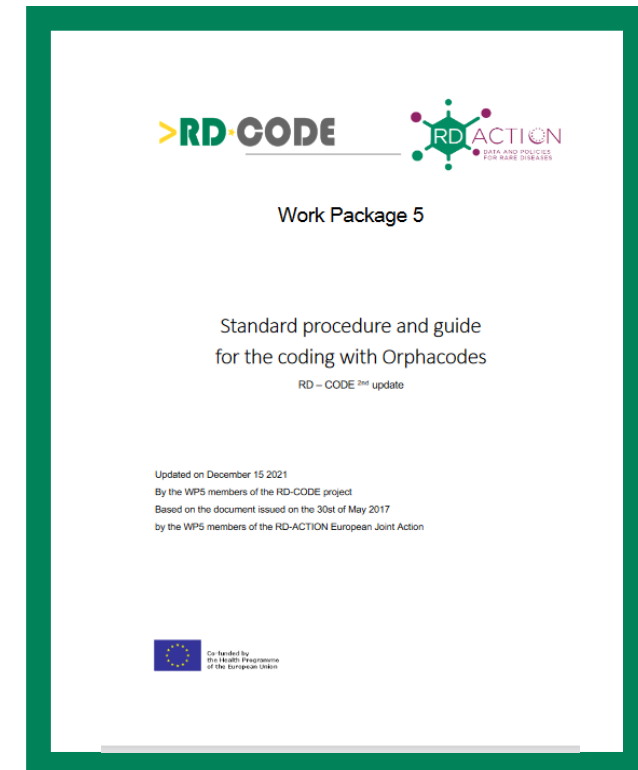
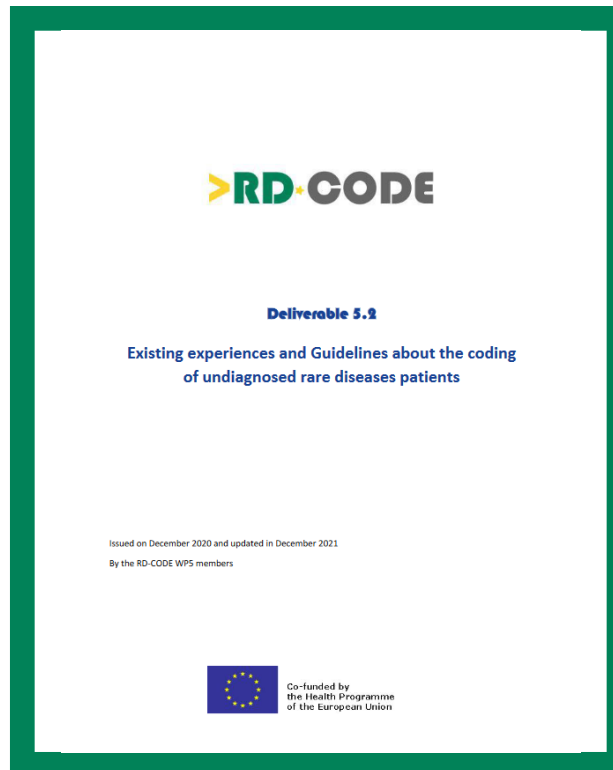
To allow RD data to be interoperable among hospitals, regions, and countries.

To answer a range of public health and research questions and make evidence-based decisions

- ❖ **Coding guidelines** are a set of rules and best practices for translating clinical documentation into standardized diagnosis **codes**, so data are accurate for reimbursement, quality metrics, epidemiology, etc...
- ❖ **Why standardizing coding guidelines matters:** accuracy, legal compliance, fair reimbursement, comparable data at European level, etc...
- ❖ **Benefits of harmonized ORPHAcodes coding guidelines:** European consistency, better clinical and research data, stronger ERN visibility, increased trust in ORPHAcodification.

CODING GUIDELINES

> RD-CODE Guidelines



CODING GUIDELINES

Several **tools and strategies** could be set at MS level to produce data or statistics for RD, nevertheless each country should set this strategy accordingly to a standard principle of **maximising exhaustiveness as well as possible to re-use of existing data collections**

I

Code the data in a way that the reporting can **compile to the granularity of the international recommended list of ORPHAcodes** ('Masterfile'-granularity). If no further national needs for reporting are necessary, use the codes from the 'master file' directly

II

Whenever possible **capture the information of the diagnostic assertion for all RD cases**. Use the options: 'Suspected RD', 'Confirmed RD' and 'Undertermined diagnosis'. Additional options might be helpful

III

Update your coding resource according to the internationally agreed cycle annually in order to have the most recent coding file and to ensure comparability

IV

Keep track, for each patient file, of the different ORPHAcodes and associated versions that were used to describe the patient's diagnostic pathway

V

If ORPHAcodes are used together with another national coding system for morbidity coding, the two systems should be linked in a **standardized way** to ensure that code combinations are standardized and the coding effort for the user is minimized

VI

CODING TRAININGS AND RESOURCES: training modules

PRESENTATIONS

> Why ORPHAcodes?

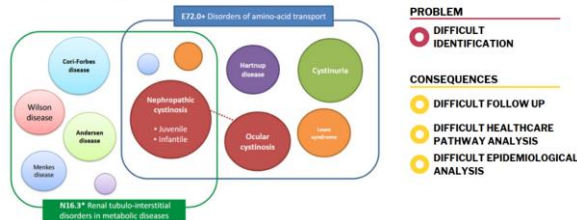


To ensure ALL RARE DISEASES are visible in Health information System

To allow RD data to be interoperable among hospitals, regions, and countries.

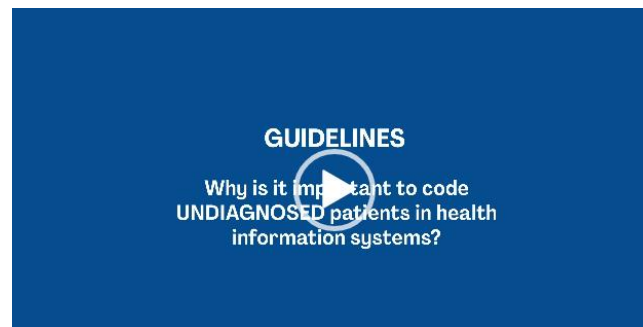
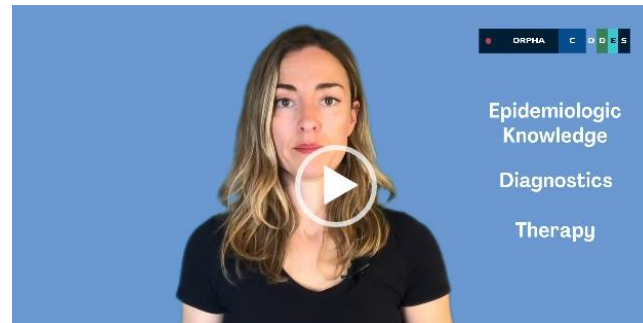
To answer a range of public health and research questions and make evidence-based decisions

> Diagnosis of Infantile Nephropathic Cystinosis in the ICD-10 nomenclature



[ORPHA Coding – RD-CODE](#)

VIDEOS



[Orphanet - YouTube](#)

E-LEARNING

[ORPHAcodes for rare diseases - Sjelden](#)

CODING TRAININGS AND RESOURCES: OD4RD trainings

USE CASE: CLINICAL MANIFESTATION OF A MAIN DIAGNOSIS (1)



Example: a patient with Classical-like E also presents with mitral valve prolapse

- Cardiac abnormalities such as MVP are Danlos syndrome
- Coding with MVP would imply a « part
- 2 ORPHACodes would exist for the same next example)

/!\ However, clinicians might need to indicate management and statistical analysis

Solution: Use the patient's main diagnostic descriptive field if available

* in this case ICD-10 code as the standard code

USE CASE: CODING AFTER ORPHACODES INACTIVATION (2)



Example: Coding issue addressed to the Orpha 'A national expert centre contacted us because of puberty (CPP). Considering that ORPHA:759 'Central precocious puberty' have been suggest to the physician to use the ORPHA:615 'Idiopathic CPP' though the patient has not been genetically tested. Moreover, in our country the CPP is considered rare.

Solution: Despite the recent nomenclature change, ORPHACodes, it is not recommended to use an ORPHACode description. The mention "genetic" implies that this ORPHACode must be used only if there is a genetic etiology suspicion.

- If there is a genetic etiology suspicion: use ORPHA:615
- If there is no genetic testing confirmed: use ORPHA:759

USE CASE: A PATIENT WITH TWO CO-EXISTING MAIN DIAGNOSES (4)



Example: a patient in a consanguineous family (SLC34A3 mutation) ORPHA:1572 ORPHA:598. One of his siblings has been diagnosed only with Multi

/!\ This is a case of a joint occurrence

Solution: Use both ORPHACodes in the diagnosis observation

USE CASE: USE OF ORPHACODES BELONGING TO A GROUP OF DISORDERS (5)



Example:

- ✓ ☒ Non confirmed diagnosis [diagnosis assertion option available in the system]
- ✓ ☒ National official requirements
- ✗ ☐ Insufficient knowledge of the classification system by the user

CODING TRAININGS AND RESOURCES: OD4RD helpdesk

The image displays three overlapping screenshots of the OD4RD Main-Help-Desk GitHub repository. The top-left screenshot shows the repository's main page with the README file selected. The top-right screenshot shows the 'Issues' tab, listing various open issues related to ORPHA coding, such as 'Request for advice to code "Low-grade fibromyxoid sarcoma"', 'Synonym for Solitary bone cyst (ORPHA:83468)', and 'New sub-type for Rothmund-Thomson syndrome (ORPHA:2909)'. The bottom-right screenshot shows the 'Wiki' page, titled 'Home', which provides a structured overview of the project's goals and resources, including a list of topics like 'ORPHAcodes and Nomenclature', 'Orphanet classification', and 'Guidance documents for ORPHAcoding implementation and exploitation'.

<https://github.com/OD4RD/Main-Help-Desk>

CODING COMPLEX CASES

Coding of patients with both structural and numeric genetic abnormalities #330



OrphanetSweden opened on Feb 20

Dear colleagues!

We were hoping you could offer some guidance on how to ORPHAcode patients with deletion-duplication syndromes as well as offer some clarity on coding patients with either deletion or duplications. In most instances the Orphanet nomenclature seems to be organized by grouping disorders first by if they are caused by deletion OR duplication. For instance in the group ORPHA:98142 Partial autosomal deletion and its children which consist of a designated group for each relevant chromosome.

How should a patient with a del/dup rearrangement be coded, especially if both rearrangements are deemed to contribute symptoms?

A similar question concerns the coding of patients having both structural and numeric abnormalities.

Example: a patient with 45X/46X,idi(Y)? InWould the code ORPHA:1772 45,X/46,XY mixed gonadal dysgenesis be applicable in spite of the rearranged Y or would perhaps the group ORPHA:96325 Isochromosome Y be a better fit?

I was also hoping you could offer some guidance on how to code patients with either deletion or duplication which does not correspond to the breakpoints specified is not found in the Orphanet nomenclature. EsFor instance the cases where the rearrangement might either encomapass the breakpoints specified in an ORPHAcode or have a partial overlap.

Example: ORPHA:96121, 7q11.23 microduplication syndrome, can this code be used also for patients with a duplication which is larger in size than the specified band (q11.23) or smaller in size, not containing the whole band (q11.23)?

I did not manage to find clarity on this topic in the FAQ and was hoping you could offer some general principles on how to reason about similar cases where an available ORPHAcode is describing a specific genetic alteration.

Best Regards,
Orphanet Sweden



Complex cases for which an ERN guideline would probably be needed

CODING GUIDELINES FSMR



Maladie rare (Orphanet)

OR*Ki*D ORPHAN
FILIERE KIDNEY
DISEASES

Plusieurs diagnostics sont possibles pour un même patient (diagnostics sans relation les uns avec les autres).

Groupe de maladies



Maladie



Sous-type maladie

Diagnostic

« probable » ou « confirmé »

Il existe un code Orphanet pour la maladie :

Je saisis le code dans le champs « Maladie rare (Orphanet) »

Il n'existe pas de code Orphanet pour la maladie :

- Je laisse vide le champs « Maladie rare (Orphanet) »
- Je peux saisir le code Orphanet du groupe de la maladie dans la description clinique uniquement

Diagnostic

« en cours » ou « indéterminé »

Je ne renseigne pas le champ « Maladie rare (Orphanet) »

Si la pathologie existe sur Orphanet et/ou est décrite dans la littérature, je précise le code Orphanet du groupe ou les signes cliniques dans la **description clinique**. Noter le nom de la pathologie dans la zone « Commentaires »

Si la pathologie n'existe pas sur Orphanet et n'est pas décrite dans la littérature alors il faut renseigner l'association de signes cliniques.



Pour vous aider à la recherche

- Taper le n°ORPHA
- Taper le terme le plus discriminant

- Utiliser une abréviation
- Séparer les mots composés par des espaces
- Utiliser un espace si le terme recherché a seulement 2 caractères


[Retour au
sommaire](#)

CODING GUIDELINES FSMR



Coder l'errance diagnostique



Onglet « Diagnostic » : Mettre diagnostic « En cours » lorsqu'aucune pathologie n'est suspectée ou avec un degré de certitude très faible. Le diagnostic ne doit pas être renseigné pour le moment.

Informations génétiques complémentaires (optionnel) +

Appréciation du diagnostic à l'entrée du centre *	☒ Absent	☐ Non approprié	☐ Approprié		
Âge aux premiers signes *	☐ Anténatal	☐ À la naissance	☒ Postnatal	☐ Non déterminé	
	27 ans et	0 mois			
Âge au diagnostic *	☐ Anténatal	☐ À la naissance	☒ Postnatal	☐ Postmortem	☐ Non déterminé
	28 ans et	7 mois	18/08/2021	aujourd'hui	
Cas sporadique ou familial	☒ Sporadique		☐ Familial		
Mode de transmission	Mode de transmission				
Issu d'une union consanguine	☐ Oui	☒ Non	☐ Ne sais pas		

Age aux premiers signes

Errance

Age au diagnostic



- En sélectionnant « **postnatal** » le champ « âge » apparaît. Il est obligatoire.
- Un âge approximatif est préférable à une absence de remplissage.
- L'item « **non déterminé** » est réservé aux porteurs sains pour l'âge aux premiers signes, et aux patients en cours de diagnostic pour l'âge au diagnostic

CODING GUIDELINES FSMR

4- Cas par maladie :

- **Cholangite auto-immune** : mettre le statut du diagnostic « En cours » jusqu'à la détermination du type exact de cholangite.
- **Overlap Syndrome (HAI+CSP) / (HAI+CBP)**: Un code ORPHA a été attribué mais ne répond pas à nos attentes. En attendant sa correction, voici la démarche à suivre :
 - Renseigner les deux diagnostics sur BaMaRa (diagnostic 1, diagnostic 2).
 - Créer deux fiches sur ORBIS, une par maladie.



Guide des règles de codage BNDMR - Filfoie

- **Maladies vasculaire porto-sinusoïdales** : Code ORPHA : 596937 récemment implémenté dans BaMaRa

Dans le cas où une VPO (veinopathie portale oblitérante) a été renseignée à la place de la maladie porto-sinusoïdale avant l'implémentation du code ORPHA, il est nécessaire de les corriger. Ceci permet une visibilité plus exhaustive sur le plan épidémiologique.

- **Cholangite ischémique** : pas de code ORHA pour le moment

Mettre le statut de diagnostic « confirmé » et renseigner la maladie dans le champ commentaire. **La fiche ne sera pas valide (en rouge) mais sera bien comptabilisée dans le calcul des items PIRAMIG.**



Pour le champ commentaire : attention à bien orthographier la « Cholangite ischémique » comme indiqué ici. Ceci nous permet de revenir sur les dossiers si besoin.

CODING GUIDELINES FSMR

GUIDE DE CODAGE: HÉMOCHROMATOSES



Hémochromatose rare : hémochromatose autre que homozygotes C282Y HFE : donc liée à SLC40A1, TF, CP, HAMP, HJV, BMP6, TFR2, variant privés HFE (hors H63D et S65C) ou sans cause génétique identifiée pour l'instant

- **un consensus international** récent sur la définition d'une hémochromatose et donc par extension des hémochromatoses non HFE C282Y. Qui peut nous aider à "coder" ce qui relève de l'anormal.
- Ce qui veut dire:
 - Surcharge en fer: CHF IRM significative (malheureusement pas de consensus sur la valeur, on peut dire 100µmol/g pour simplifier).
 - Et pas de pathologies hémo ou alcool ou métabolique prédominante sur le tableau
- En ce qui concerne la maladie hémo ou alcool prédominante c'est assez "simple" cliniquement de savoir si cela peut être la seule explication pour la surcharge. Pour le métabolique pour que cela soit prédominant c'est plus délicat que chacun doit juger selon son habitude.

ON NE CODE DANS BAMARA QUE:

l'hémochromatose HFE C282Y homozygote pour laquelle il y a :

- soit la **nécessité de réaliser un traitement inhabituel** (chélateur du fer par voie orale ou par injection)
- soit la **nécessité d'une étude génétique exhaustive**, sur observation d' anomalies phénotypiques (survenue anormale d'une cirrhose chez un sujet jeune, symptômes cliniques anormaux)

Les HFE 282Y seul ou composite qui ne rentre pas dans les deux catégories ci-dessus et dans la définition des hémochromatoses rares ci contre **ne relèvent pas des maladies rares.**



**MALADIES
HÉRÉDITAIRES
MÉTABOLIQUES**

Filière nationale de santé



Round table



- ❖ **Goal of this session:** identify concrete ways Orphanet can help harmonize ERN coding guidelines across networks, integrate ERN feedback into the Orphanet tools, and support shared visibility and dissemination via OD4RD3 trainings, webinars, GitHub, documents...

Round table



European
Reference
Networks



orphanet

Challenge	Possible actions
Heterogenity between ERNs Depends on the complexity of the classification may be (?) not always needed?	ERN coordination should lead and work with WG of experts
Undiagnosed code usage would differ in different countries even in EU (again heterogenity)-national differences needs to be taken into account	InterERN would be considerd
	Special issue for guidelines :)

Round table



European
Reference
Networks



orphanet

Challenge	Possible actions
Scientific societies have monopol of producing guidelines in general	A backbone on how to produce guidelines
Gathering experts from many different thematic groups to give their input	Standart templates/formats
Coding guidelines needs to repect international classification	Guidance in granularitiy level
Convincing everyone their importance	Feedbcak from early stage of the guideline to be sure that it serves the purpose it is supposed to
Time of experts	Hirachy oder
	An example of a guideline
That every ERN follows the same principles when producing guidelines	User friendly online tool
Difficulty in collecting and classifying evidence	

A complex network diagram with numerous nodes of varying sizes (dark blue, light blue, and grey) connected by thin grey lines. Some nodes are highlighted with larger concentric circles. The background is white with faint, larger-scale network patterns.

Thank you for participating!



OD4RD

Orphanet Data For Rare Diseases