

**What framework is needed to
collaborate with industry?**

**Reflections by the EGRD industry
representatives**

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Disclosure of interest

- Industry representative on EUCERD and EGRD
- Member of IRDiRC interdisciplinary scientific committee, small clinical trials and patient reported outcomes groups
- Lysogene employee: an SME biotech developing AAV gene therapy in MPS IIIA and GM1 gangliosidosis
- Central role in development and administration of EPNET, EuroWilson, E-IMD and E-HOD

Key messages

- ERN's should contribute to important advances in the diagnosis and treatment of Rare Diseases.
- Should maximise speed and scale of diffusion of research and innovations
 - Reduce differences across EU countries in quality and outcome of healthcare
- Industry and ERN may share common research objectives; but acknowledge different organisation primary aims
- Clinical research guided by open interactions among stakeholders is key to success
- Particularly exciting for SME (few specialist scientists): opportunity to engage with academia and expand scope and quality of research

Parameters determining complexity of clinical research in rare diseases

- Critically ill patients and no standard of care available
- Patient needs intensive with frequent diagnostic and clinical assessments
- Travel to research centres may be impossible
- Hard to identify sufficient number of patients within given time
- Competing trials in an environment of rarity
- Paediatric population: higher regulatory / ethics hurdles
- Advanced therapy medicinal products: first-in-human clinical studies
- RCTs difficult to conduct in small populations
- Limited knowledge of disease natural history

ERN / industry collaboration priorities in clinical research

- Registries, natural history studies and cohorts
 - Unified collection of phenotypic data
 - Facilitate identification of appropriate clinical endpoints or biomarkers
 - Patients pre-concentrated
 - Support drug development discussions with regulators
- Feasibility studies
- Clinical study patient recruitment: aim to meet recruitment targets more quickly
- Training and education
- Standardisation, quality control...
- Remote monitoring of patients?

A successful example of post marketing safety surveillance PPP



Modular IT platform → clustering of disease groups

E-IMD
(start 2011)

E-HOD
(start 2013)

iNTD
(start 2014)

New disease groups

UCDC (USA)

Post marketing safety surveillance (start 2013)

Feasibility analysis (clinical study)

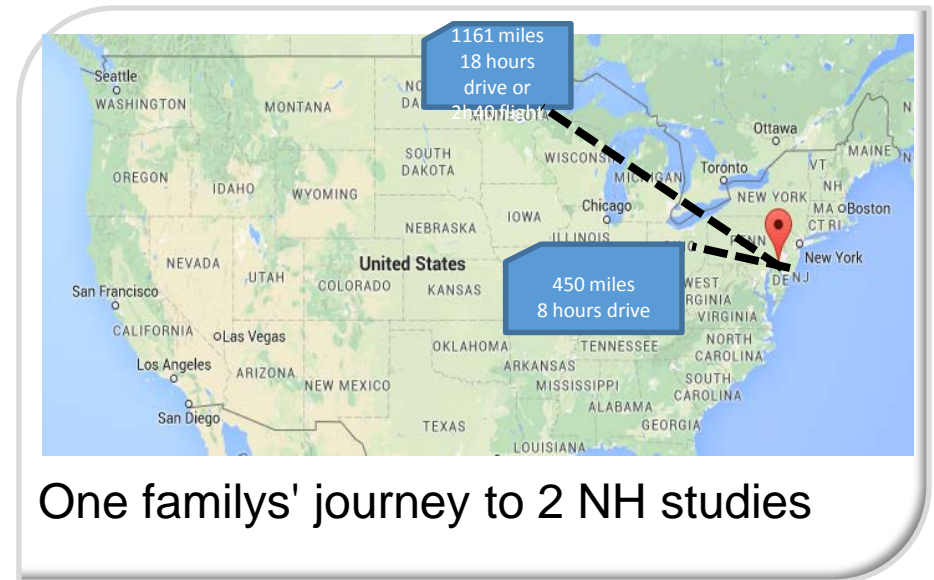
Post marketing safety surveillance

- Principle of controlled access to other research groups
- Development of specific PASS dataset
- Independent patient consent
- Support required (CRO) for set-up, contracts and IRBs
- Additional work paid according to fair market value

Collaboration with scientific consortia and industry

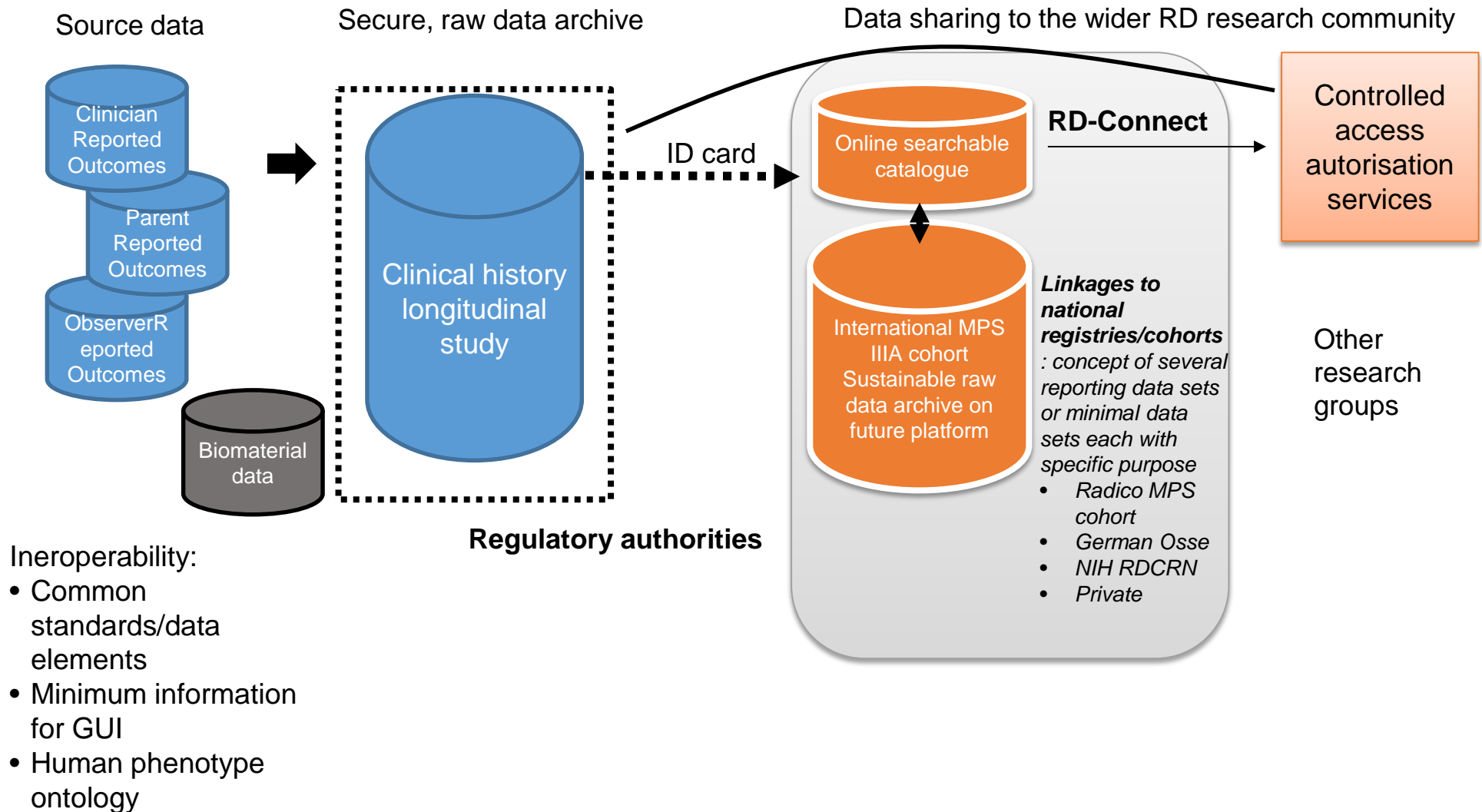
A collaborative approach to natural history studies

- To support drug development programmes
- « In rare cases, patients in natural history studies can serve as historical controls » (Anne Pariser, FDA): data from the natural history study and therapeutic trial will need to be comparable
- High quality: accurate, timely, balanced
- Should suit requirements of EMA, FDA and HTAB
- Adequate geographical representation of patients
- ERN's may be the home for collaborative natural history studies or at a minimum ensure harmonisation of data agreed between the experts.



One family's journey to 2 NH studies

A collaborative approach to natural history studies



Experience from the Neuromuscular Network

TREAT-NMD
Neuromuscular Network

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All about the network

Resources
Tools and Infrastructure

Research
Scientific and clinical

Care
Global best practice

Industry
Service overview

Disease Information

Advancing diagnosis, care and treatment for those living with **neuromuscular diseases** around the world...

www.myotonic.org

NEWS: Hungarian TREAT-NMD website goes live!

Wednesday, 09th March 2011

What is TREAT-NMD?
What TREAT-NMD is, who's involved, and what the network is achieving in the neuromuscular field

Disease information
Click for information about neuromuscular diseases: DMD, SMA, CMD, CMT, myotonic dystrophy

Patient registries
Information about the TREAT-NMD global patient registries

Care
Information about the care available for those living with neuromuscular diseases

Meetings and events
A comprehensive listing of meetings and events relevant to the neuromuscular field

Resources
The tools and infrastructure for international collaboration developed within TREAT-NMD

Research
Preclinical research, outcome measures, regulatory support, biobanks

Industry
Service overview: trial sites and patients, advisory support, study support, training

Newsletters
View past newsletters, sign up to receive our future newsletters

News | **Events**

DATABASES

The TREAT-NMD Duchenne Muscular Dystrophy Registries: Conception, Design, and Utilization by Industry and Academia

- Advisory committee for therapeutics
- Trial sites and patients
- Regulatory affairs (EMA workshops)
- Advisory boards
- Training

Human Mutation



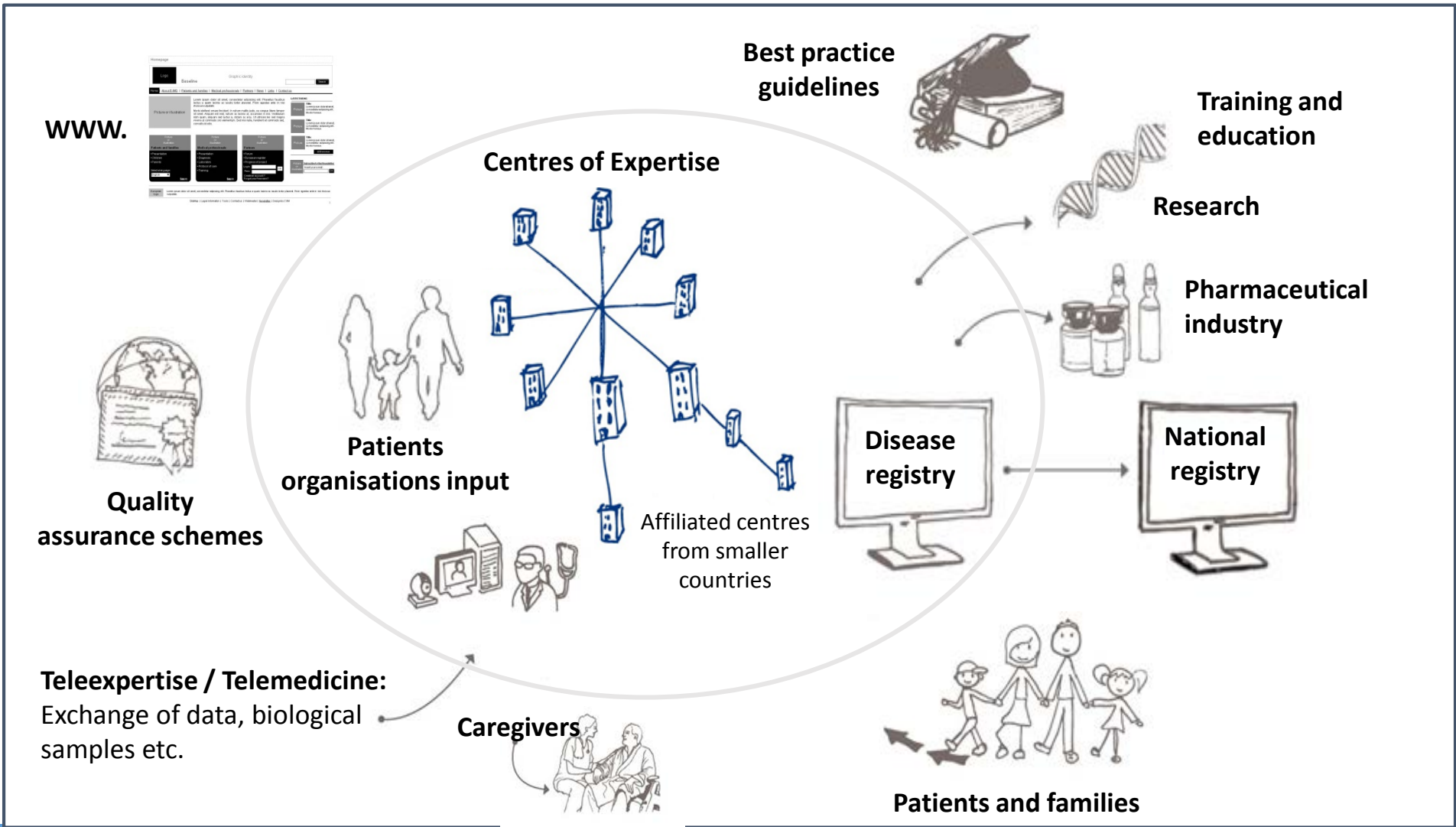
A framework to collaborate with industry - aim

- Advance and improve current approaches to RD clinical research
 - Key leaders organised
 - Work closely with family organisations
 - Reduce redundancy and additional burden to patients
 - Cost-effective and rigorous approach
- Adherence to good practice guidelines
- Sustainability for the timespan of the industry collaboration

A framework to collaborate - operational

- Build on achievements by sharing tools/models between networks
- Regular meetings that involve network clinical researchers and leaders from biotechnology/pharmaceutical industry
 - Foster communication about areas of need
- Transparency: EFPIA guidelines...
- Interest in sharing information to avoid duplication
 - Data standards
 - Natural history
 - Data access
- Cost-sharing arrangements to reflect different contributions to clinical research
 - Public private partnerships
 - Agreement with ERN – legal entity?
- Publication rules

ERN framework and industry



Thank you

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