

Develop Child and Orphan Device Evaluation support



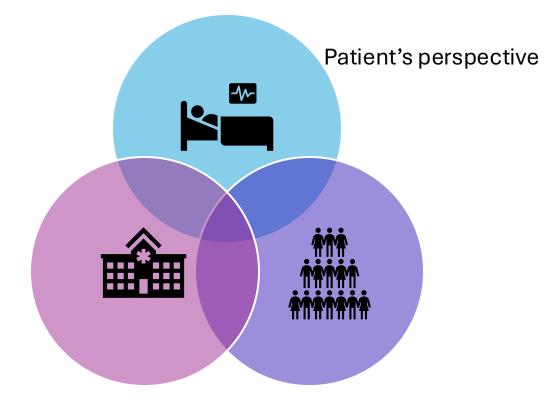
DeCODe – Background

- RD patients have an unmet need for paediatric and orphan medical devices
- There is a need to foster and guide the development of orphan devices, for paediatric patients, in particular in areas of unmet need.
- The MDCG has developed a guidance for the development of orphan devices
- DeCODe takes inspiration of the Pediatric Devices Research Consortia of the FDA.



Unmet need for devices

- Previous research
 - Majority of clinicians indicate need for new device
 - Existing devices have limitations
 - Current legislation provides options but also sees challenges
 - Pediatric focus brings unique challenges



Healthcare's perspective

Society's perspective



Barriers to orphan device development



Clinical hurdles



Technical hurdles



Financial hurdles

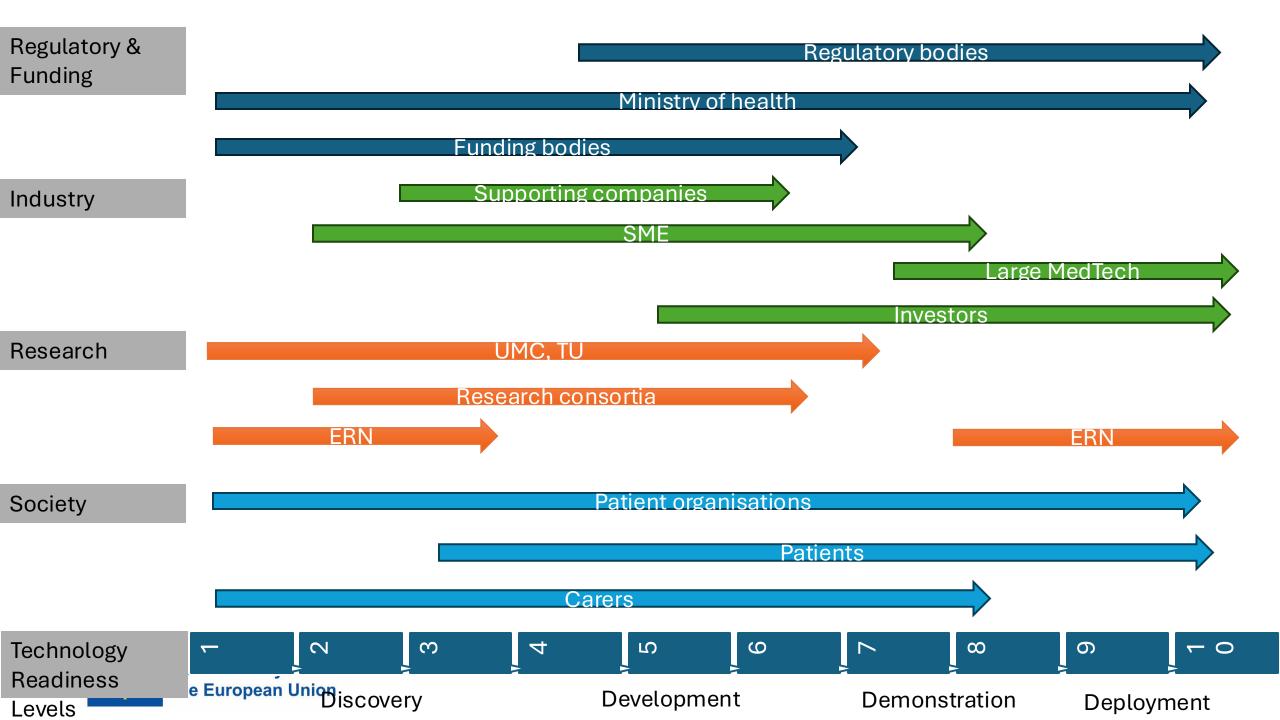


Regulatory hurdles



Ethical hurdles





DeCODe strategic objectives

01

Mapping and analysing the paediatric and orphan medical device ecosystem 02

Set out the critical path for the development of a paediatric and orphan medical device 03

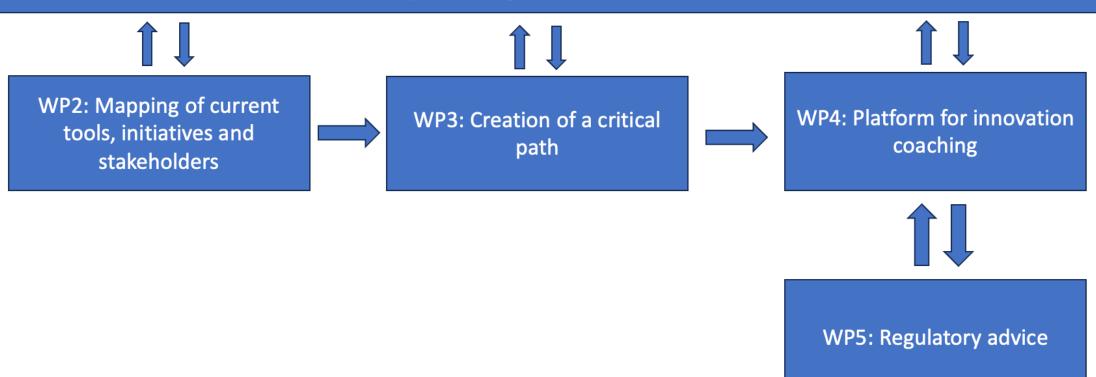
Provide innovation coaching for the development of innovative paediatric and orphan medical devices via the DeCODe platform

04

Form novel partnerships that advance paediatric and orphan medical device development



WP1: Project Management and communication



DeCODe Pert-Chart



Critical path analysis



Collection of experts and tools: Collected by literature and survey



Analysis of hypothetical case studies



Use of tools and initiatives throughout the different phases and milestones of device development



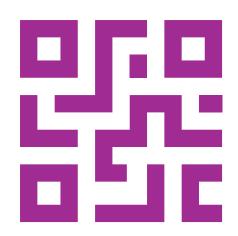
Roadmap Check-lists of "what to do" and "when to do it"

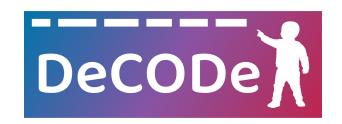




Pilot cases

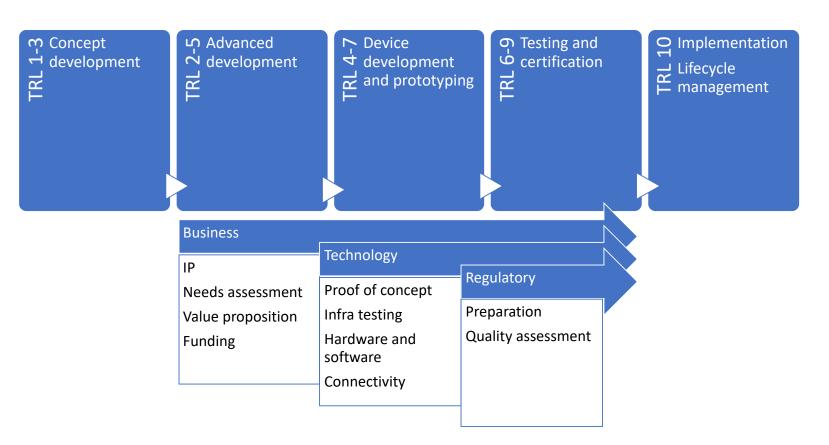
- 5 cases
- Rare and paediatric
- Unmet need, potential for significant benefit
- Off label going towards on label use, de novo development
- Device developers get min 6 months of support







DeCODe pipeline orphan device development and support

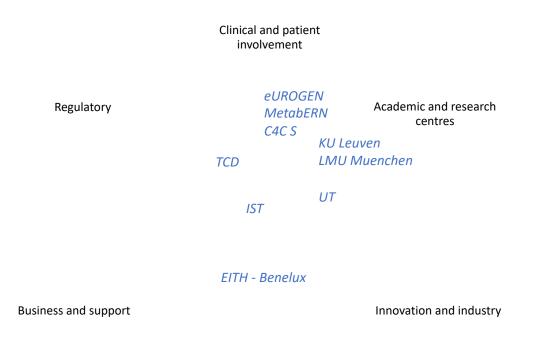


Open call for applications
Deadline: March 31
One-page application
Open for different RD
Open for different TRL





DeCODe consortium





SAB:

- Kolaleh Eskandanian PDRC/ Children's National, Washington DC, USA
- Virginie Hivert Eurordis-Rare Diseases Europe, France
- Donal O'Connor HRPA, Ireland



DeCODe – summary

- Overall Aim: to support the development of paediatric and orphan devices
- Consortium co-funded by the EC, consistent of academics, developers, clinicians, regulatory experts, funding experts, insilico testing experts
- Goal: develop a critical path for orphan device development, and provide support to 5 orphan device developers







DeCODe is co-funded by the European Union. The views and opinions expressed in this presentation are those of the author(s) only and do not necessarily reflect those of the European Union or HaDEA. Neither the European Union nor HaDEA can be held responsible for them.

Thank you!

www.decode-rd.com

The consortium partners



















