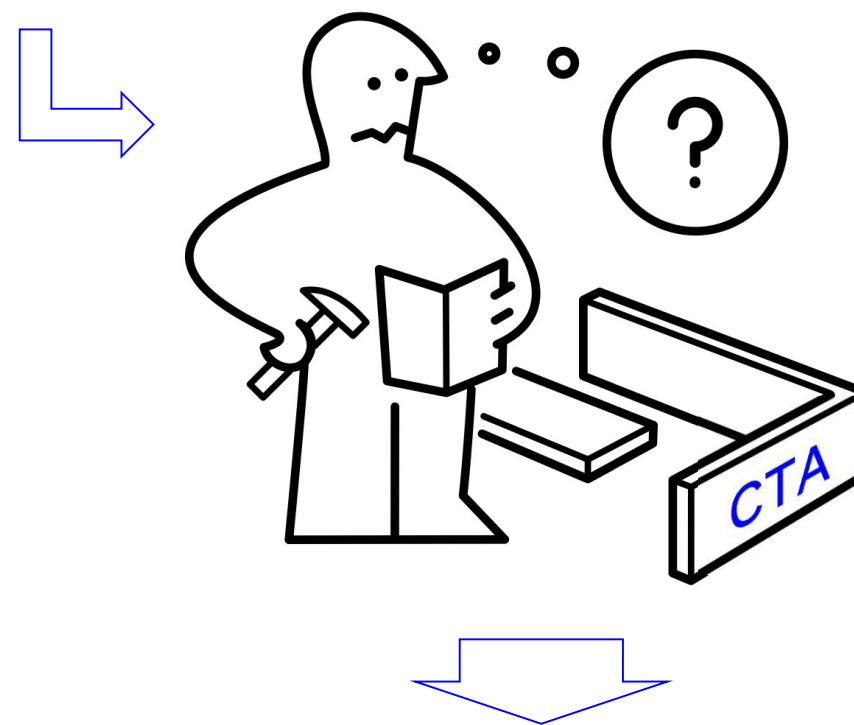


Problem:

No shortage of drug repurposing hypotheses, but **most projects never reach patients!**

Why?

Most DR hypotheses generated by people/groups who are undertaking drug development **for the very first time...**



Two "sibling" drug repurposing initiatives launched in 2022



Prof Dr med Harald
HHW Schmidt

*To reimagine
drug repurposing
in the age of AI*



*To ensure that good drug
repurposing ideas can
gain regulatory approval
and reach patients*

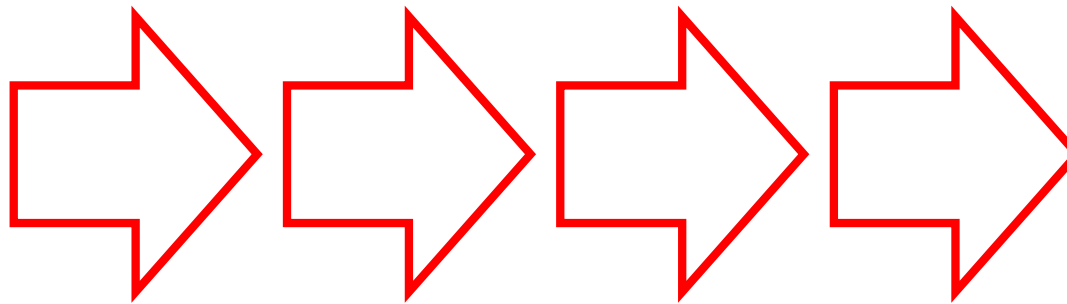


This project has received funding from the European Union's Horizon Europe research and innovation programme under grant agreement No 101057442.

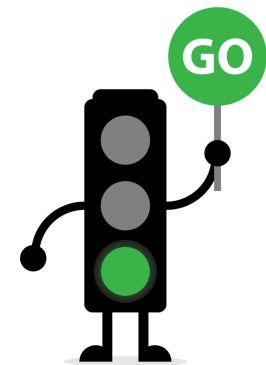


Wouldn't it be nice...

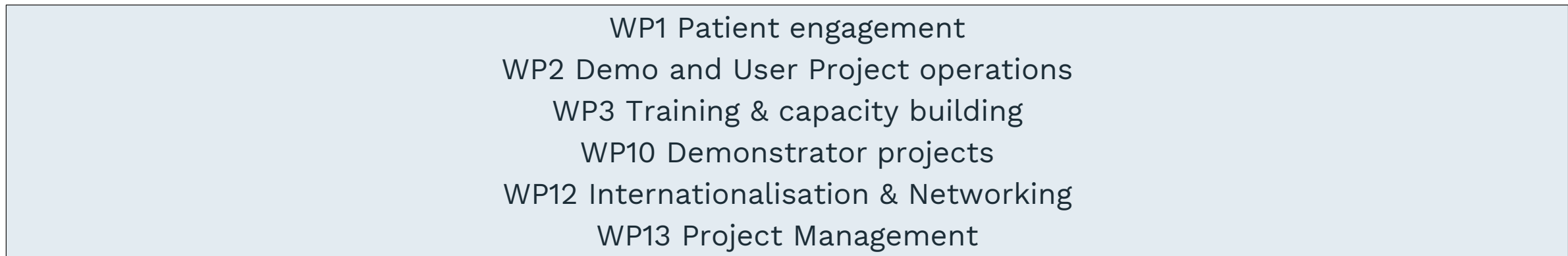
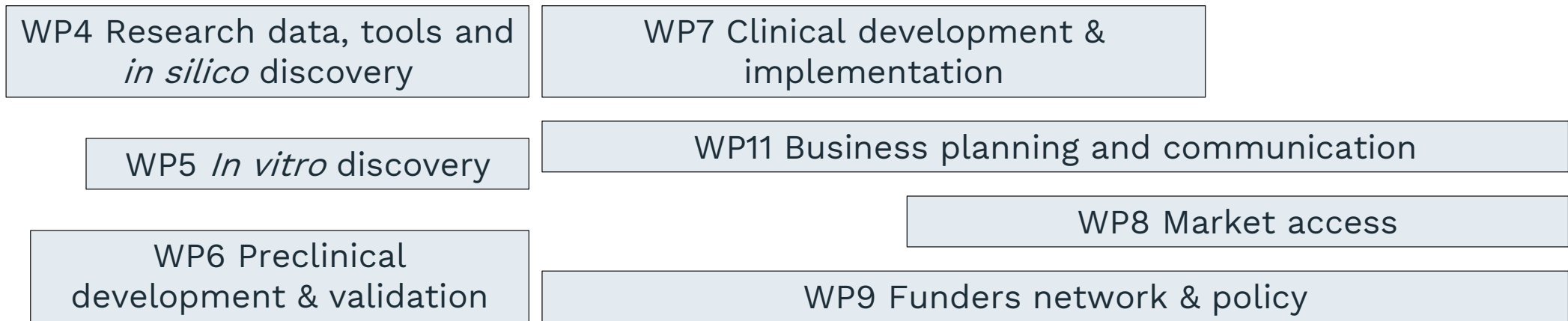
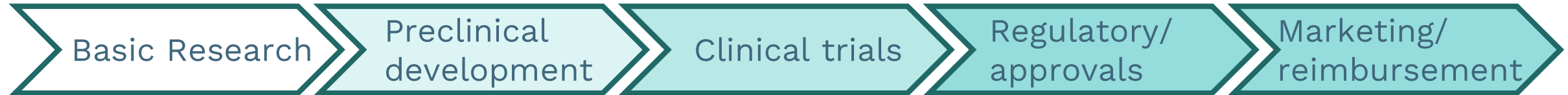
Therapeutic Hypothesis for a new or repurposed drug



Regulatory approval and clinical implementation



Support full value-chain to maximise impact on drug repurposing ecosystem



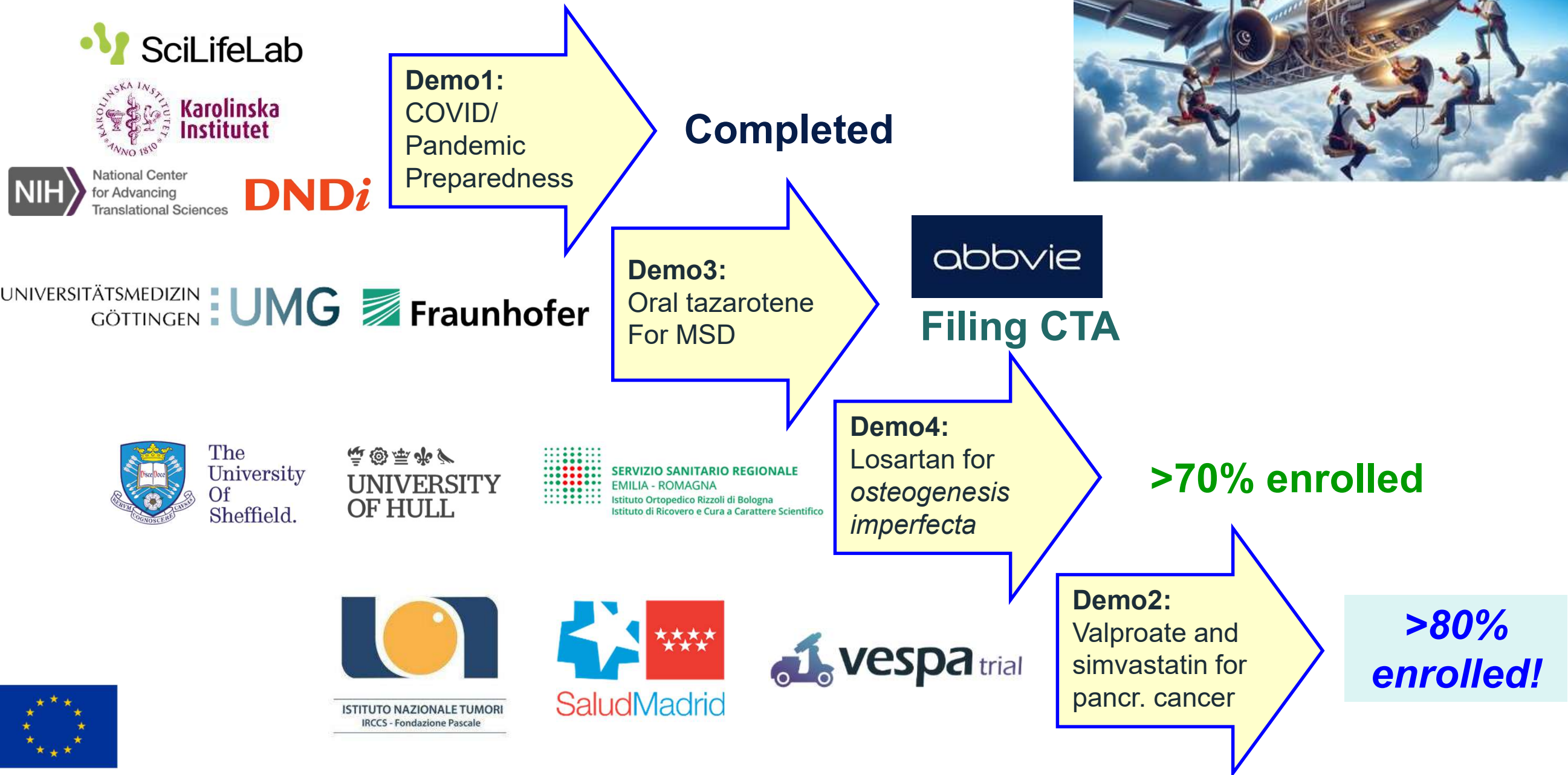
A big consortium for a big project



This project has received funding from the European Union's Horizon Europe research and innovation programme under grant agreement No 101057442.

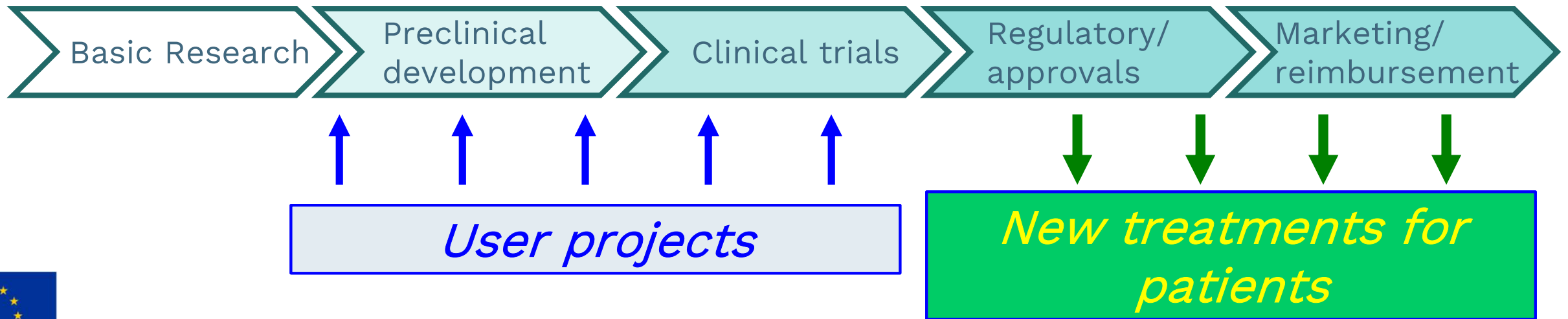
remedi4all.org #R4ALL #REMEDi4ALL

Flying the plane while building it...



Opening up the shop

Therapeutic Hypothesis for repurposing a drug



REMEDi4ALL CONCIERGE:

UNDERSTANDING COMMUNITY NEEDS



Over **300** requests to date

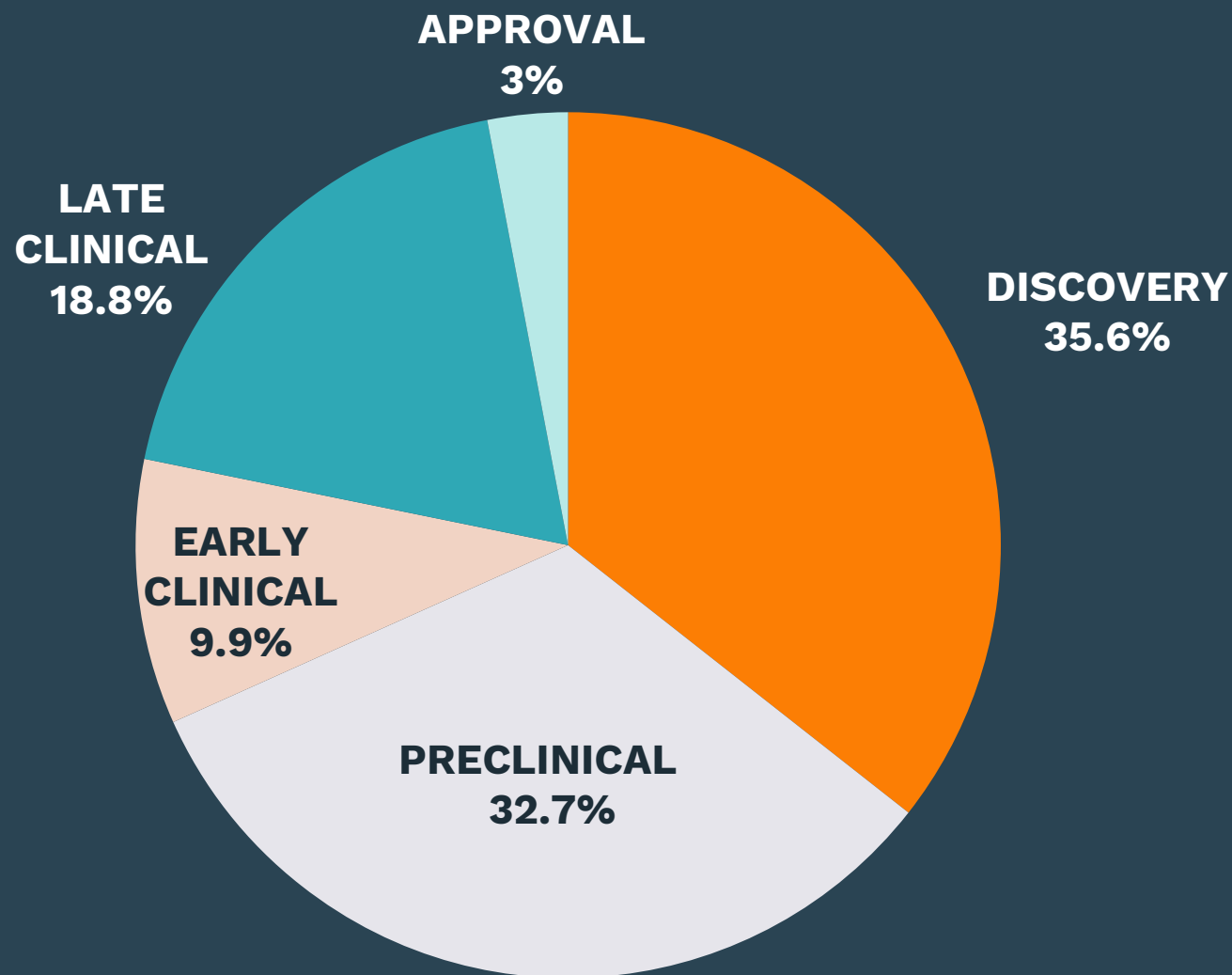
- from diverse stakeholders
- with different needs
- in different phases of development
- from all around the world...



Slide credit: Alicia Soler



REMEDi4ALL CONCIERGE: DEVELOPMENT STAGE



Typical regulatory stumbling blocks for first-time academic drug developers



Preclinical

- **Dose rationale**
- Toxicology and safety pharmacology
- Obtaining GMP-grade test article: *CMC, formulation and route*
- **Scientific Advice**

Clinical

- Proof-of-concept **vs.** registrational evidence generation
- Registerable/validated endpoints

Partnering with industry
(for new drug approval or drug label extension)



Managing the Scientific Advice process



Questions in lay terms

I'm just going to use the MTD (maximal tolerated dose), that's OK, right?

What kinds of extra safety studies should I do for my new patient population?

Questions in SA format



Does the agency agree with the rationale for starting dose and scheduling for pediatric patients?



Does the agency agree that no additional nonclinical safety and toxicology studies beyond those referenced from (*the previous trial*) are required to support the initiation of the proposed clinical study?



The target product profile (TPP) interfaces with the regulator

Indications: Which diseases?

Population: Which patients and where?

Clinical Efficacy: Does it kill the parasite effectively?

Safety and Tolerability: What kind and how many adverse events?

Stability: How long can it be stored in the field?

Route of Administration: How is it given to patients?

Dosing Frequency: How often and how long must it be given?

Cost: Will it be affordable to target population?

Time to Availability: How long will it take to develop?

Example for neglected
diseases



<https://dndi.org/research-and-development/target-product-profiles/>



A universal template **Repurposing Development Plan (RDP)** template for project design



1. Repurposing Hypothesis
2. Patient Engagement
3. Scientific Approach
4. Clinical and regulatory approach
5. Project planning and timelines
6. Risk mitigation plan
7. Intellectual property (IP) assessment
8. Early Health Technology Assessment (eHTA)
9. Market uptake and clinical practice



Construct
*Repurposing
Development
Plans* for each
repurposing
project

Realizing the promise of drug repurposing: *Faster, cheaper, safer?*



De novo drug discovery



M
A
R
K
E
T

P
A
T
I
E
N
T
S

Drug repurposing may not need to repeat all dosing, safety and manufacturing studies



slide credit: Annika Jenmalm Jensen, Karolinska Institutet

INTERNATIONAL DRUG REPURPOSING CONFERENCE

#iDR26

Navigating the future

12-13 May 2026

Maison de la Poste, Brussels



CO-ORGANISERS



REMEDIA4ALL is funded by the European Union's Horizon Europe Research & Innovation programme under grant agreement No 101057442



#iDR26

Brussels, Belgium
12-13 May 2026
Maison de la Poste

**REGISTER
HERE**



*Questions?
Comments?*

