

Insights from the ROADMAP Project ROADMAP

# **TIMELINE**



DATA CLEANING & ANALYSIS

January-May 2022

**ROADMAP CREATION** 

September-December 2022



September-December 2021

**INTERVIEWS** 

June-August 2022

# GOALS

Gather insights from successful organizations, those who are still in progress or those who have abandoned the repurposing projects



Gather data on the state of drug repurposing projects

Produce a "ROADMAP" tool, which can support organizations in future drug repurposing efforts.

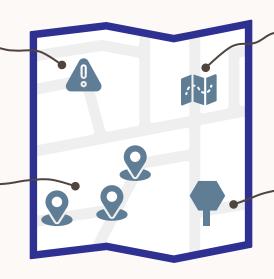
## What we wanted to learn

#### **SUPPORT**

In what ways can a rare disease nonprofit organization support a drug repurposing project?

#### **STEPS**

What steps organizations are taking in pursuit of drug repurposing?



#### **PATHWAYS**

What are the different paths to success and what are the different success outcomes?

#### **ROADBLOCKS**

What are the biggest and most common roadblocks encountered by organizations? How do they overcome them?

#### **SURVEY: 147 US-based Rare Disease Nonprofit Organizations**



#### **INTERVIEWS: 25 Rare Disease Nonprofit Organizations**































A BREATH OF HOPE





















#### HIGH LEVEL INSIGHTS

95
ongoing drug
repurposing projects

organizations leading drug repurposing projects

60

repurposed drugs granted FDA approval

18

organizations pursuing multiple drug repurposing projects

12%

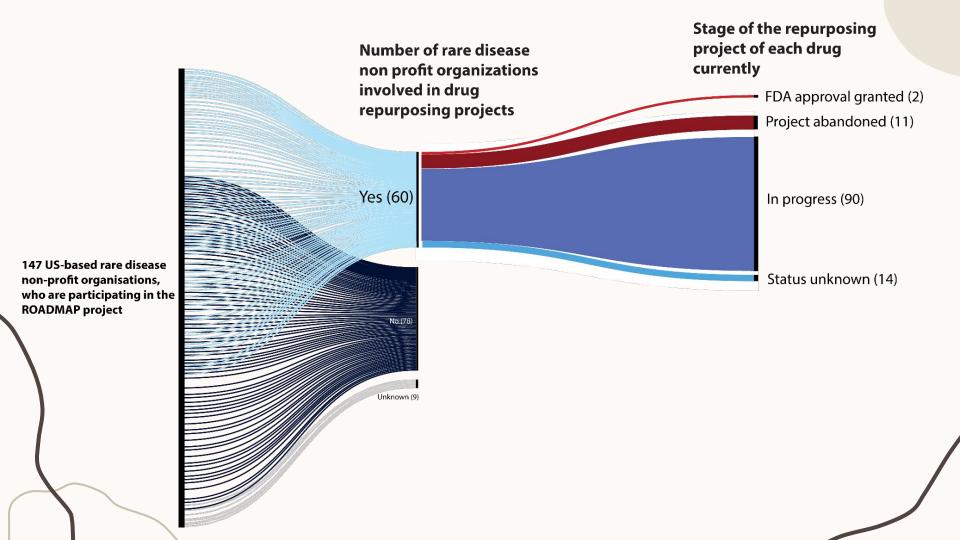
organizations
systematically track off
label drug use

8

organizations focused on sirolimus (Rapamune)







## **TOP BARRIERS**

for organizations to start drug repurposing projects







# **TOP SUPPORT OPTIONS**

- how organizations can push forward drug repurposing projects -



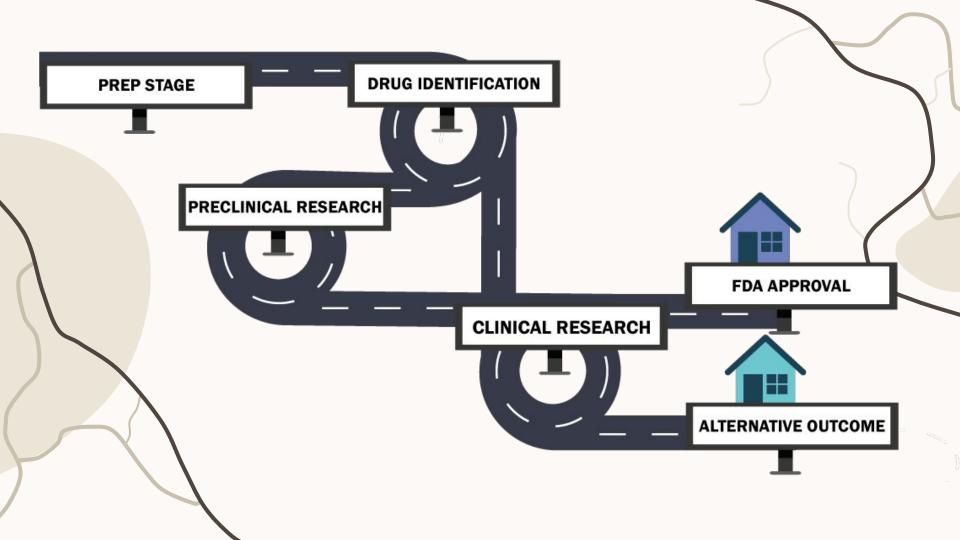
### Funded preclinical research



Facilitated national or international researcher collaboration



Supported patient recruitment into a clinical trial



# DRUG IDENTIFICATION



Preclinical & Translational research



**High-throughput drug screens** 



**Insights from similar diseases** 

# **SUCCESS OUTCOMES**



Drug to provide significant reduction in symptoms



Drug to provide significant improvement in quality of life (QOL)



Drug to provide prevention of relapse

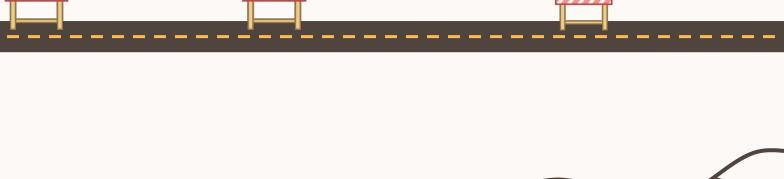
## ROADBLOCKS

Financial resources

Pharmaceutical company support

Lack of sufficient patient population to study





## **INSIGHT & ADVICE**

• Find an internal "champion" at the pharmaceutical company. Invite them to your events.

 Collaborate with researchers who have a collaborative approach and specific experience in translational research. Have a formal contract on data ownership.

 Combine clinical trial recruitment with patients with a similar rare disease.

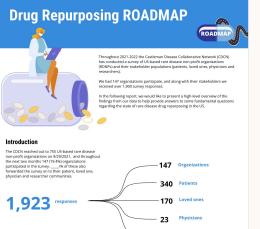


## **INSIGHT & ADVICE**



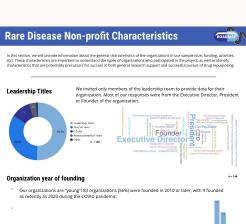
- Find ways that your rare disease can be applicable to a more common disease or disease space.
- Find or forge alternative paths and success outcomes that make sense for your patient population.
- Collaborate with other organizations and share data when possible, even if the diseases seem too different.

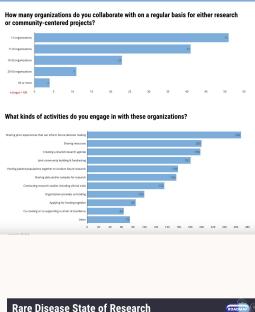




Researchers

# All ROADMAP survey data will be available to explore in an interactive dashboard format!





Collaboration

