

15 years ago: the creation of DNDi

1999

Nobel Peace Prize awarded to MSF, who commits the prize money to the Drugs for Neglected Diseases Working Group

2003

Initial meeting in Nairobi

DNDi creation with founding partners:

- Kenya Medical Research Institute, Kenya
- Institut Pasteur, France
- Indian Council of Medical Research, India
- Médecins Sans Frontières
- Ministry of Health, Malaysia
- Oswaldo Cruz Foundation (Fiocruz), Brazil
- WHO –TDR (Special Programme for Research and Training in Tropical Diseases) as a permanent observer







Dynamic portfolio: New disease areas, new models...

Neglected diseases

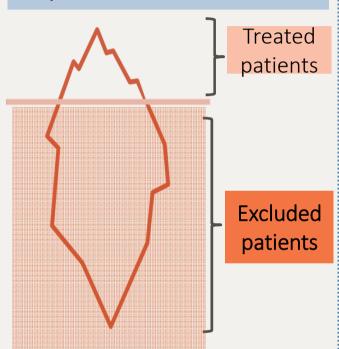
Mycetoma



Testing ravuconazole

Neglected patients

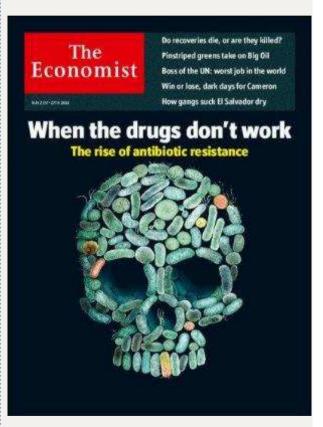
Hepatitis C



Public health approach

Neglected models

Antimicrobial resistance



Incubation of GARD



Short-, medium- and long-term approaches to address immediate patient needs and deliver innovative medicines

> New chemical entities (NCEs)

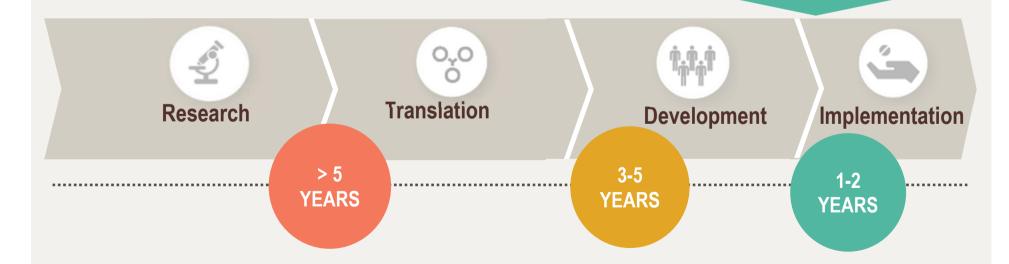
Long-term projects

- > New formulations
- > New indications for existing drugs

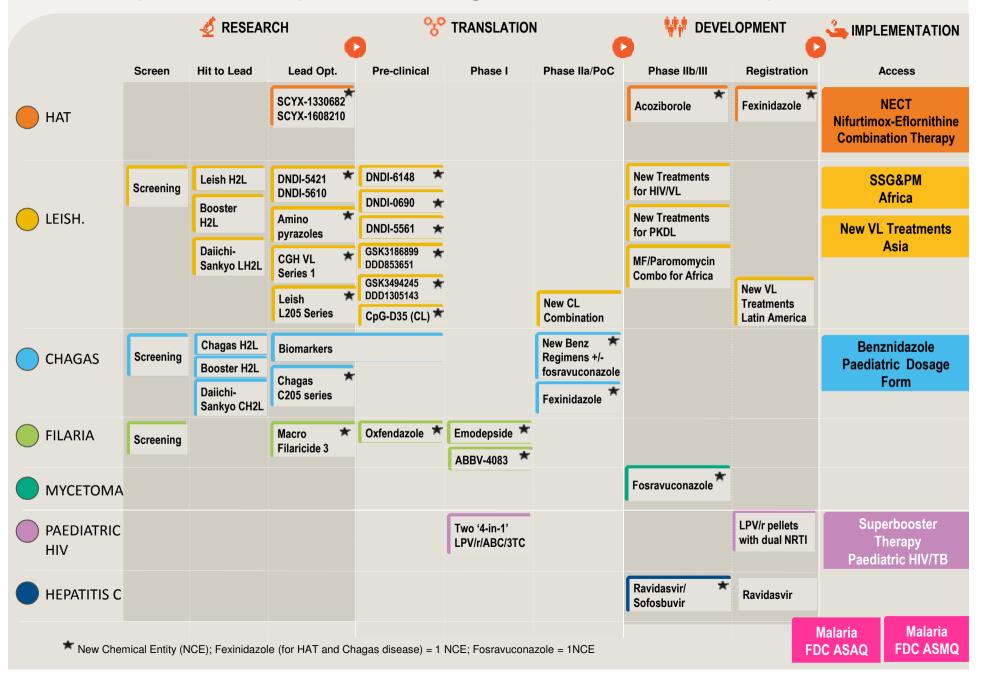
Medium-term projects

- > Completing registration dossier
- > Geographical extension

Short-term projects



DNDi portfolio: Improve existing treatments & develop NCEs

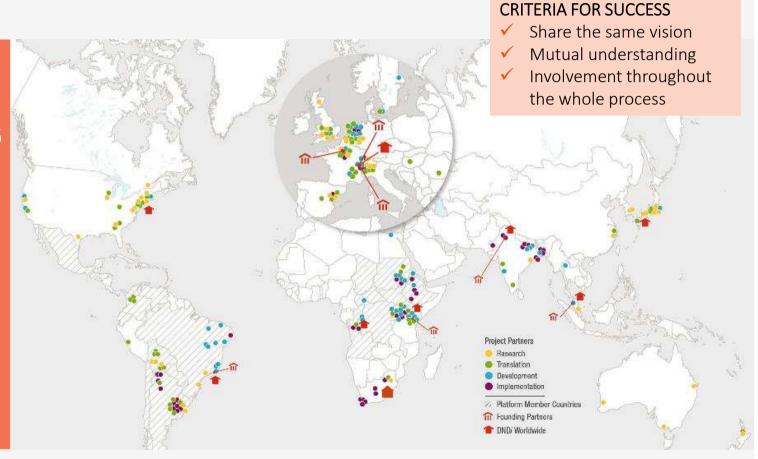


DNDi's success is only possible through innovative partnerships

Over 170 Partnerships Worldwide

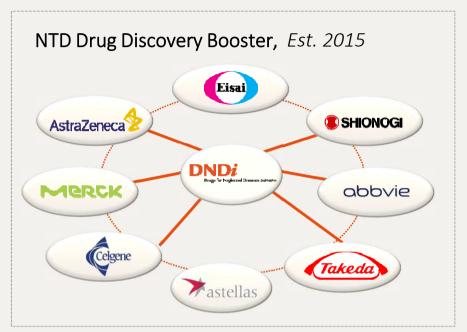
Biotechs
Pharmaceutical
companies
PDPs
International
organisations
NGOs
CROs

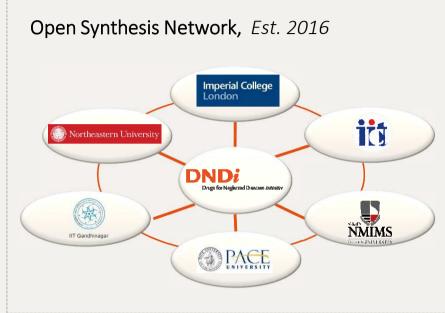
Universities

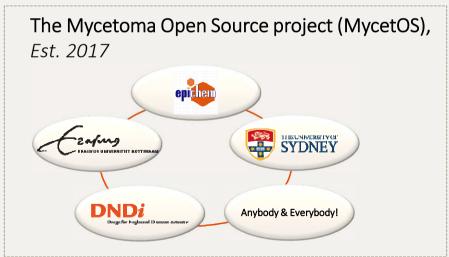


Research Institutes

Open innovation to speed up drug discovery.





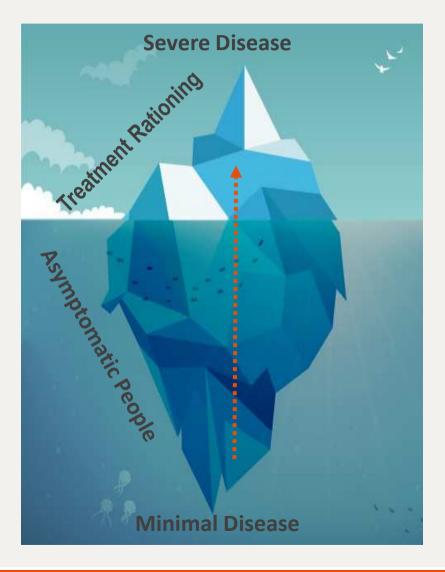




For each disease, a Target Product Profile to guide all decisions: HCV TPP

* Characteristics	Ideal	Acceptable	
Efficacy	>95% SVR	>= 95% SVR	
Safety	No side effects	Minimal side effects	
Pangenotypic	Yes	Yes	
Treatment duration	Same regimen F0-F4 10 weeks (8 wks ?) F0-F3 12 weeks F4	12 weeks F0-F3 12 weeks with RBV F4 24 weeks without RBV F4	
Populations	Mono & HIV co-infected polytransfused & people who inject drugs	Mono & HIV co-infected; polytransfused & people who inject drugs	
Dosing	FDC once a day	Two tablets once a day (+/-RBV)	
Drug-Drug Interactions	None in HIV/HCV	Manageable in HIV/HCV	
Monitoring	POC diagnosis, Triage (F?), SVR12	POC diagnosis, Triage (F?), SVR12, Minimal safety monitoring	
Cost Drugs for Neglected Diseases initiative	~ US\$ 300 by 2017	~ US\$ 300 by 2020	

DNDi HCV strategic objectives:



- Develop new, affordable, pangenotypic TT for HCV
- Simplify HCV test & treat strategies and develop innovative models of care to support scale up
- Improve access (IP, regulatory, pricing, etc.) and affordability of HCV TT in countries

DNDi Hepatitis C Strategy: 3 pillars

1Accelerate
R&D

Accelerating the development of promising drug candidates



with



Pharma companies



Governments

2Catalyse
ACCESS

Supporting affordable access to all DAAs



with



Pharma companies Civil Society organisations



Governments

Simplify
TREATMENT
STRATEGIES

Working with health providers to scale – up treatment



with



Primary healthcare doctors



Non Governmental Organizations



A mature and dynamic portfolio, with strong partnerships and donor support



39 R&D projects in **8** disease areas with **7** treatments delivered



GARDP: new initiative created by WHO and DND*i* and incubated by DND*i*



20 entirely new chemical entities (NCEs) in the pipeline



210 staff **Half** in endemic countries
Close to **1,000** people
working on DNDi projects



EUR **532 million** raised **equally** from public and private sources



4 disease-specific clinical trial platforms
Several technology transfers

7 new treatments delivered since 2007



- Easy to use
- Affordable
- ✓ Field-adapted
- ✓ Non-patented



2010 **SSG&PM**Visceral leishmaniasis in E Africa **Now 1st line in all countries**



2007 ASAQ
Malaria
>500 million patients
reached



2008 **ASMQ**Malaria **Used in Africa and Asia**



2009 **NECT**Sleeping sickness **100% of stage-2 patients**



2011 PAEDIATRIC BENZNIDAZOLE
Chagas disease
Two sources developed



2011 NEW VL TREATMENT ASIA
Visceral leishmaniasis in Asia
Support to elimination
programme



2016 SUPERBOOSTER THERAPY
Paediatric HIV
Recommended by WHO

Sleeping sickness, two new oral treatments to change the history of the disease



15 years ago Melarsoprol Toxic, resistant Eflornithine

Not available

Since 2009
NECT
Improved therapy

2018
Fexinidazole
Oral (10 days)

2021
Acoziborole
Single-dose, oral

The Global Antibiotic R&D Partnership (GARDP)

Created by WHO and DNDi, incubated by DNDi

Antimicrobial resistance is a major and rapidly growing global public health challenge, with

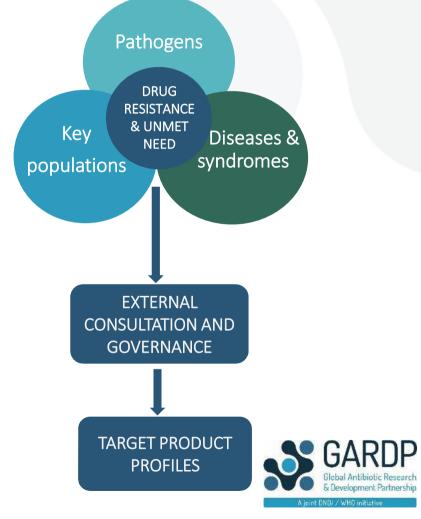
estimates of up to 700,000 deaths per year.

Focus:

- Drug-resistant bacterial infections for which adequate treatment is not available.
- Address global health priorities that reflect the realities of clinical practice.

Scope:

 Global including low- and middleincome countries.



GARDP's priorities and programmes

Developing and delivering new or improved antibiotic treatments for which, while endeavouring to ensure sustainable access.

2023 objectives

Develop 4 new treatments through:

- Improving existing antibiotics
- Developing new chemical entities.

Build a robust pipeline of pre-clinical and clinical candidates end to end.

Actively support appropriate use of and access to new antibiotic treatments.

Neonatal sepsis: developing treatments for highly drug-resistant infections in babies.

Paediatric antibiotics: exploring ways to optimize current and develop new antibiotics for children.

Sexually-transmitted infections: develop a new treatment for drug-resistant gonorrhoea and other STIs.

Memory recovery and exploratory: revive and evaluate old knowledge and abandoned projects, support early research.



How much is it to develop a treatment for neglected patients?

adapted, and affordable treatments. DNDi's cost of development ranges from EUR 10-40 million for a combination therapy made of By putting the specific needs of patients at the centre of the innovation process, the Drugs for Neglected Diseases initiative along with its partners has proved that it is pos-sible to address the medical needs of the poorest populations by developing quality, already existing drugs, and EUR 100-151 million for a new treatment made from scratch.

TOTAL COST		€12.5m	€6.8m	€11.6m
Post-registration trials for additional data		€5.5m	€3.2m	€2.2m
Larger scale safety and efficacy trials		€7m	€3.6m	£9.4m
Early safety and proof- of-concept trials in patients			needed for combinations of approved drugs	
Research Research			Not needed for combina approved drugs	
DRUG	:RAPIES	ASAQ FDC	NECT	SSG & PM
DISEASE	COMBINATION THERAPIES	MALARIA	SLEEPING	VISCERAL

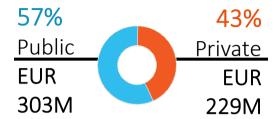
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€55.3m	€59.4m
€15.1m*	€15.1m*
€28.5m	€18.5m
€4.5m	€3.6m
€7.2m	€22.2m
SLEEPING Fexinidazole sickness	SCYX-7158
SLEEPING	SLEEPING

*Projected estimates until 2020



The support of our donors: €532M received out of €730M needed by 2023



STRICTLY RESTRICTED FUNDING (23%) – € 121M

- Bill & Melinda Gates Foundation (€53M) (\$63.3M)
- Japan GHIT Fund (€20.2M)
- Wellcome Trust (€16.2M)
- European Union FP5,6,7& EDCTP (€13.6M)
- Médecins Sans Frontières (€10.2M)
- USA NIH/NIAID (€1.6M) (\$1.8M)
- United Kingdom DFID (€1.6M) (£1.2M)
- Switzerland Canton de Genève (€1.9M)
- UBS Optimus Foundation (€1.5M) (CHF 2M)
- Switzerland SDC (€0.7M) (CHF 0.9M)
- The Global Fund AMFm (€0.5M)
- Ruta'N Medellin (€0.3M)
- Kalacore (€0.3M)

UNRESTRICTED FUNDING (48%) - € 255M

- United Kingdom DFID (€136.4M) (£113M)
- Médecins Sans Frontières (€83.5M)
- Switzerland SDC (€17.4M) (CHF 19.2M)
- Spain AECID (€12M)
- Other Private Foundations Rockefeller, Slim, Starr, FINEP, Moreau, BBVA (€5.6M)

PORTFOLIO FUNDING (29%)- € 156M

- Bill & Melinda Gates Foundation (€50.6M) (\$60.4M)
- Netherlands DGIS (€33M)
- France AFD & MAEE (€16.3M)
- Unitaid (€12.5M) (\$14.4M)
- Germany KfW & GTZ (€20.1M)
- USAID (€9.4M) (\$10M)
- Fundación Mundo Sano (PRV) (€6.2M)
- Medicor Foundation (€3.8M)
- WHO/TDR (€2.6M)
- Norway NORAD (€2.8M)
- Brazil BNDES & MoH (€0.4M)

Note: Does not include GARDP funding

Public leadership is needed for a favourable environment

- Sustainable financing
- Identification of R&D needs for better priority setting
- Adapted regulatory
 environment at national &
 regional levels
- IP environment to catalyse innovation and facilitate access









