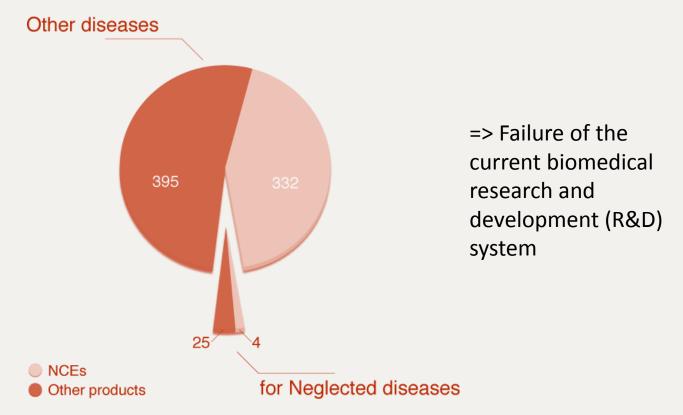
Linking Innovation and Access for Neglected Patients Eric Stobbaerts, DNDi ASTMH Nairobi 9th February 2016



Fatal imbalance still exists, an adapted R&D response is required

Among 756 products developed, only 4 NCE's for NTD's (excluding vaccines & biologicals) (2000-2011)\*



\* Source: Pedrique B et al. The drug and vaccine landscape for neglected diseases (2000-11): a systematic assessment. *Lancet Global Health*, Early Online Publication, 24 Oct 2013.

What has changed?

Drugs for Neglected Diseases initiative

5

# Where are the gaps?



## What must we do?



The R&D landscape for neglected patients has changed but large gaps still remain



- R&D priorities do not sufficiently originate from low- and middleincome countries
- Patients' needs are not prioritized (e.g. Ebola, Zika, Mycetoma, etc.)
- Innovation is not linked to equitable access even when there is commercial incentive to drive innovation (e.g. HCV)
- 4
- Market incentives aligned with IP/exclusivity do not adequately address health needs in LMICs (e.g. AMR)

## These are the fundamental challenges for the future of biomedical innovation.



## DNDi's New Business Plan: to deliver 16 to 18 treatments by 2023





Influence the R&D landscape for neglected patients

- Political leadership for needs-driven R&D
- Creation of a global fund and mechanism
- Evidence on alternative
   R&D models

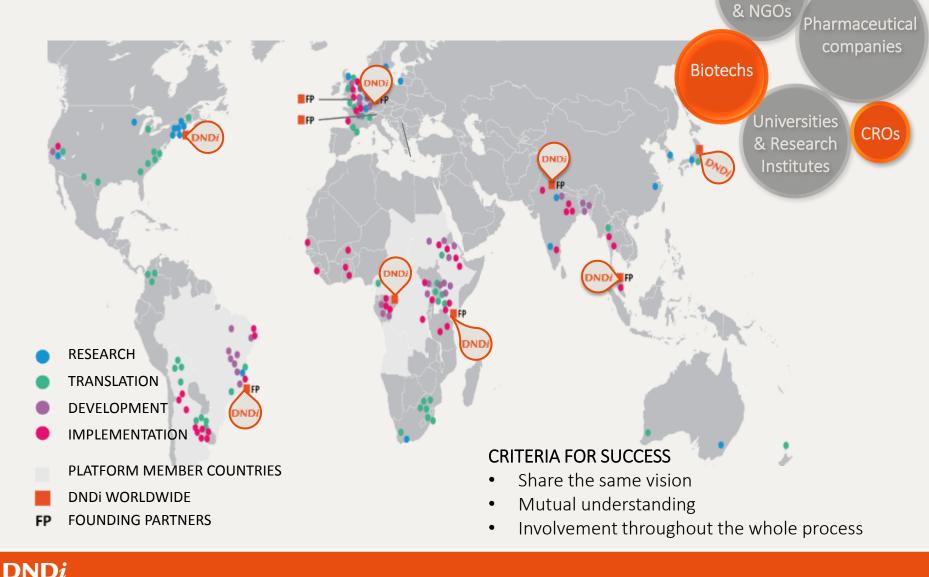
Develop treatments for people suffering from neglected diseases

- Deliver 16-18 treatments
- 3 new chemical entities (NCEs)
- ~10 disease areas
- Focus on access and measure impact

Strengthen research capacity, led by Regional Offices

- **R&D platforms** in diseaseendemic countries
- **Regionally-driven** initiatives
- Patient access to treatments
- Transfer of technology

## DND*i*'s success is only possible through innovative partnerships

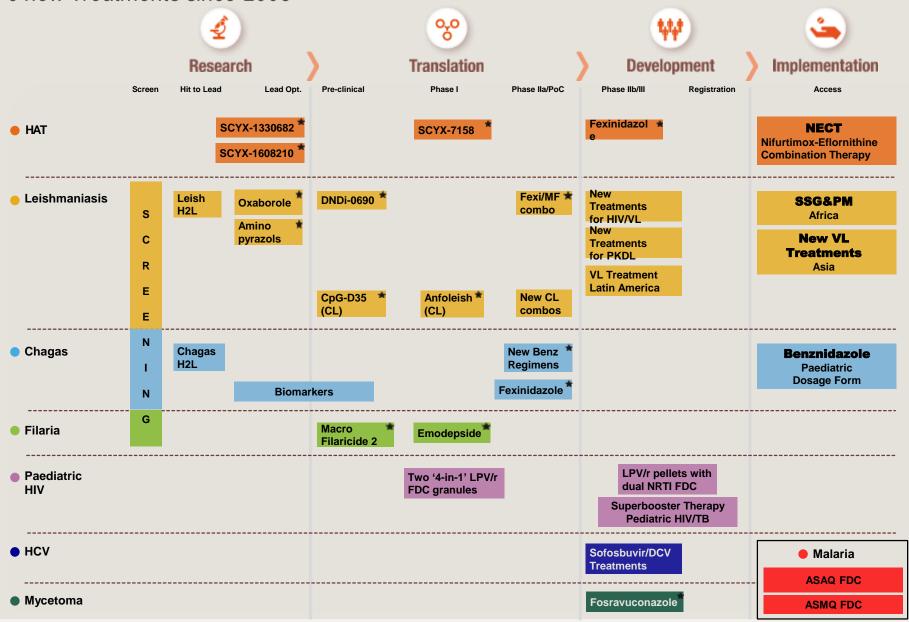


**PDPs** 

Int. Org.

### DNDi Portfolio December 2015

#### 6 new Treatments since 2003



New Chemical Entity (NCE); Fexinidazole (for HAT, VL, and Chagas disease) = 1 NCE

## 10 Years achievements: 6 New Treatments Developed

## ASAQ 2007

(Fixed-dose combination of artesunate + amodiaquine)

- Innovative partnership with Sanofi
- · Simple regimen: 1 or 2 tablets once a day for 3 days
- · Registered in 35 countries, of which 31 in Africa
- · WHO prequalified
- WHO Essential Medicines List (adults and children)

#### 320 million treated in 31 African countries



#### (Fixed-dose combination of artesunate + mefloquine)

- Developed by DND/ and Farmanguinhos/Fiocruz, Brazil
- Simple and adapted regimen for children and adults
- Registered in Brazil (2008), India (2011), Malaysia and Myanmar (2012), Tanzania (2013), Vietnam and Niger (2014)
- South-South technology transfer from Farmanguinhos to Cipla, India
- · WHO prequalified (Cipla)
- . WHO Essential Medicines List (adults and children)

1.2 million treated in Latin America and Asia





(Sodium stibogluconate & paromomycin combination therapy)

- Partnership between DNDi, the Leishmaniasis East Africa. Platform (LEAP), national control programmes of Kenya, Sudan, Ethiopia, and Uganda, MSF, and WHO
- Recommended by the WHO Expert Committee on the Control of Leishmaniases for East Africa (2010)
- National VL guidelines of Sudan, South Sudan, Kenya, and Ethiopia
- Paromomycin registered in Uganda (2011), in Kenya (2013), and underway in other East African countries





- Large-scale implementation programme with health authorities at state, national, and regional levels
- · High efficacy and good safety profiles
- · Field-adapted
- Recommended by the WHO Expert Committee on the Control of Leishmaniases (2010)

SD AmBisome<sup>®</sup> and PM+M recommended in revised Indian VL elimination roadmap



 Agreement with Mundo Sano Foundation for second source (2013)

### Only child-adapted





A Key Role for Regional Disease Platforms

Defining patient needs and Target Product Profile (TPP)

Strengthening local capacities Conducting clinical trials (Phase

Facilitating Registration of new therapies

Accelerating implementation of new therapies, ensure therapies reach patients

Uganda

Sudar

Ethiopi







#### redLEISH

Contraction of the second seco

CHAGAS

kxico Guatemala Honduras Equador Bolivia Chile Chile Chile Chile Chile Contries highighte on the map represent Chaga disease endo Lain American countries Chaga disease endo Lain American countries Chile C

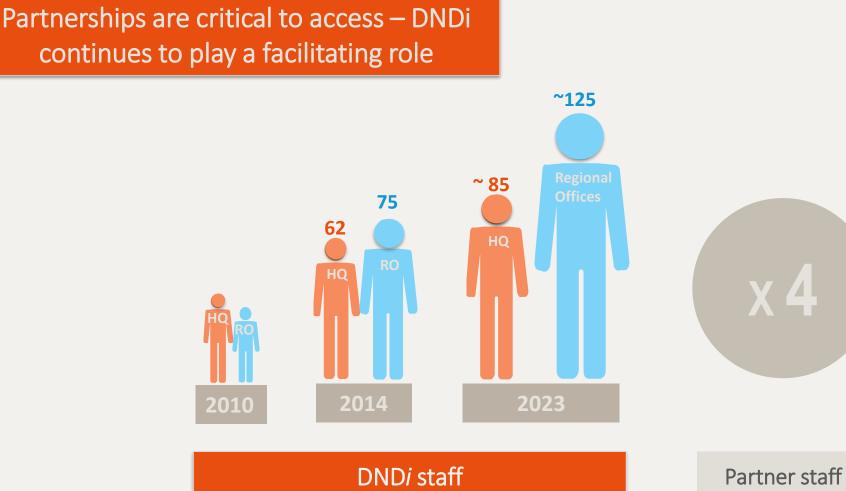
Colombia

LEISHMANIASIS EAST AFRICA PLATFORM

LEISHMANIASIS



## People behind the work... in proximity to patients





Teams in Asia



Teams in Africa





Teams in Latin America



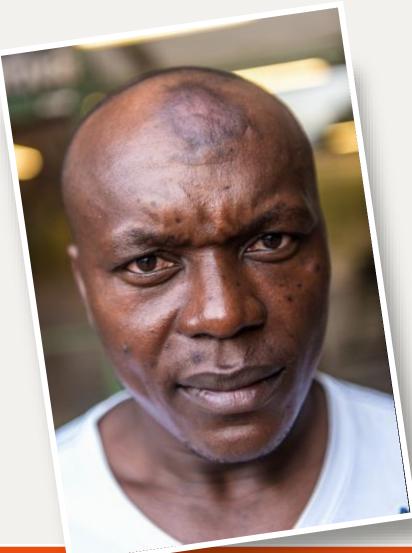
ZURDUY

Illivia

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## Our concern for Access: Keeping Patients at the Core of Innovation

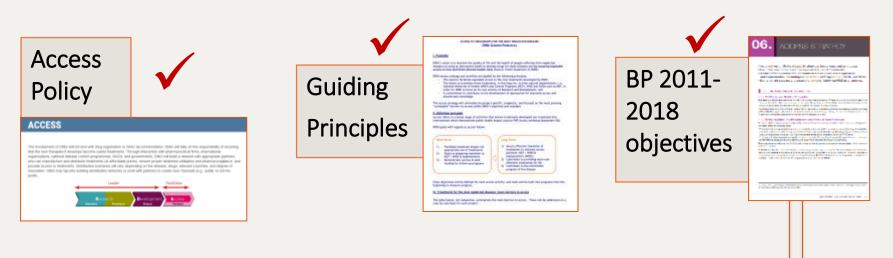


Serafino Moreno
Colombian miner

DNDi Drugs for Neglected Diseases i

## Access at DNDi has taken many shapes and formats over the years...

#### BP 2011-2018 objectives

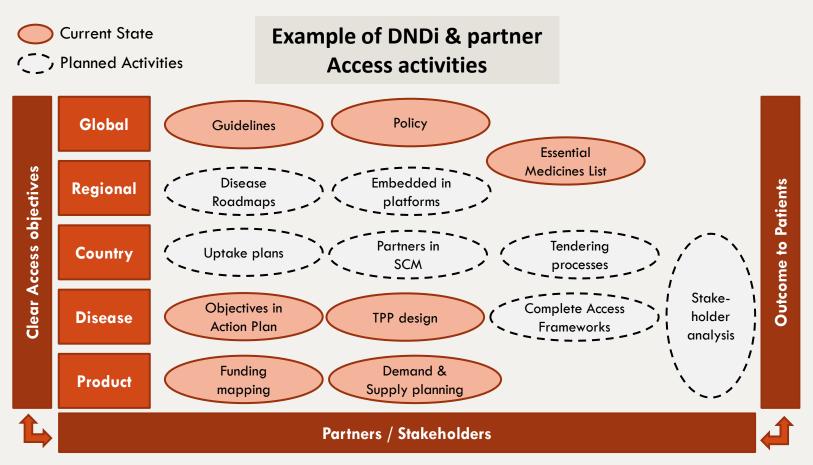


#### **Access Objectives**

- Facilitate maximum impact via appropriate use of treatments
- Assure effective transition of treatments to relevant access partners and implementers, including national control programs, WHO and NGOs
- Further demonstrate success to support the DNDi model
- Target disease control strategies



Linking Innovation with Access is difficult and requires many stakeholders working on collective activities



Some activities have been completed for certain disease areas. DNDi will create a more systematic approach to ensure Access at multiple levels across the organization



### Access Framework\*

#### Availability

- Regulatory
- Manufacturing
- Forecasting • Procurement • Distribution • Availability Delivery Architecture Adoption Affordability Affordability Adoption Government Global National NGO • Provider Patient • Patient •

\* Source: Laura J. Frost & Michael R. Reich. ACCESS How do good healthtechnologies get to poor people in poor countries? Published by the Harvard Center for Population and Development Studies. 2008.

## The example of Chagas Disease in Latin America Its impact



Approximately **5.7 million** infected **10,000** deaths per year **528,000** DALYs



In Brazil alone, losses of over US\$ **1.3 billion** in wages and industrial productivity were due to workers with Chagas disease



**Endemic in 21 countries in Latin America**, Chagas kills more people in the region than any other parasite-born disease, including malaria. Patient numbers are growing in, developed countries



Two old treatments available- Few Health Technologies Only **1% are currently under treatment-** No access

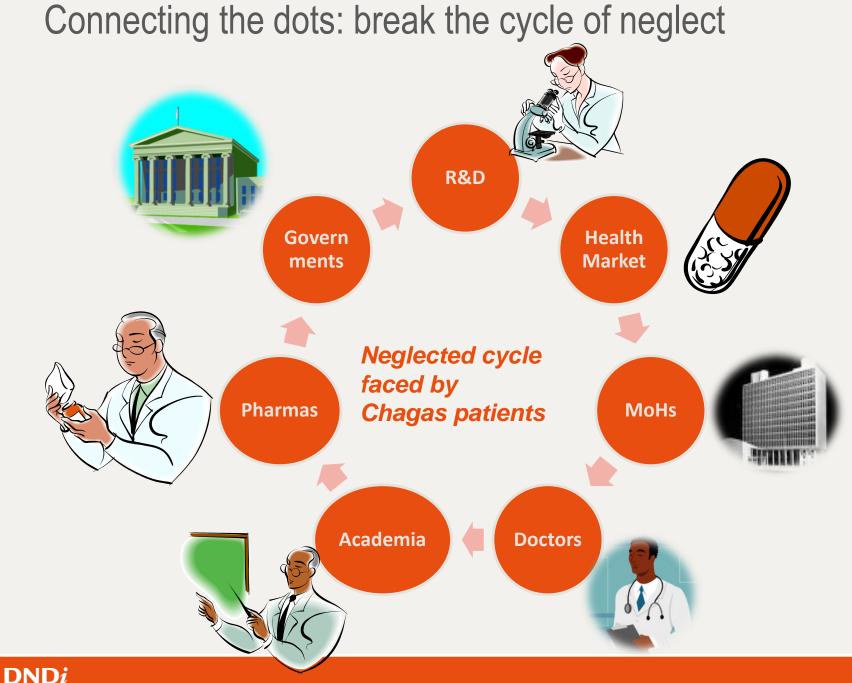


Amazonas, Brazil João Roberto Ripper, 2010

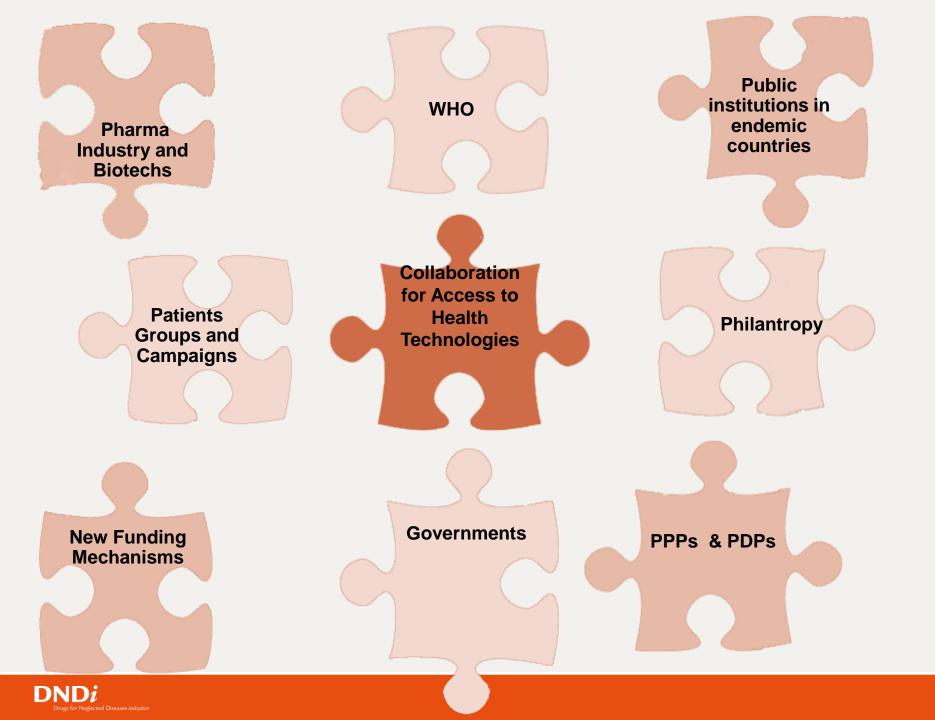


The example of Chagas Disease in Latin America Access Barriers: What we have achieved so far...





Drugs for Neglected Diseases *initia* 



## Linking Innovation to Access: Partnering in Access

- Re-Introduce the notion of emergency response: patients are dying!
- Leadership and coordination from the endemic countries
- Break the silence: Visibility; Voice of the patients and Campaigning
- Build Collaborative models: develop road maps (drug access strategies per disease)
- New **Organizational structures** established with the purpose of coordinating the availability, affordability, and adoption activities (define roles and responsibilities+ joint KPI's)
- Moving beyond: advocating to change the R&D Landscape



#### Santiago del Estero, Argentina

João Roberto Ripper, 2009

Without political commitment and strong collaborations, we are bound to fail!



#### Amazonas, Brasil João Roberto Ripper, 2010

### **ASANTE- OBRIGADO - GRACIAS**

#### **THANK YOU**

