

THE CURRENT DRUG PIPELINE FOR NIDs IN AFRICA FOCUS ON DNDI'S PORTFOLIO



**EDCTP Stakeholder Meeting on Neglected Infectious Diseases** 

27-28 June 2013
Ministry of Foreign Affairs (MOFA)
Bezuidenhoutseweg 67, The Hague, the Netherlands



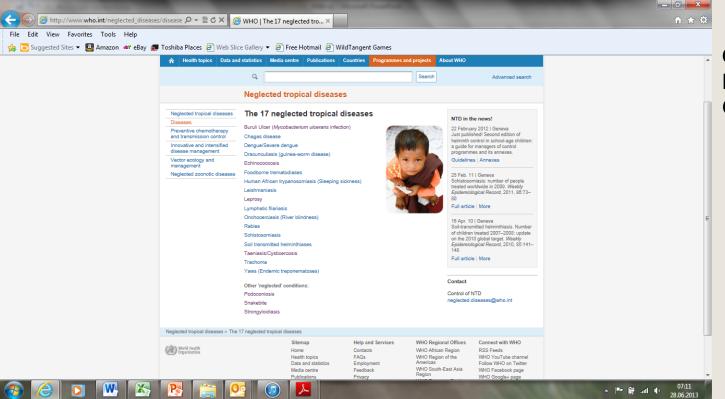
# THANK YOU EDCTP-2!



Starting with the end in mind ...

#### Criteria for NTDs ...

A proxy for poverty and disadvantage / Affect populations with low visibility and little political voice / Do not travel widely / Cause stigma and discrimination, especially of girls and women / Have an important impact on morbidity and mortality / Are relatively neglected by research / Can be controlled, prevented and possibly eliminated using effective and feasible tools



Other definitions: Hotez et al, G-Finder, BVGH reports:

Total 49 ... ?



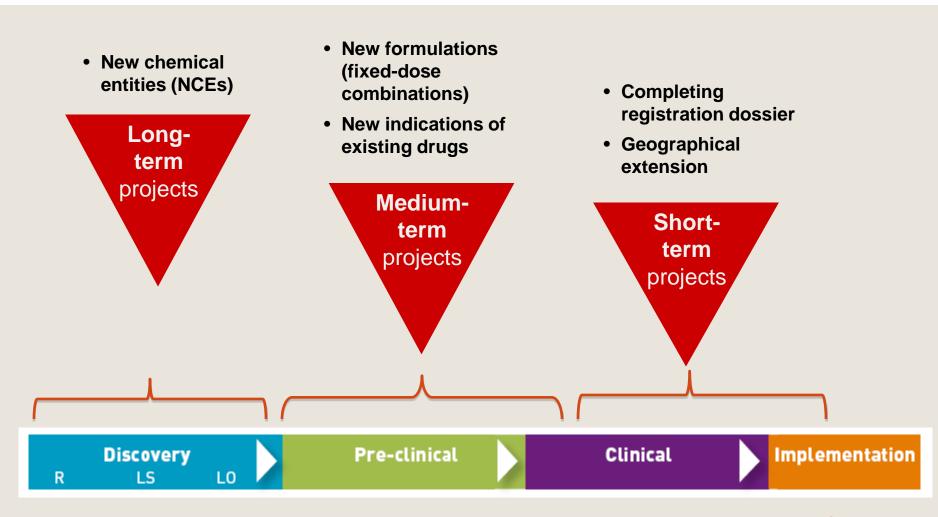
# Priority setting: unmet medical needs

- Defined at foundation FDC for malaria
- Defined at foundation kinetoplastids
  - HAT: safer treatment for HAT... later oral treatment for stage 2 and stage 1 that can be used at primary care level
  - Leishmaniases
    - Safer treatment for VL oral treatment/combination for all regions and all age groups for VL
    - Later --- need to address HIV/VL, PKDL, asymptomatic patients
    - Later ... CL: topical/oral for L braziliensis and L tropica
  - Chagas: oral treatment for chronic indeterminate stage and pediatric dosage form
- Defined later and added as mini-portfolio:
  - Pediatric user-friendly ARV (PI) formulation
  - macrofilaricide



# DNDi Portfolio-Building Model:

Address Immediate Patient Needs & Deliver Innovative Medicines





#### Visceral Leishmaniasis - context

- 0,15-0,3 million annual incidence (VL).
- □ Six countries harbor 95% of 150,000-300,000 VL cases per year: (India, Bangladesh, Sudan, South Sudan, Ethiopia, Brazil)
- Anthrooponotic in Asia, Africa and zoonotic in America.

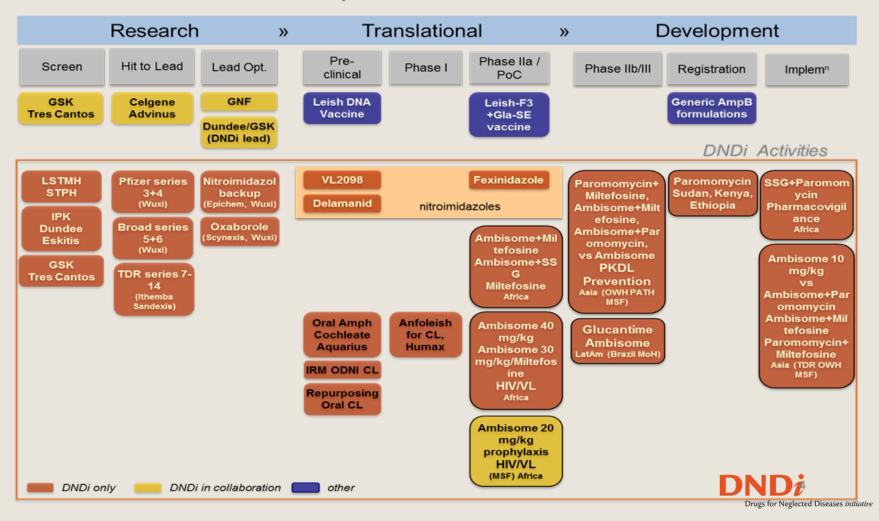
Interlinked contexts with poorly described infection sources driving disease manifestation and outbreaks on top of a complex nutritional and immune picture





## Leishmaniasis – R&D activities

#### Leishmaniasis Landscape/DNDi Activities 2013



# Sleeping Sickness: From Unacceptable To Better, Towards Tools for Elimination







Since 2009: NECT 2016?

Oral treatment & rapid diagnostic test

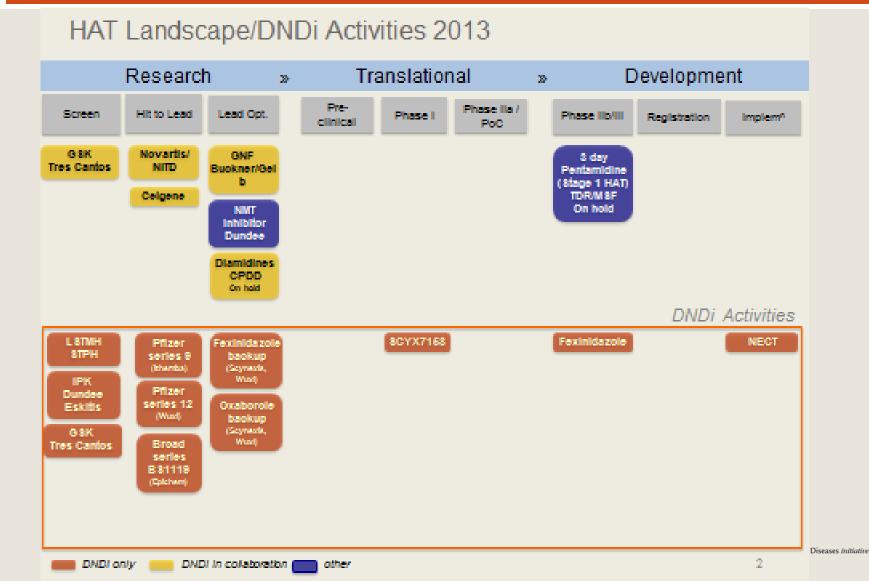
10 years ago:

**Eflornithine** 

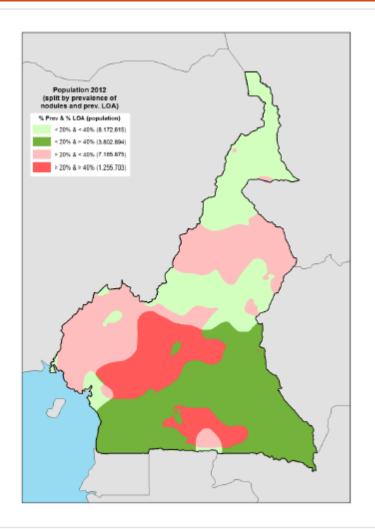
Melarsoprol



## **HAT R&D** activities



#### Filariasis: different needs for macrofilaricide



#### For example in oncho/Loa co-infection



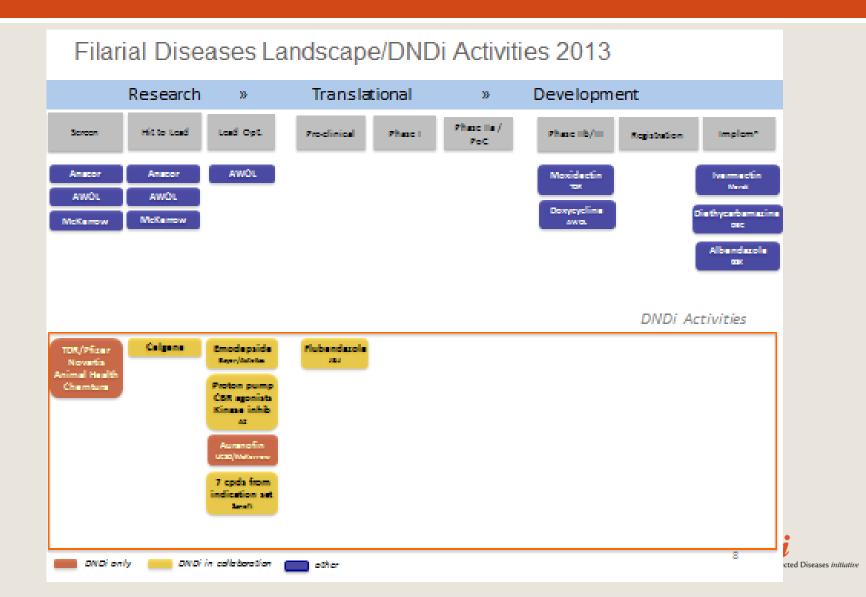
Table 2. Population living in hypo-endemic and the estimated number of people infected in 2012 considering the risk of suffering SAEs after ivermectin treatment.

Area	Population 2012	Estimated number of people with onchocerciasis in 2012
Hypo-endemic areas at low risk of SAEs (Loa loa prevalence < 40%)	8 172 615	655 945
Hypo-endemic areas at high risk of SAEs ( <i>Loa loa</i> prevalence > 40%)	3 802 894	305 226
Total	11 975 509	961 171

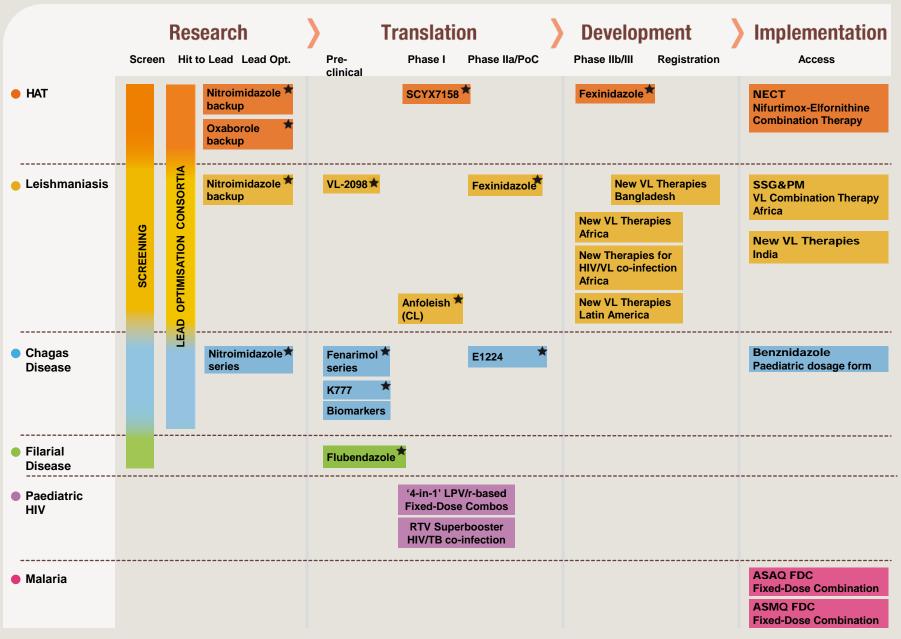
Figure 5. The map represents areas at high risk of suffering SAEs following ivermectin treatment (>40% Loa loa prevalence) and areas at low risk of suffering SAEs following ivermectin treatment (<40% Loa loa prevalence). The legend contains the total estimated number of people living in each area.



## Filariasis R&D activities



### DNDi Portfolio June 2013

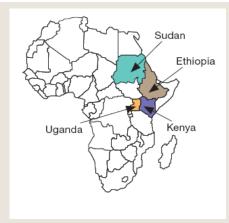


## Transversal needs – points to consider

- Surrogate markers of efficacy
- Pediatric clinical development /studies
- Need for late stage / PV / field trials
- Utilise and strenghten existing research capacities / platforms
- Laboratory normal ranges ...



# 3 Clinical Platforms to Strengthen Research Capacities in Endemic Countries



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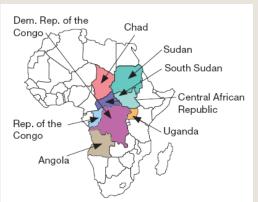


CHAGAS

# Major Role of Regional Disease Platforms

- Defining patients' needs and target product profile (TPP)
- Strengthening local capacities
- Conducting clinical trials in Good Clinical Practice (Phase II/III studies)
- Facilitating registration
- Accelerating implementation of new treatments (Phase IV & pharmacovigilance studies)





# Partnerships: No One Can Do It Alone A Global Network to Leverage Resources





Thank you