

Innovation, Management of Intellectual Property and trade-related determinants of access - Lessons learned from 10 years of DNDi and its application to new disease areas

Michelle Childs Consultant Dndi Latin America

Regional Meeting on High Cost and Strategic Medicines Santiago, Chile September 02-03, 2015





OUTLINE

DNDi's Model- lessons learned

Dndi's new Business Plan

New Challenges

Global Challenges

DND*i*: Patient Needs-Driven & Innovative R&D Model

- Deliver 11 to 13 new treatments by 2018
- Establish a robust pipeline
- open knowledge innovation: Affordable treatment and equitable access to patients in need; Develop drugs as public goods, when possible
- Use and strengthen existing capacity in disease-endemic countries
- Raise awareness and advocate for increased public leadership

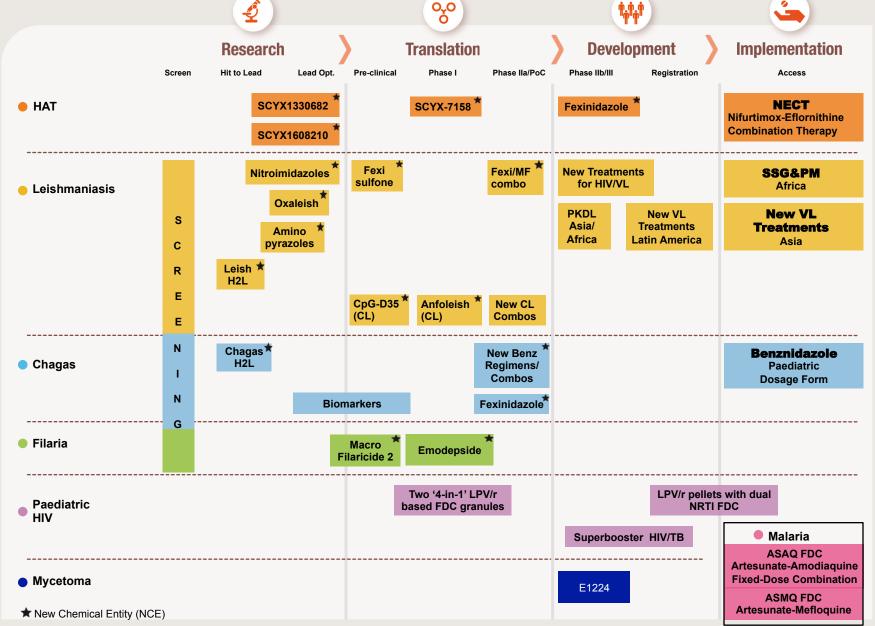


Presence in Latin America

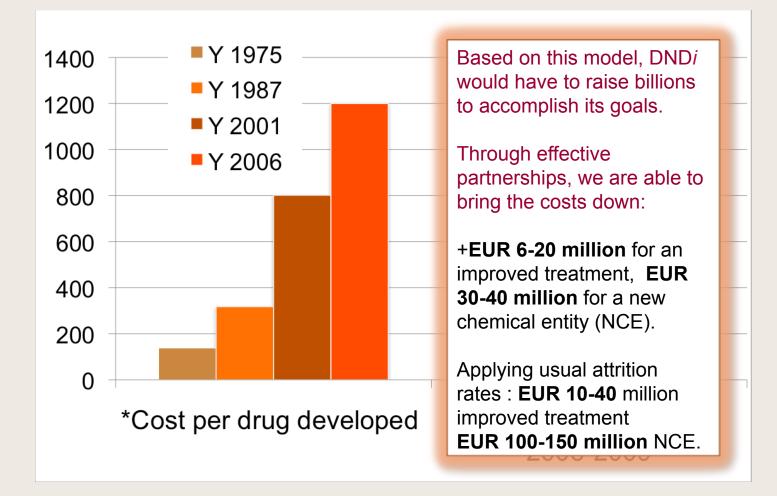
Argentina Bolivia Brasil Colombia Mexico Peru



DND*i* Portfolio June 2015 6 New Treatments since 2003

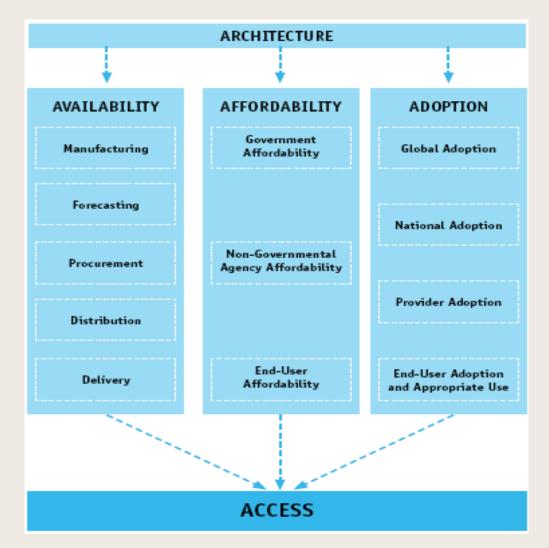


Average Cost to Develop One Drug – The Pharmaceutical Industry Data



*Source: PhRMA Pharmaceutical Industry Profiles 2007 + Does not take into account in kind donations.

Access not just about the price of a product.



Fuente: Laura J. Frost & Michael R. Reich (2008). *Access: How do good health technologies get to poor people in poor countries?* Harvard Center for Population and Development Studies

After 10 years experience key components for success:

- put the specific needs of patients in developing countries upfront, at the start of the innovation process;
- break the link between the cost of R&D and the price of products;
- ensure that the fruits of innovation are accessible and affordable;
- integrate global health R&D monitoring,coordination, and financing;
- strengthen and where relevant harmonize regulatory capacities in endemic regions to facilitate implementation of new health technologies

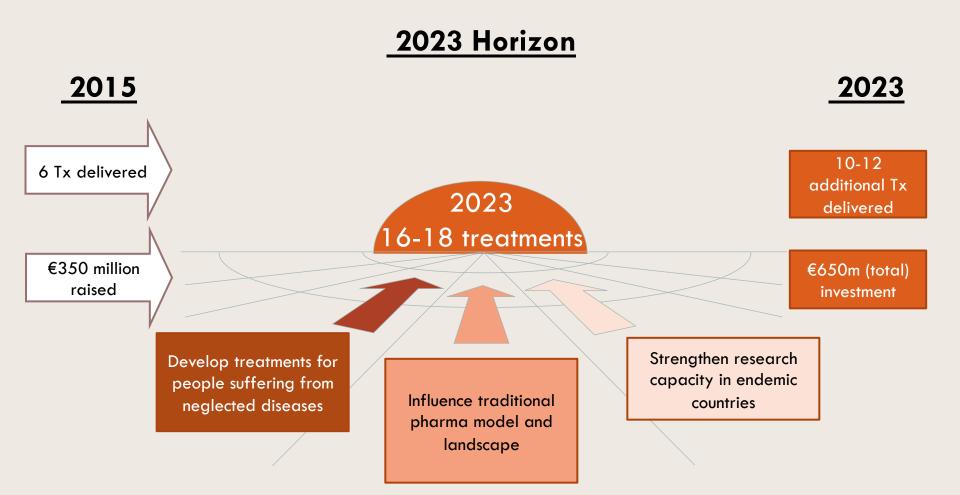
Key Elements of the New "Business Plan"



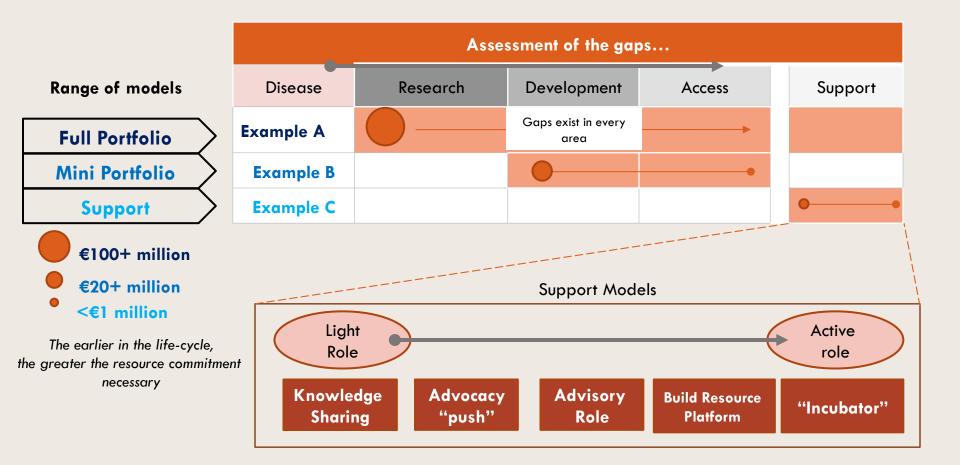
Major Points Of Consideration When Evaluating the Current Landscape In 2015...

- Despite incremental progress, "fatal imbalance" persists
- New R&D initiatives still largely *ad hoc,* fragmented, driven by priorities of few donors (e.g. B&MGF)
- "Pharmaceutical market failure" can no longer only refer to lack of R&D but also lack of access when innovation occurs
- Current biomedical R&D system unsustainable for all countries, regardless of income classification (MICs face specific challenges)
- Changing epidemiological and geopolitical trends mean "old" ways of thinking ("developing countries/infectious diseases" vs "developed countries/NCDs") no longer appropriate
- New risks (and opportunities) linked to "Ebola effect", AMR, etc. have surfaced

"2023 Horizon": 20 Years of DNDi



Range of R&D Models





Limited **Public Health** Approaches Using DAAs DNDi Strategy Addresses Main Drivers of Unmet Need

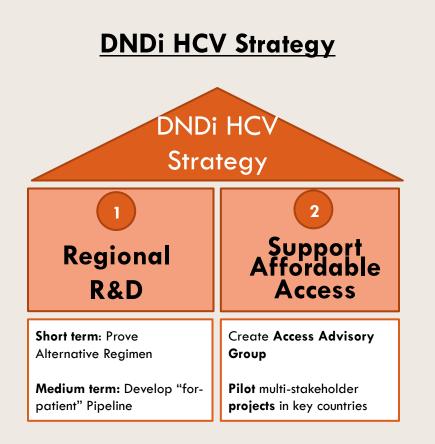
Drivers of Unmet Need

Lack of adequate R&D to support optimal DAA regimen

- Pharmaceutical companies not collaborating, developing regimens in their own pipeline
- Limited information on specific genotypes

Unaffordable treatment

- Prices of HCV drugs are unaffordable (ex. \$84,000 per treatment in US)
- Voluntary Licenses exclude several highburden countries (ex. Thailand, Malaysia, Brazil...)





5-Year Project (2 Steps)

DNDi Five-Year HCV Project: Enable Development of Public Health Tool	
Step 1: Develop Alternative Regimen Short-term	Step 2: Develop "for-patient" pipeline Medium-term
 Key Outcomes: Conduct Phase 3 Trials with SOF + DCV in Thailand and Malaysia Support access to affordable treatments (via creation of Access Advisory Group) (could include : Developing alternative treatments with favorable licensing /access terms, Patent oppositions, Compulsory licensing, VL's. Projects in key countries with partners 	 4. Develop for-patient pipeline of regimens Phase 2 Trial "A" (with novel regimen) Phase 2 Trial "B" (with other regimen) Phase 3 PoC adding alternative compound Registration of recommended regimen including "novel" element
Key milestones for next stages ▲Licensing agreements in place/availability of "alternative" compounds ▲Commitment from key governments to implement a Public Health Approach for HCV ▲Secured industrial partner for manufacturing alternative regimens	

Policy & Advocacy Objectives

Global Challenges- towards
 sustainable financing and new
 incentives for R&D



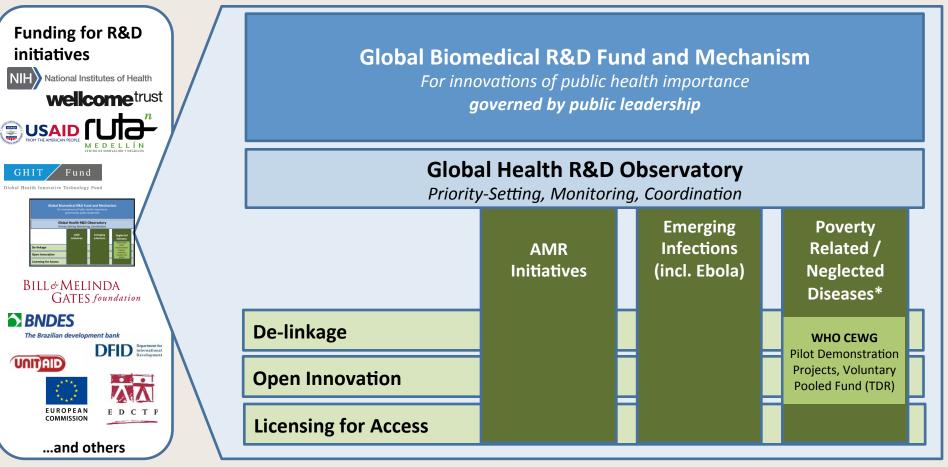
ESSAY

A Global Biomedical R&D Fund and Mechanism for Innovations of Public Health Importance

Manica Balasegaram¹, Christian Bréchot², Jeremy Farrar³, David Heymann⁴, Nirmal Ganguly⁵, Martin Khor⁶, Yves Lévy⁷, Precious Matsoso⁸, Ren Minghui⁹, Bernard Pécoul¹⁰*, Liu Peilong¹¹, Marcel Tanner¹², John-Arne Røttingen^{13,14}

 Access Campaign, Médecins Sans Frontières, Geneva, Switzerland, 2 Institut Pasteur, Paris, France,
 Wellcome Trust, London, United Kingdom, 4 Centre on Global Health Security, Chatham House, London, United Kingdom, 5 Jawaharlal Institute of Postgraduate Medical Education & Research, Puducherry, India,
 South Centre, Geneva, Switzerland, 7 INSERM, Paris, France, 8 Department of Health, Pretoria, South Africa, 9 Department of International Cooperation, China National Health and Family Planning Commission, Beijing, People's Republic of China, 10 Drugs for Neglected Diseases initiative, Geneva, Switzerland,
 Department of Global Health, School of Public Health, Peking University, Peking, China, 12 Swiss Tropical and Public Health Institute, Basel, Switzerland, 13 Norwegian Institute of Public Health, Norway, University of Oslo, Olso, Norway, 14 Harvard T. H. Chan School of Public Health, Boston, Massachusetts, United States of America

Global Fund & Mechanism



* Type II and III diseases, and the specific R&D needs of developing countries in relation to Type I diseases"

THANK YOU www.dndi.org

Regional Meeting on High Cost and Strategic Medicines Santiago, Chile September 02-03, 2015





IP & open innovation: DND*i* vision

•Affordable treatment and equitable access to patients in need

- Delinking the costs of R&D from the price of products
- >DND*i* activities not financed by IP revenues
- ➢No partnership without overcoming IP barrier

Develop drugs as public goods, when possible

- ➢ Disseminate the results of DND*i* work
- Encourage open publication of research data and technology transfer

Decisions regarding ownership of patents and licensing terms made on a case-by-case basis. Try to obtain 'Gold standard' licensing terms.