

FIND: Addressing the diagnostic challenge of Human African Trypanosomiasis

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FIND

FOUNDATION FOR
INNOVATIVE NEW DIAGNOSTICS

Foundation for Innovative New Diagnostics (**FIND**)

A public engine for diagnostic development

- ❖ Non profit foundation founded in 2003 as spin-off from TDR and funded by the Bill & Melinda Gates Foundation
- ❖ Dedicated to the development of diagnostic tools to be used in the public health sector for the detection of poverty related infectious diseases
- ❖ Currently involved in TB , HAT and Malaria
- ❖ Chair of the Stop TB New Diagnostics Working Group



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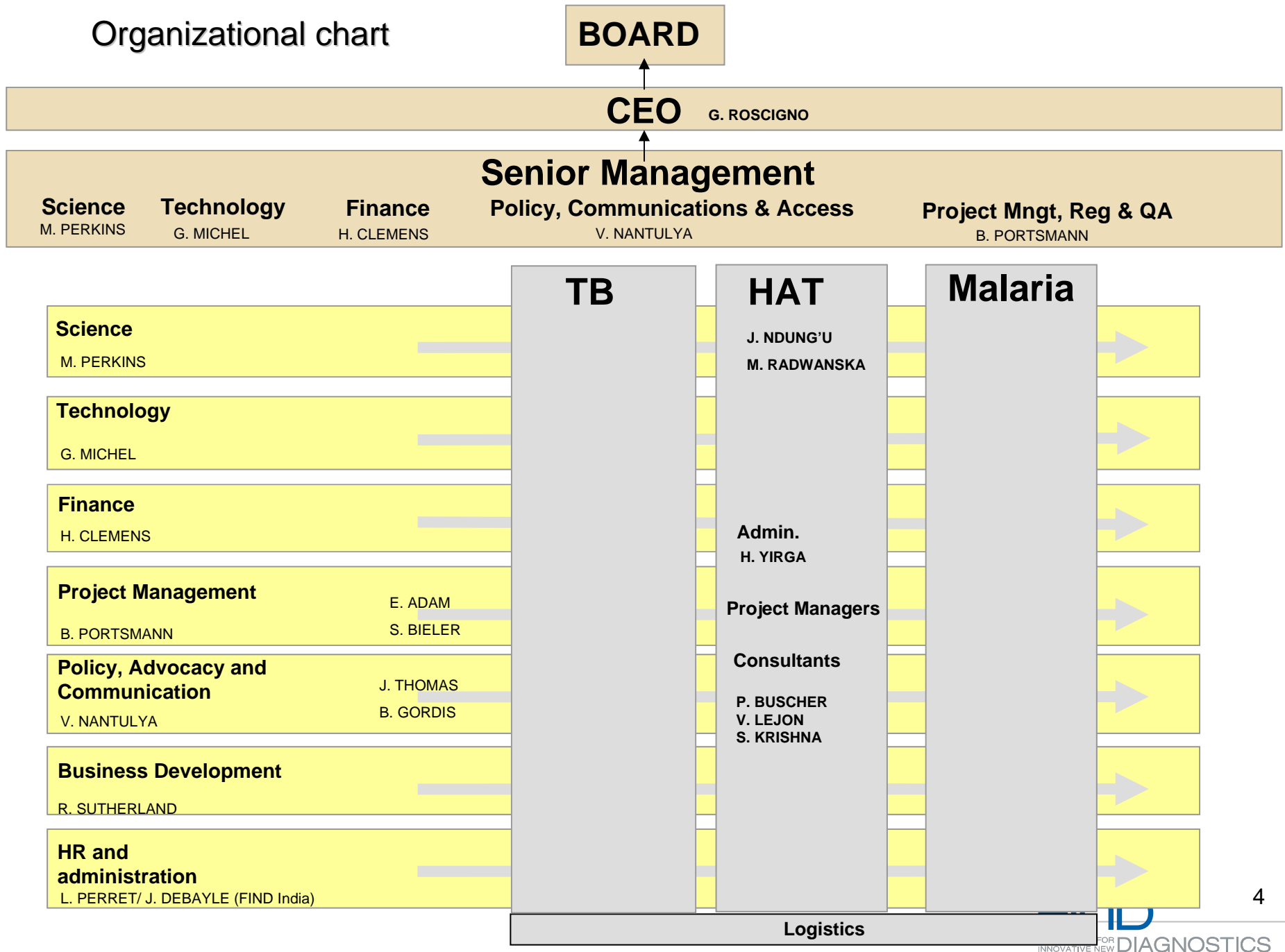
FIND mission

FIND's mission is to accelerate the development, evaluation, and appropriate use of high-quality yet affordable diagnostic tools for poverty related infectious diseases.

Background on FIND

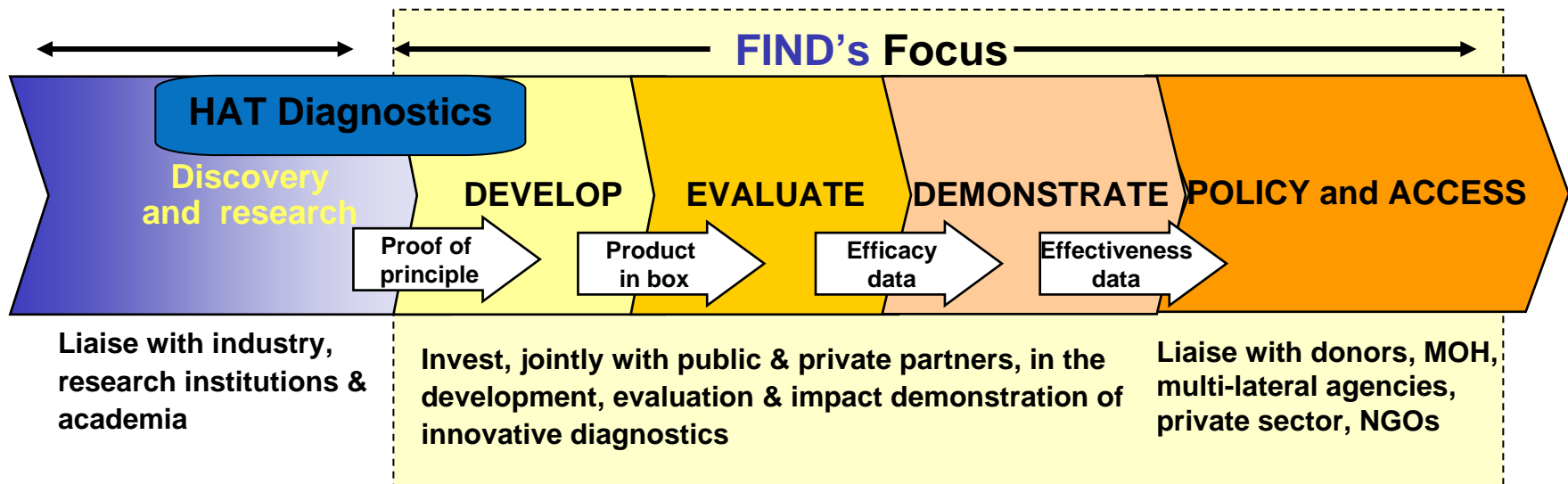
- FIND was established as a non-profit foundation in **2003** at the **World Health Assembly**
- FIND is the only PPP, wholly dedicated to **improved diagnostic technologies for poverty related diseases** endemic in developing countries
- Initial funding from BMGF for TB
- Dec. 2005: funding from BMGF for HAT (Sleeping sickness) with WHO
- Dec. 2006: Malaria
- June 2007: ISO 9001 and 13485 certification
- July 2007 Two TB products approved by WHO and BMGF renewal of TB grant (62 Million US)
- Other poverty related diseases to be included in time

Organizational chart

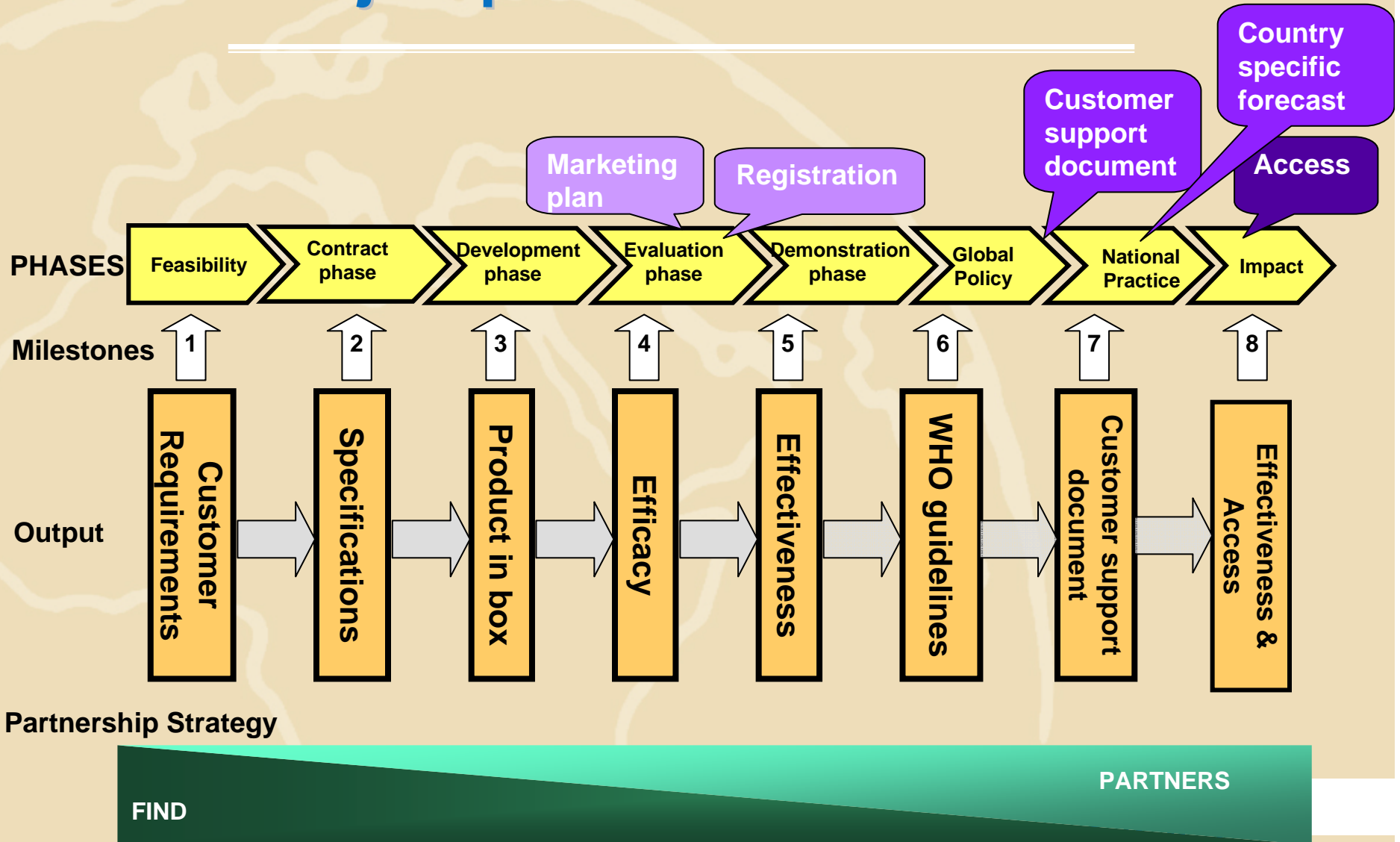


FIND's Product Delivery Path

From concept to access



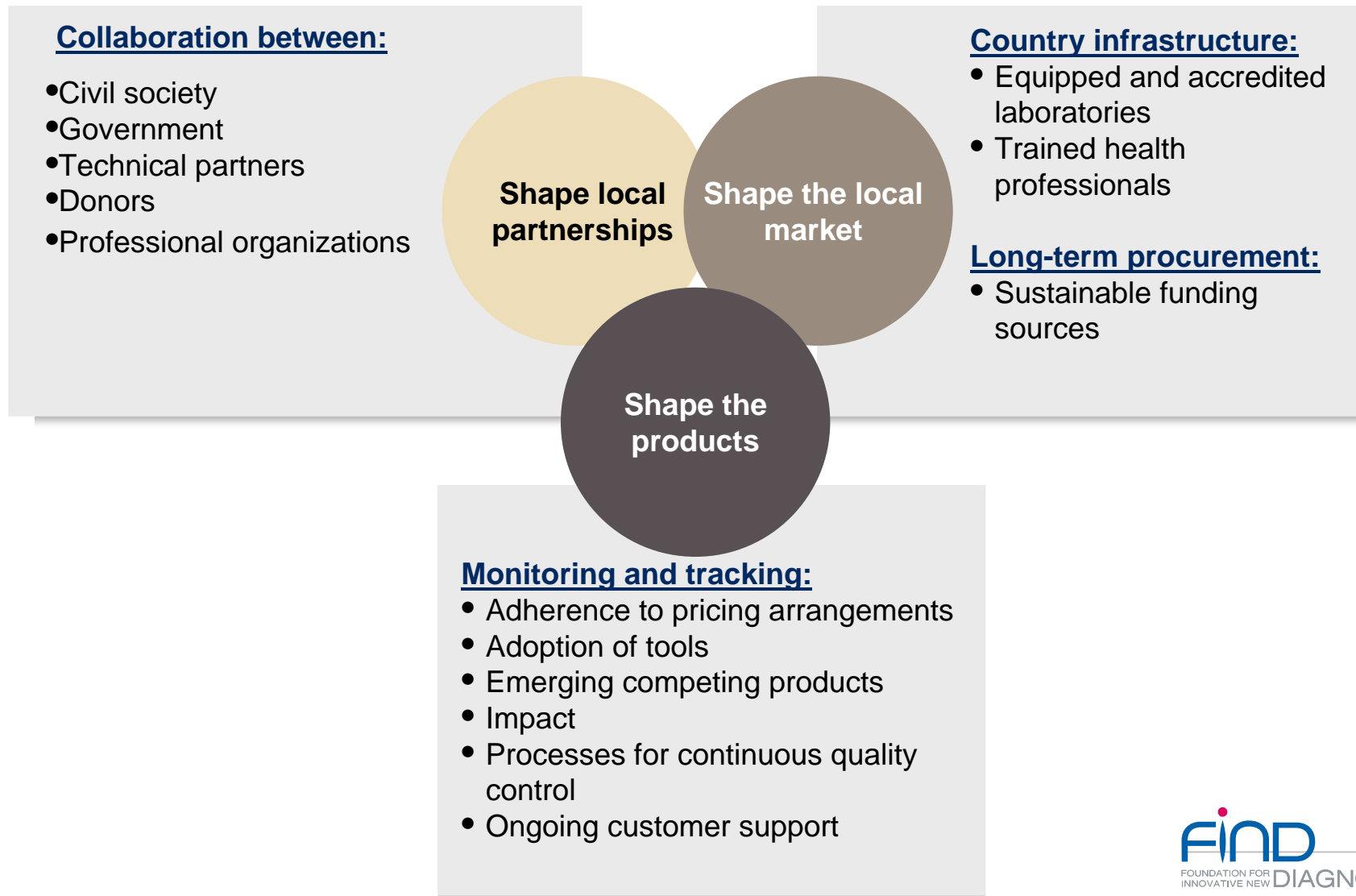
Project phases & milestones



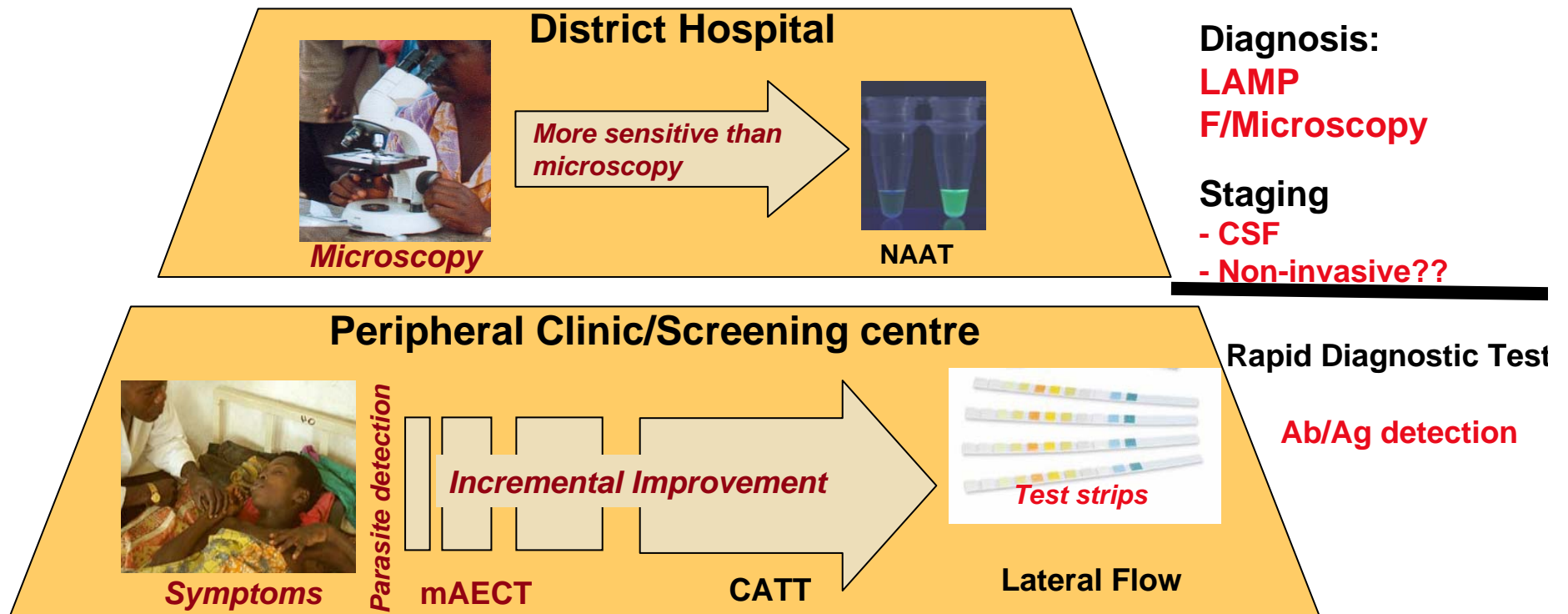
To achieve its goal FIND has a three pillared Business Development strategy based on:

- Pillar I: Intellectual property rights (IPR)
 - Ensure protection of the FIND Markets
- Pillar II: Achieving affordable price
 - Based on current market prices and FIND « value added » such as speed-to-result & increased sensitivity
- Pillar III: Support the appropriate manufacturing strategy (G.A.M.M.SM)
 - Achieve high volume, low cost, early

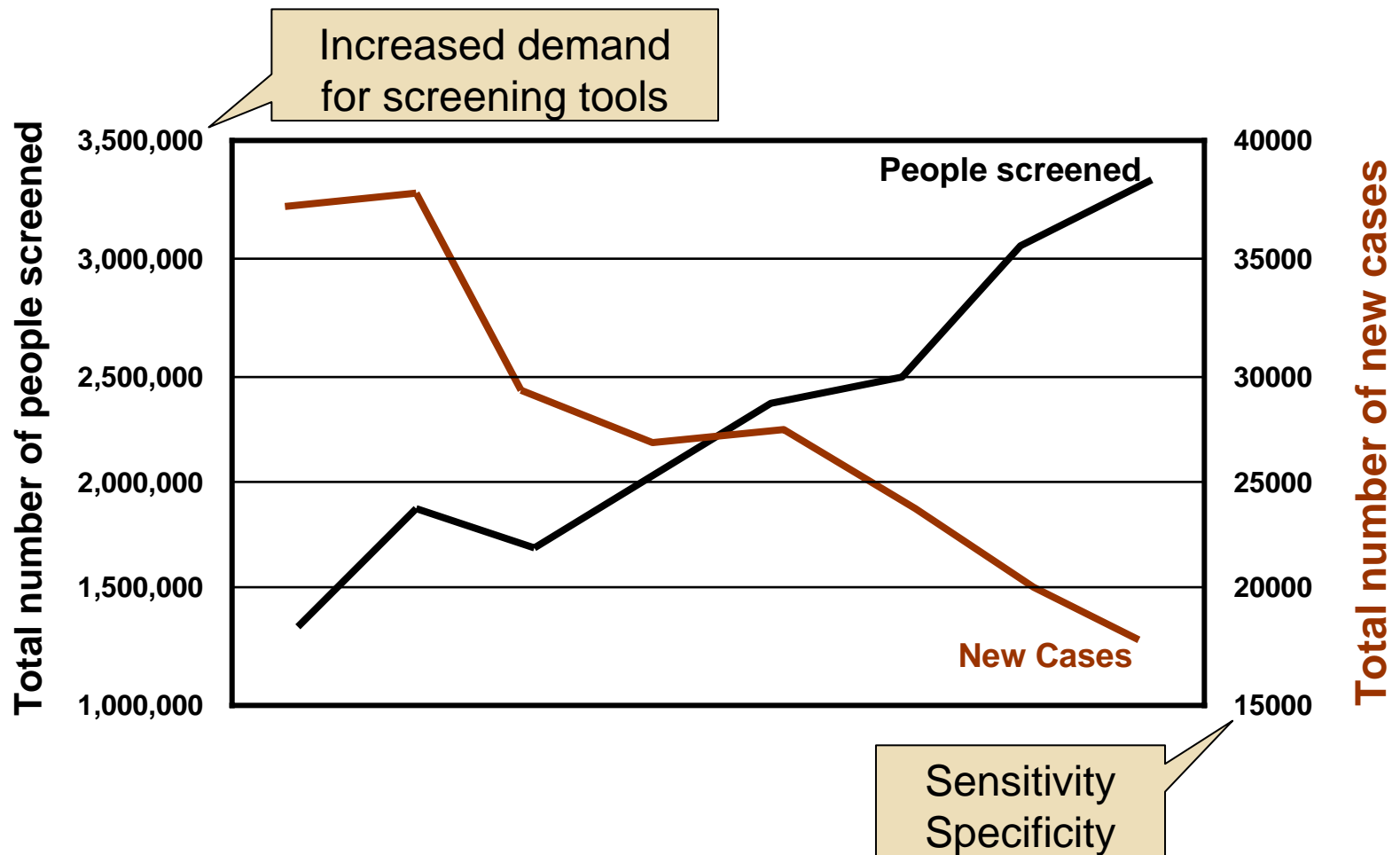
Ensuring Access in the field requires extensive collaboration along three dimensions- FIND has plans to address all three dimensions



FIND's Strategy on HAT diagnostics



People screened by active case finding, and new cases reported, 1997-2004



Diagnosis of Sleeping Sickness

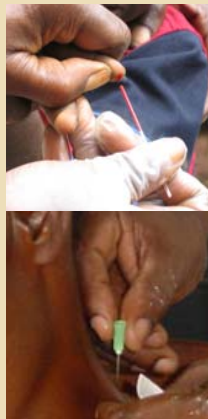
Clinical signs

Non-specific for the disease

Suspect

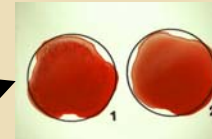
Case

Staging



Direct

Indirect



Microscopy

Serology

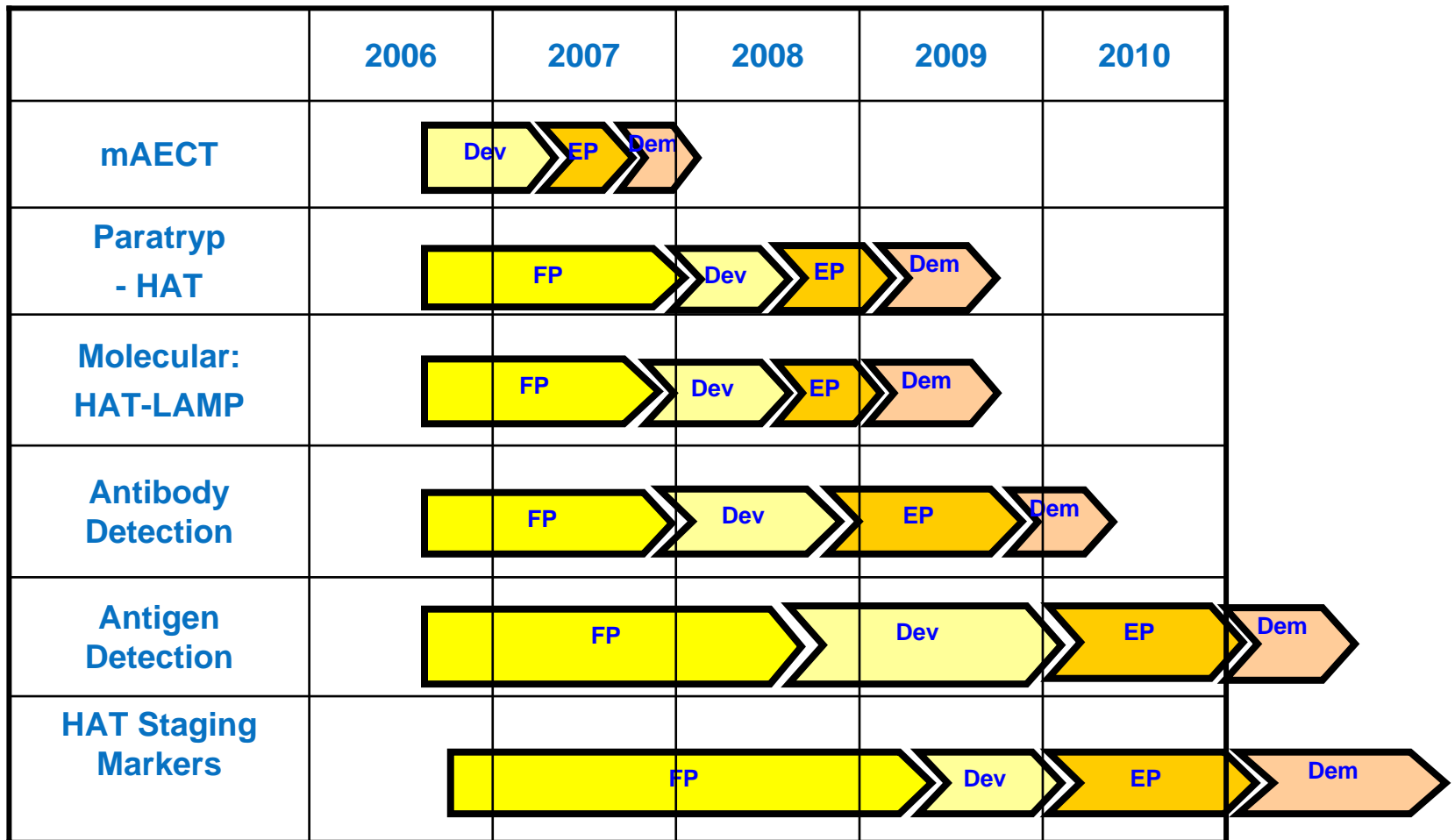
Molecular
Methods



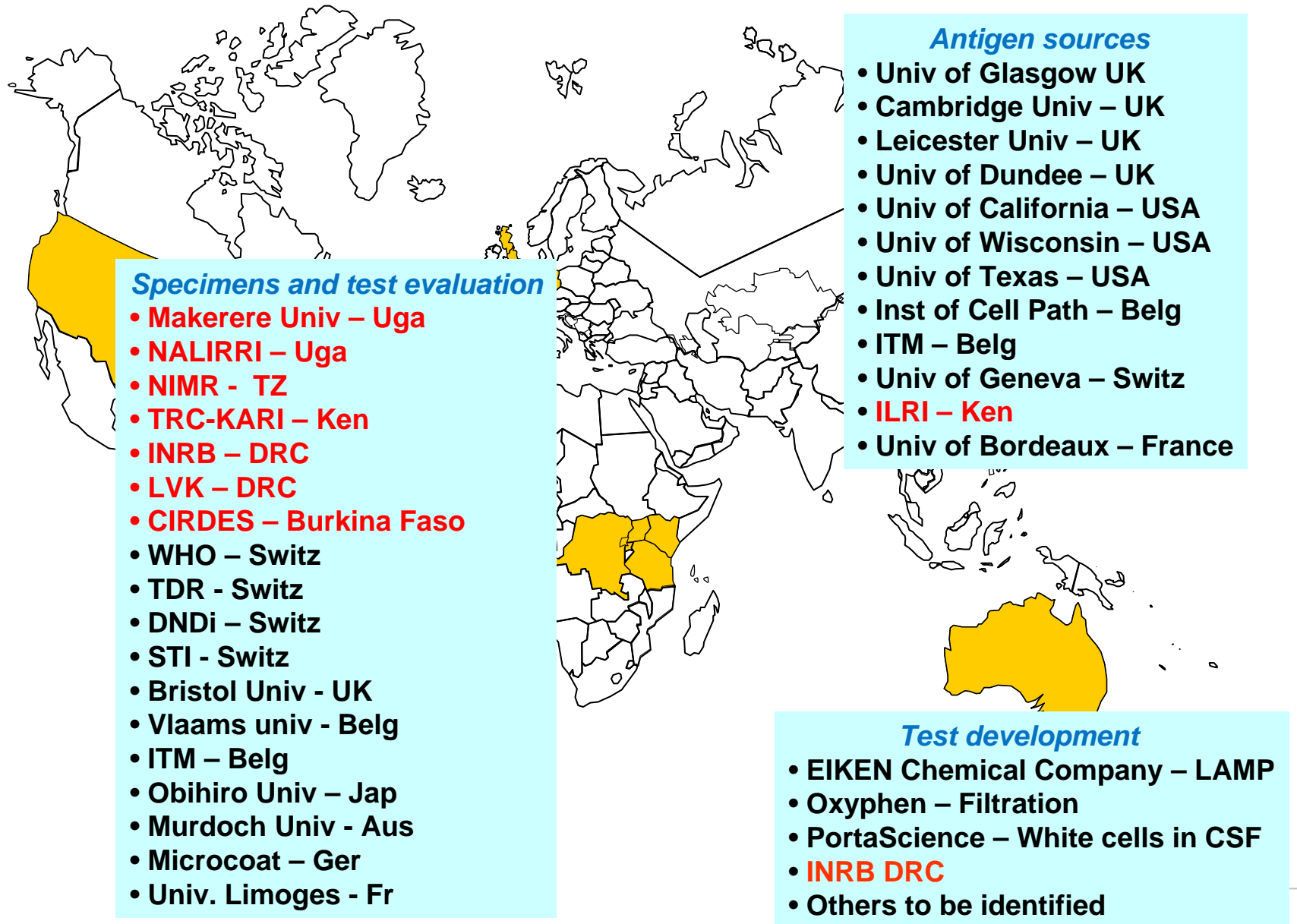
FIND/WHO HAT diagnostics projects

Group	Projects	Status
Parasite Detection	<ol style="list-style-type: none"> mAECT Paratryp 	<ul style="list-style-type: none"> mAECT: Assembly (INRB-DRC) Feasibility projects: <ol style="list-style-type: none"> Membrane filtration (TRC-KARI) Nanobodies (VIB) Fluorescence microscopy, etc
Serological Detection	<ol style="list-style-type: none"> Antibody Antigen 	<ul style="list-style-type: none"> Screening antigens (Microcoat) Single chain variable fragment (scFv) antibodies (SBRI) Nanobodies (VIB) Aptamers (DUT)
Molecular Detection	<ol style="list-style-type: none"> LAMP 	<ul style="list-style-type: none"> Three tests optimized (Murdoch & Obihiro) Reproduced in endemic country labs
Staging of HAT	Staging Markers projects	<ul style="list-style-type: none"> Incremental improvement (1: KIT-ITM) Known targets (2: Unv Aberdeen; Limonges) Discovery research (1: UOG)
FIND/WHO	<ol style="list-style-type: none"> Specimen Banking HAT Trial Support 	<ul style="list-style-type: none"> Hosting institute identified Screening underway

HAT diagnostics: Timelines



FIND Partners in HAT Diagnostics



The FIND/WHO HAT Diagnostics Programme

Thank You