

Session 6: Donor perspectives on Xpert MTB/Rif
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Annecy
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BILL & MELINDA
GATES *foundation*

Role of Diagnostics in TB program strategy

TB program Goal

Accelerate decline in TB incidence, focusing on interventions that reduce transmission...



...by increasing effectiveness of vaccines



...by increasing early diagnosis and appropriate treatment of infectious cases

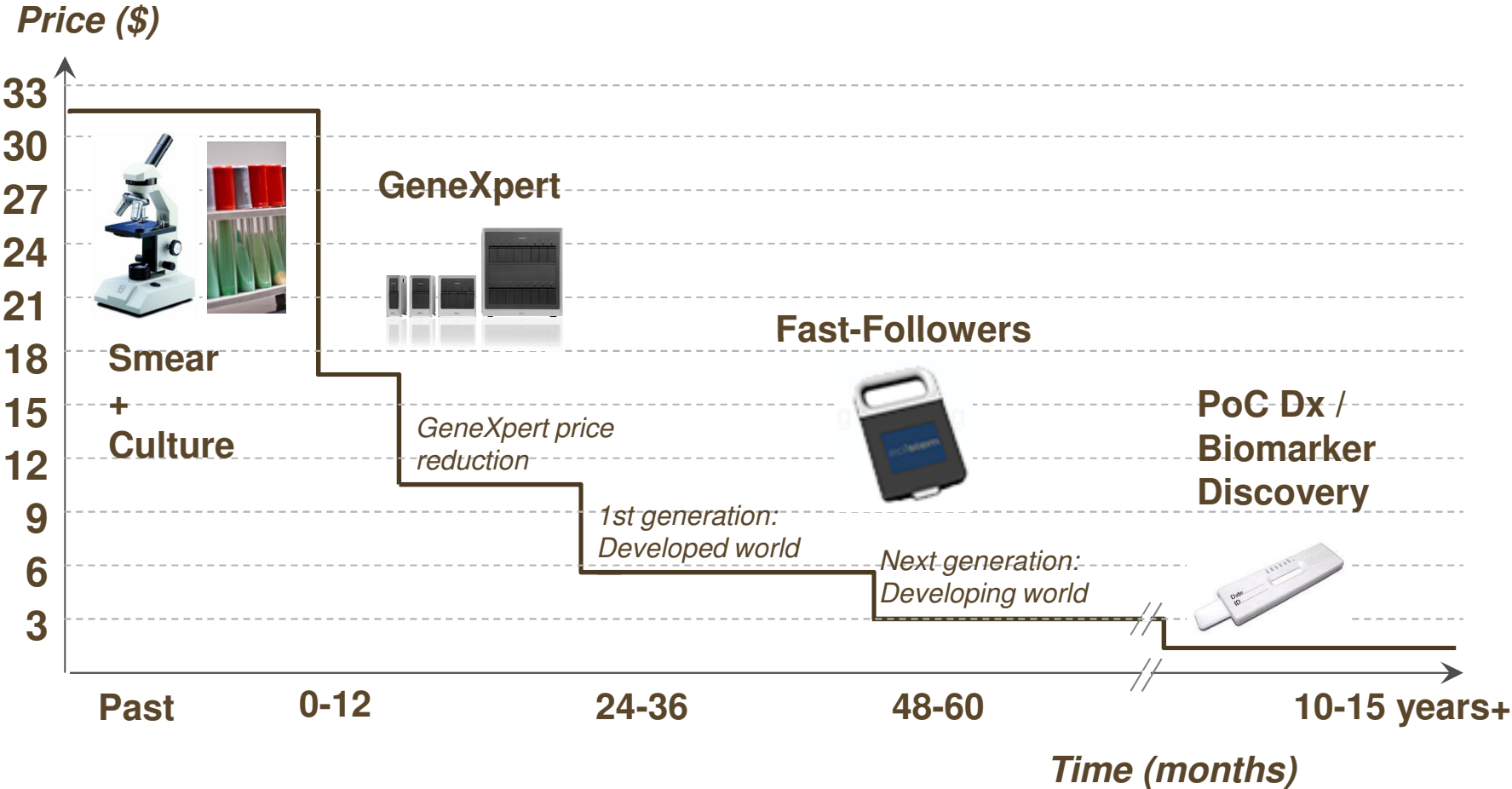
Diagnostic role

Limited – currently no priorities identified

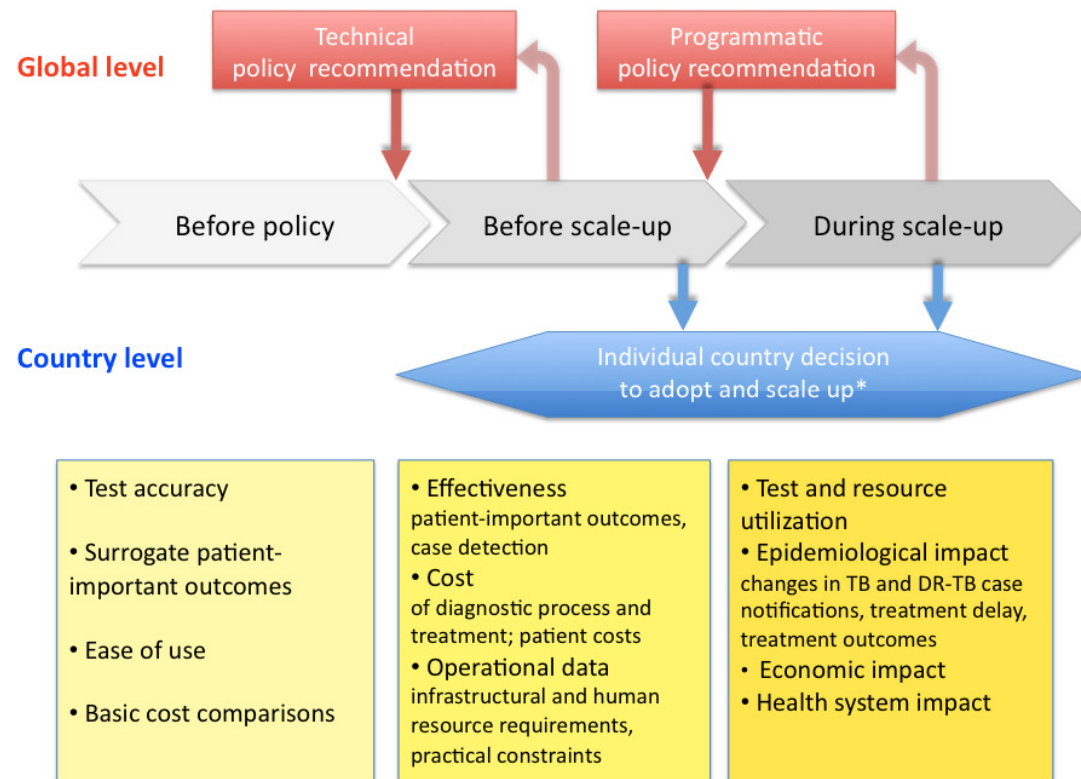
Reduce delay between onset of active disease and appropriate treatment via:

- Rapid/same day diagnosis upon first seeking care (first visit)
- Active case finding (targeted) in the community before suspect seeks care
- Rapid and accurate detection of suspects at point of care (community)
- Link new drugs/regimens to DST

GeneXpert price reduction and Fast Followers are steps in long-term path to point of care TB Dx









Need for impact evaluation; which diagnostic and when



Cobelens, et al. JID 2012

Dashboard of TB Diagnostic Investments

Dx	Investment	Likely Impact ¹	Likely Technical Success
GeneXpert delivery and impact evaluation ²	Multiple \$23 - \$26M		
Molecular Dx fast follower	TBD		
Biomarker for active TB and POC/Dx platforms	Multiple \$23M		

¹ Impact goal of TB team strategy

² Excludes \$10M in development funding

Long-term vision – POC Dx using new TB biomarker

TB biomarker discovery

- 12 grantees
- Well-characterized clinical samples from FIND
- Targeting based on
 - Diversity across broad set of markers and sample types
 - Risk balance

Initial results expected Q1 2014 to allow a down selection of promising candidates for further development

