

Country experiences on bovine TB/ zTB diagnosis, surveillance and control

Country: Pakistan

Name of presenter : Dr. Fareeha Adnan

Designation of the presenter: Consultant Microbiologist



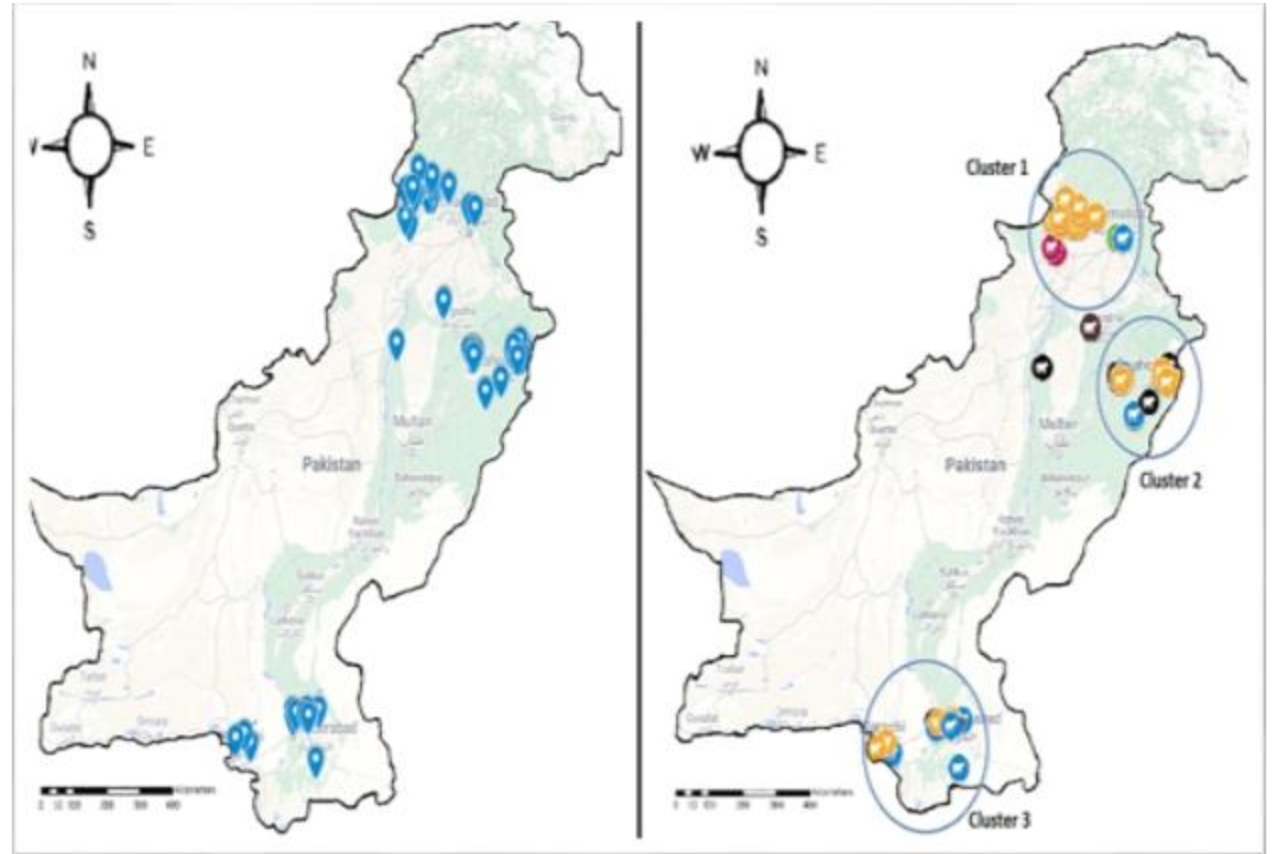
中国动物卫生与流行病学中心
China Animal Health And Epidemiology Center

**WOAH Regional Hands-on Training
on Zoonotic TB Diagnosis**
Qingdao, China P.R., 1 – 5 September
2025

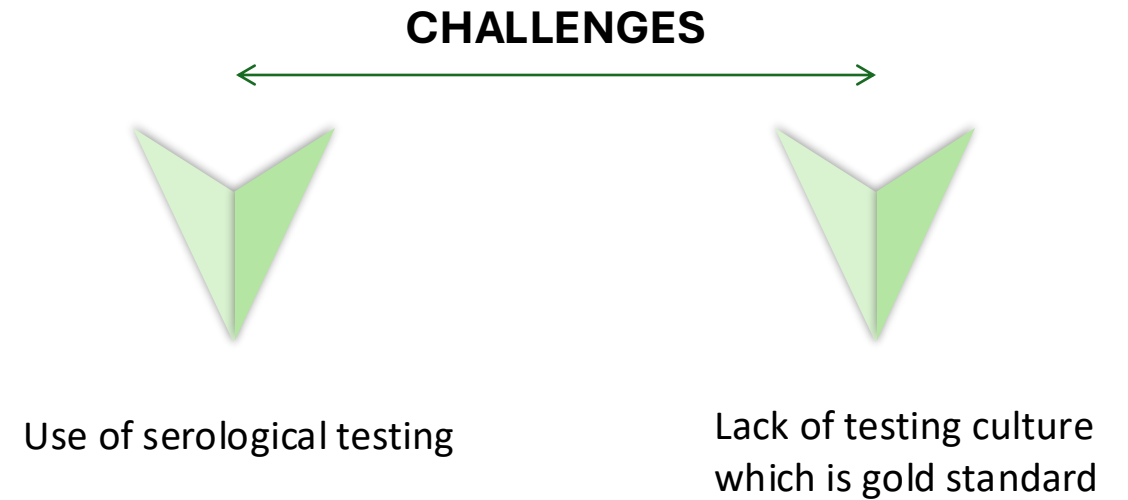
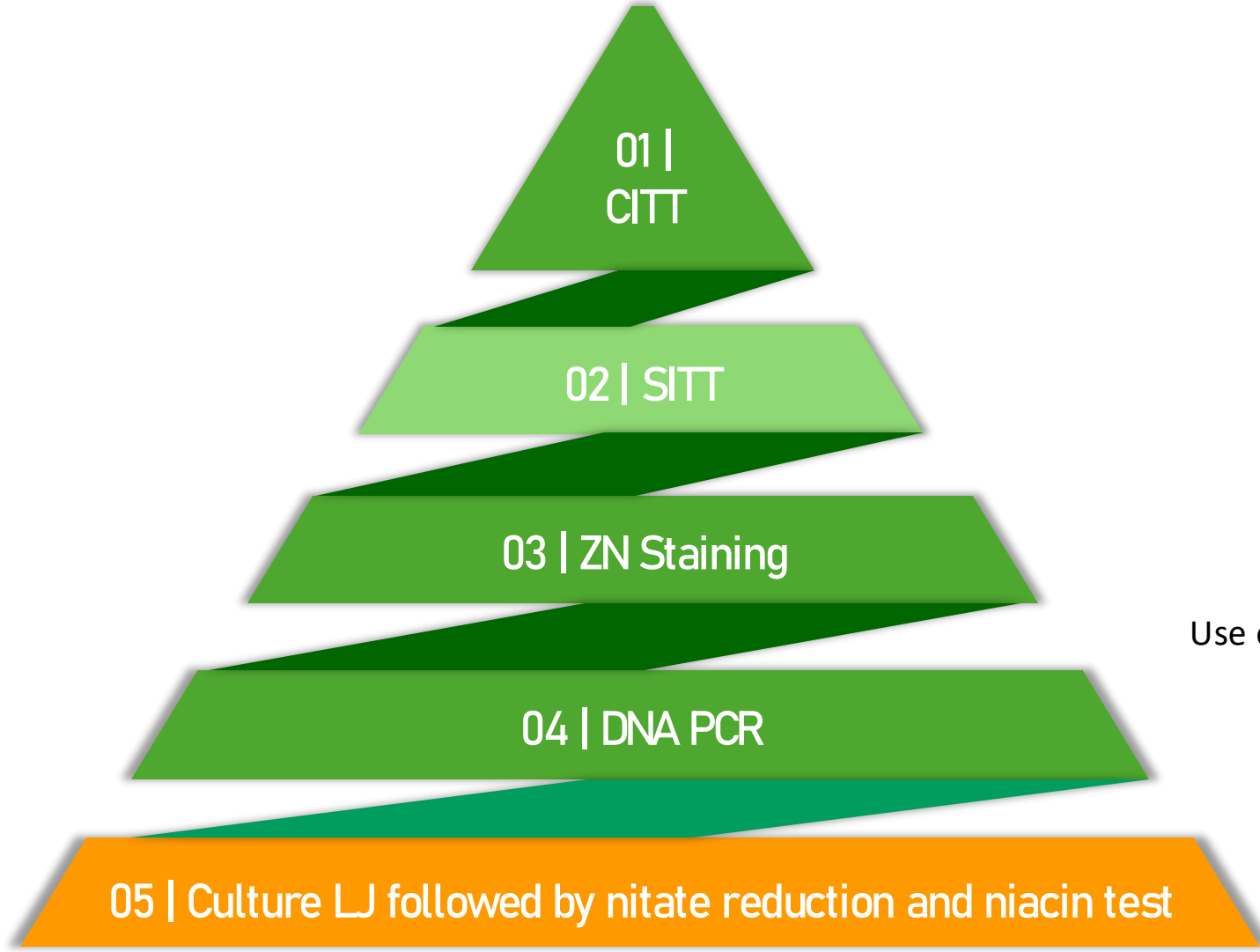




The maps demarcate the political borders of Pakistan. Left): The blue location icons represent the cities in which the 40 studies were conducted. Bovine tuberculosis prevalence studies were performed in 19 districts, with most districts targeted multiple times over the course of two decades. Right): Data points of 40 studies. Each location icon is represented by either a cow or a deer icon with different background colours. Blue colour represents studies that tested only cattle, black colour represents studies that only tested buffalos, pink colour represents studies that tested buffaloes, cattle, goat and (or) sheep, orange colour represents studies that tested both buffaloes and cattle. Green colour deer icon represents studies that tested different wildlife species. The large circles represent the three clusters of studies identified in this review paper.



REF: Fareed Z, Rana A, Hadi SA, Geluk A, Hope JC, Khalid H. A one health-focused literature review on bovine and zoonotic tuberculosis in Pakistan from the past two decades: challenges and way forward for control. *One Health*. 2024 Jun 1;18:100763.





- Currently we don't have programmed surveillance activities however different research studies are being performed

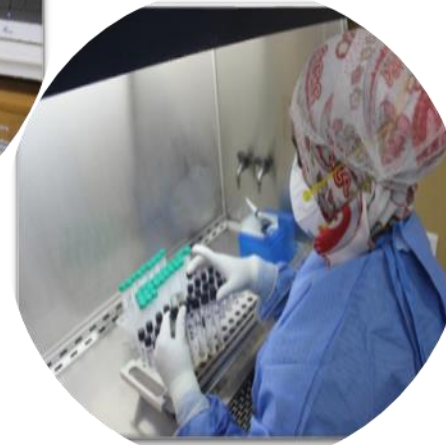
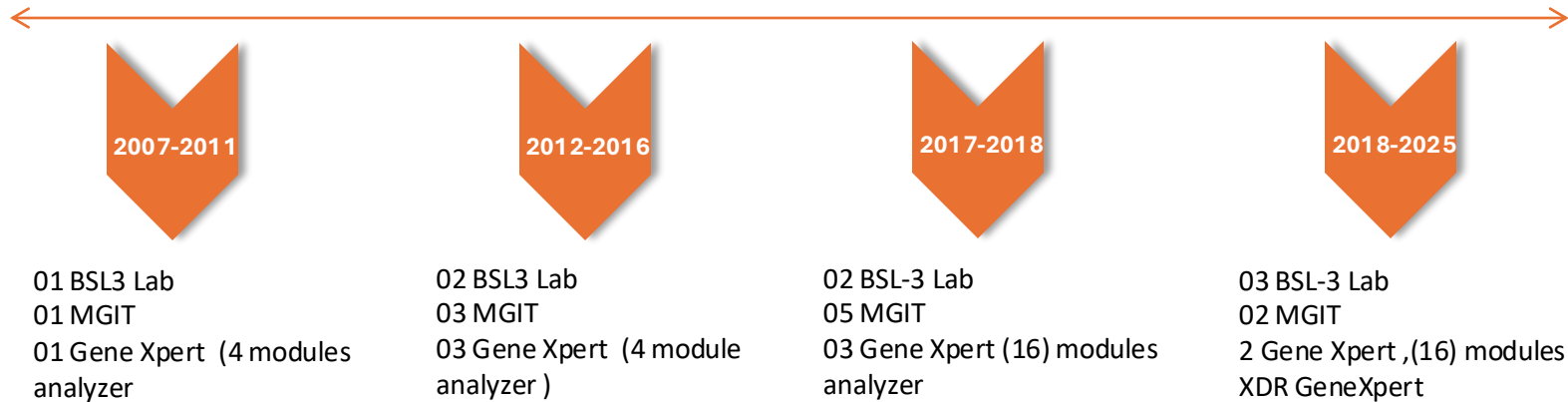
- Indus Hospital and Health Network IHHN have the capacity to initiate surveillance and diagnostic testing .

- Equipped labs with trained staff
- CAP accredited lab
- Perform AFB smear, GeneXpert, culture on solid (LJ) and liquid media (MGIT), Sensitivity testing

IHHN of the largest BSL-3 facility in Pakistan

- BSL 2 TB lab 1500 sq ft
- BSL3 TB lab 1000 sq ft

TB Lab capacity 2007-2025

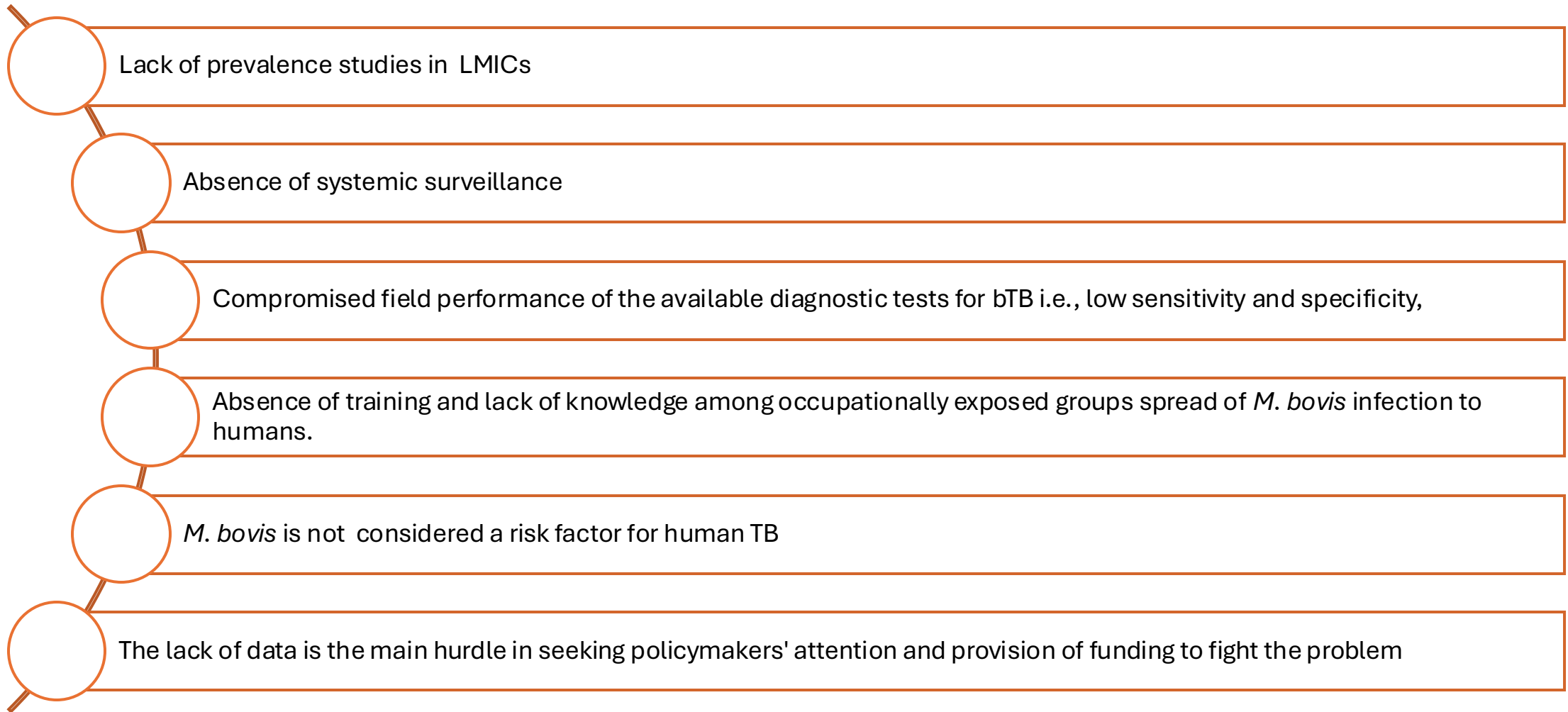




This area is neglected

Absence of comprehensive data for bTB and zTB in Pakistan has resulted in failure to develop a structured control and eradication program

- Lack of formal training among abattoir workers
- Majority of them do not practice any precaution such as wearing PPE and washing of their hands





01

Surveillance of *M. bovis* infection in cattle - Incidence and prevalence analysis



02

Capacity building in zoonotic TB diagnostic .IHHN is interested in building its capacity in zTB



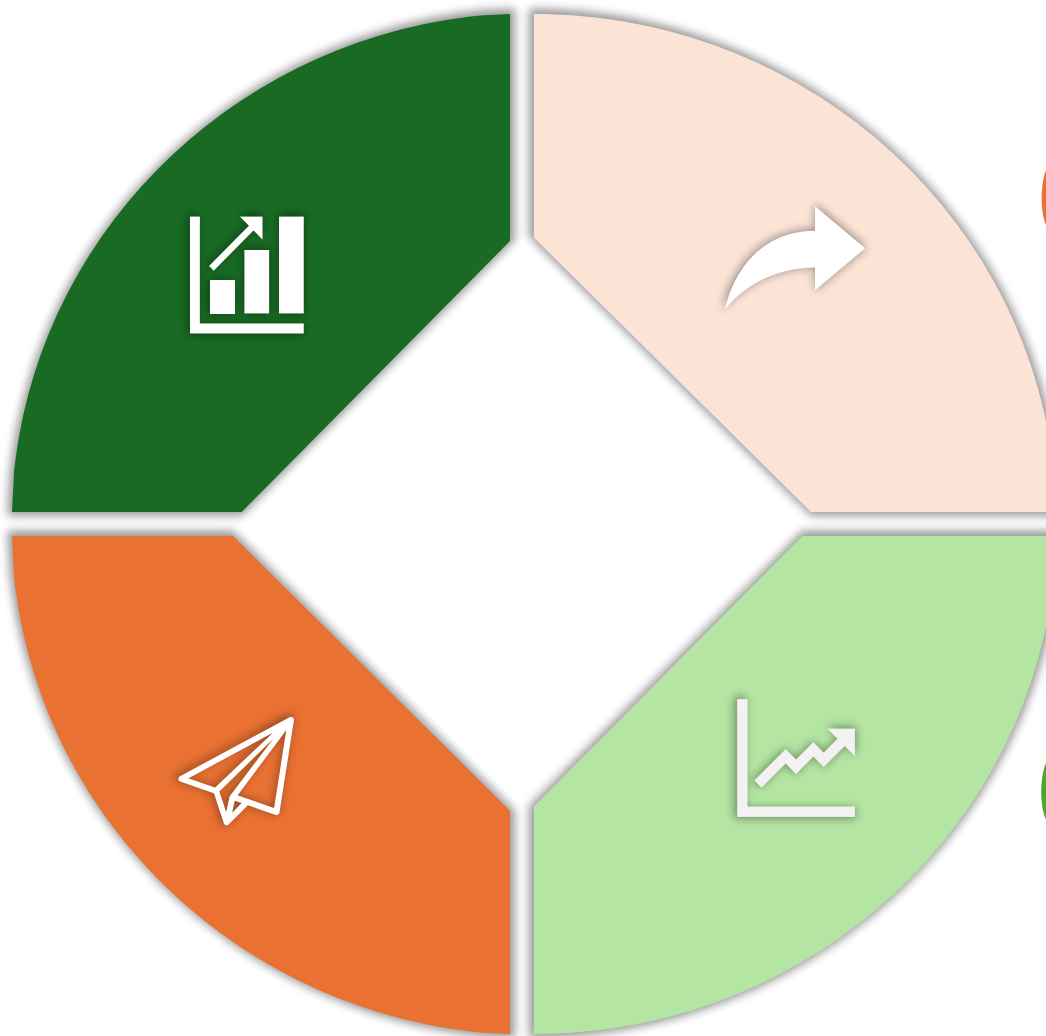
03

Research in collaboration with experts from the developed world and international organizations working on TB control.



04

Design a national control program with integrated 'One Health' approach through collaboration between public health and animal health departments .IHHN is willing to contribute .





Thank you!

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