

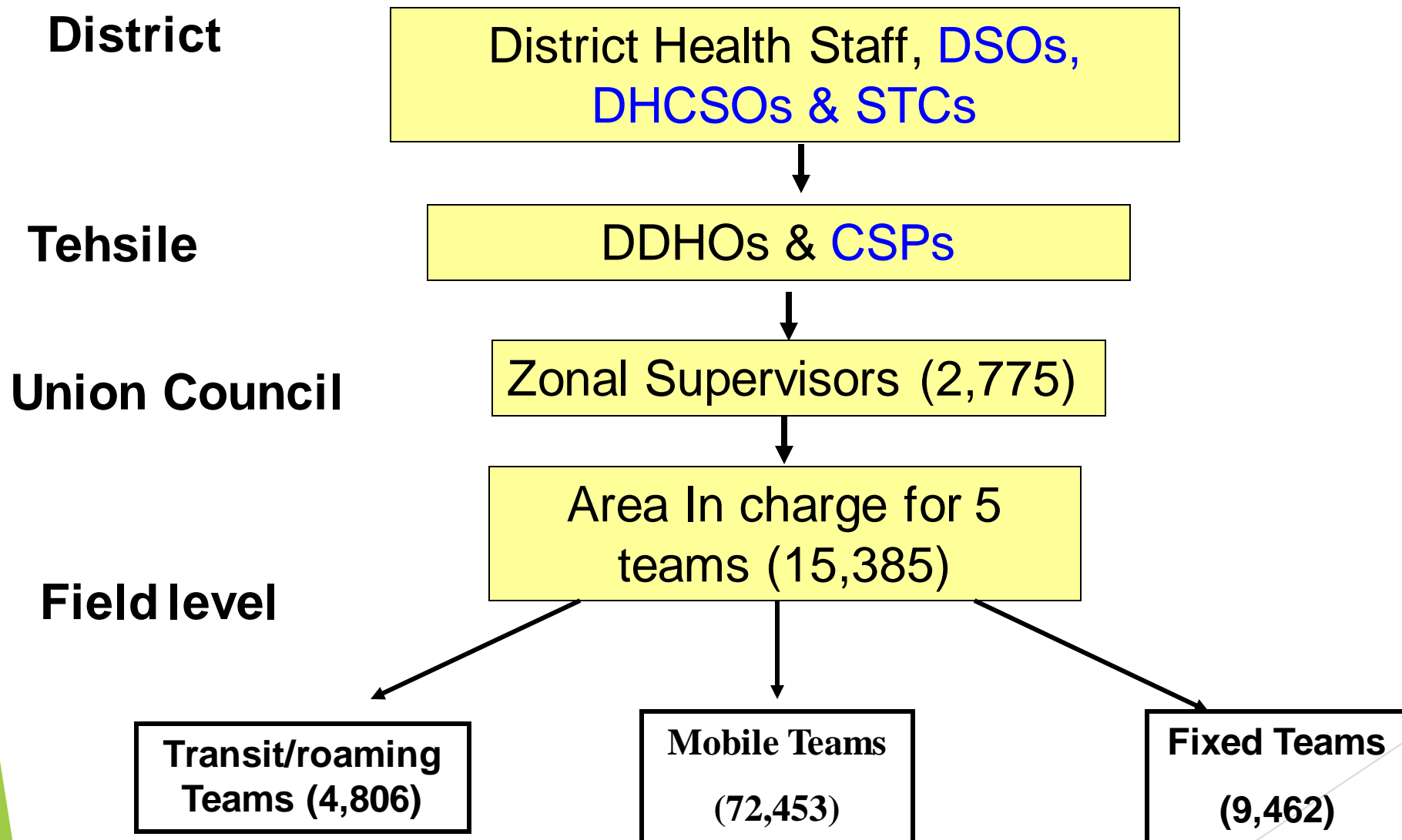
Pakistan Polio Eradication update

March 2009

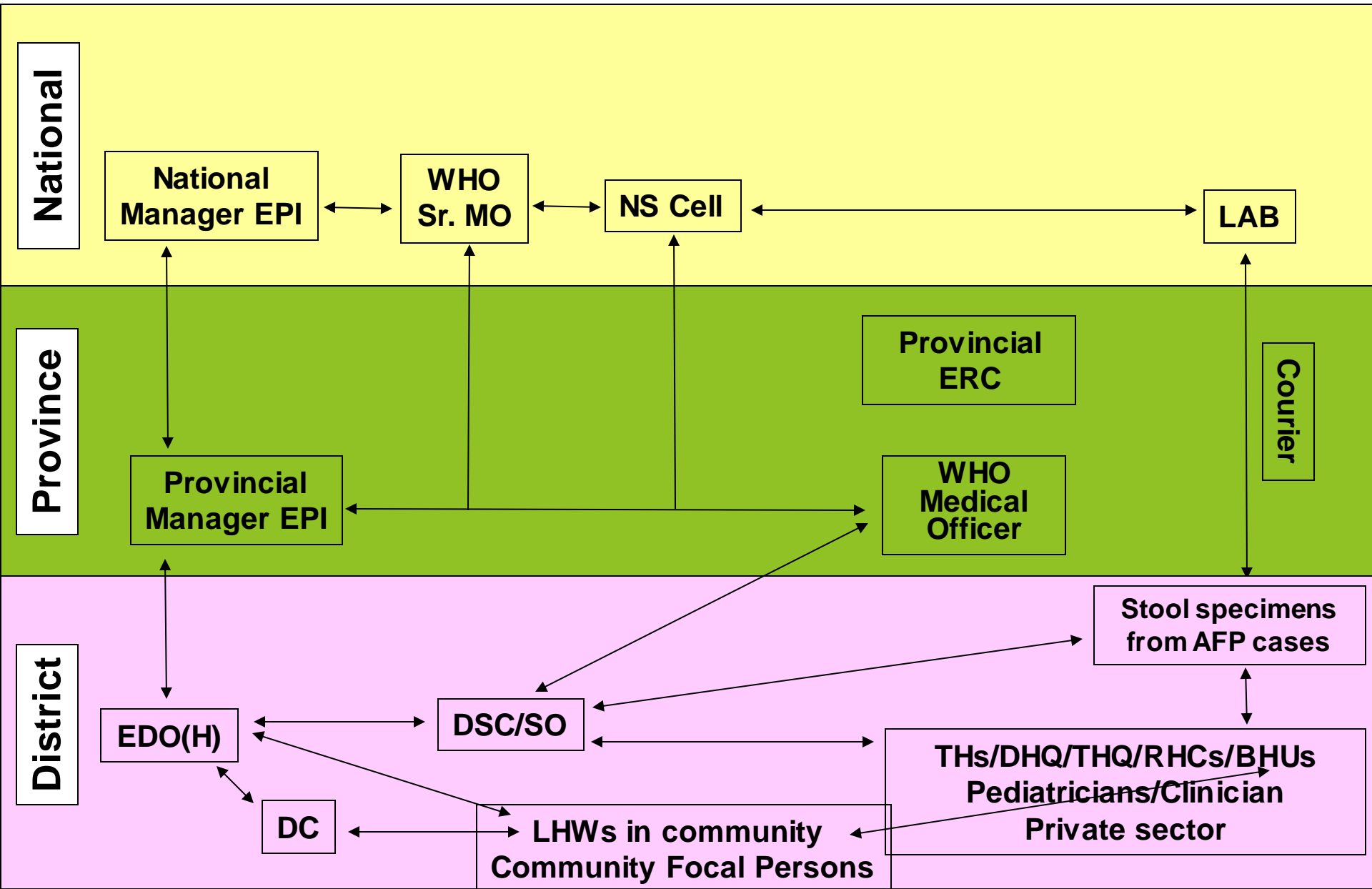
Brief History

- ▶ Over 20,000 polio cases per year before 1994
- ▶ First vaccination campaign in 1994
- ▶ Surveillance started in 1997, given due attention in 1999
- ▶ National polio laboratory established (WHO accredited & tests all specimens from Afghanistan)
- ▶ House to house vaccination started in 2000
- ▶ >30 million children given OPV in every NIDs & over 28 million receive vitamin A every 6 months
- ▶ More than 200 000 children saved from paralysis

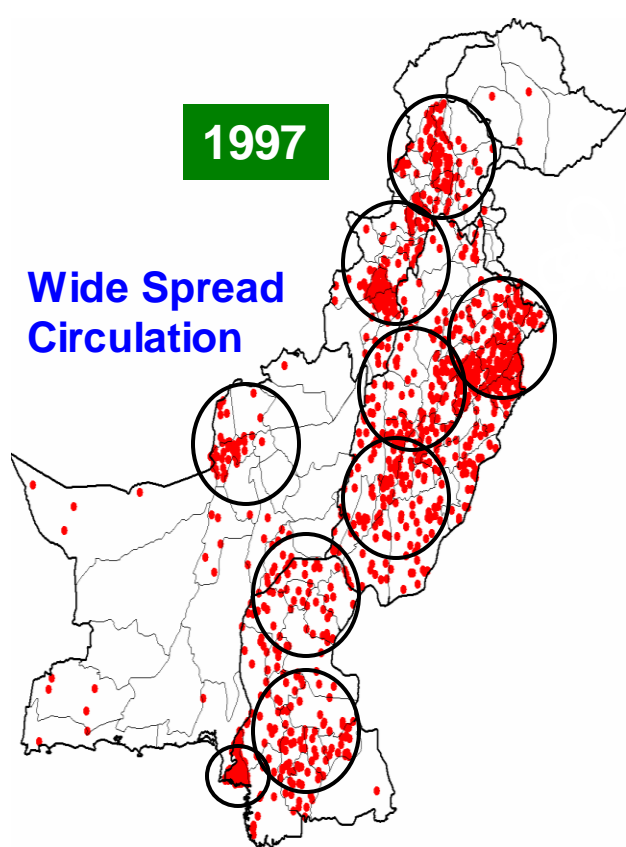
Campaign implementation at district level



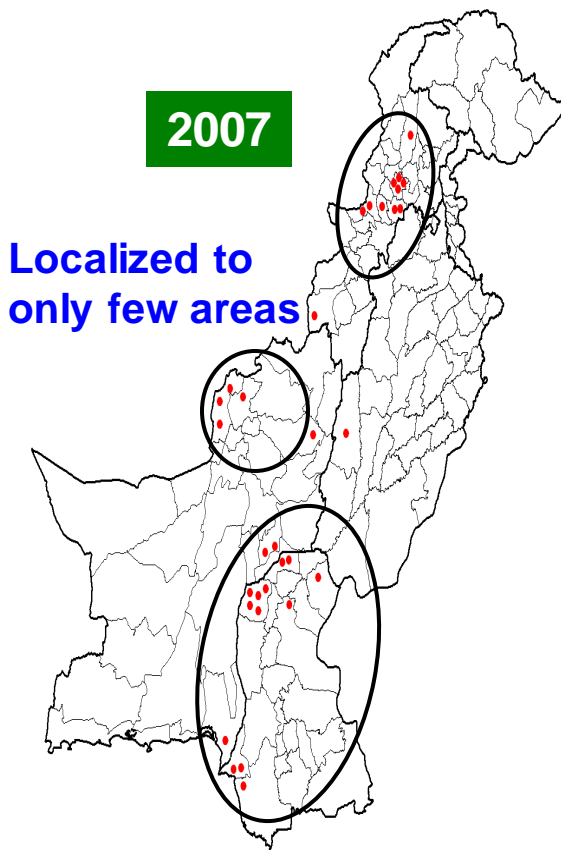
AFP Surveillance System



Poliomyelitis endemicity trends and progress 1997, 2007



Confirmed Cases = 1155
Districts Infected = 90



Confirmed Cases = 32
Districts Infected = 18

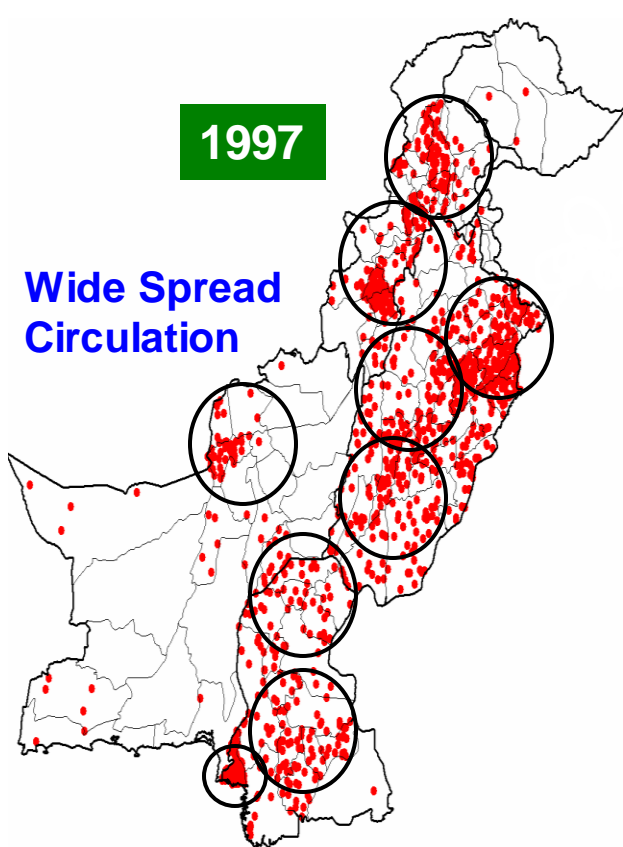


Confirmed Polio Cases

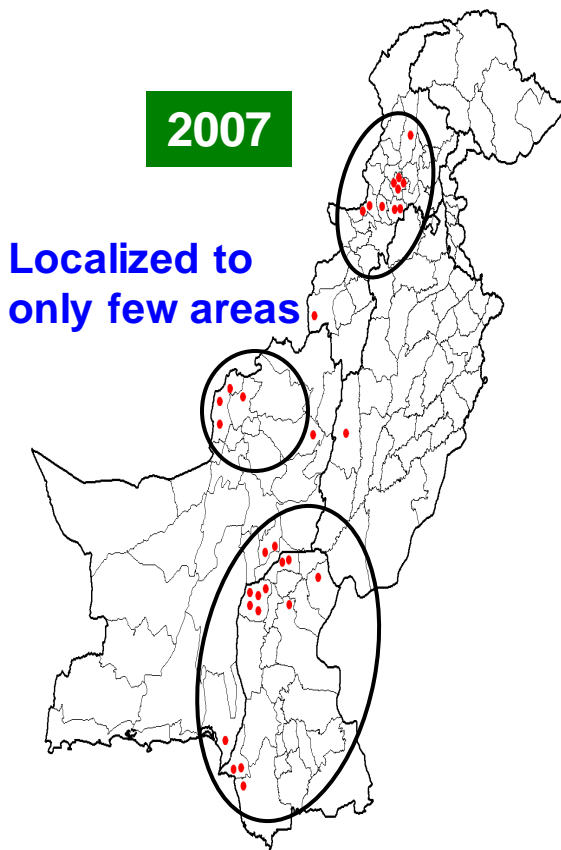


Virus Transmission Zones

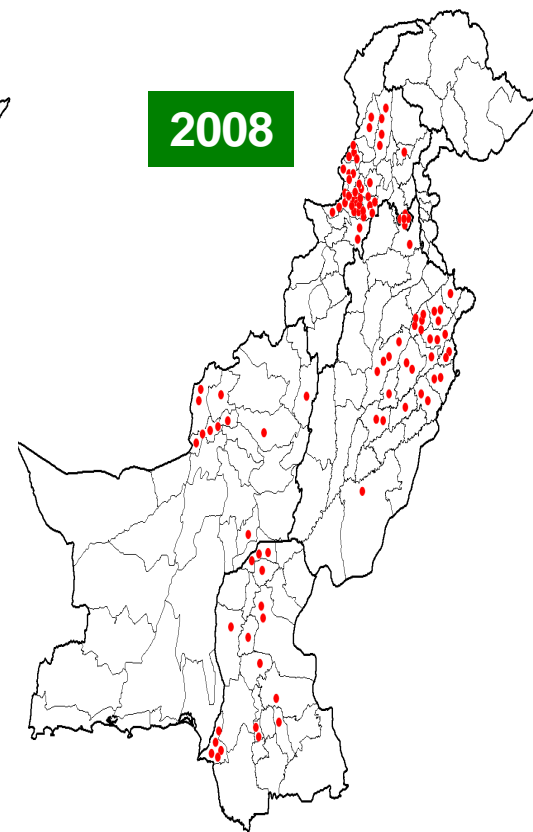
Poliomyelitis endemicity trends and progress



Confirmed Cases = 1155
Districts Infected = 90



Confirmed Cases = 32
Districts Infected = 18



Confirmed Cases = 118
Districts Infected = 48

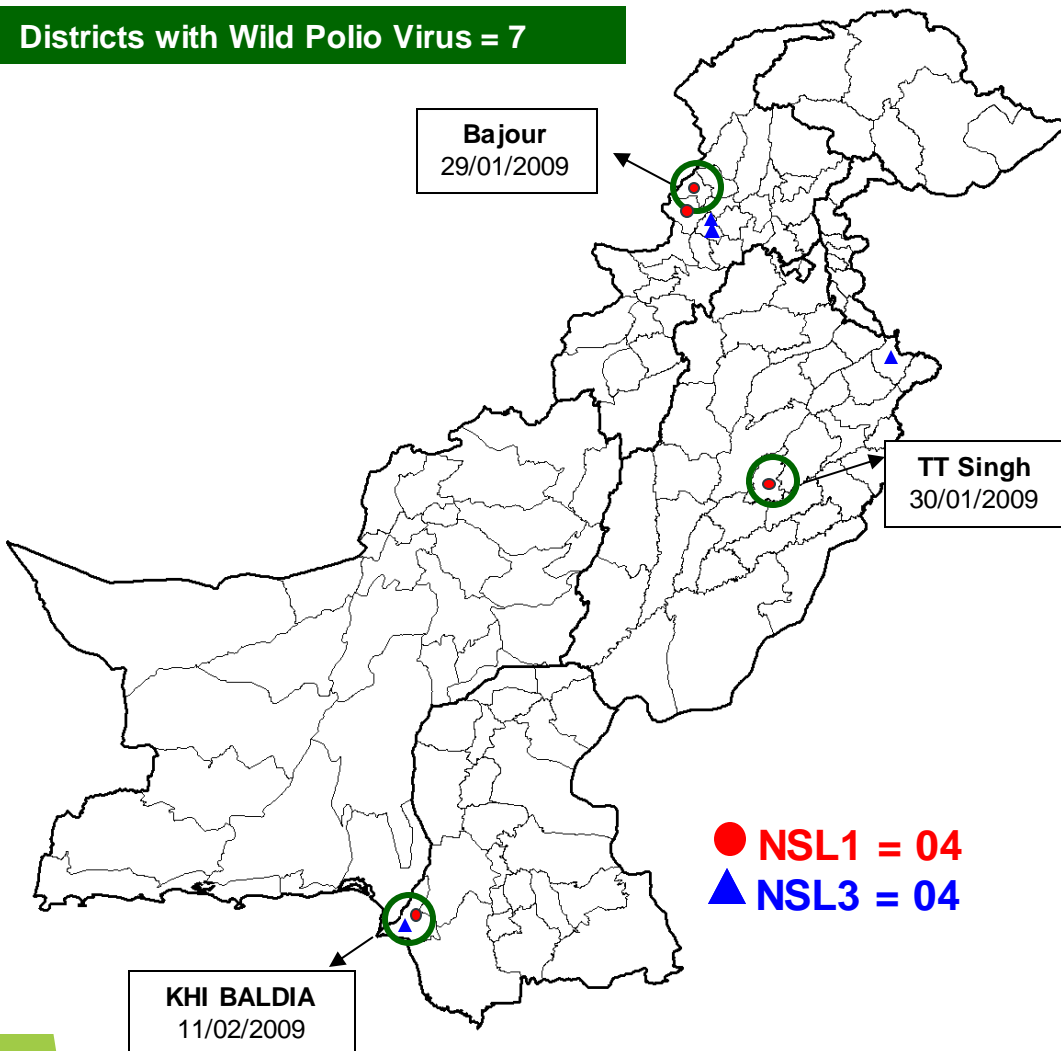
● Confirmed Polio Cases ○ Virus Transmission Zones

Reasons for the upsurge of cases in 2008

- ▶ Inaccessibility in NWFP/FATA & S. Afghanistan
 - ▶ Extensive population movements and IDPs
- ▶ Ongoing low campaign quality in some of the reservoir areas - poor service delivery
- ▶ Failure to maintain high immunity level in polio free areas of Punjab
- ▶ Pockets of refusal in few districts
- ▶ Significant changes in health manpower

Distribution of wild polio virus cases 2009*

Districts with Wild Polio Virus = 7



Province/ Country	Date of Last Case		Number of cases 2009*	
	P1	P3	P1	P3
PUNJAB	Jan, 2009	Jan, 2009	1	1
SINDH	Jan, 2009	Feb, 2009	1	1
NWFP	Dec, 2008	Jan, 2009	0	2
FATA	Jan, 2009	Dec, 2008	2	0
BALUCHISTAN	Oct, 2008	Dec, 2007	0	0
AJK		Jun, 2000	0	0
FANA	Jan, 1998		0	0
ISLAMABAD	Sep, 2008	Sep, 2008	0	0
PAKISTAN	Jan, 2009	Feb, 2009	4	4

○ District with last polio case in province

Cases randomly placed
in districts

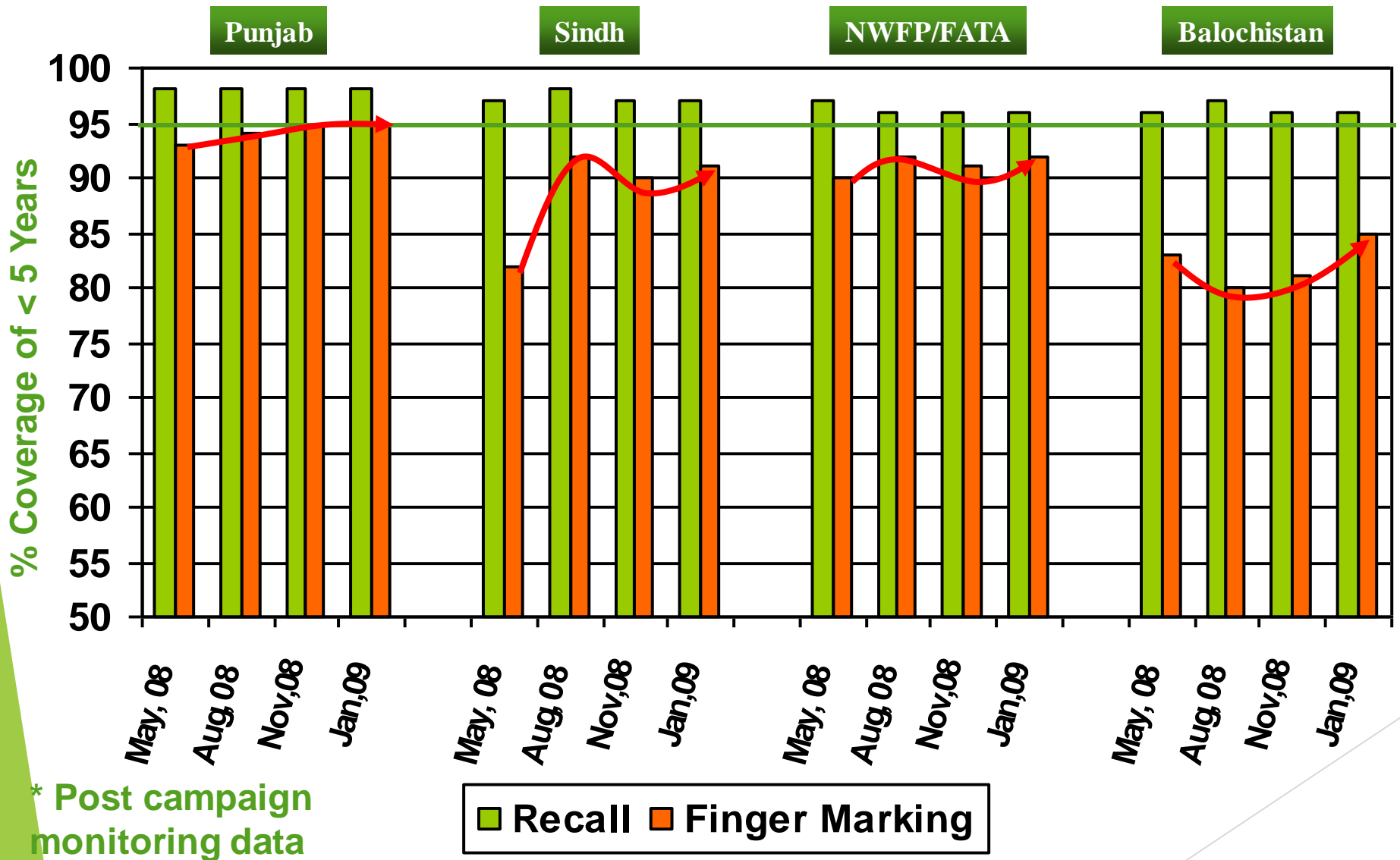
— Provincial Boundary
— Districts Boundary

* Afp.rec Data as of 28-02-2009

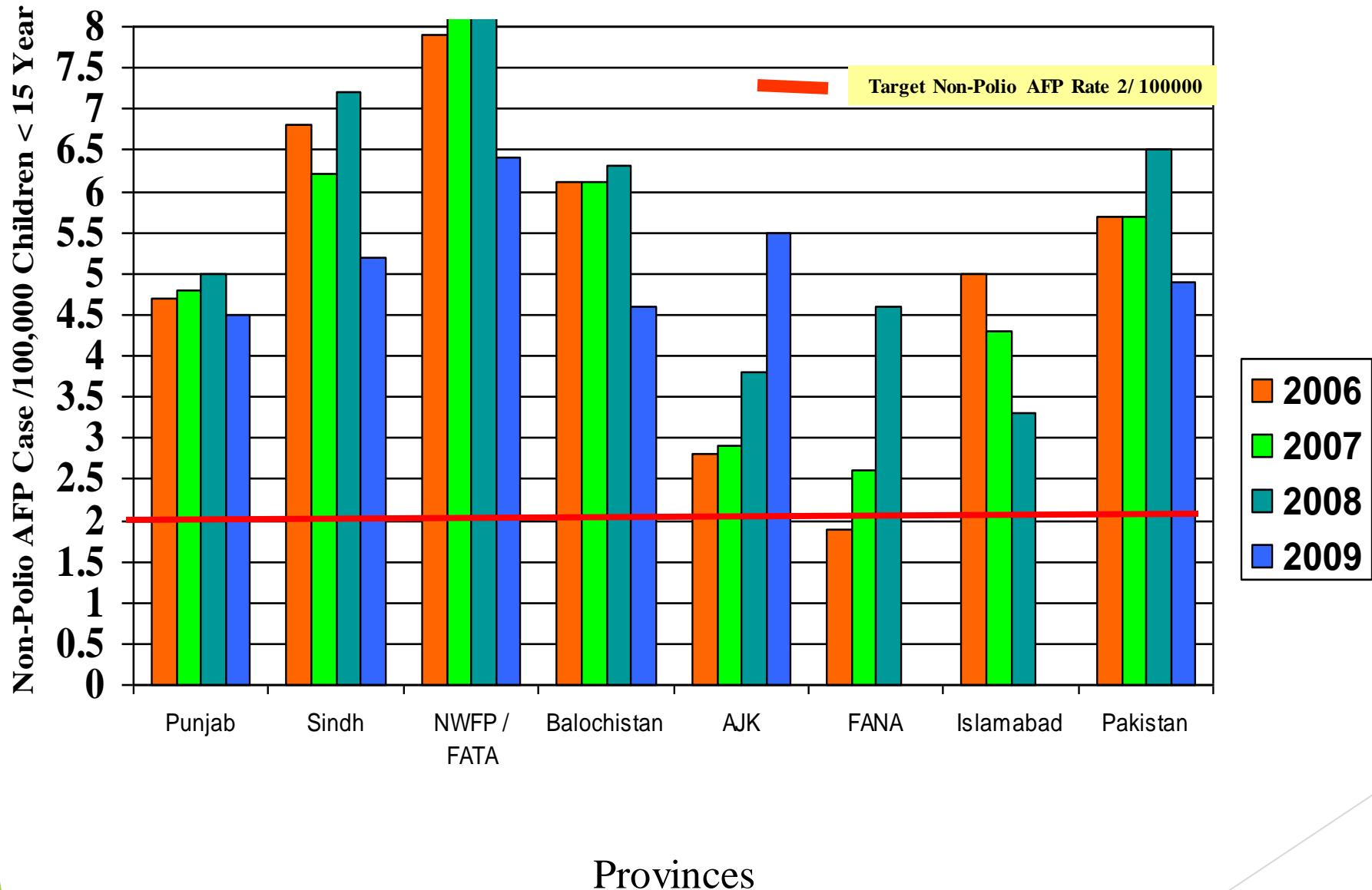
Salient features of Polio Cases - 2009

- ▶ Age: 12 - 60 months (Median 25 months)
- ▶ Vaccination profile:
 - ▶ 4 cases - 7 plus OPV doses
 - ▶ Only one case had 3 routine OPV doses
- ▶ High risk groups/populations (7)
 - ▶ All NWFP/FATA cases (4) from areas inaccessible to vaccination teams for long period due to insecurity
 - ▶ Both Karachi cases from high risk community (1-Pushtu speaking; 1 - seasonal migrant Hindu minority)
 - ▶ 6 of 8 cases are Pushtuns by ethnicity

Comparison of Coverage estimates in children below 5 years of age by Recall and Finger Marking in the last 4 Vaccination Campaign by Province*



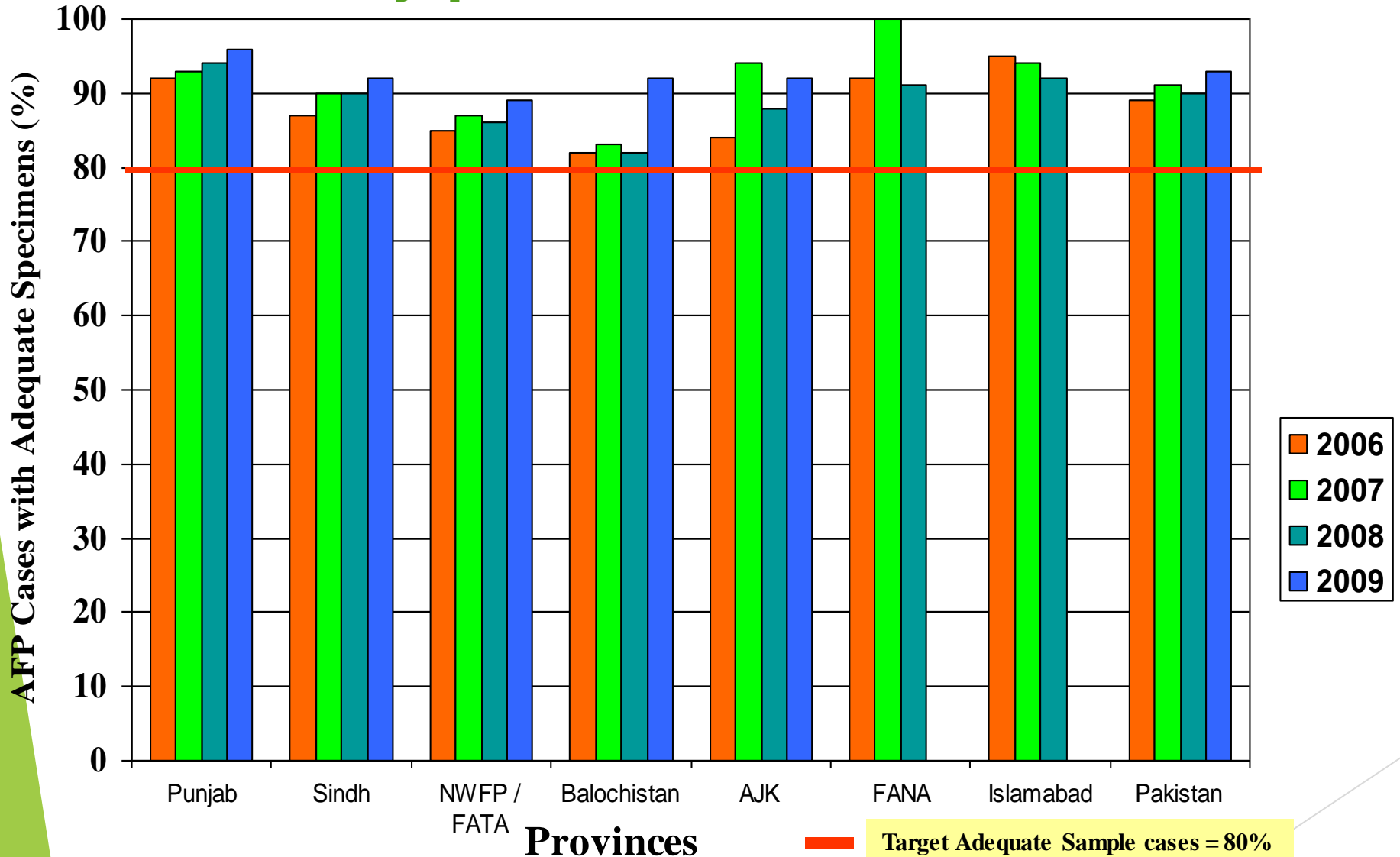
Non Polio AFP rate by province, 2006-2009*



* Up to Week No. 07 ended on 21 February 2009

Percent AFP cases with adequate specimens

By province, 2006-2009*



WHO Global Advisory Committee on Polio Eradication, 17-18 November 2008, Geneva

'Pakistan has a sound eradication programme, but which, because of very efficient virus transmission... requires further improvements in campaign quality'.

'Polio eradication is technically and operationally feasible'

The way forward - 1/2

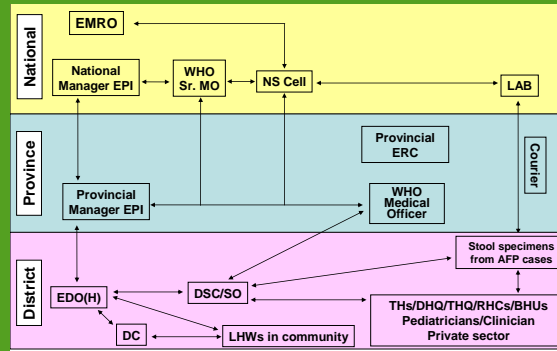
- ▶ 5 campaigns in next 5 months (3 NIDs & 2 SNIDs), synchronized with Afghanistan
- ▶ Short Interval Additional Dose Strategy & engaging all stakeholders in insecure areas
- ▶ Cross border collaboration
- ▶ Maintain AFP surveillance quality
- ▶ Locally appropriate communication strategies
- ▶ Optimize polio experience to improve routine immunization

The way forward - 2/2

- ▶ The Prime Minister Action Plan for strengthening inter-sectoral collaboration
- ▶ Quarterly Inter-provincial Committee meeting to monitor implementation of the Province and district specific plans for 2009

Impact of PEI on the Health System

National Surveillance System



Systematic vitamin A supplementation



Regional Reference Lab



Infrastructure

Management

Training

Cold chain & vehicles

Social mobilization

THANK YOU