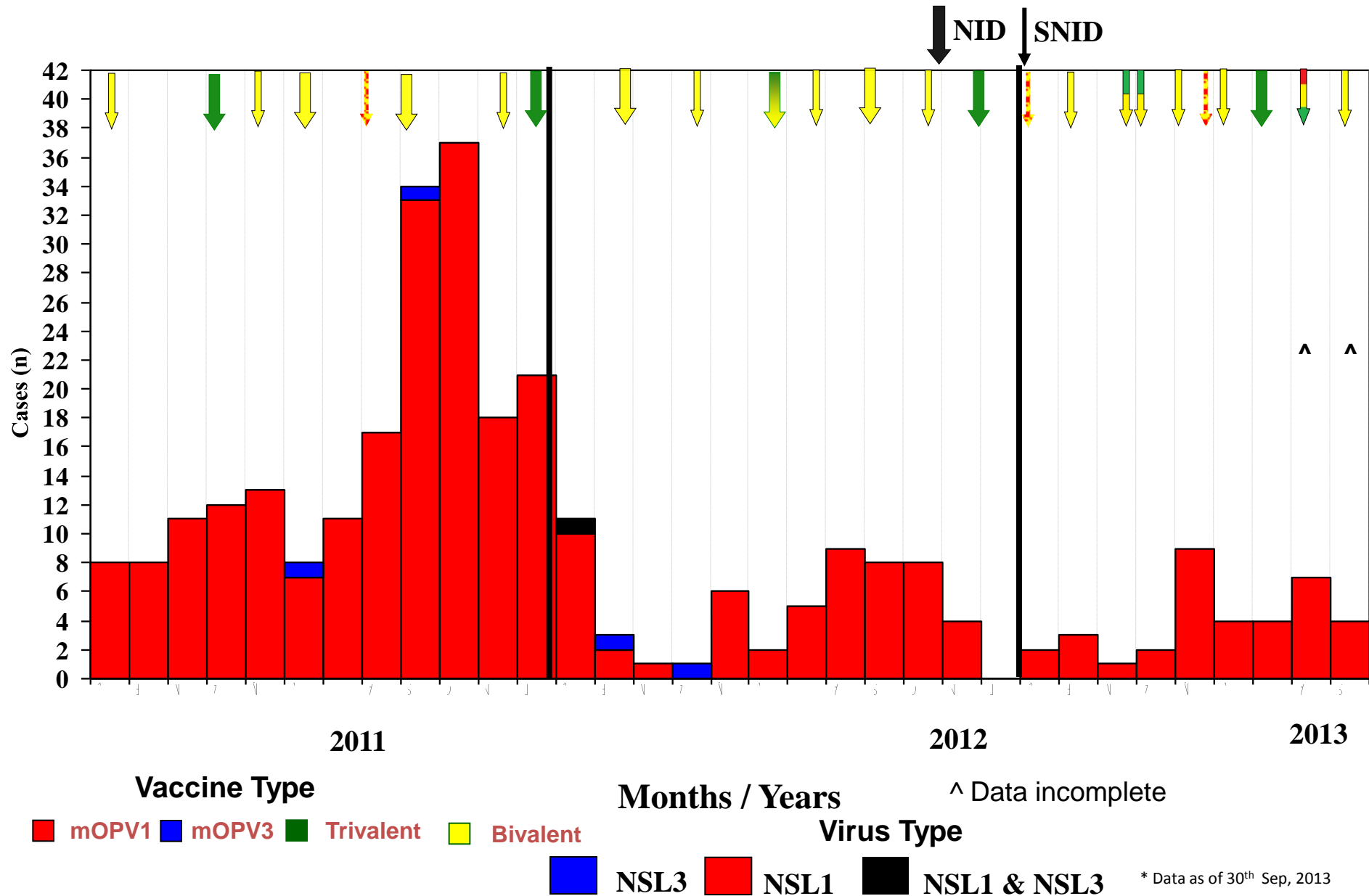


Polio Eradication; Update on Situation in Pakistan

*Meeting of the independent Monitoring Board for GPEI
1st October 2013*

Confirmed Polio Cases By Poliovirus Type, 2011-2013*

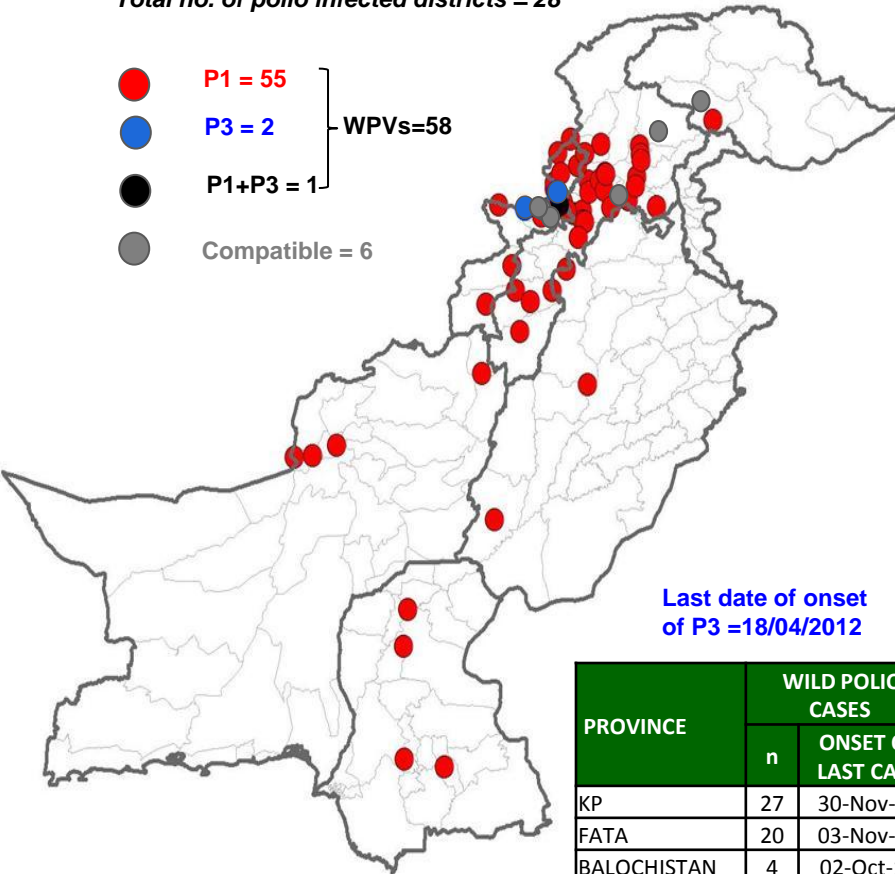


Confirmed Polio and Compatible Cases

2012

Total no. of polio infected districts = 28

- P1 = 55
 - P3 = 2
 - P1+P3 = 1
 - Compatible = 6
- WPVs=58



Last date of onset of P3 = 18/04/2012

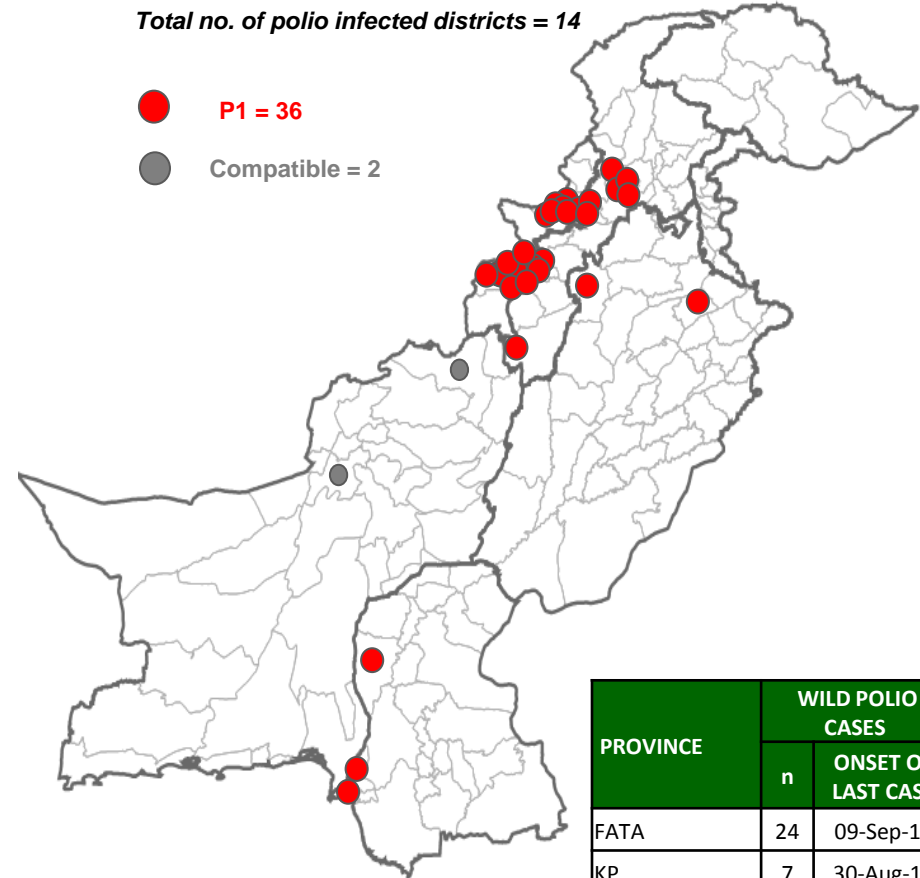
PROVINCE	WILD POLIO CASES	
	n	ONSET OF LAST CASE
KP	27	30-Nov-12
FATA	20	03-Nov-12
BALUCHISTAN	4	02-Oct-12
SINDH	4	09-Sep-12
GBALTISTAN	1	06-Aug-12
PUNJAB	2	21-May-12
Pakistan	58	30-Nov-12

Cases randomly placed in districts

2013*

Total no. of polio infected districts = 14

- P1 = 36
- Compatible = 2



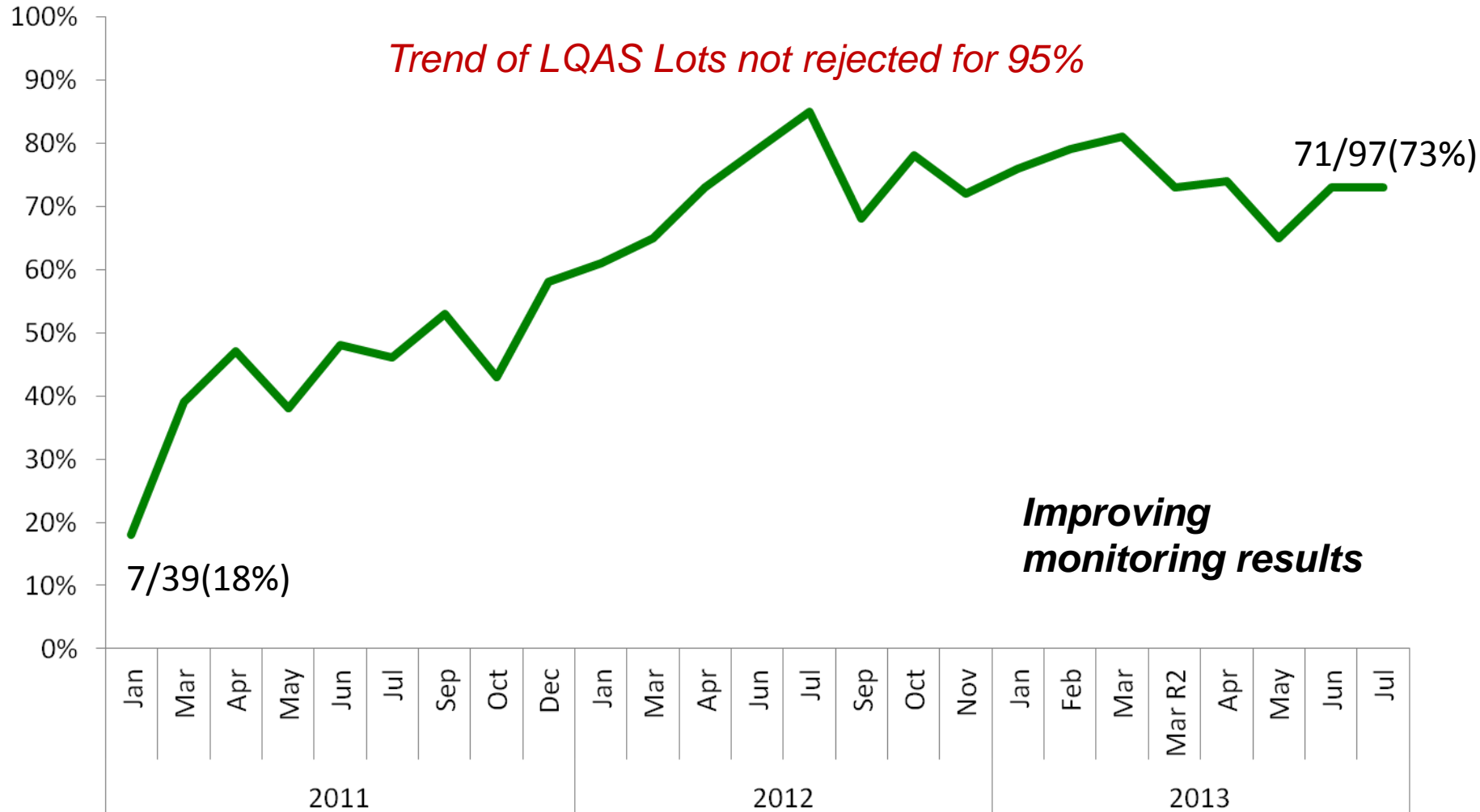
PROVINCE	WILD POLIO CASES	
	n	ONSET OF LAST CASE
FATA	24	09-Sep-13
KP	7	30-Aug-13
PUNJAB	2	26-May-13
SINDH	3	09-Jul-13
PAKISTAN	36	09-Sep-13

— Provincial Boundary
 - - - Districts Boundary

* Data as of 27th Sep, 2013

Improvements under the NEAP

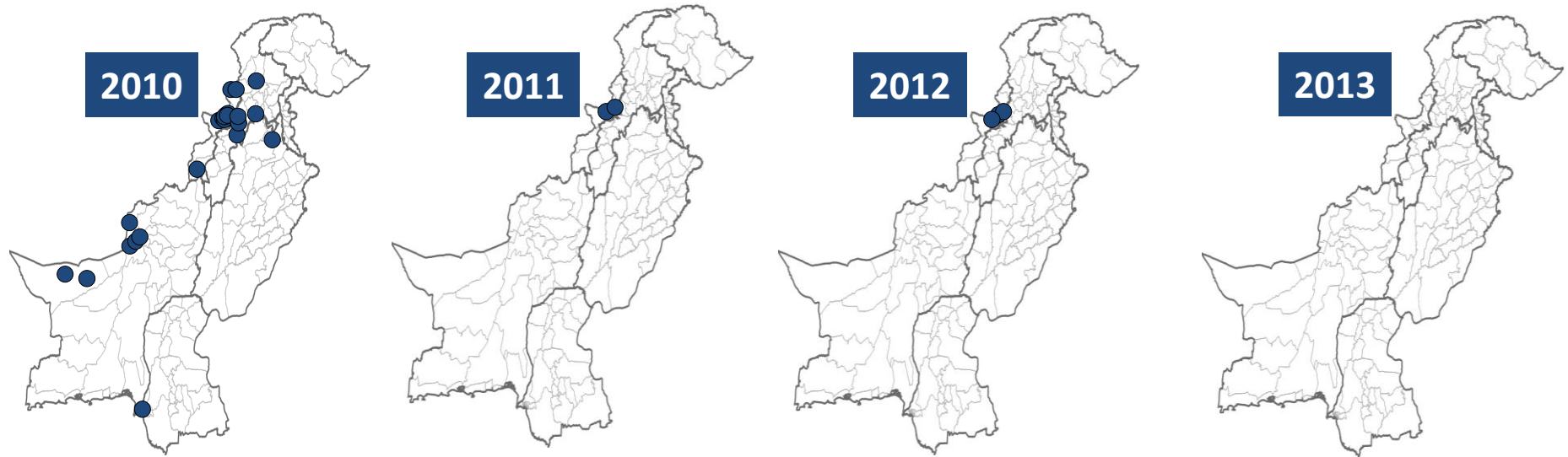
1. More children reached



Note: No LQAS conducted all over Pakistan in Dec 2012

Improvements under the NEAP

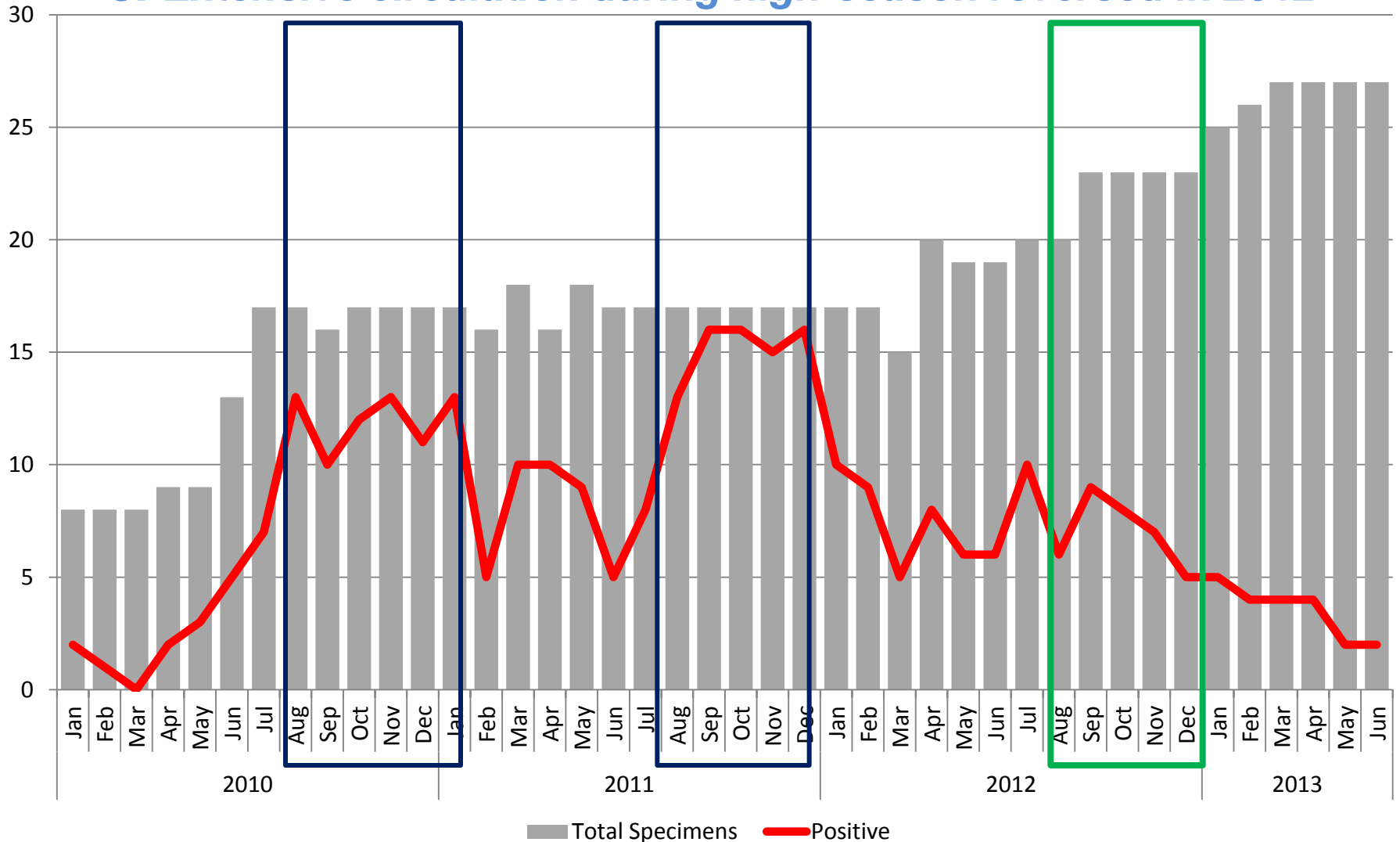
2. No type-3 polio case since April 2012



Improvements under the NEAP

Environmental surveillance (Positive Samples) by month 2010-2013

3. Extensive circulation during high-season reversed in 2012

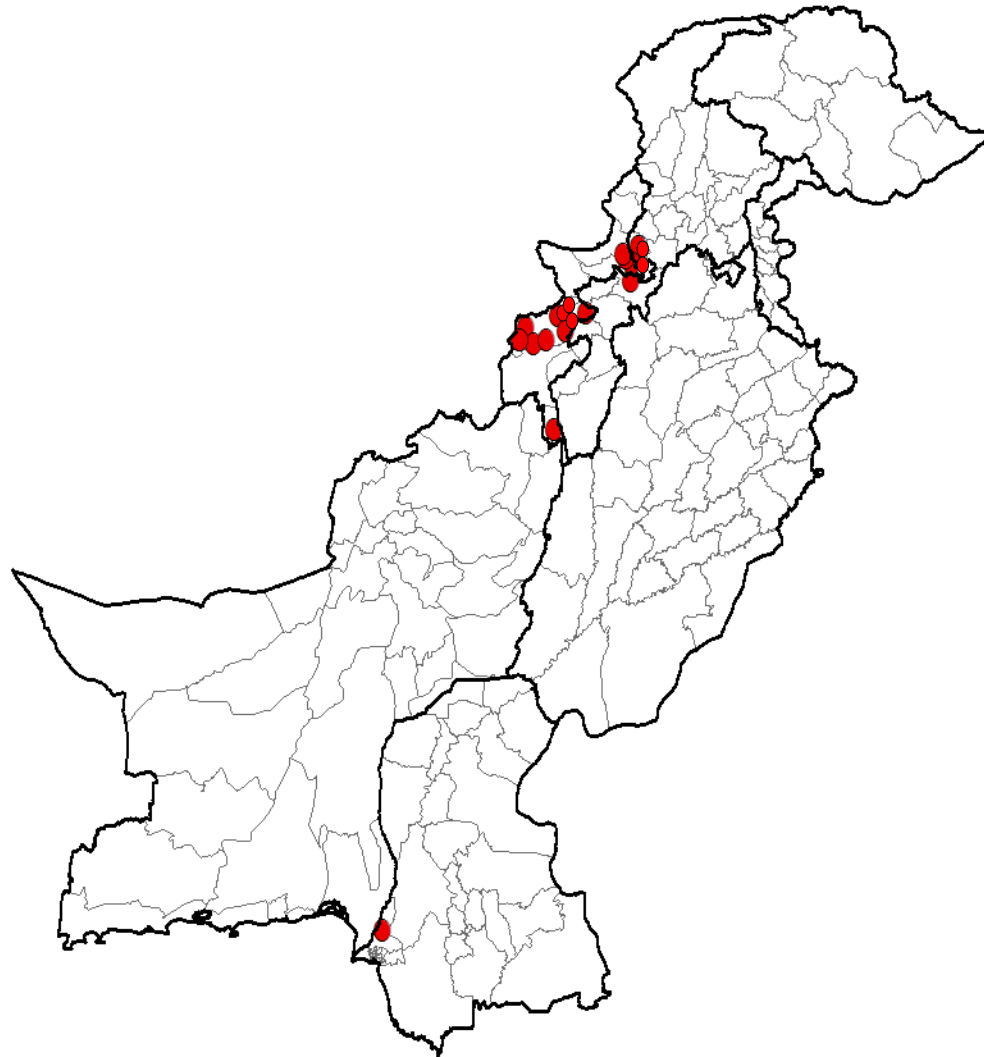


Improvements under the NEAP

4. Polio restricted to focal areas

Polio cases in the last four months*

PROVINCE	WILD POLIO CASES	
	n	ONSET OF LAST CASE
BALUCHISTAN	0	-
FATA	15	09-Sep-13
KP	3	30-Aug13
PUNJAB	0	-
SINDH	1	09-Jul-13
PAKISTAN	19	05-Sep-13



Cases randomly placed in districts

* Data source AFP 01/02/2013

— Provincial Boundary
— Districts Boundary

Key Challenges

1. *Barriers between vaccinators and children*

- *Ban in North & South Waziristan*
- *Military operations Bara (Khyber agency)*
- *Continued direct security threat to polio workers*
 - *Peshawar* & Karachi (*Gaddap*)

1. Misconceptions about program (post Abbottabad Incident)

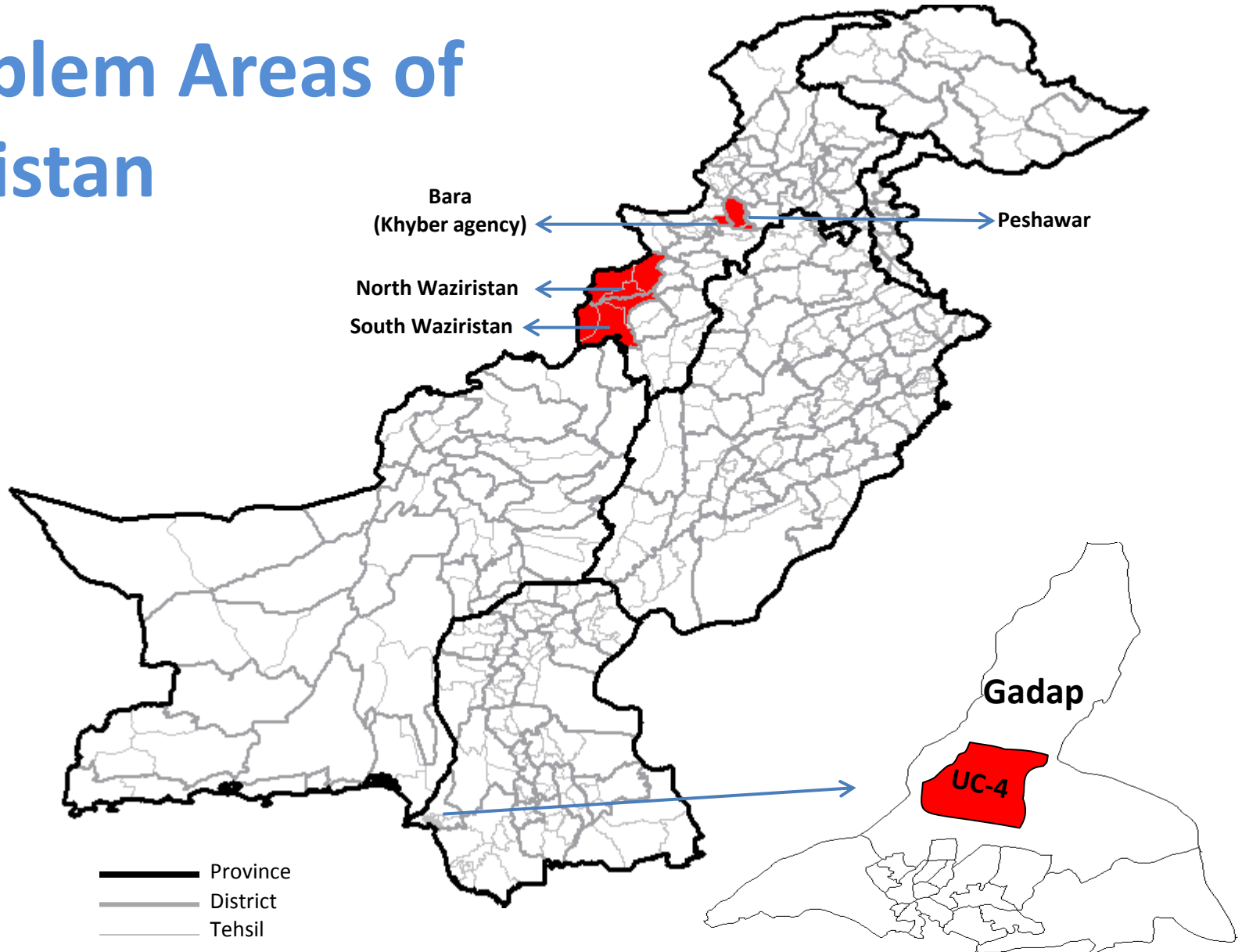
2. Management, oversight & accountability issues

- *Peshawar, Hyderabad, Quetta Block*

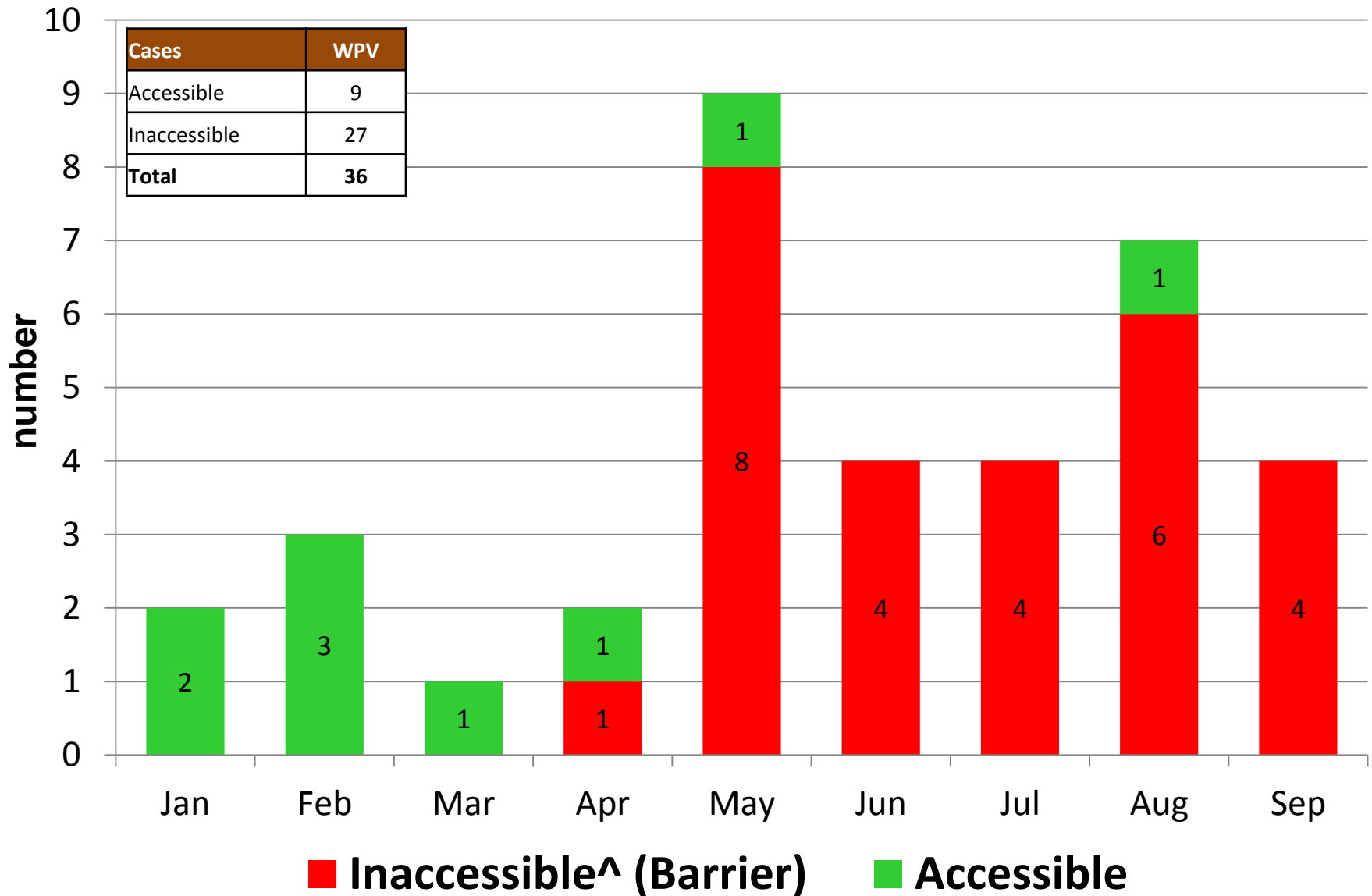
3. Maintaining progress in areas without polio cases

- southern Punjab, northern Sindh, Rawalpindi, Islamabad etc.

Current Core Problem Areas of Pakistan



WPV cases by month, 2013*

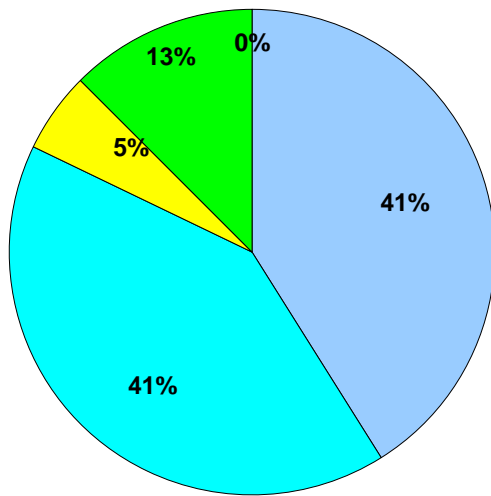


^Inaccessible: Bara, Waziristan, FR Areas, Peshawar, Gaddap

*Data as of 27-09-2013

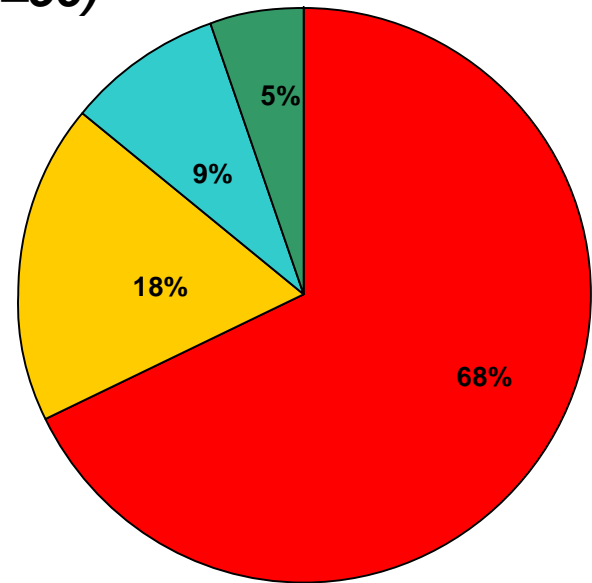
Substantial Immunity Gap in North Waziristan; specially among young children (born after the ban)

Age distribution & vaccination status of AFP Cases from North Waziristan, 2013 (n=56)



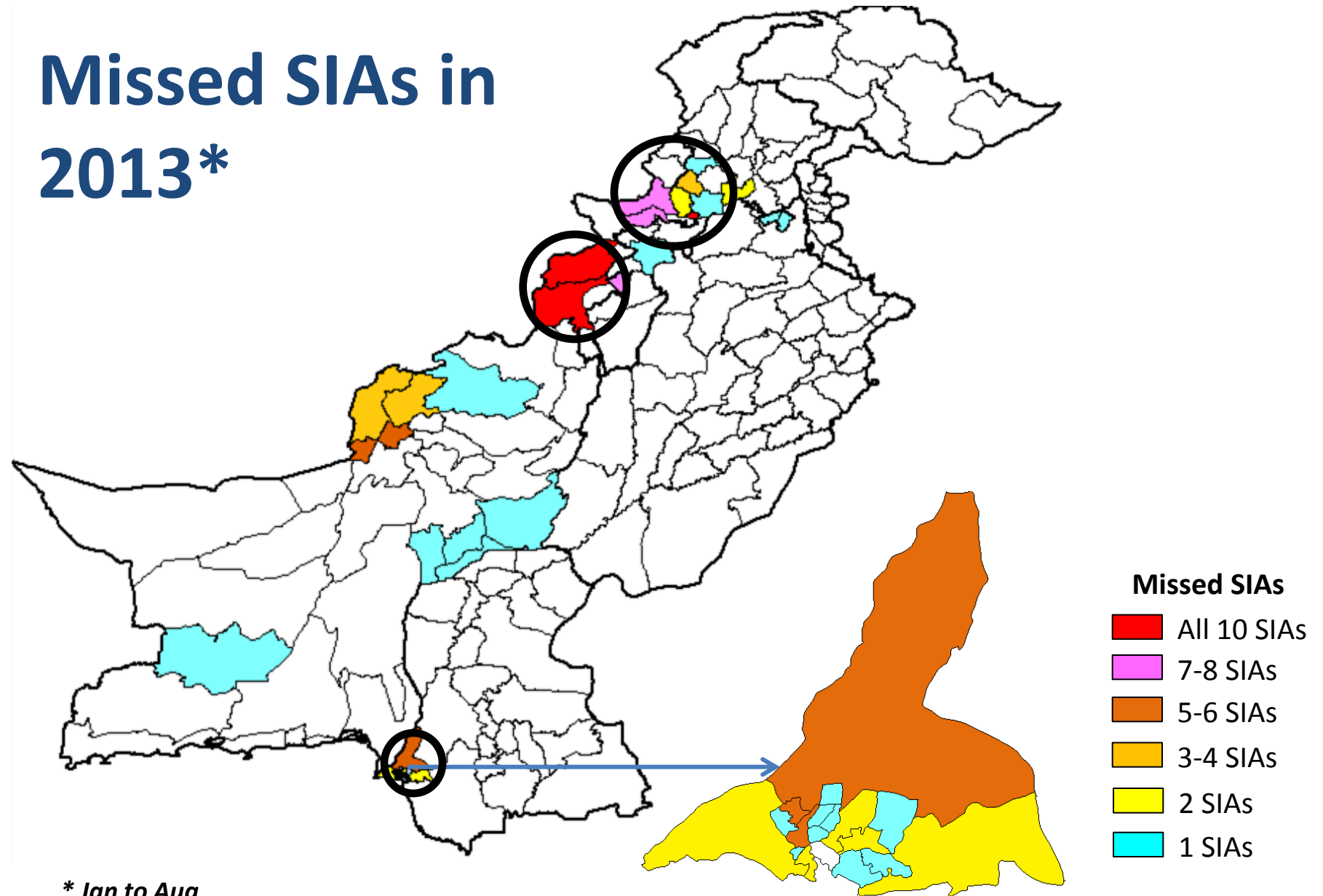
Age in months

0-5 6-11 12-23 24-35 36+



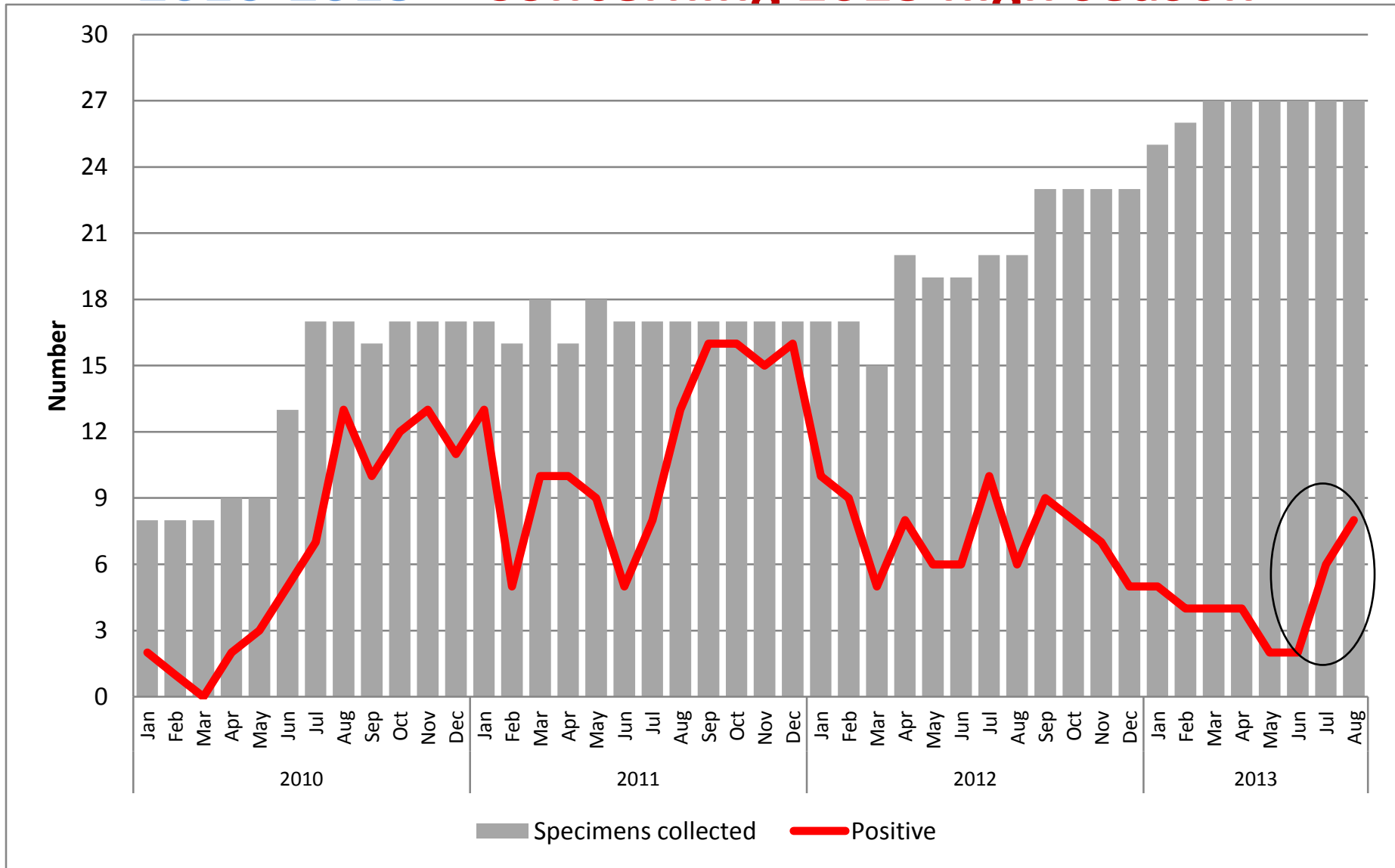
0 dose 1 - 3 doses 4 - 6 doses 7 + doses

Missed SIAs in 2013*



* Jan to Aug

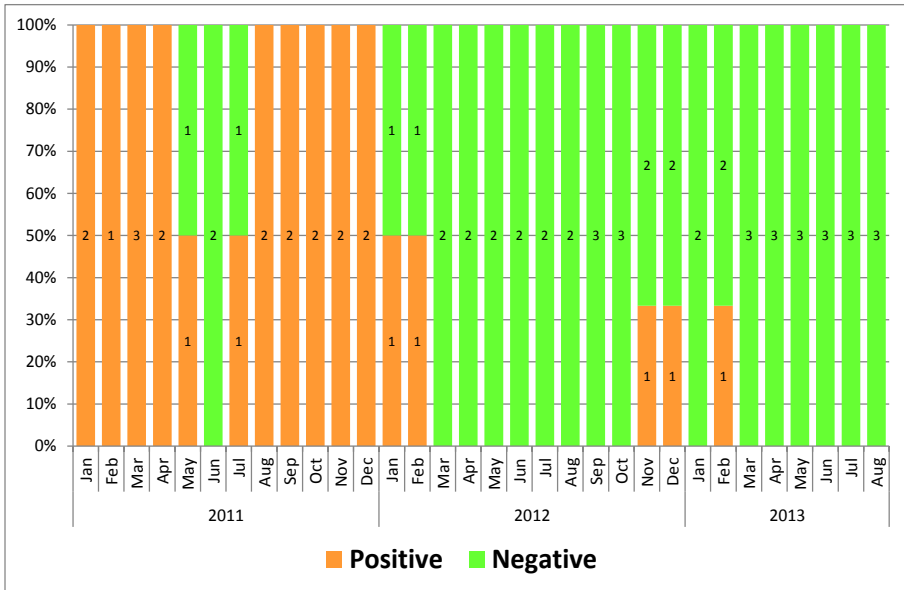
Trend of Environmental Surveillance by month, 2010-2013 – Concerning 2013 high season



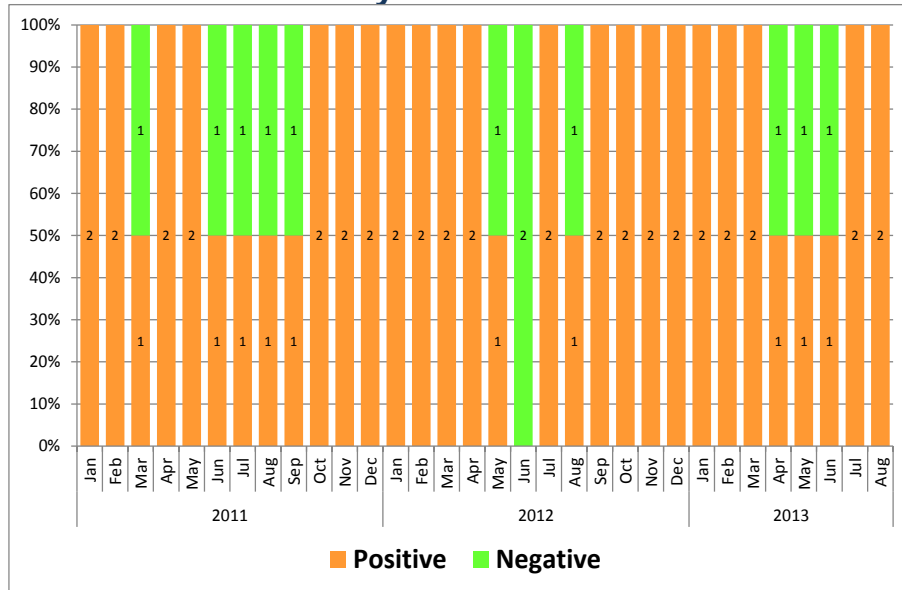
* Data as of 27th Sep, 2013

Environmental Surveillance by Province

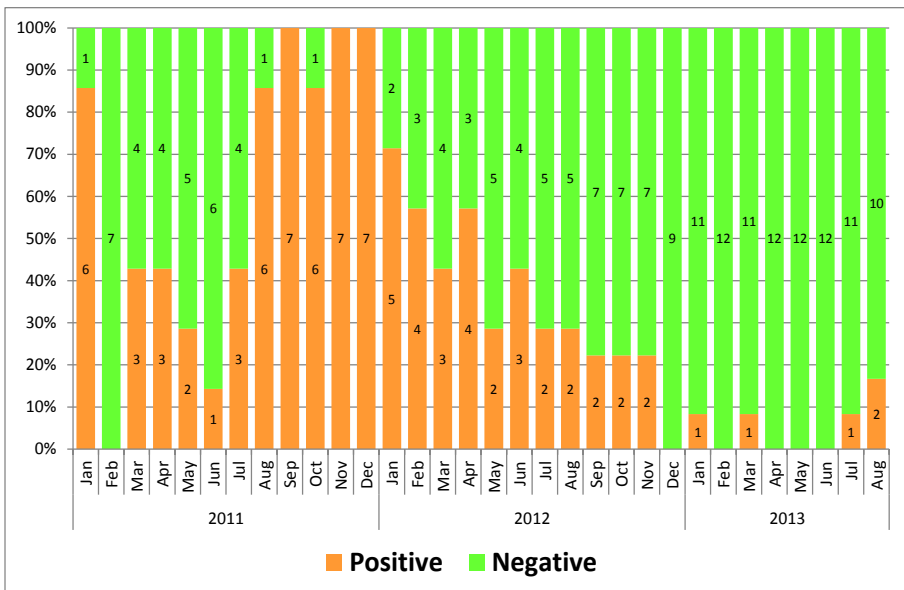
Balochistan



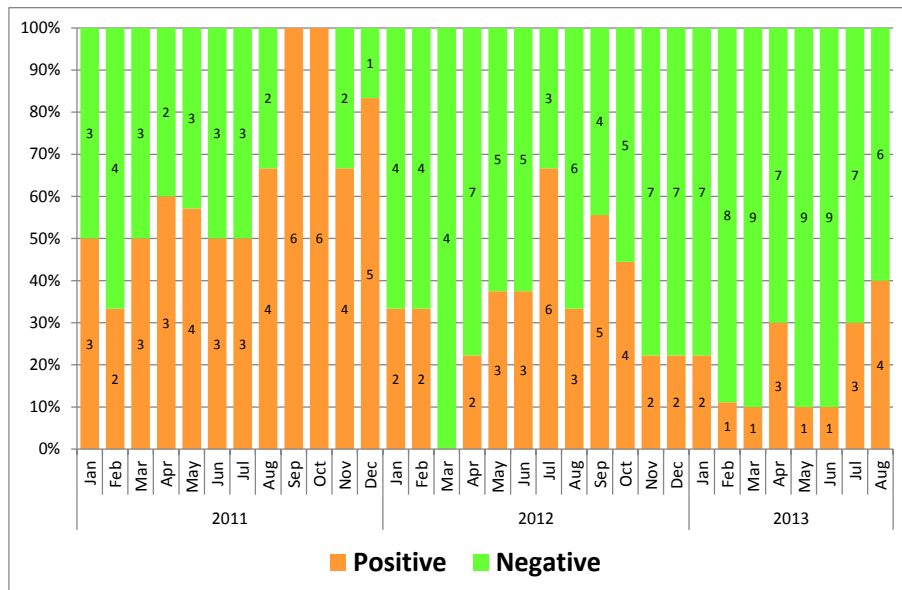
Khyber Pakhtunkhwa



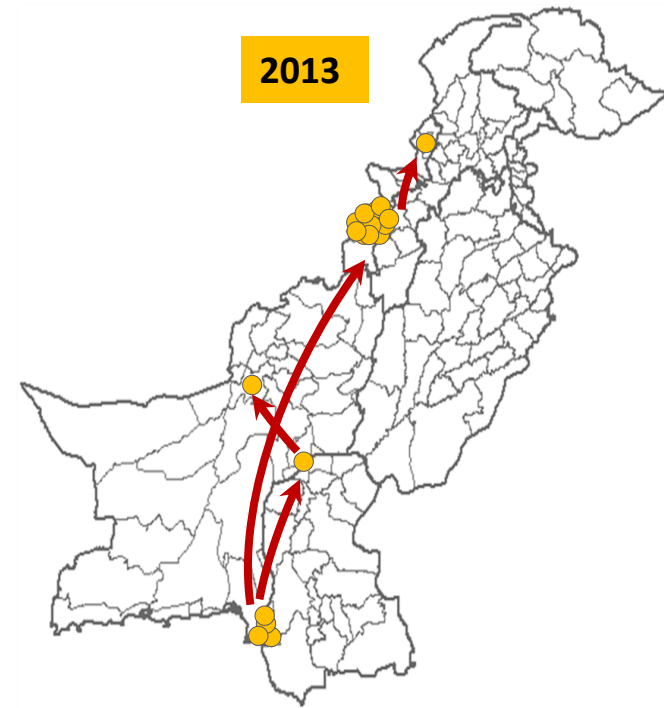
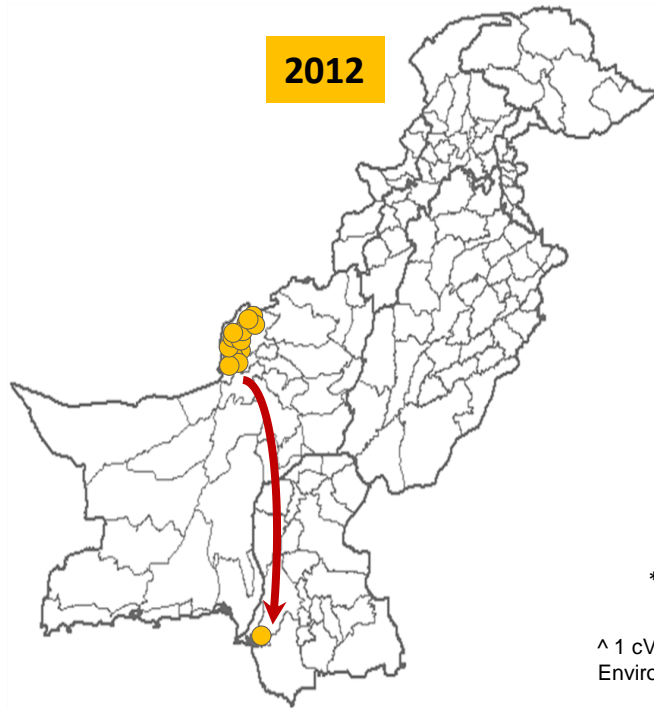
Punjab



Sindh



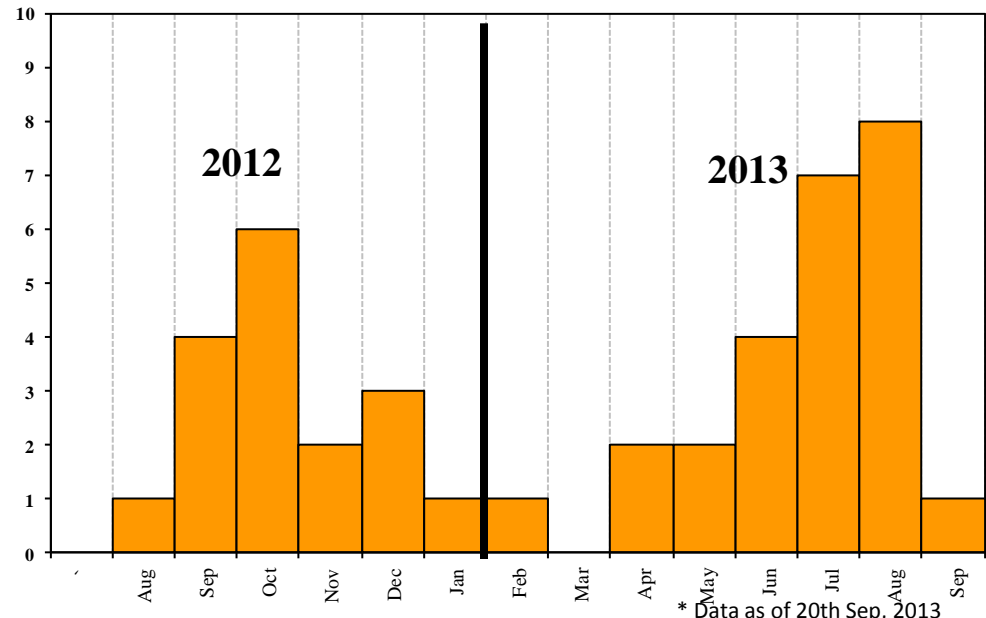
cVDPV2 cases, 2012 and 2013[^]



* Data as of 25th Sep. 2013

[^] 1 cVDPV included from Karachi Gaddap Environmental surveillance in 2013

PROVINCE	DISTRICT	2012	2013	TOTAL	Last case
BALUCHISTAN	KABDULAH	15		15	14-Dec-12
BALUCHISTAN	JAFFARABAD		1	1	11-Jan-13
	MASTUNG		1	1	27-Jun-13
SINDH	KHIGADAP	1	4	5	03-Jul-13
FATA	Waziristan (n)		19	18	08-Sep-13
	MOHMAND		1	1	13-Jul-13
TOTAL		16	26	41	08-Sep-13



Cases (n)

Basic Framework for the Way-Forward

1. Removing barriers between children and vaccinators
 - a) Negotiated access
 - b) Protected campaign
 - c) Transit and mobile population strategies
2. Maintaining progress in polio free areas
 - a) Vigorous oversight and accountability at all levels
 - Federal and Provincial Task Forces, District and UC Committees
 - b) Central Ministry for Health strengthened for core functions
 - c) Aggressive case response immunization strategy
 - d) Monitoring and evaluation
3. Improved oversight and operational problems
 - a) Establishment of Special District Task Teams
 - b) Deployment of Emergency Rapid Response Team, led by PMPMC

Way Forward – N & S Waziristan

1. Negotiated access

- a) Government led negotiation to reverse the ban through Jirga to convince the Shura
- b) Engagement of key national and international religious leaders led by International Islamic University & Al-Azhar Egypt
 - National Islamic Advisory Group & Provincial Task Forces

2. Protected campaign

- a) High level Civil Military Coordination

3. Transit and Mobile Strategy

- a) Mapping and immunizing population moving out of the Agencies
- b) Robust intra/inter Agency/Province permanent transit points

Way Forward – Khyber (Bara) and FR Areas

1. Protected house-to-house campaign
 - a) High level Civil Military Coordination
 - b) Access to be provided through army and FC support
2. Closed monitoring of missed areas after every campaign
3. Implementation of Polio Plus interventions
 - a) All antigens
 - b) Hygiene Kit
4. Transit and Mobile Strategy
 - a) Mapping and immunizing population moving out of the Agencies
 - b) Vaccination in IDP camps
 - c) Robust intra/inter Agency/Province permanent transit points
5. Ensuring high quality activity in accessible areas of the Agency

Way Forward – Peshawar and Karachi

1. Management, oversight, and accountability
 - a) Special Task Teams (headed by Secretary-level officer)
 - b) Strong District Polio Control Room led by DCs
 - c) Deployment of Emergency Rapid Response Team, led by PMPMC
2. Protected campaign (continuous threat and fear factor)
 - a) Provincial Security Coordination Committees chaired by Home Sec
 - b) Engagement of police & security forces in DPECs
 - c) Complement the police force to protect vaccinators and conduct quality campaign
 - i. Support from Rangers and FC
 - ii. Raise designate security force
3. Negotiated access
 - a) Engagement with local religious and community leaders, civil societies, and notables at UC level (UPEC)
 - b) Polio Plus activities

***The Program aims to be
fully prepared***

by end October

***to capitalize on the next
low transmission season***

(Dec 2013 – May 2014)

Proposed SIAs schedule till June 2014

2013

Month	Dates	Campaign
Sep/Oct	30th Sep.-2nd Oct.	NIDs
October	21 - 23	SIADS
November	11- 13	NIDs
December	02 - 04	SNIDs
December	09 - 11	SIADS

2014

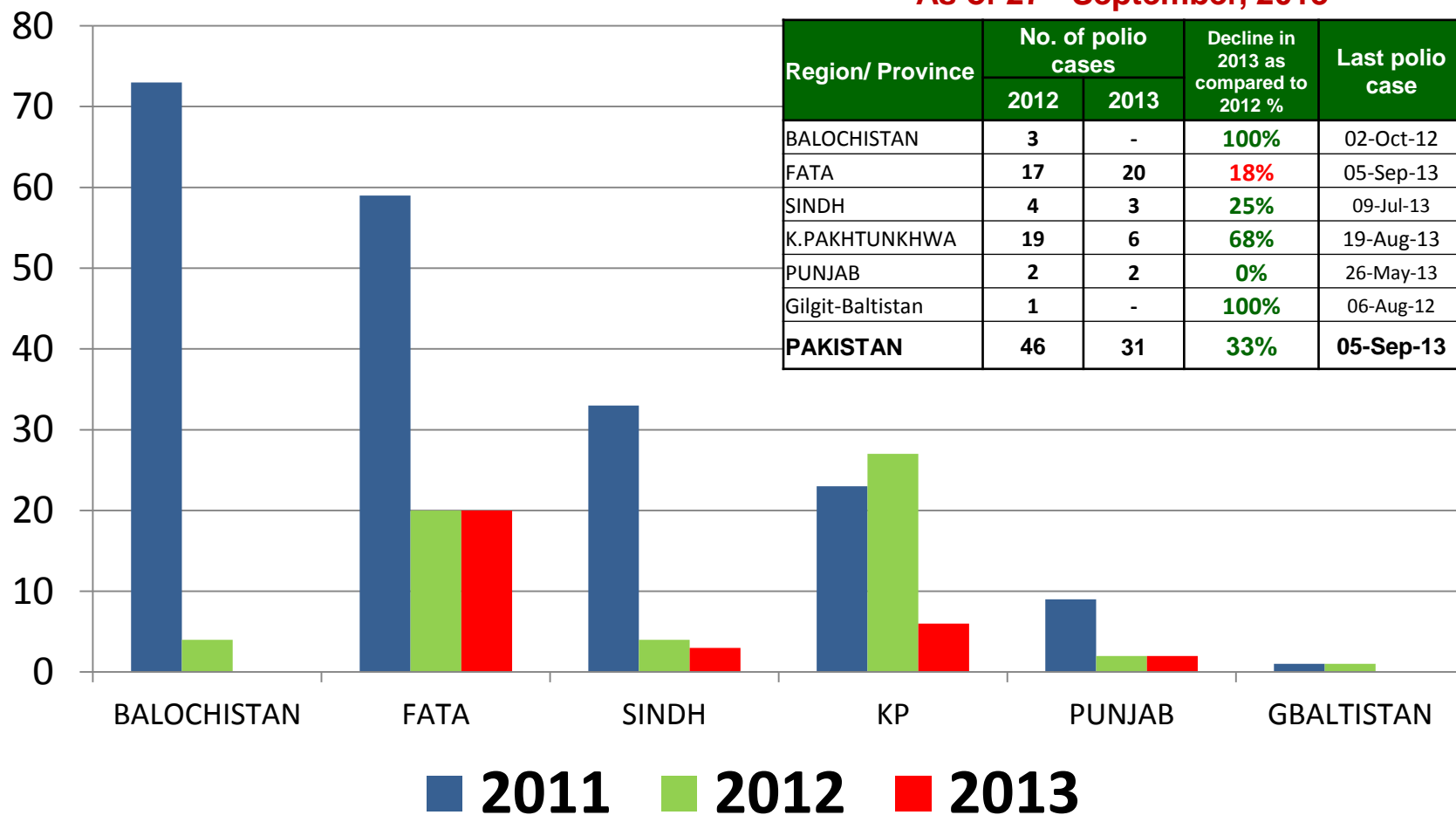
Month	Dates	Campaign
January	06 - 08	SIADs
January	20 - 22	NIDs
February	10 - 12	SIADs
February	24 - 26	SNIDs
March	10 - 12	SIADs
March	24 - 26	SIADs
April	14 - 16	NIDs
April	28 - 30	SIADs
May	26 - 28	SNIDs
June	09 -11	SIADs

***Public Health Initiatives must
not be used for any other
purpose (including
intelligence) to have
confidence of all stake holders
& community***

Thank You

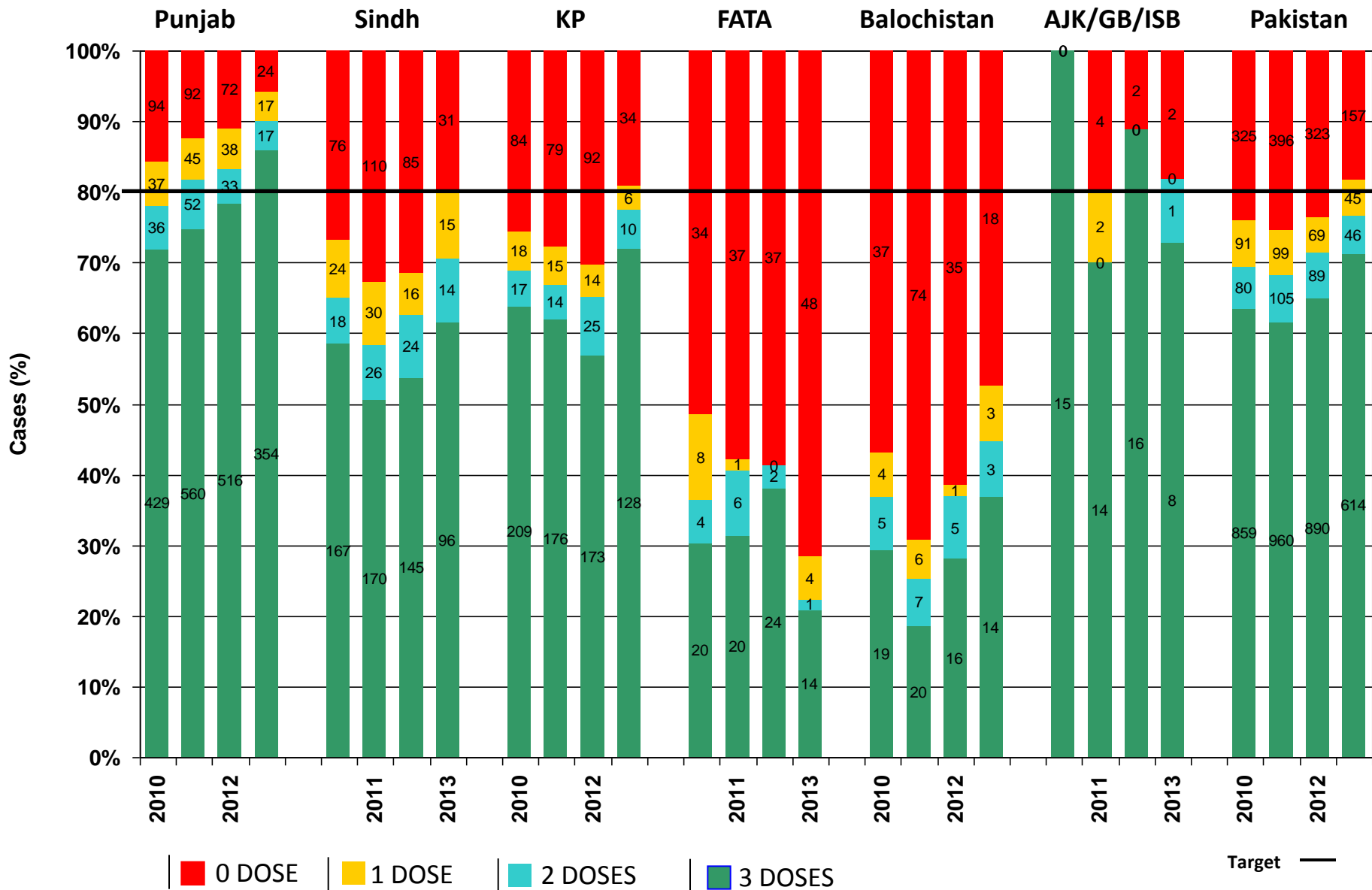
Comparison of polio cases by province/region 2011 - 2013*

As of 27th September, 2013



* Data as of 27th Sep, 2013

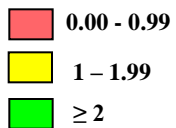
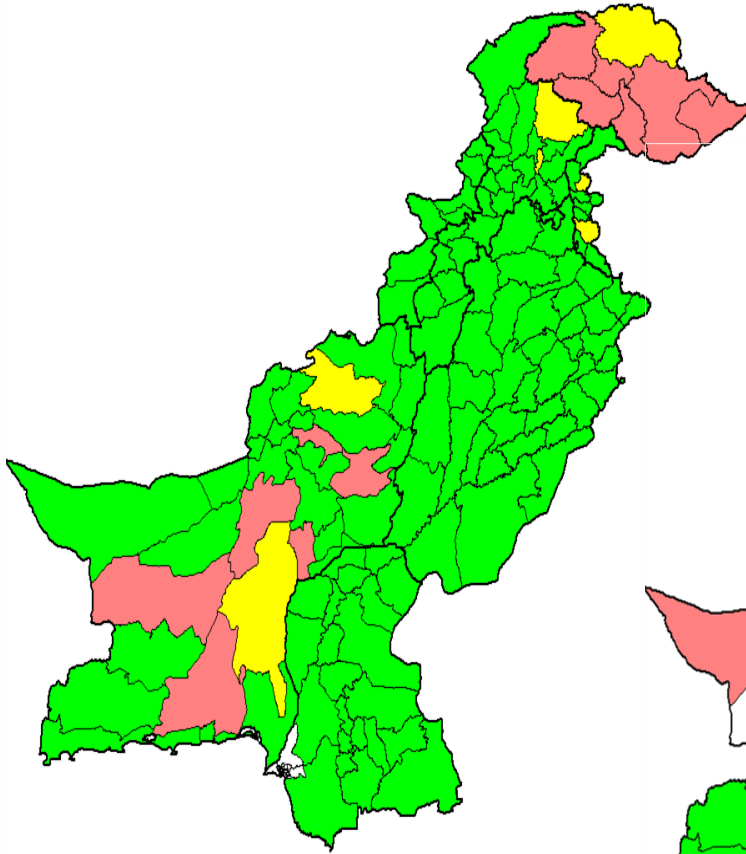
Routine Vaccination status[€] of Non-Polio AFP Cases Aged 06-23 months; 2010 to 2013*



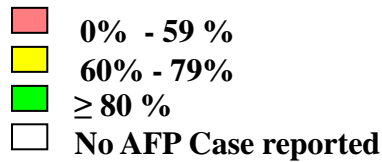
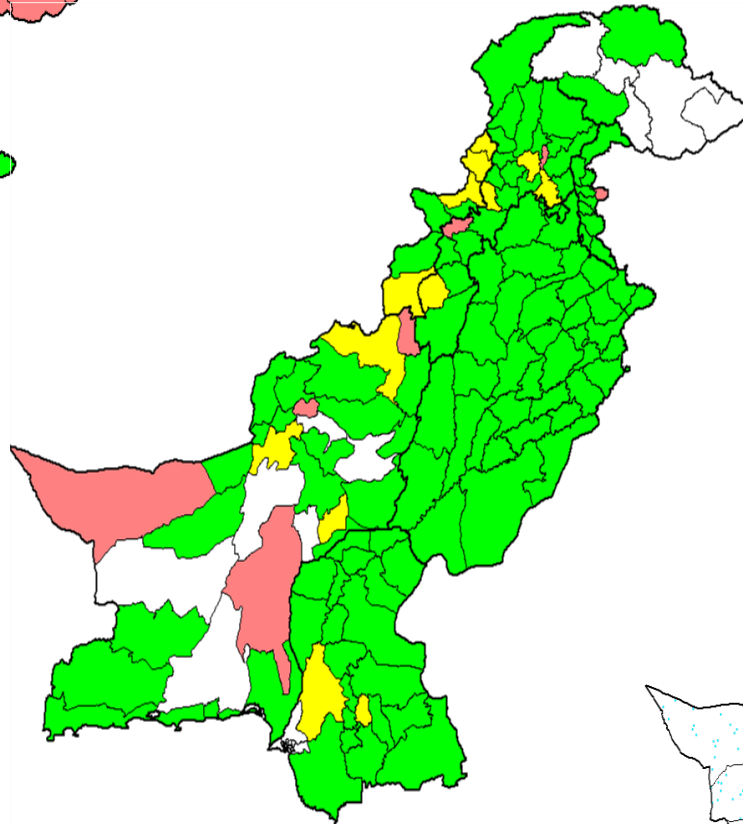
* Afp.rec Data as of 23-09-2013

€ As per recall of parents

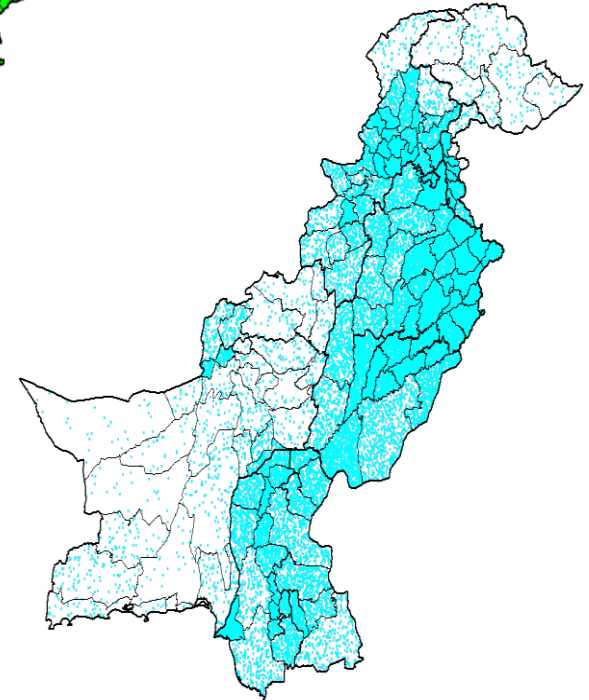
Non-Polio AFP Rate by District 2013*



Percent AFP Cases with Adequate Specimens, By District – 2013*



Population density

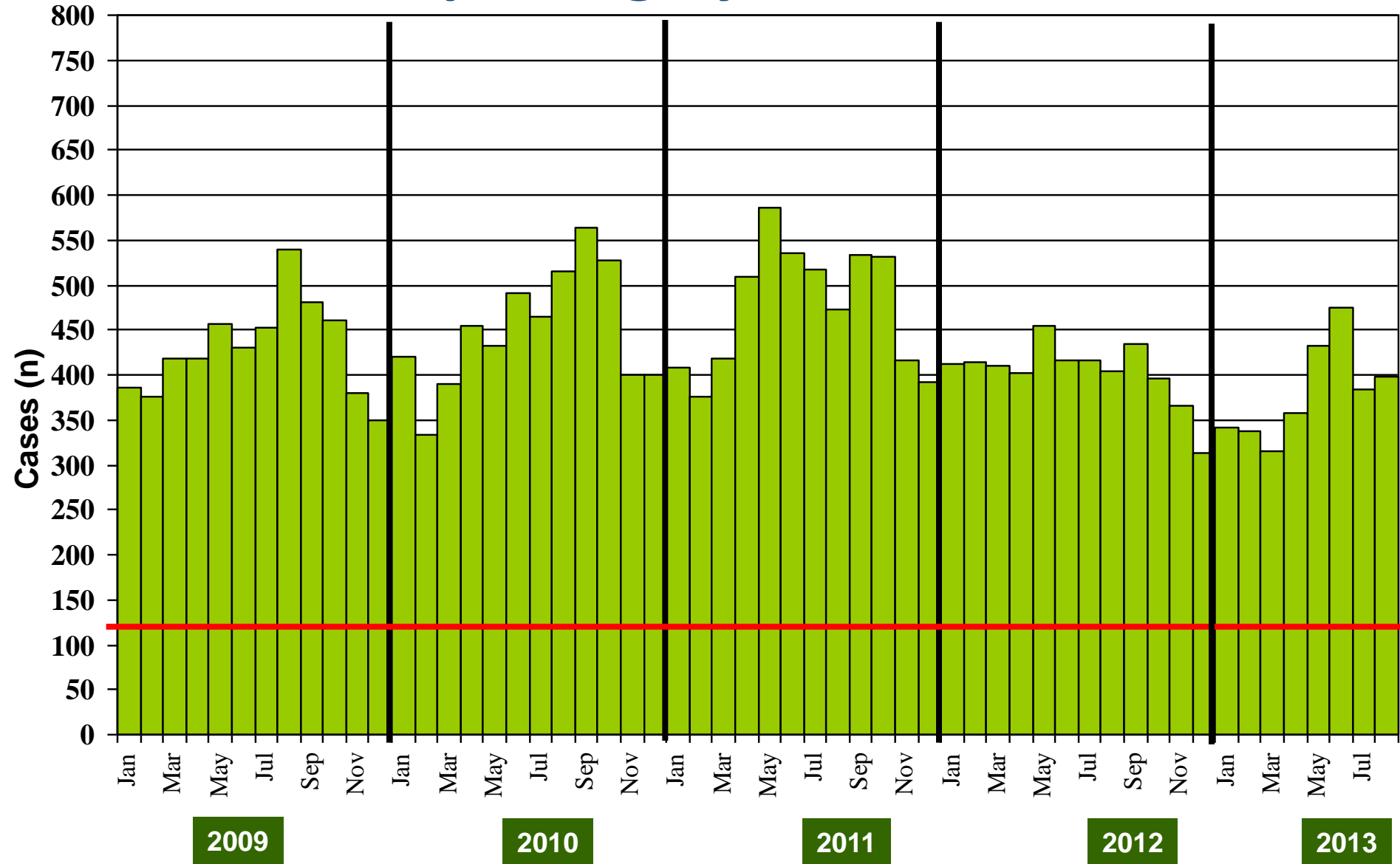


● 2000 children under 15 years of age

Non Polio AFP rate Up to Week No. 37 ended on 14th September, 2013

* Data source AFP 19/09/2013

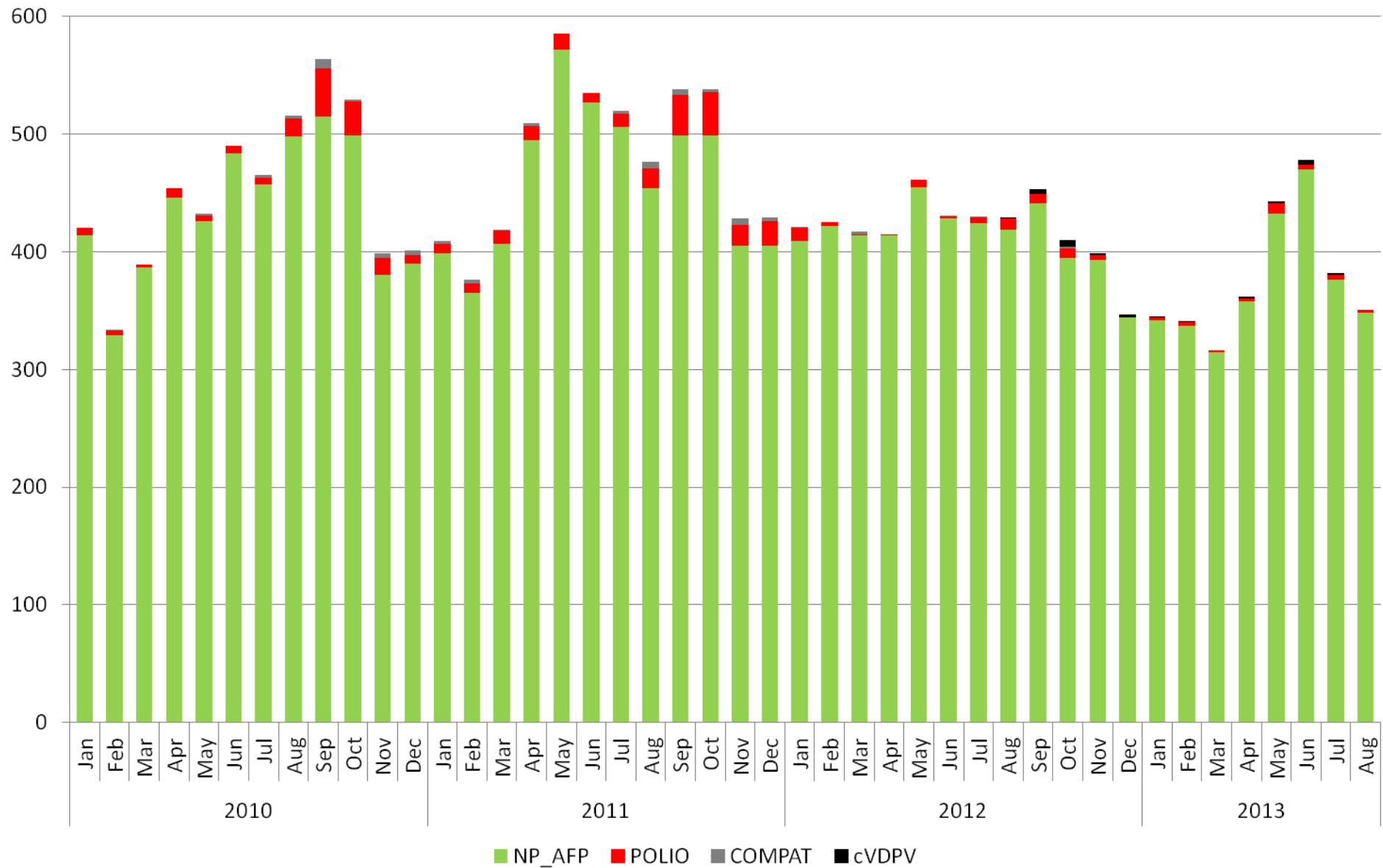
AFP Cases reporting by Month, 2009-2013*



@ Non-polio AFP rate of 2/100,000 children < 15 years

*Afp.rec Data as of 19-09-2013

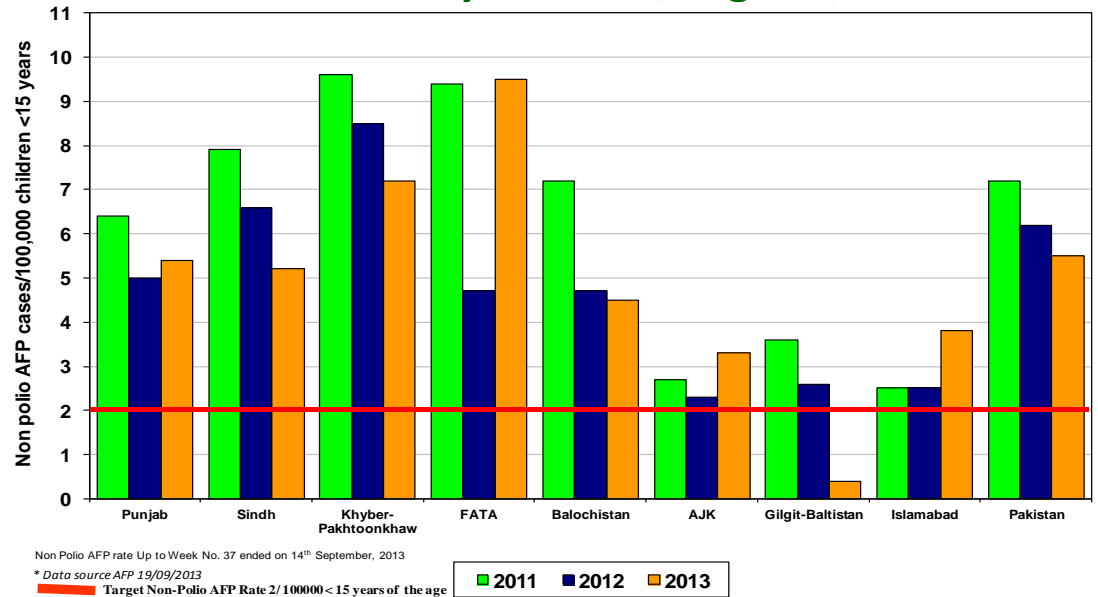
Distribution of AFP Cases by Month, Pakistan 2010-2013*



* Data as of 20th Sep, 2013

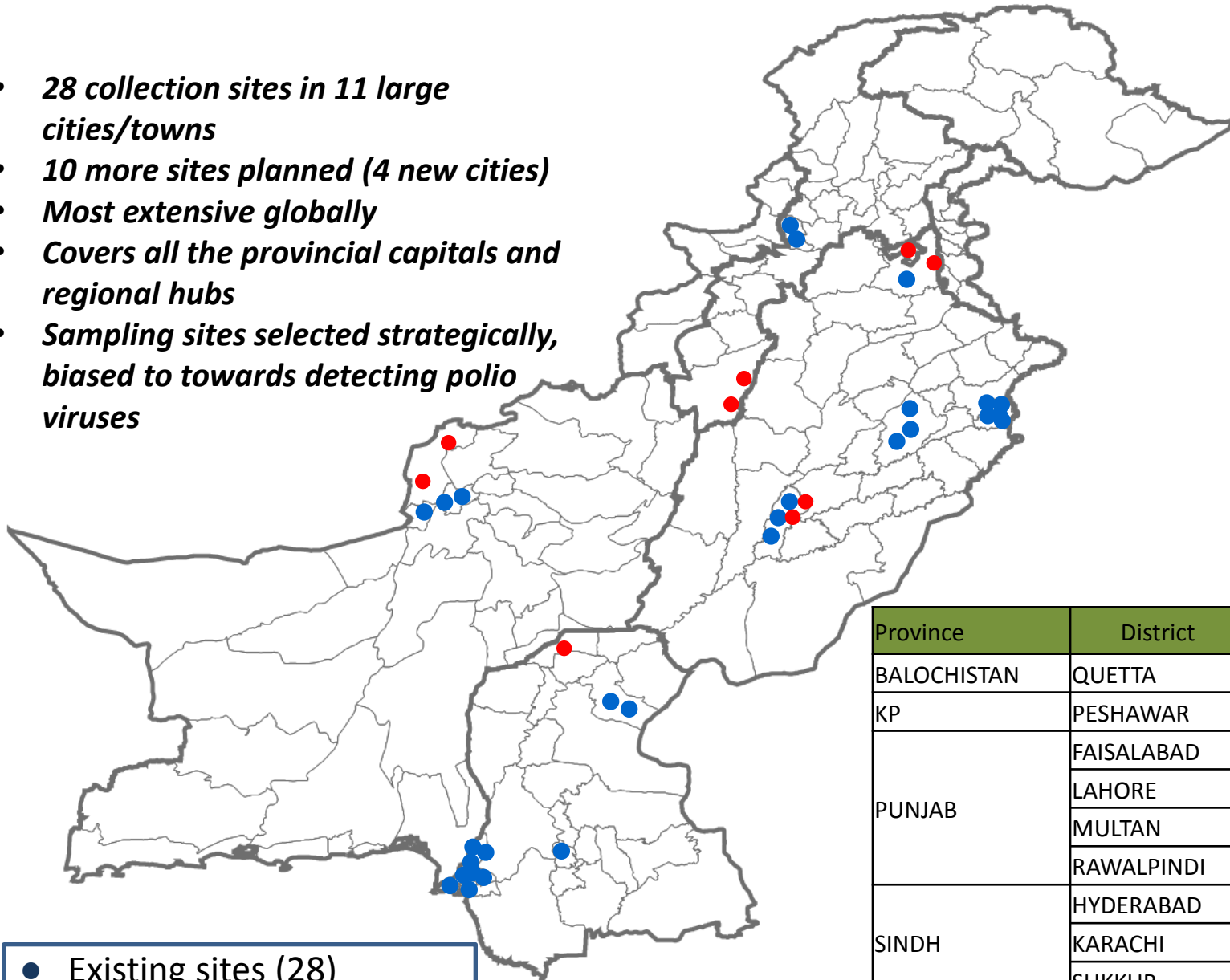
Key AFP Surveillance Indicators by Region / Province

Non Polio AFP Rate By Province/Regions, 2011-2013*



Environmental Surveillance Network

- *28 collection sites in 11 large cities/towns*
- *10 more sites planned (4 new cities)*
- *Most extensive globally*
- *Covers all the provincial capitals and regional hubs*
- *Sampling sites selected strategically, biased to towards detecting polio viruses*



Province	District	No. of Sites
BALUCHISTAN	QUETTA	3
KP	PESHAWAR	2
PUNJAB	FAISALABAD	3
	LAHORE	5
	MULTAN	3
	RAWALPINDI	1
SINDH	HYDERABAD	1
	KARACHI	8
	SUKKUR	2
PAKISTAN		28

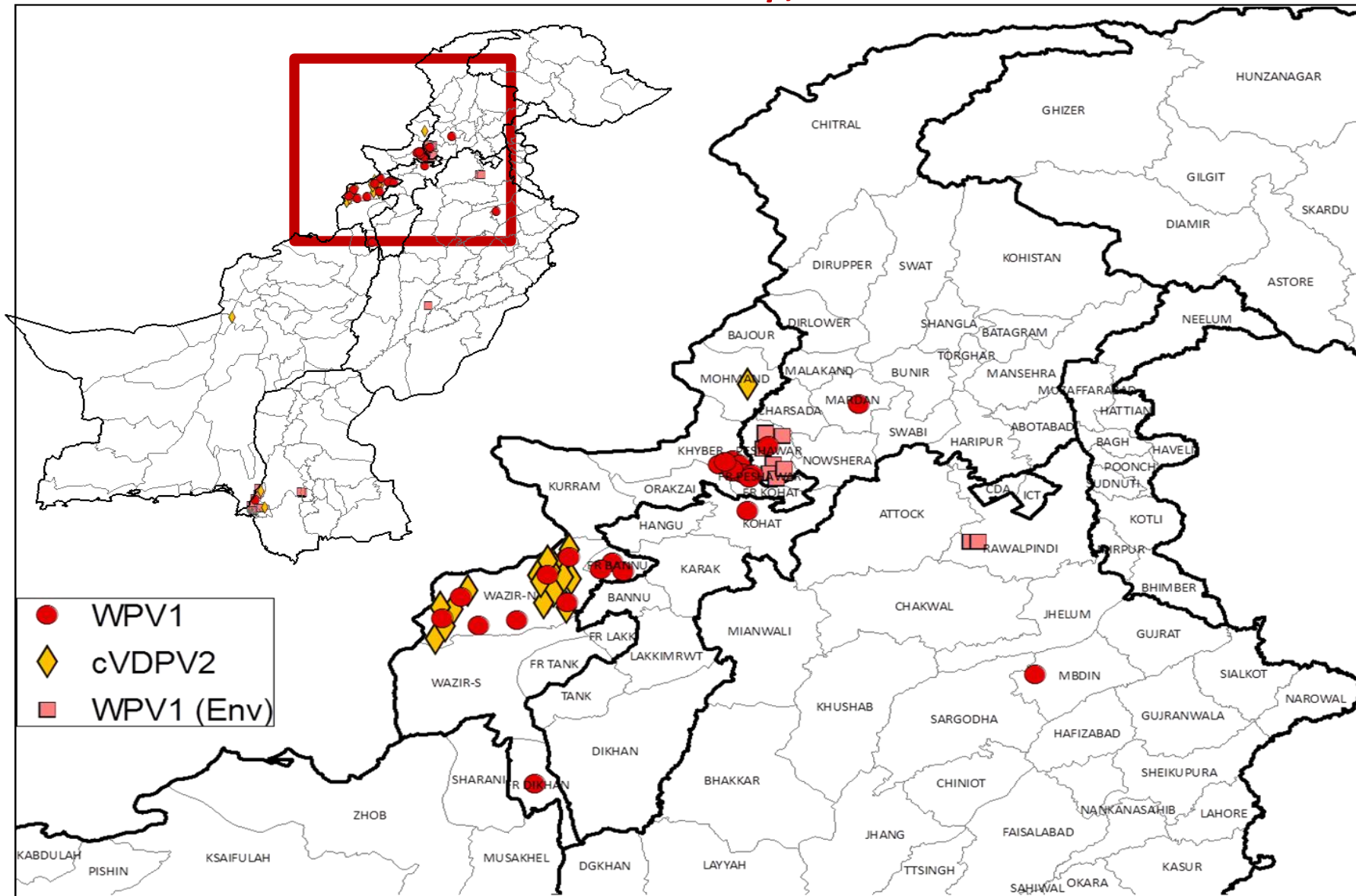
- Existing sites (28)
- Newly identified sites (9)

Update on Surveillance Plans

- NEAP addendum on AFP Surveillance; prepared and ready to be launched
- Cascade trainings of the Government & WHO Surveillance Staff in progress
 - 184 trained so far since last July 2013
- Intensified orientation activities for Healthcare Providers (including informal & faith healers)
 - More than 6000 reportedly oriented since July 2013
- ***Further expansion of environmental surveillance***
 - Ten new sites identified; sampling to initiate over next quarter
 - Four new cities; Killa Abdullah (Balochistan), D.I.Khan (KP), Jacobabad (Sindh) & Islamabad

Poliovirus Isolates During last Six Months

28th Mar to 27th Sep, 2013



Back up - 1

Spot Survey Results; August 2013 NIDs

Province	No. of districts	No. of children screened	Proportion of districts <95%		Proportion of districts <90%	
			No.	%	No.	%
AJK	10	3,037	4	40%	3	30%
BALUCHISTAN	20	3,343	17	85%	15	75%
FATA	8	2,364	5	63%	4	50%
GBALTISTAN	6	693	3	50%	0	0%
ISLAMABAD	2	772	0	0%	0	0%
KP	23	9,306	17	74%	7	30%
PUNJAB	36	15,333	0	0%	0	0%
SINDH	40	12,317	17	43%	7	18%
Grand Total	145	47,165	63	43%	36	25%

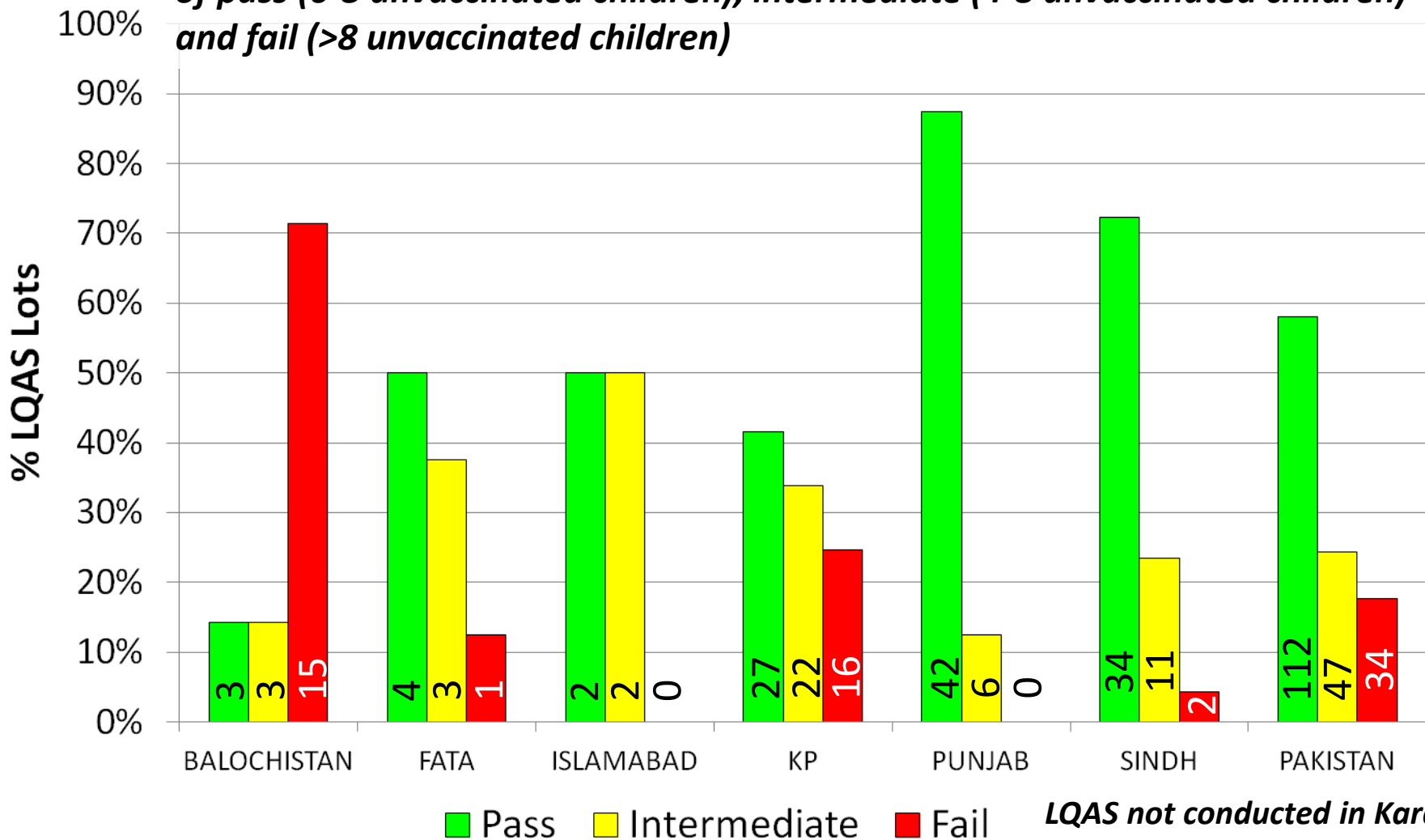
Planned Vaccination Rounds; *Jan – Aug 2013*

Priority	Months / Number of planned vaccination rounds								Total Number of planned Vaccination Rounds
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	
Priority- 1	2	1	2	1	1	1	1	1	10
Priority- 2	2	1	-	1	1 [^]	1	1 [^]	1	6 + 2 partial
Priority- 3	2	-	1	1	1 [^]	1 [^]	1 [^]	1	5 + 3 partial
Priority- 4	-	-	-	1	-	1 [^]	1 [^]	1	2 + 2 partial

[^] In selected districts

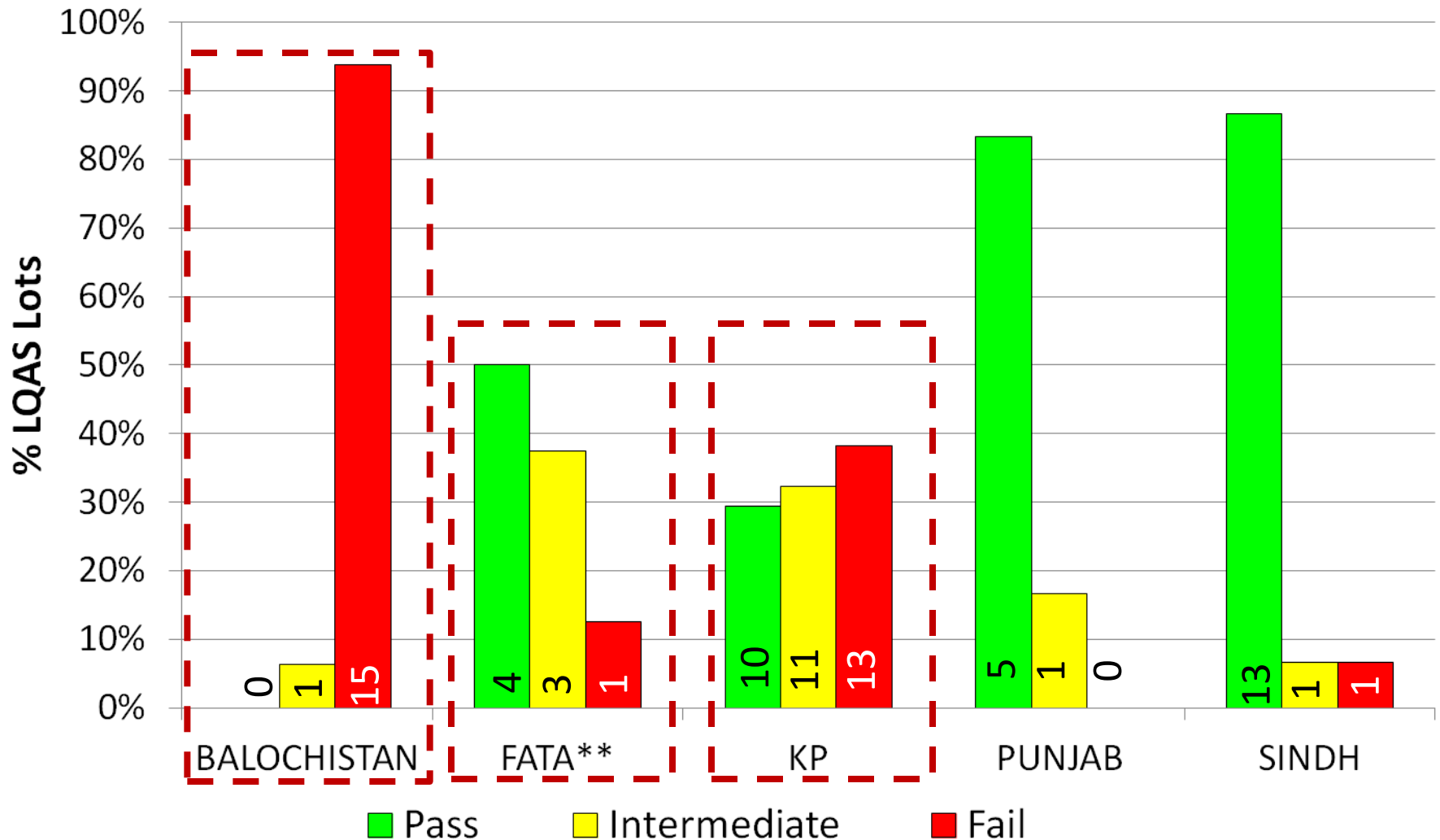
LQAS Results; August 2013 NIDs

New LQAS Methodology introduced; with sample size of 60 and classification of pass (0-3 unvaccinated children), intermediate (4-8 unvaccinated children) and fail (>8 unvaccinated children)



LQAS not conducted in Karachi since December 2012

LQAS Results in Priority-1 Areas; August 2013 NIDs



****Only Accessible Areas**

LQAS not conducted in Karachi since December 2012

Outline

- Current Epidemiology
- Immunization Activities (*Supplementary & Routine*)
- Key Challenges and Risks
- Recent Developments / Steps
- Way Forward
- Surveillance for Polioviruses