

# Polio Eradication

*Report on Milestones*

*31 March 2011*

## *Context for 2<sup>nd</sup> IMB Meeting*

- status of milestones
- current epidemiology
- current financing
- current opportunities

# ***Milestones***

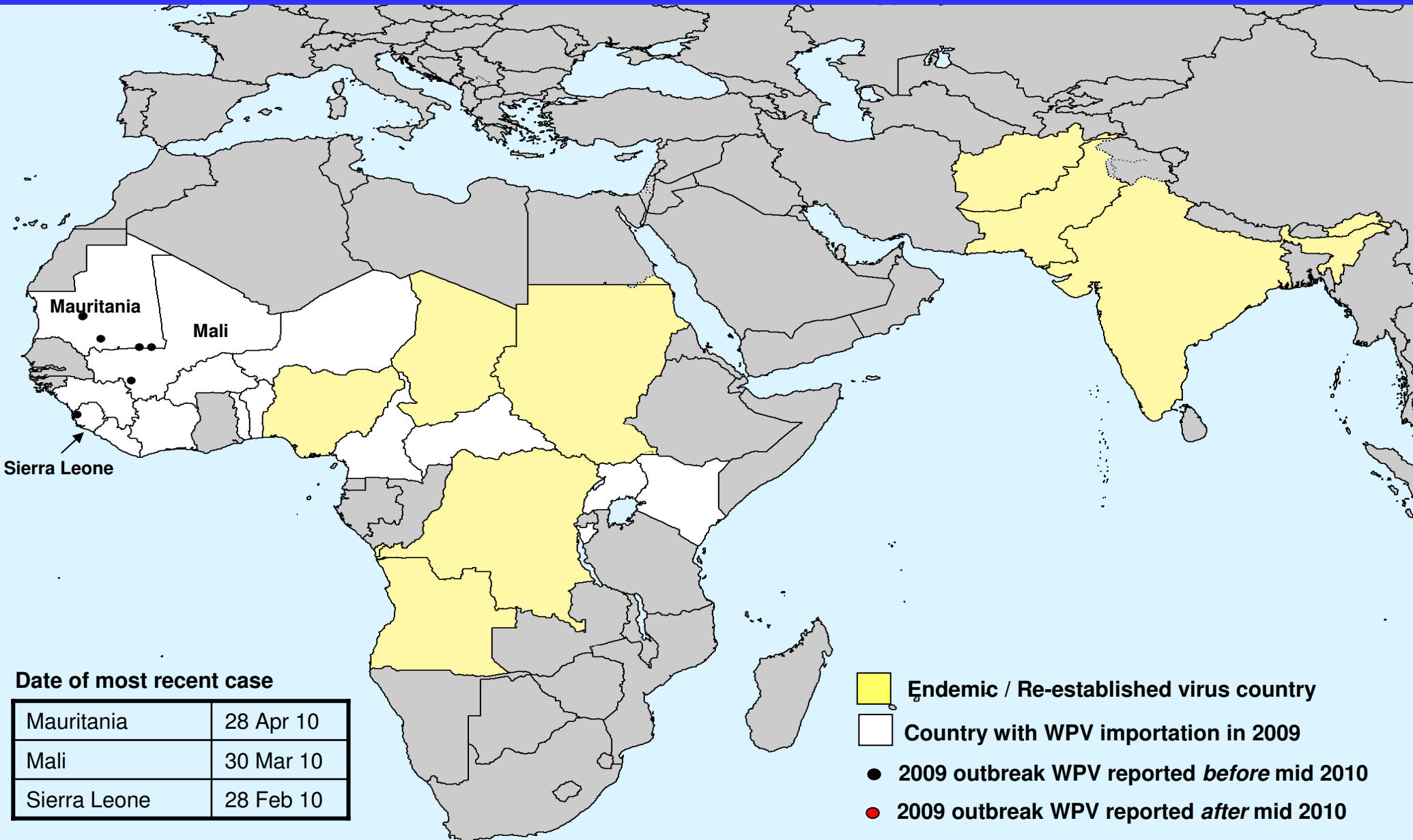
## ***1. Outbreaks in Polio-free Areas:***

*2009: 15/15 stopped*

*2010: 0/11 >6 months*

*ongoing: Congo, Gabon, Niger, Uganda*

# Status of Milestone 1a: no previously polio-free country with an outbreak in 2009 had continued transmission after mid-2010.



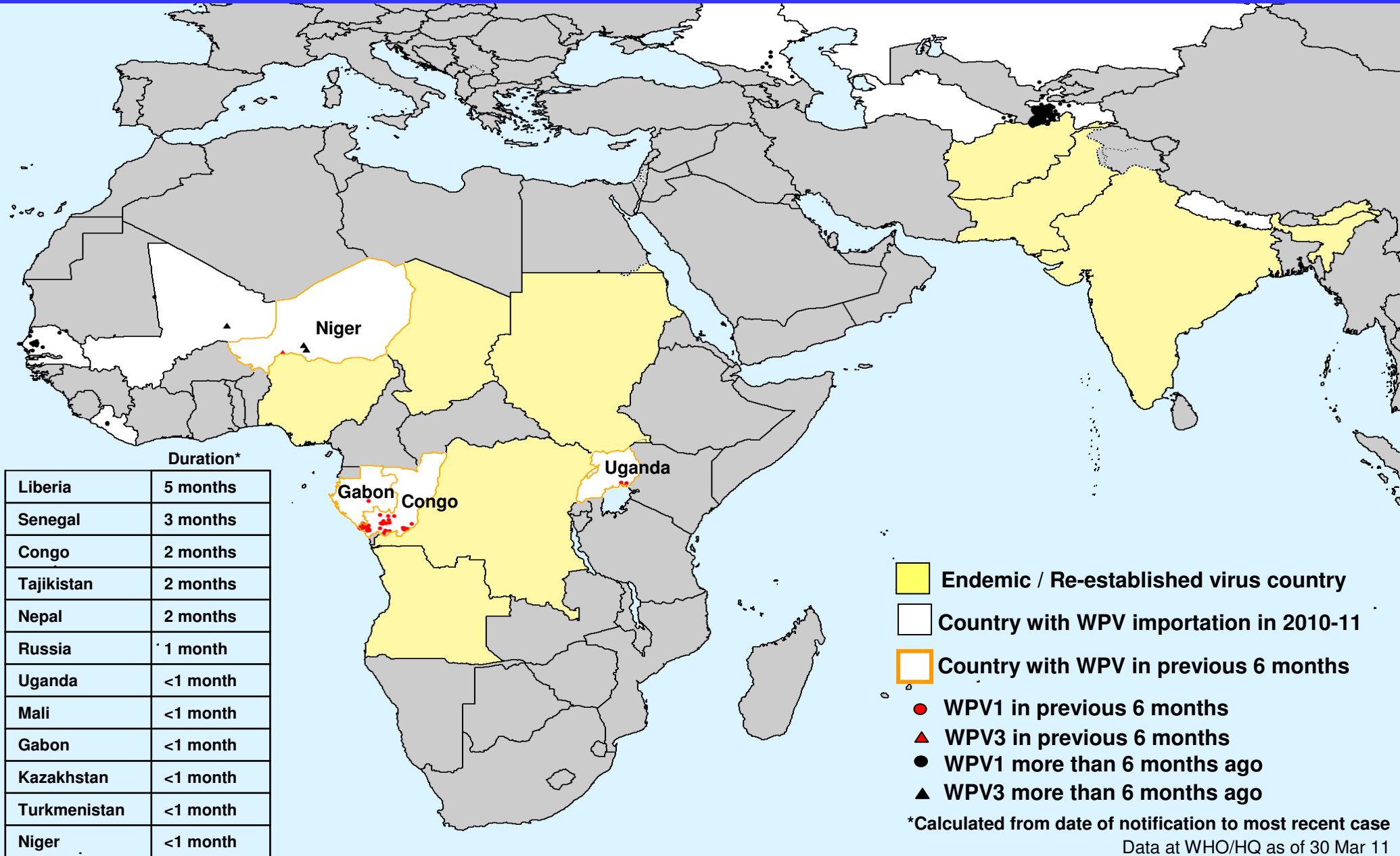
### Date of most recent case

Mauritania	28 Apr 10
Mali	30 Mar 10
Sierra Leone	28 Feb 10

- Endemic / Re-established virus country
- Country with WPV importation in 2009
- 2009 outbreak WPV reported *before* mid 2010
- 2009 outbreak WPV reported *after* mid 2010

\*Excludes endemic and re-established transmission countries (separate milestones)

# Status of Milestone 1b: No countries with a new polio outbreak in 2010-11 had continued transmission for > 6 months



# ***Milestones***

## ***2. Re-established Viruses:***

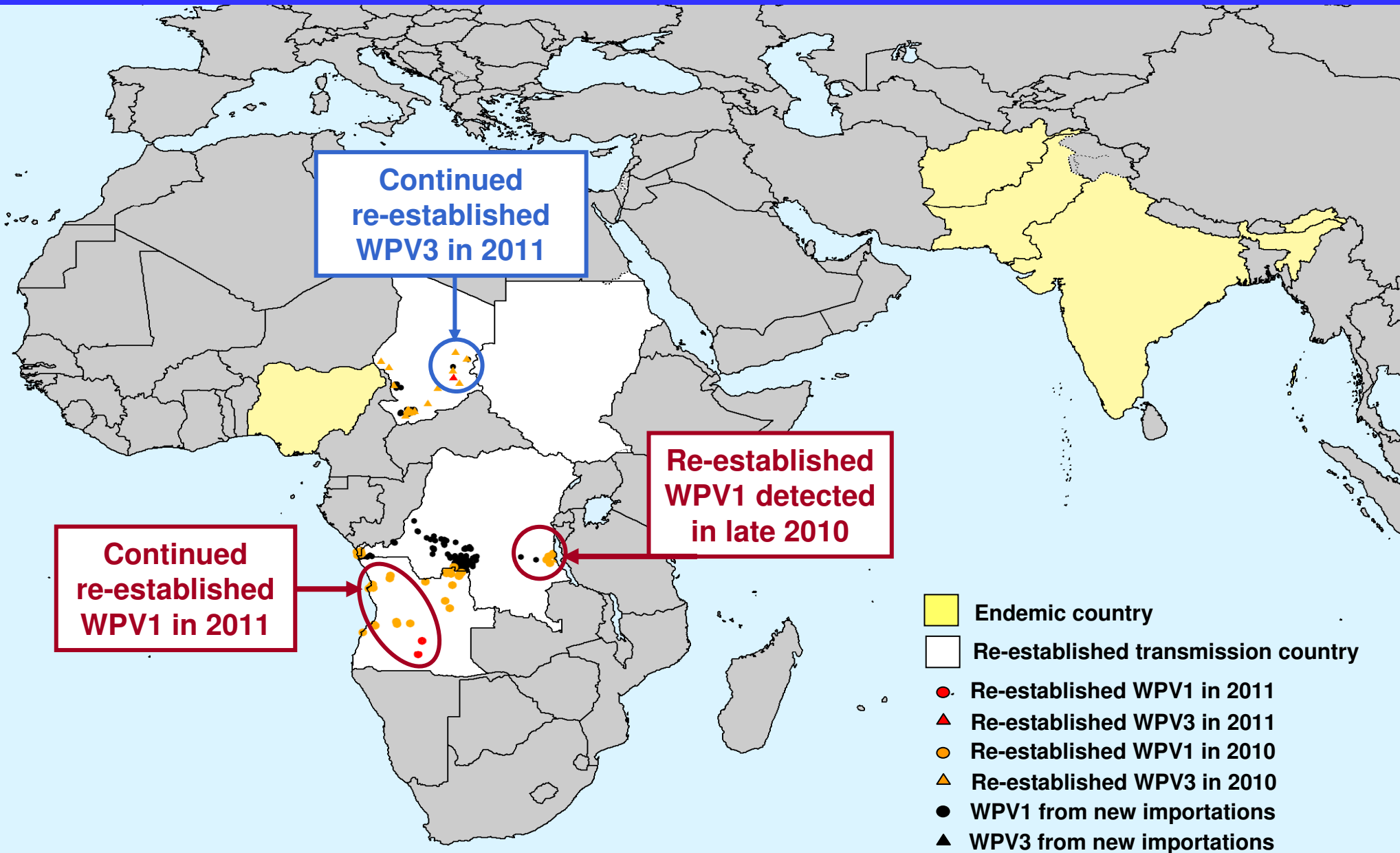
*On-track: Sudan >12 months since  
most recent virus.*

*At-risk: DR Congo (22 Dec 2010)*

*Missed: Angola (Jan 2011)*

*Chad (Jan 2011)*

# Status of Milestone 2: 2 countries with a re-established wild poliovirus have already had confirmed transmission in 2011



# ***Milestones (cont'd)***

## ***3. Endemic Viruses:***

*India: 94% decline (WUP & cent Bihar quiet)*

*Nigeria: 95% decline (but nat'l & int'l spread)*

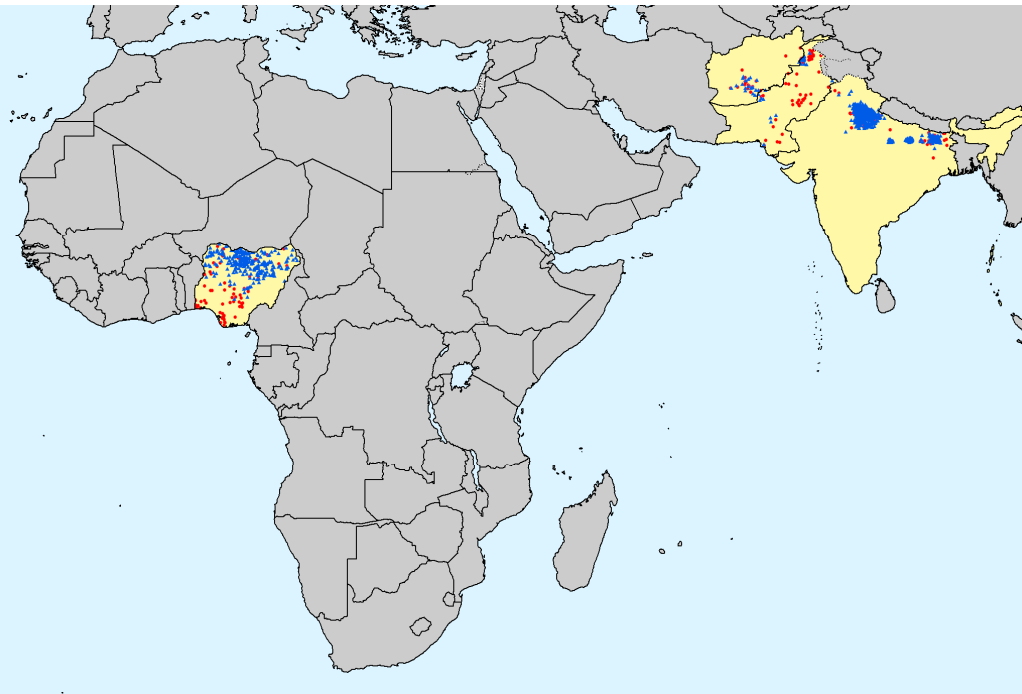
*Afghan: 34% decrease (very geog restricted)*

*Pakistan: **61% increase**; cases in all provinces*



# Status of Milestone 3: 3 of 4 endemic countries had a reduction in cases in 2010 compared to 2009

2009



	# WPV cases
Afghanistan	38
India	741
Nigeria	388
Pakistan	89

● WPV1  
● WPV3

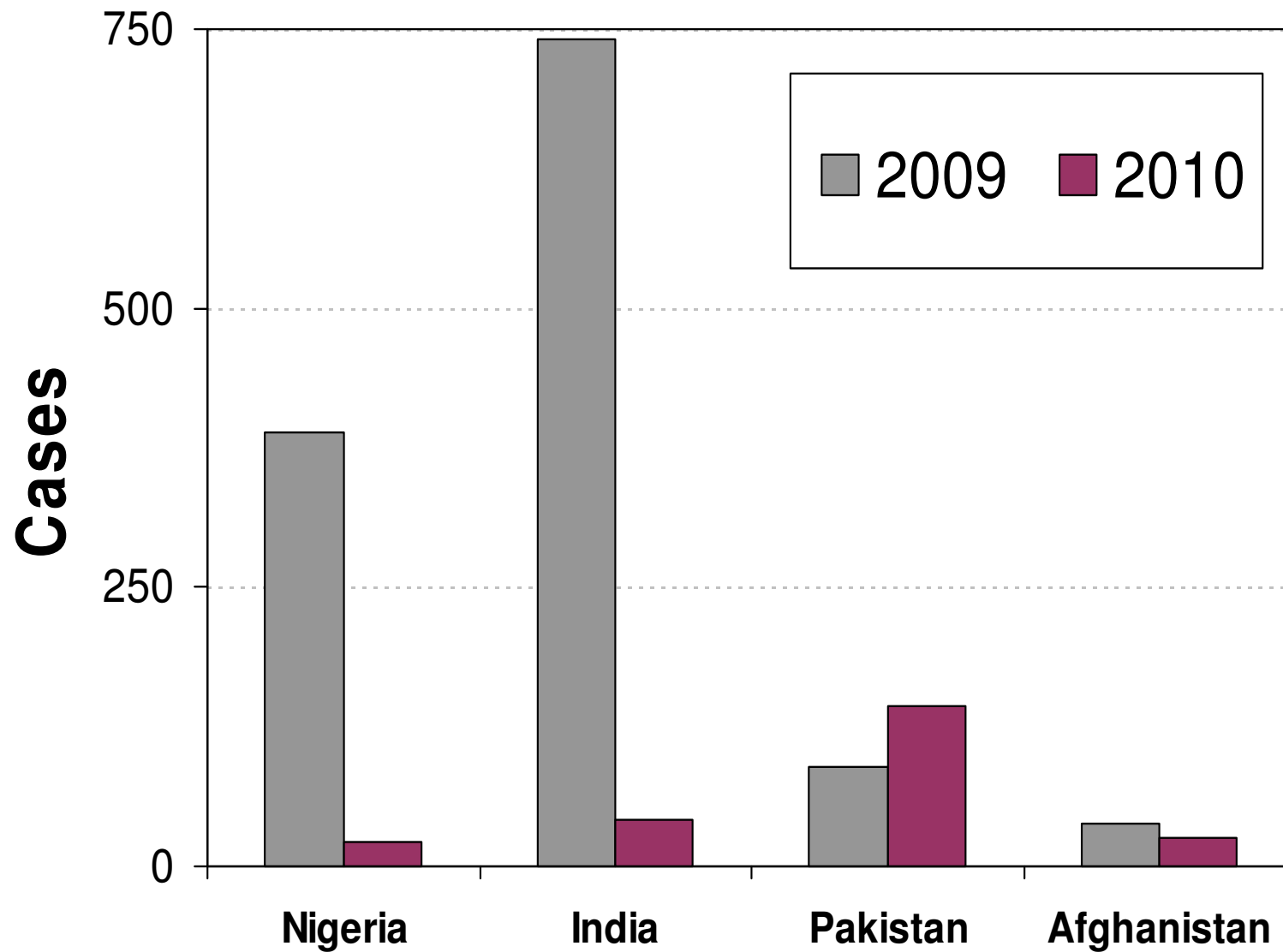
2010



	# WPV cases
Afghanistan	25 (-34%)
India	42 (-94%)
Nigeria	21 (-95%)
Pakistan	144 (+61%)

● WPV1  
● WPV3

# ***Polio cases due to indigenous wild virus 2009 vs. 2010***



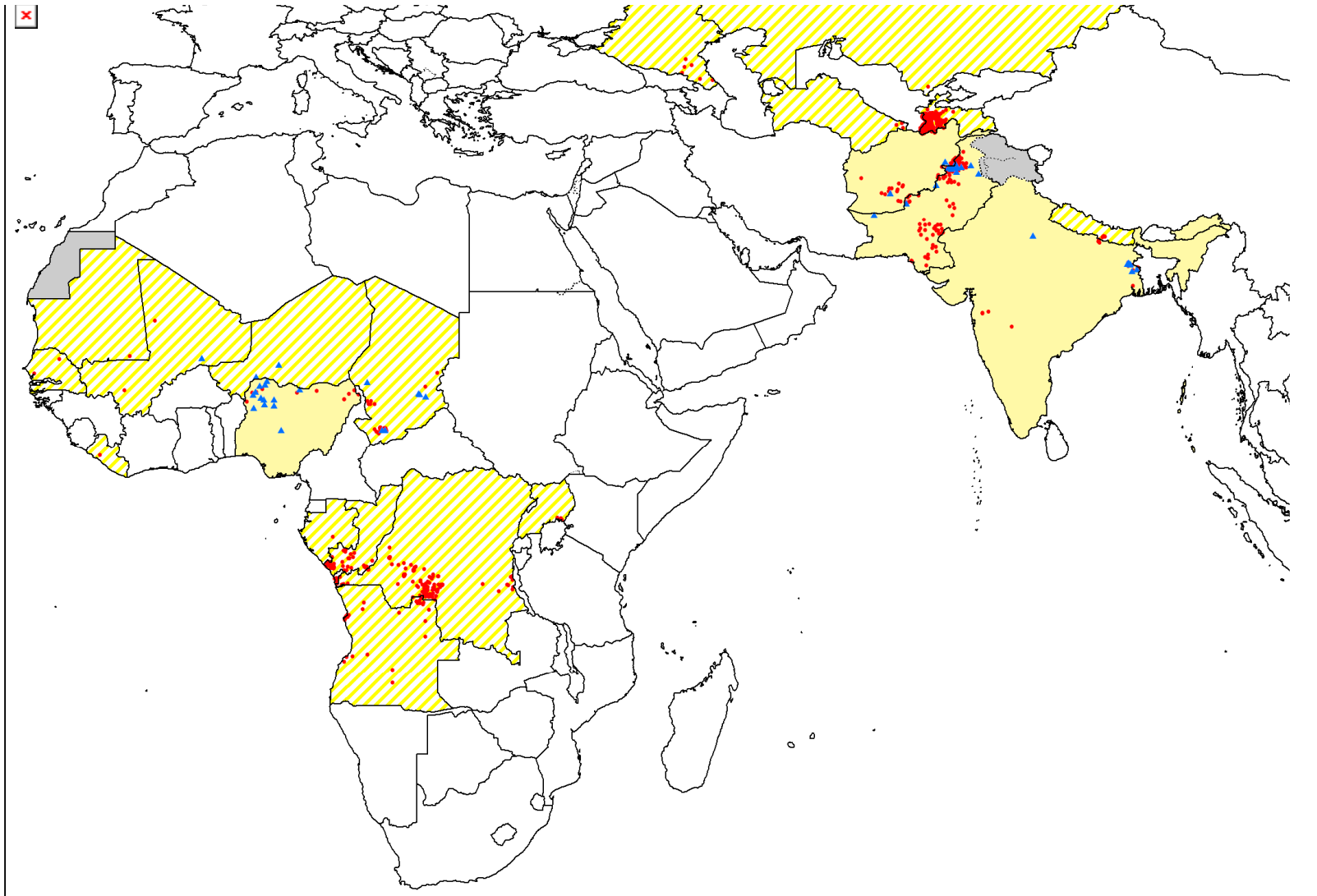
# Major Milestones at 31 March 2011

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mid-2010: <i>all 2009 importations</i> interrupted	<b>Achieved (15/15)</b>
within 6 months: <i>all new (2010) imports</i> interrupted	<b>Achieved/on-track</b>
end-2010: <i>all re-established viruses</i> interrupted.	<b>Achieved:</b> Sudan <b>Off-track:</b> DR Congo <b>Missed:</b> Angola, Chad
end-2011: <i>2 of 4 endemic countries</i> interrupted.	<b>On-track:</b> India, Nigeria, Afghanistan <b>Off-track:</b> Pakistan

***Current Epidemiology &  
Some Recent Developments***

# *Wild Poliovirus Cases: last 4 months*



\* 30 Nov 2010 – 29 Mar 2011

# ***Newly infected areas since last IMB:***

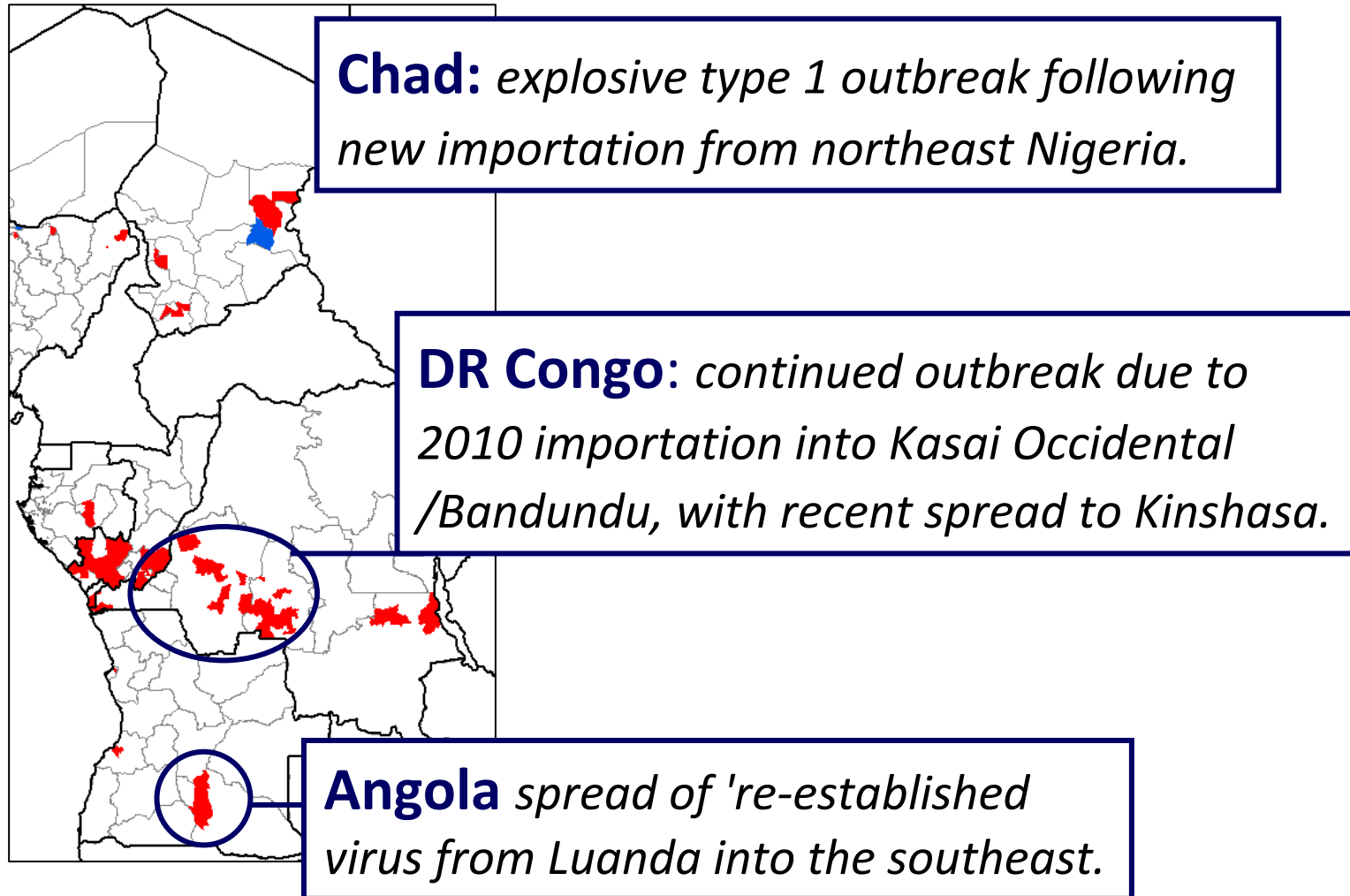
## ***Previously polio-free areas:***

- *Niger: type 3 from NW Nigeria (1 case; 19 Jan 2011)*
- *Gabon: type 1 from Congo OB (1 case; 15 Jan 2011)*

## ***Areas already polio-infected:***

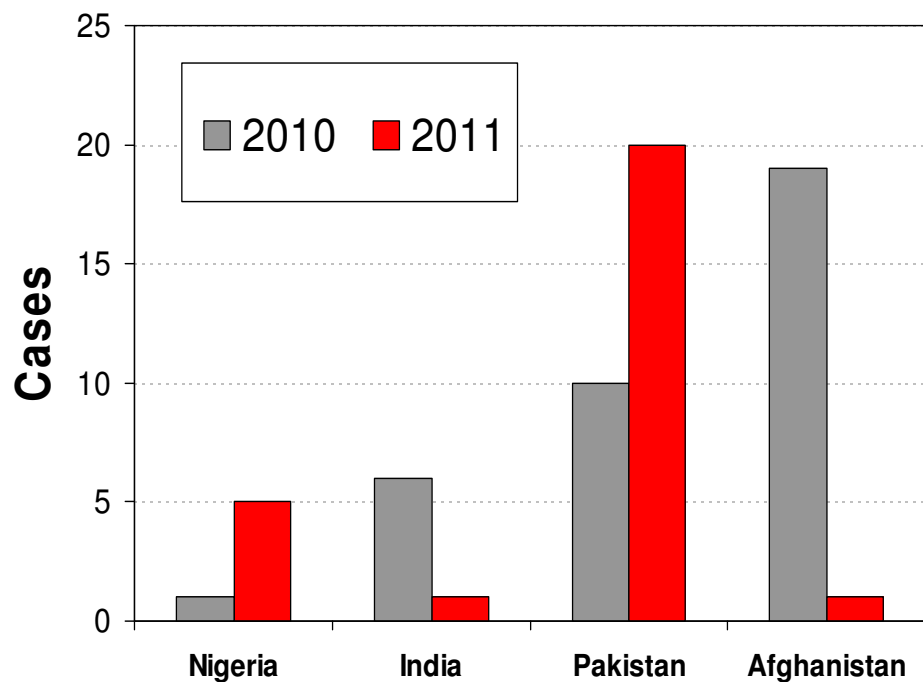
- *Chad: new, type 1 outbreak (import from NE Nigeria)*
- *DR Congo: re-infection of Kinshasa (type 1)*

# *New infections in the 3 're-established transmission' countries\**

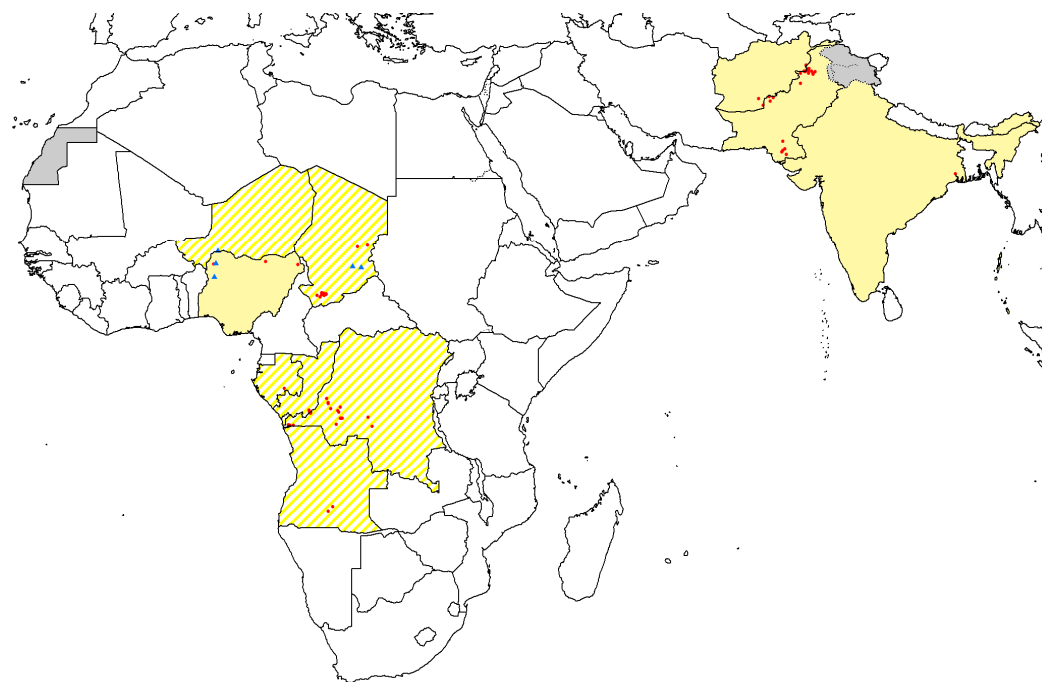


\* infected-districts, last 6 months

## Polio cases, endemic countries year-to-date 2010 vs. 2011



## Polio cases, endemic countries year-to-date 2011



**Pakistan:** year-to-date 2x increase in cases vs 2010.

**Nigeria:** continued type 3 transmission in NW,  
type 1 in NE/NW & cVDPV2 across north.





**Pakistan President Zardari**  
launches new plan (24 Jan '11)

**Angola President Dos Santos meets**  
**UNICEF ExD** on new plan (Jan '11)



**DR Congo President Kabila meets**  
**WHO DG** on new plan (7 Feb 2011)

# ***Institutionalizing Best Practices (examples)***

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## *OPV campaign quality & impact:*

- **district-specific planning** process (HR areas)
- public tracking of **sub-national leaders** actions
- scaled-up role of **traditional/local leaders**
- **short-interval additional dose** (SIAD) strategies
- **mobile populations** & transit strategies
- bivalent OPV
- operational research (e.g. serosurveys)
- big increase in **technical assistance** (HR areas)

# ***Institutionalizing Best Practices (examples)***

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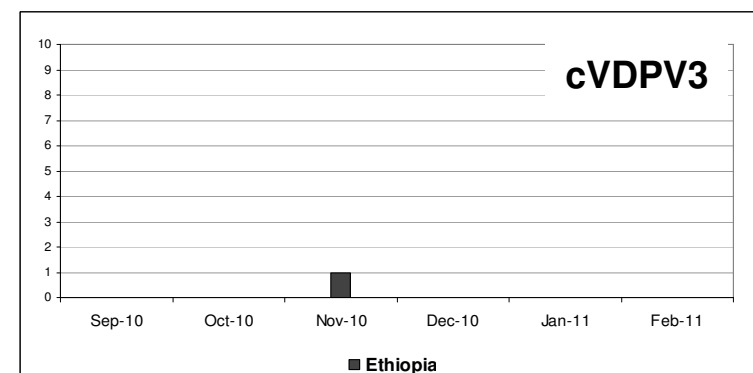
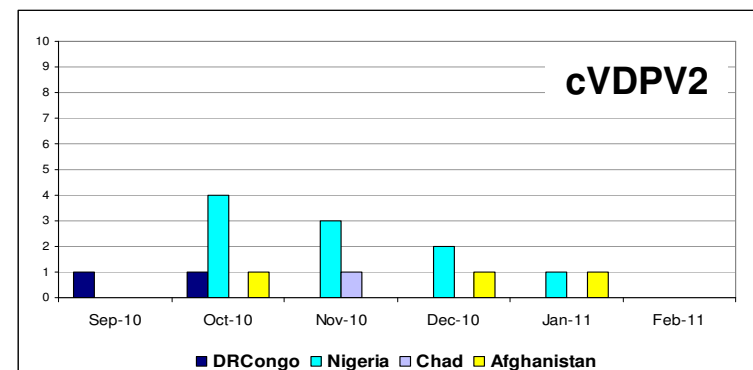
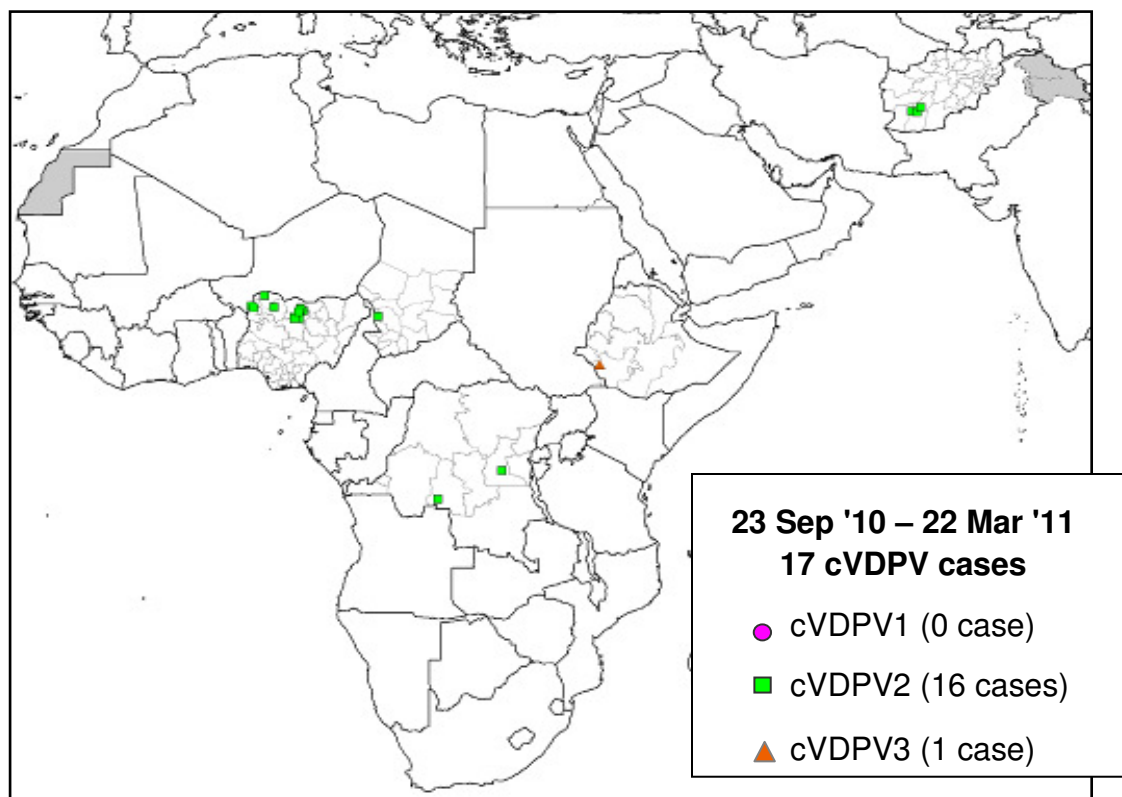
## *OPV campaign monitoring:*

- standardized **Independent Monitoring**
- **Lot Quality Assurance Sampling (LQAS)**
- **serologic surveys**

## *Poliovirus surveillance:*

- **Rapid field reviews** (insecure areas, new import., orphan virus)
- **Environmental surveillance**
- **Enhanced performance standards** (e.g. AFP rate >2)

# Circulating Vaccine-derived Poliovirus\*, last 6 months



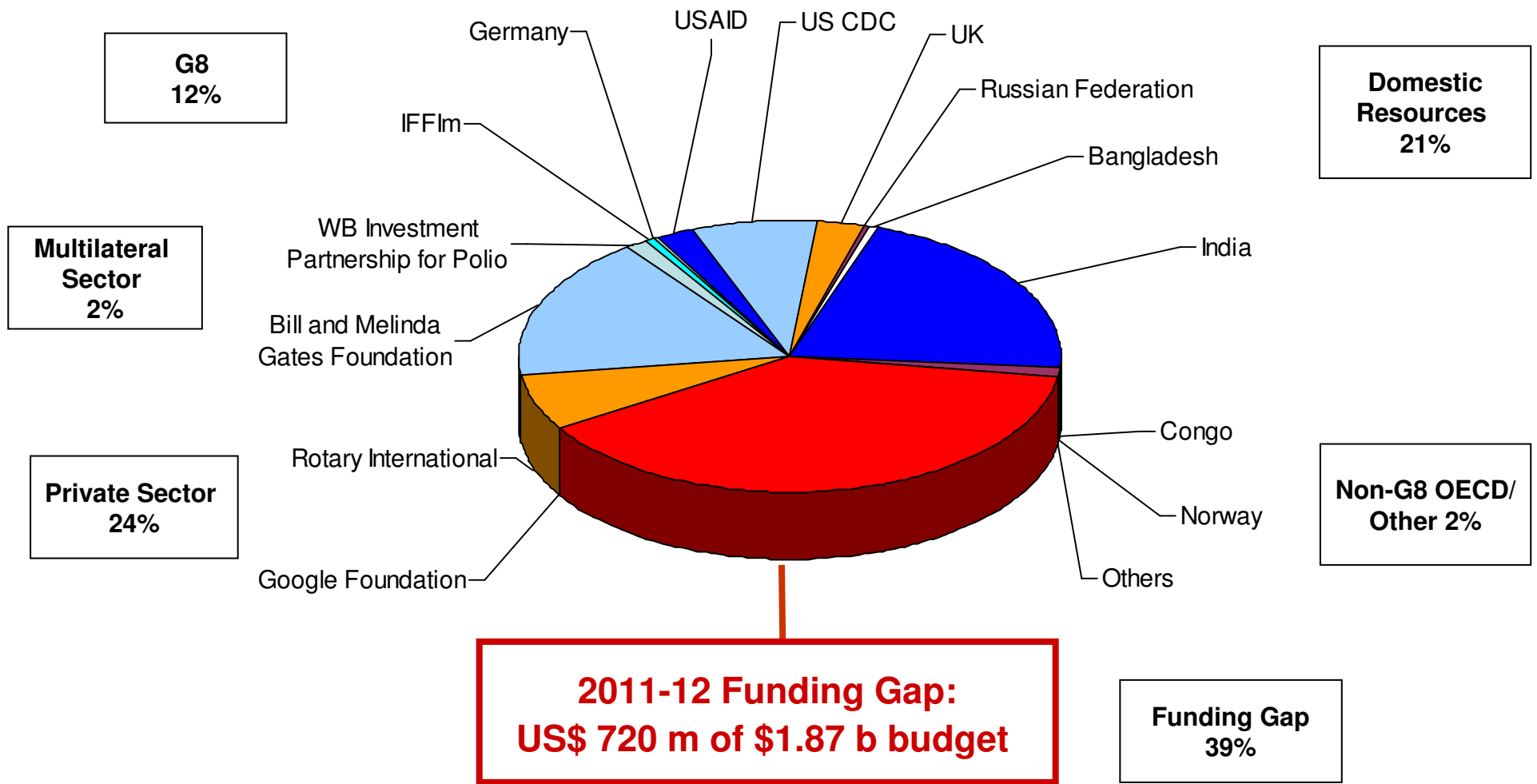
*'Although it would take at least 3 years to prepare, it may be appropriate to consider planning for cessation of routine OPV immunization against type 2 polioviruses.'*

**SAGE Working Group, 7 April 2011**

# ***Current Financing***

# *Polio eradication financing gap, 2011-2012*

## *at January 2011*



# New Contributions Jan-Mar 2011

<b>DONOR</b>	<b>2011</b>	<b>2012</b>	<b>2011-2012</b>
<b>Angola</b>	<b>\$2.04</b>		<b>\$2.04</b>
<b>Bangladesh</b>	<b>\$11.90</b>		<b>\$11.90</b>
<b>Canada</b>	<b>\$9.53</b>	<b>\$7.65</b>	<b>\$17.18</b>
<b>Crown Prince of Abu Dhabi</b>	<b>\$17.00</b>		<b>\$17.00</b>
<b>Gabon</b>	<b>\$1.66</b>		<b>\$1.66</b>
<b>Italy</b>	<b>\$0.48</b>		<b>\$0.48</b>
<b>Japan</b>	<b>\$1.90</b>		<b>\$1.90</b>
<b>UK*</b>	<b>\$2.65</b>		<b>\$2.65</b>
<b>TOTAL</b>	<b>\$47.16</b>	<b>\$7.65</b>	<b>\$54.81</b>

\* Includes \$1.18 million in reprogrammed unobligated funds from previous grants to WHO.

## ***Additional financing under discussion:***

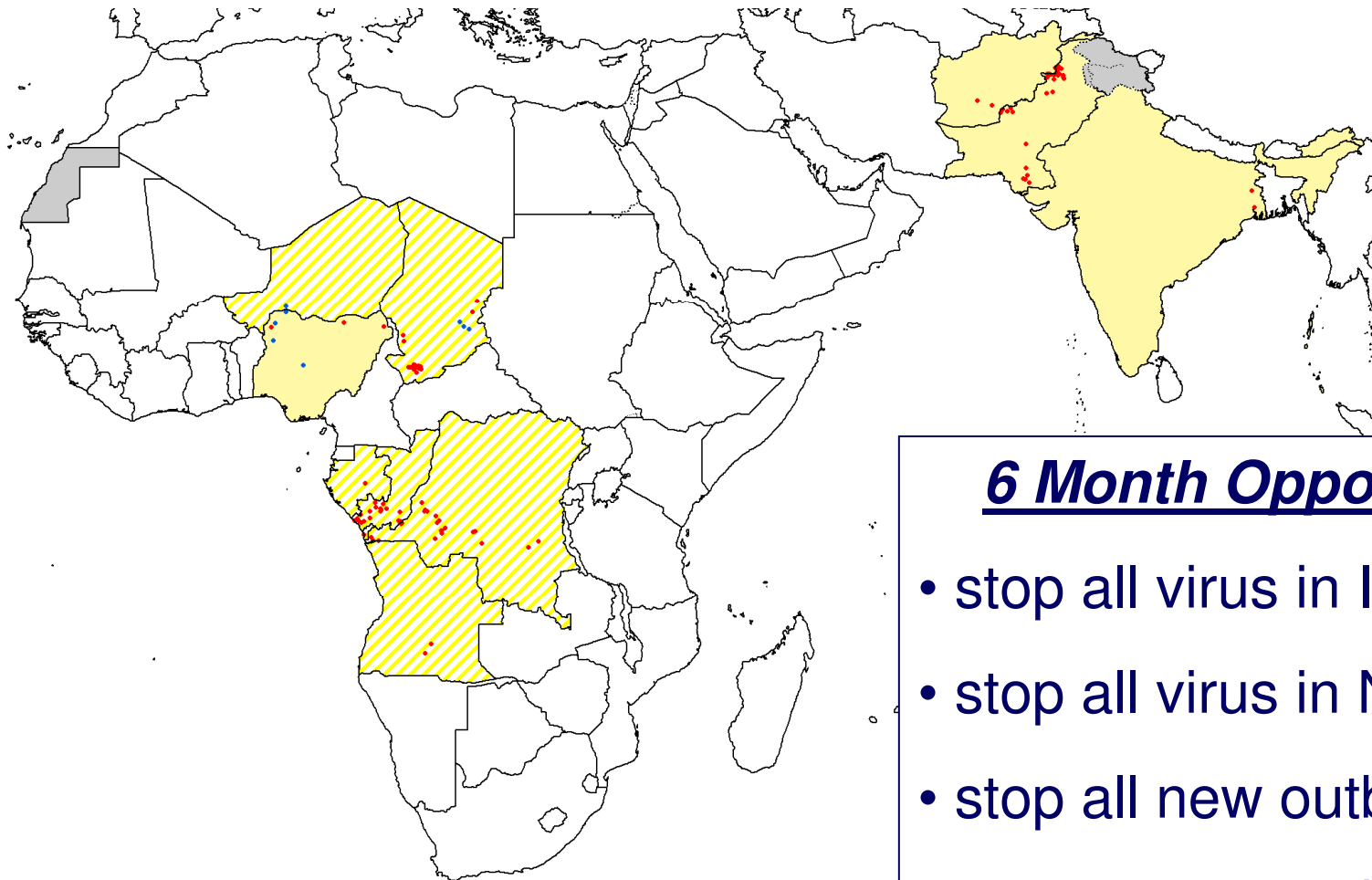
- ***UK:*** doubling its 2011-12 funds by £40 m if matched 5:1.
- ***Bill & Melinda Gates Foundation:*** new US\$50 million
- ***World Bank Grants & Partner 'Buy-downs':*** US\$120 million
- ***European Commission:*** US\$25 million (NIE)
- ***Canada:*** US\$22 million (AFG)
- ***UNICEF:*** US\$10 million (Regular Resources)
- ***Saudi Arabia:*** US\$30 million (OPV in OIC countries)

**Residual Financing Gap 2011-2012 = US\$350 million**



***Immediate Opportunities  
& Priorities***

# **Wild Poliovirus Cases: *last 4 months***

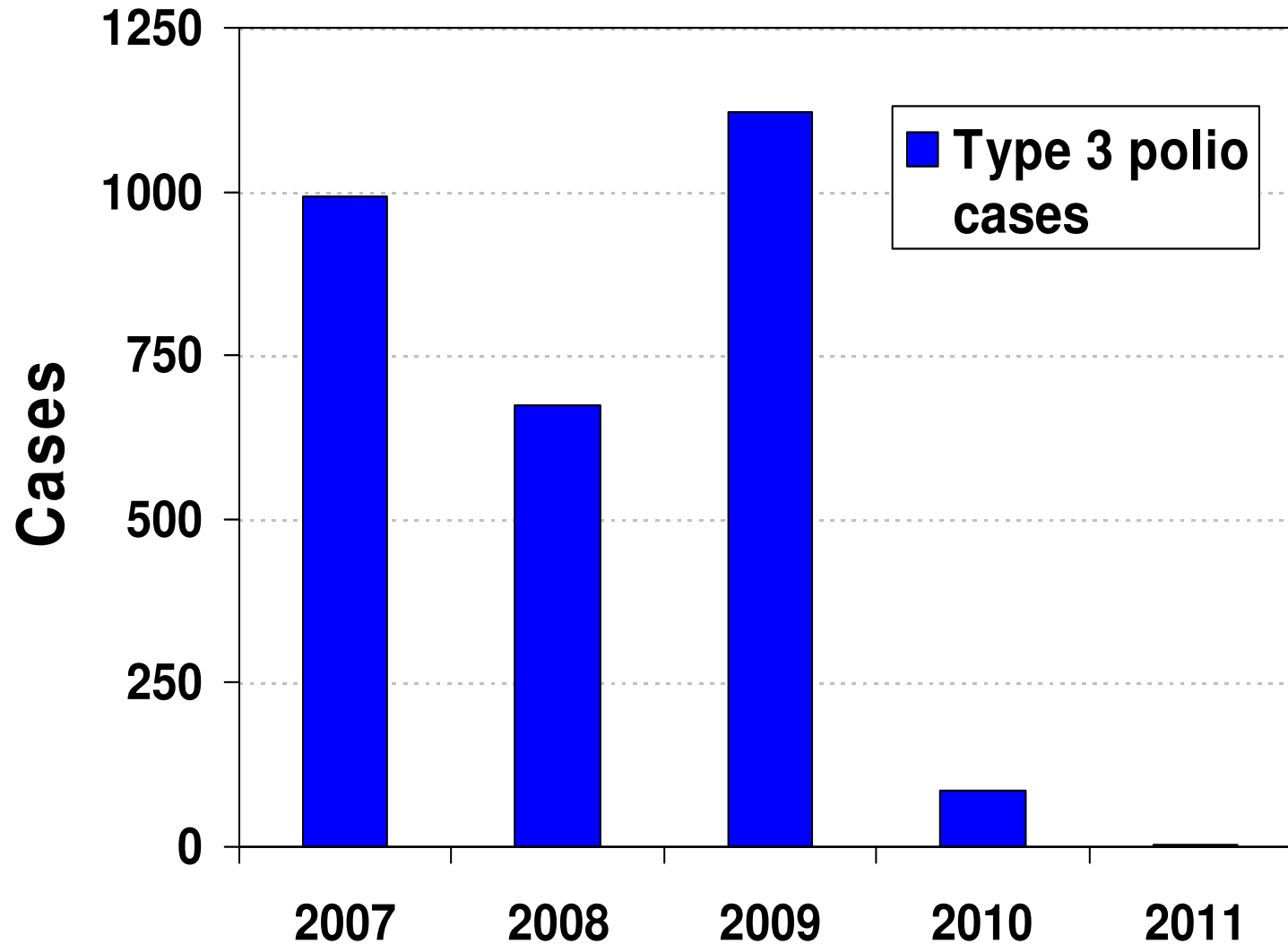


## **6 Month Opportunities**

- stop all virus in India
- stop all virus in Nigeria
- stop all new outbreaks
- stop all type 3 virus(?)
- stop all virus in Afghanistan

# *Polio cases due to type 3 wild virus*

## *2007-2011*



# *Summary*

## Summary

3 of 4 milestones broadly on track.

- 2 're-established virus' countries missed end-2010 milestone (ANG, CHA); 3<sup>rd</sup> at very high risk (DRC).
- 1 'endemic' country still not back on track (PAK).

Political support at all-time high.

Financing gaps continues to constrain.

Opportunity to achieve new landmarks, esp.  
in India, Nigeria & with type 3.