

POLIO | GLOBAL ERADICATION INITIATIVE

Polio: A Global Update

DCVMN-- Seoul, Korea

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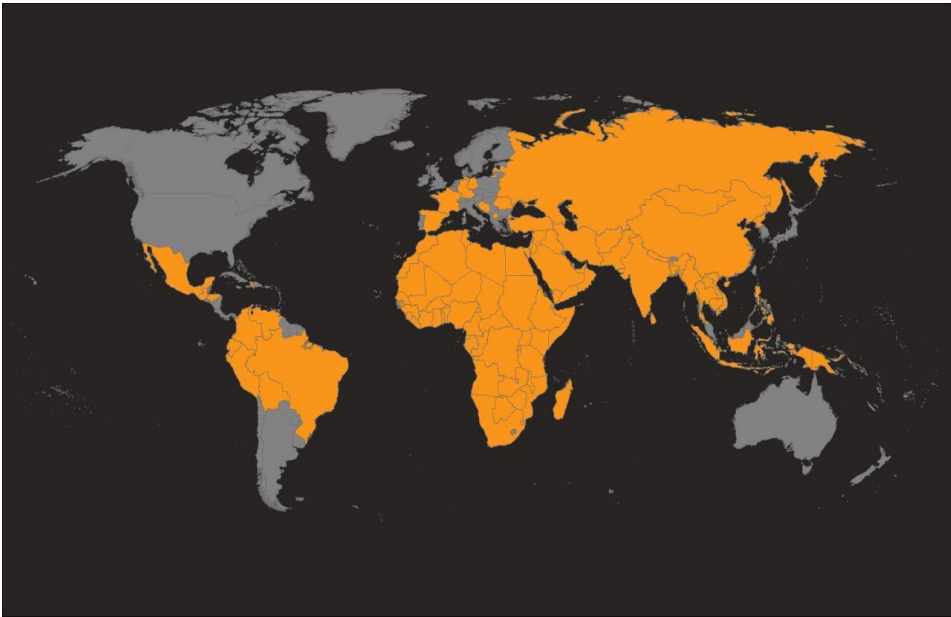


Polio Eradication and Endgame Strategy

1. **Poliovirus detection & interruption**
2. OPV2 withdrawal, IPV introduction, immunization system strengthening
3. Containment & Global Certification
4. Legacy/Transition Planning



Progress in WPV eradication



1988



2016

Wild Poliovirus & cVDPV Cases¹ Past 6 months²

**Public Health Emergency
of International Concern**
declared under the **International
Health Regulations** in May 2014
Last reiterated on 3 August 2017

- Wild poliovirus type 1
- cVDPV type 2
- Endemic country

¹Excludes viruses detected from environmental surveillance

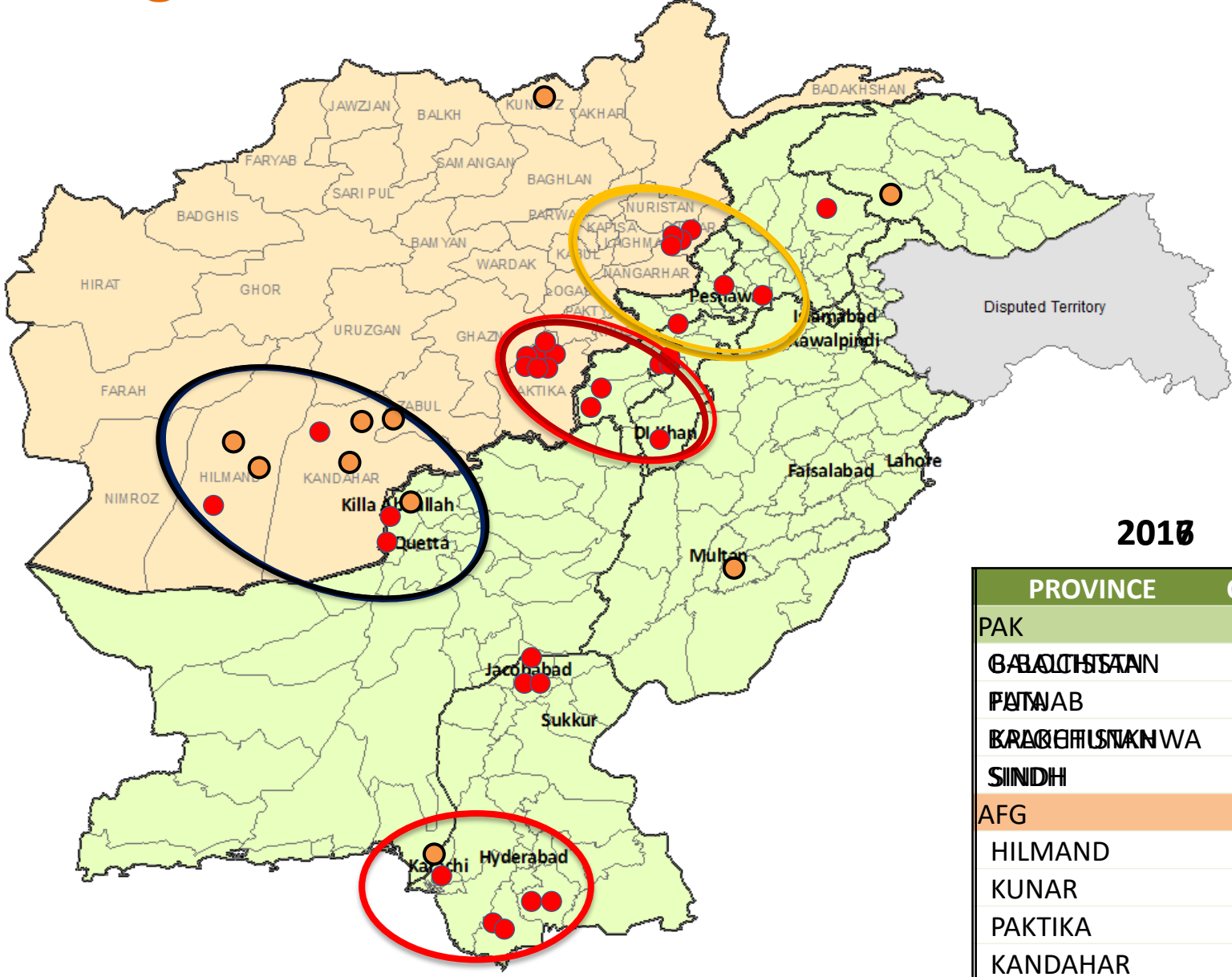
²Onset of paralysis 20 March 2017 – 19 September 2017

Country	Onset of most recent WPV1 case	Number of WPV1 cases		Number of WPV infected districts		cVDPV current 6 months
		Current ²	Same period last year ³	Current ²	Same period last year ³	Number of cases
Nigeria	NA	0	3	0	3	0
DRC	NA	0	0	0	0	7
AFR		0	3	0	3	7
Pakistan	11-Aug-17	2	6	2	4	0
Afghanistan	10-Jul-17	3	5	3	3	0
Syria	NA	0	0	0	0	38
EMR	11-Aug-17	5	11	5	7	38
Global	11-Aug-17	5	14	5	10	45

²Current rolling 6 months: 20 March 2017 – 19 September 2017

³Same period previous year: data reported from 20 March 2016

Pakistan-Afghanistan: WPV cases, 2016-17



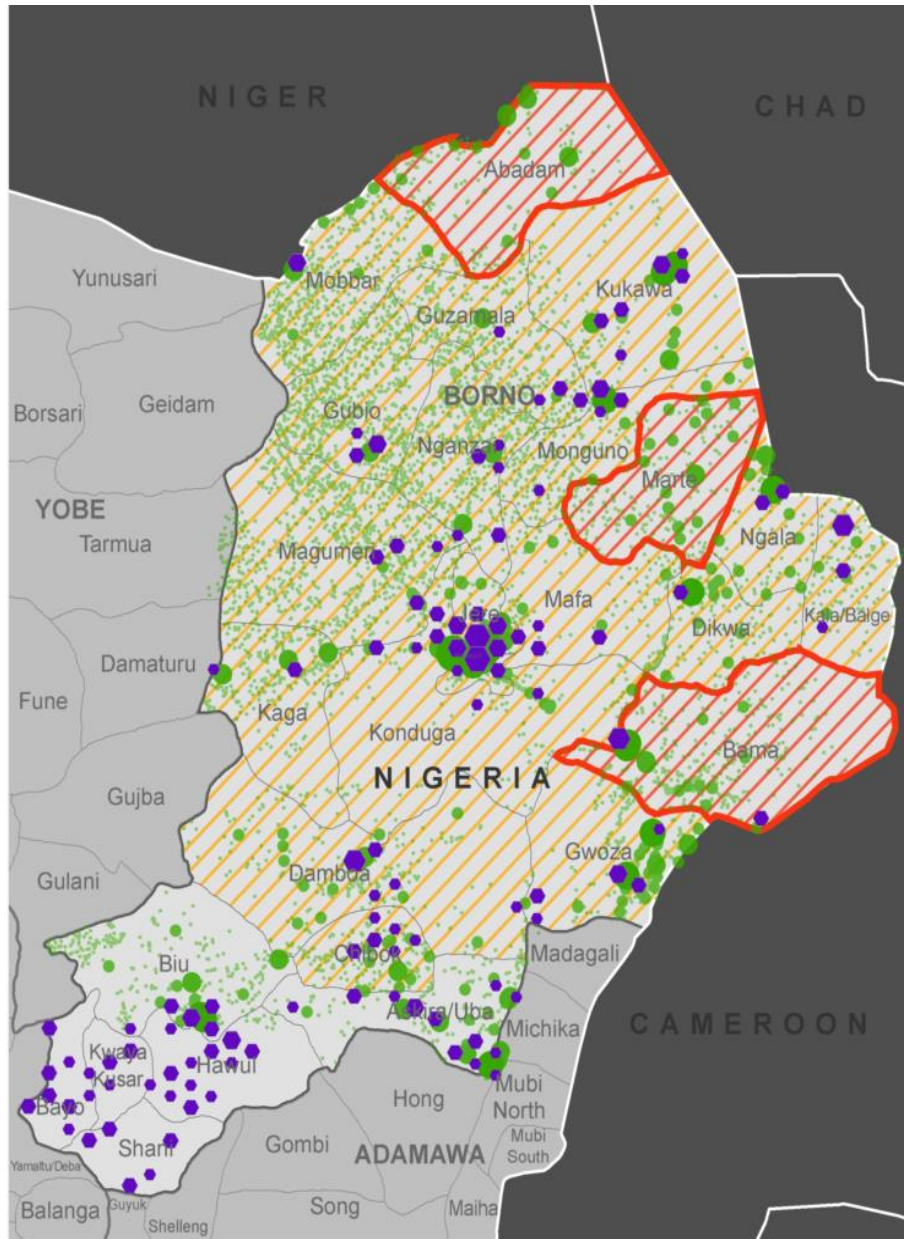
● 2016
● 2017

2016



PROVINCE	CASES
PAK	20
BALUCHISTAN	2
FATAH	2
KAPISHANWA	8
SINDH	8
AFG	13
HILMAND	1
KUNAR	4
PAKTIKA	7
KANDAHAR	1

- Situation improved; decreased cases & +ve Environ. Samples
- Stronger Emergency Operation Centers (EOCs)
- Strong coordination between the two national programs
- TAG endorsed National Emergency Action Plans (NEAP 2016-2017) operationalized and kicked off (Sep. SIAs implemented both in Pak & Afghanistan)
- **Concerns:**
 - Deteriorating access in north-east Afghanistan (Kunduz)
 - Outbreak in south KP / FATA – southeast Afg. Block
 - Weaknesses in surveillance at district level in Pakistan
 - Remaining quality problems in Northern Sindh and Karachi

Borno State : AFP cases, Population and Accessibility



Accessibility






-  Inaccessible areas
-  Partially accessible areas

NPAFP cases 2017

-  1
-  2 - 5
-  6 - 10
-  11 - 20
-  21 - 35

Cases aggregated to a 10km hexagonal grid in order to show quantity and location

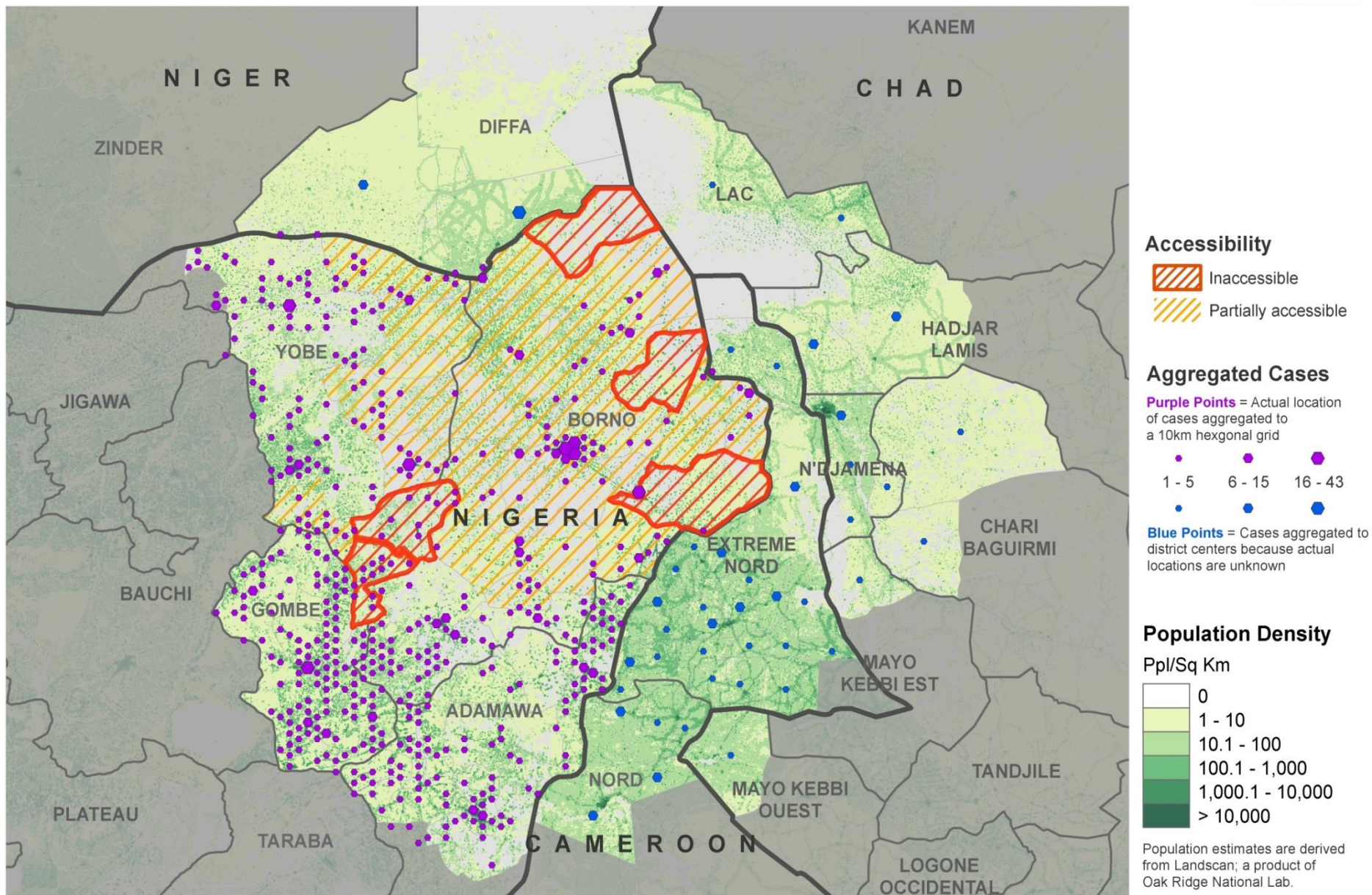
Population Estimates

-  51 - 2500
-  2501 - 10000
-  10001 - 25000
-  25001 - 75000
-  75001 - 134273

Population estimates derived from settlement level analysis using satellite imagery

State	LGA	NPAFP count
Borno	Abadam	0
Borno	Askira/ Uba	31
Borno	Bama	23
Borno	Bayo	18
Borno	Biu	15
Borno	Chibok	9
Borno	Damboa	19
Borno	Dikwa	5
Borno	Gubio	9
Borno	Guzamala	6
Borno	Gwoza	19
Borno	Hawul	22
Borno	Jere	51
Borno	KAGA	4
Borno	Kala/ Balge	17
Borno	Konduga	22
Borno	Kukawa	19
Borno	Kwaya Kusar	11
Borno	Mafa	12
Borno	Magumeri	9
Borno	Maiduguri	34
Borno	Marte	0
Borno	Mobbar	10
Borno	Monguno	13
Borno	Ngala	5
Borno	Nganzai	7
Borno	Shani	9
Total NPAFP cases		399

Lake Chad : AFP cases, Population and Accessibility



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Type 2 Events Post Switch

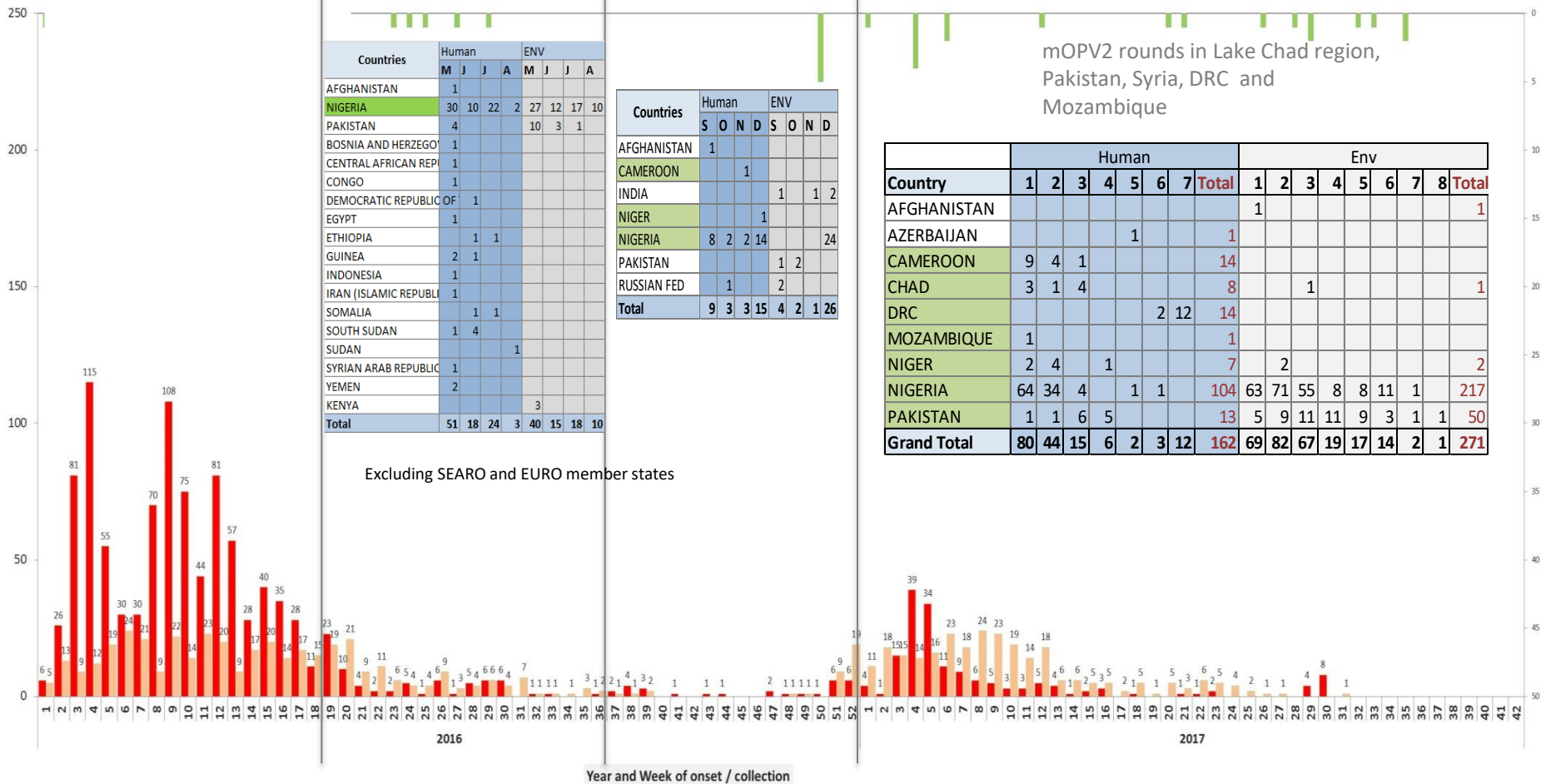
Distribution of SL2 from AFP and ENV

Pre switch period

Early Post switch period
May – Aug 2016

Post switch period
Sep – Dec 2016

Post switch period
2017

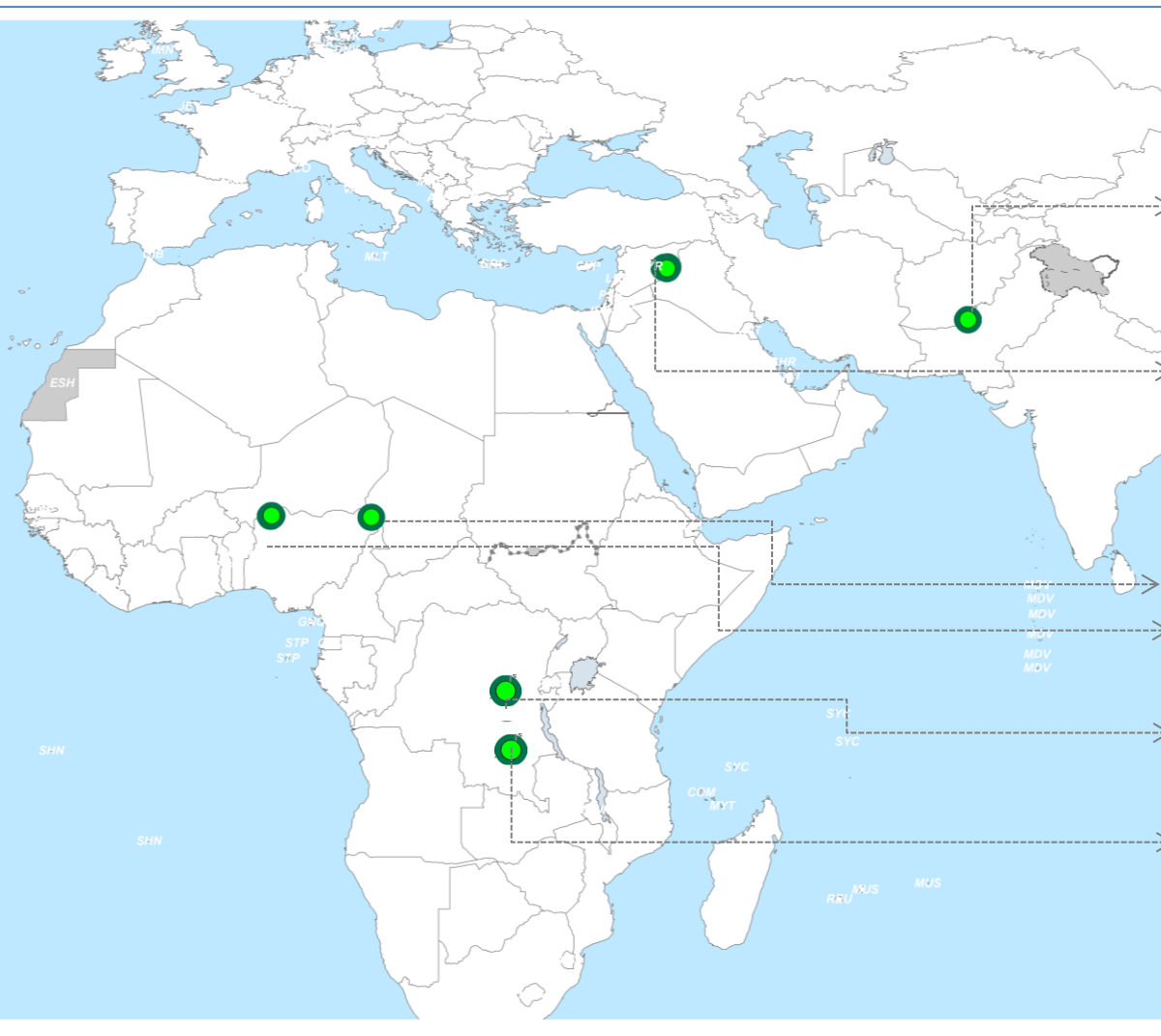


■ ENV
■ AFP / Contact
■ Type 2 containing SIAs

*Afghanistan SL2 is linked to mOPV2 use in Balochistan, Pakistan



Post switch* cVDPV2 outbreaks



Total of 6 post-switch cVDPV type2 outbreaks in 4 countries

Province	District	Surv. type	Date (collection /onset)	NT change
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Pakistan (1)

Balochistan	QUETTA	AFP	17-Dec-2016	14
Balochistan	QUETTA	ENV	20-Dec-2016	18
Balochistan	QUETTA	ENV	20-Oct-2016	9
Balochistan	QUETTA	ENV	28-Dec-2016	15
Balochistan	QUETTA	ENV	28-Nov-2016	15

Syria (1)

40 positives from AFP – onset from 3 March (38 in Deir_Al_Zour, 1 in Raqua, 1 in Homs governorates)				
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Nigeria (2)


BORNO	MONGUNO	Contact	26-Aug-2016	37
SOKOTO	BODINGA	Contact	24-Nov-2016	17
SOKOTO	BODINGA	AFP	28-Oct-2016	12

DRC (2)

MANIEMA	KINDU	Contact	02-May-2017	9
MANIEMA	KUNDA	AFP	18-Apr-2017	7
MANIEMA	KINDU	AFP	26-Mar-2017	7
HAUT LOMAMI	MUKANGA	AFP	05 Jun 2017	19
HAUT LOMAMI	BUTUMBA	AFP	07 Apr 2017	15
HAUT LOMAMI	BUTUMBA	AFP	08 Mar 2017	16
HAUT LOMAMI	MUKANGA	AFP	13 Jun 2017	14
HAUT LOMAMI	MALEMBA-NKULU	AFP	20 Feb 2017	15
HAUT LOMAMI	MUKANGA	AFP	20 Jun 2017	18

*Switch date: 01 May 2016

 cVDPV2 outbreak (total 6 outbreaks)

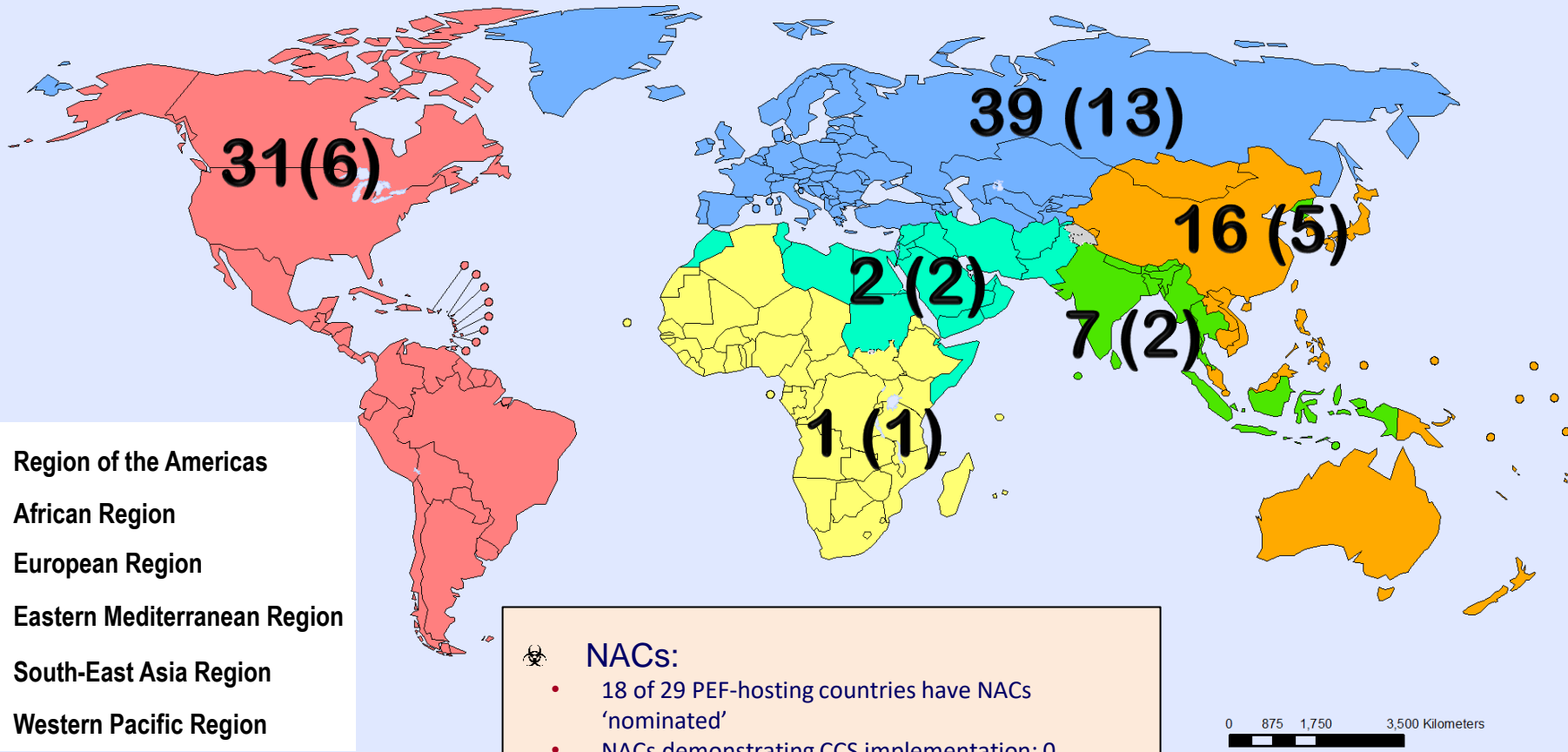
 Post-switch SIA containing mOPV2 vaccine was conducted or is planned.

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29 countries plan to retain PV2* in 96 designated poliovirus-essential facilities (PEFs)



- Region of the Americas
- African Region
- European Region
- Eastern Mediterranean Region
- South-East Asia Region
- Western Pacific Region

⚠️ NACs:

- 18 of 29 PEF-hosting countries have NACs 'nominated'
- NACs demonstrating CCS implementation: 0

⚠️ PEFs:

- Applications submitted to GCC: 0
- CPs delivered: 0
- ICCs/CCs delivered: 0

0 875 1,750 3,500 Kilometers



*includes WPV2/cVDPV2 and OPV2/Sabin2 materials

Status as of 30 August 2017 (subject to change)

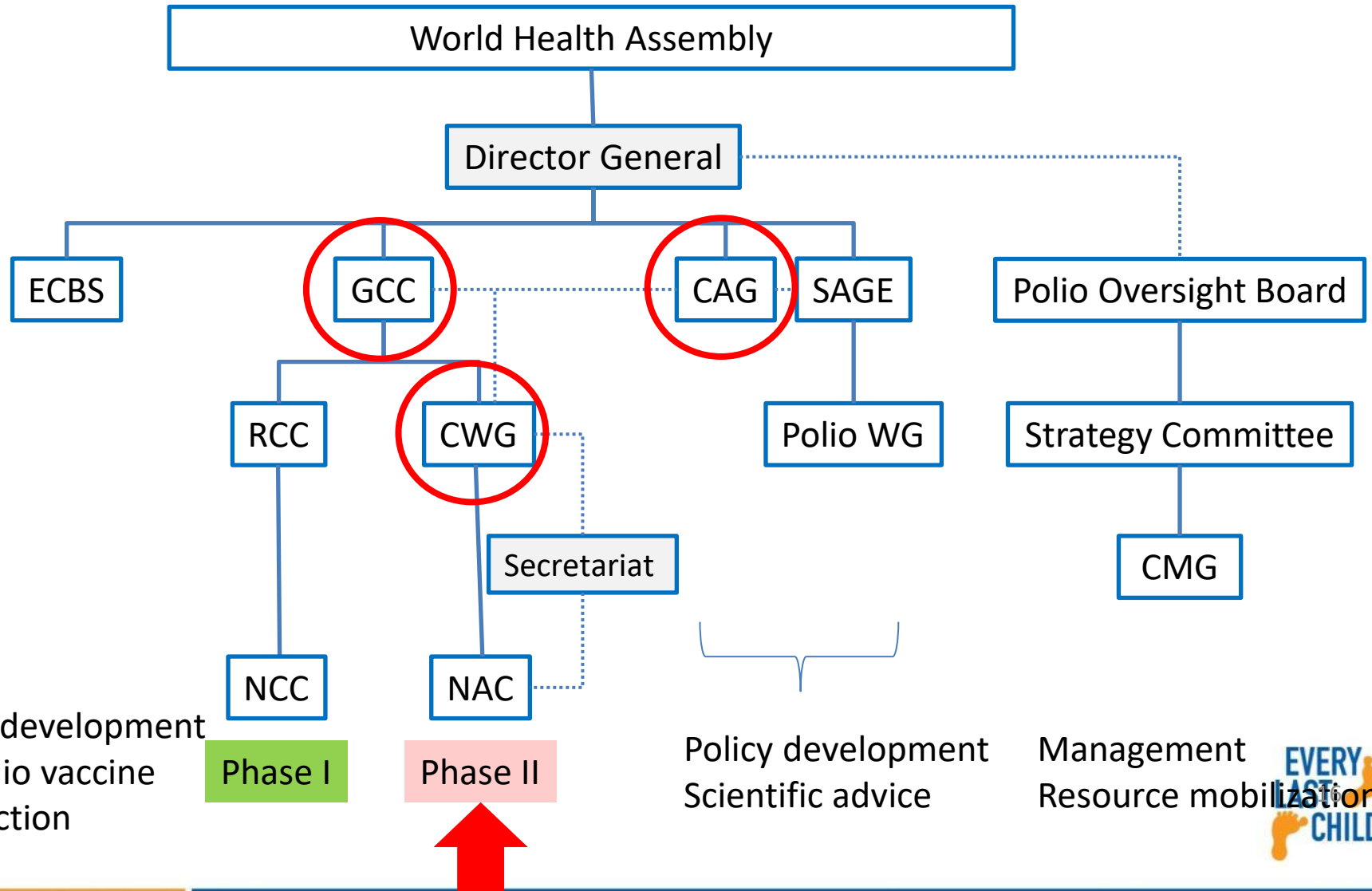
Containment reference documents



- **Global Action Plan (GAPIII)**
 - ☣ World Health Assembly 2015
- **GAPIII Containment Certification Scheme (GAPIII-CCS)**
 - ☣ SAGE 2016
 - ☣ Supersedes Annex 4 of GAPIII: WHO will no longer verify containment
 - ☣ PEFs are certified by NACs in consultation with GCC
 1. Certificate of participation CP
 2. Interim certificate of containment ICC
 3. Certificate of containment CC
- **TRS 926: Safe production of polio vaccines**
 - ☣ Revision ongoing



Containment oversight structure



Expected next steps in countries hosting designated PEFs

Once the country designates a PEF:

1. Establish a NAC
2. Develop GAPIII auditing capacity
3. Demonstrate that secondary and tertiary safeguards are met
4. Assess PEFs against compliance with GAPIII (primary safeguards)
5. Certify facilities in consultation with GCC
6. Repeat certification process on 3-year basis



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Transition: High-Level Attention

- **Serious programmatic impact of GPEI ramp-down**
 - Two goals:
 1. Maintain the essential functions critical to sustain a polio free world post-certification
 2. Ensure other health programs currently relying on GPEI infrastructure and resources can continue their operations
- **Many Streams of work**
 - Country level transition planning
 - Agency transition planning at each GPEI partner
 - Independent Monitoring and High Level awareness raising (TIMB)
 - Post-Certification Strategy Development
- **WHO: Polio Transition is among 7 principal organizational Risks**
 - Team established within DGO to coordinate organization wide efforts
 - WHA decision requesting strategic plan agreed to at WHA2017



Priorities - Next 6 months

1. Interrupting WPV and cVDPV2 Transmission

- Pakistan, Afghanistan, Nigeria (Lake Chad), DRC, Syria

2. High quality surveillance

- Priorities are endemics and access compromised areas e.g.: CAR, Syria, Somalia, South Sudan, Iraq, Yemen ...

3. Financial management

- Successful pledging moment in 2017
- US\$81 million still to be raised to reach \$7bn target
- GPEI will continue to be active through 2020, target date for polio eradication certification

4. Also...

- Accelerate efforts for containment
- Engage broader constituency in Transition



Thank you

