

#### **Programme Update**

Transition Independent Monitoring Board London, 2 November 2017

On Behalf of GPEI - Michel Zaffran, Director Polio Eradication, WHO













# Polio Eradication and Endgame Strategy

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





# Wild Poliovirus & cVDPV Cases<sup>1</sup> Past 6 months<sup>2</sup>

# **Public Health Emergency of International Concern**

declared under the International Health Regulations in May 2014 Last reiterated on 3 August 2017



		ver of	WPV1 cases	Number of WPV intected districts		6 months
-vuntry	recent WPV1 case	Current <sup>2</sup>	Same period last year <sup>3</sup>	Current <sup>2</sup>	Same period last year <sup>3</sup>	Number of cases
Nigeria	NA	0	4	0	3	0
DRC	NA	0	0	0	0	5
AFR		0	4	0	3	5
Pakistan	21-Aug-17	3	4	3	3	0
Afghanistan	02-Oct-17	4	4	3	2	0
Syria	NA	0	0	0	0	47
EMR	02-Oct-17	7	8	6	5	47
Global	02-Oct-17	7	12	6	8	52

<sup>2</sup>Current rolling 6 months: 01 May 2017 – 31 October 2017

<sup>3</sup>Same period previous year: data reported from 01 May 2016

Wild poliovirus type 1
 cVDPV type 2

Endemic country

<sup>&</sup>lt;sup>1</sup>Excludes viruses detected from environmental surveillance

<sup>&</sup>lt;sup>2</sup>Onset of paralysis 01 May - 31 October 2017

# Pakistan/Afghanistan epidemiological block

- Lowest number of cases ever (13 in 2017 vs 24 in 2016 same period)
- Strong surveillance including in security compromised areas

**However**: continued transmission and detection in Pakistan sewage

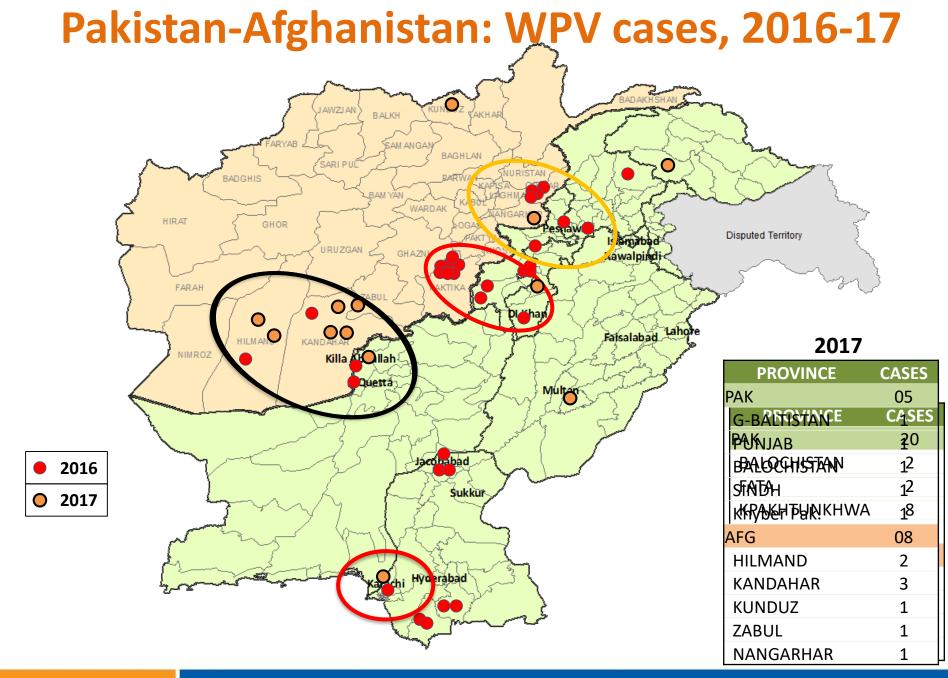
#### **Key risks:**

- Deteriorating access in South Region of Afghanistan with pockets of children consistently not vaccinated
- Fatigue and quality of SIAs in Pakistan

#### **Key Strategies**

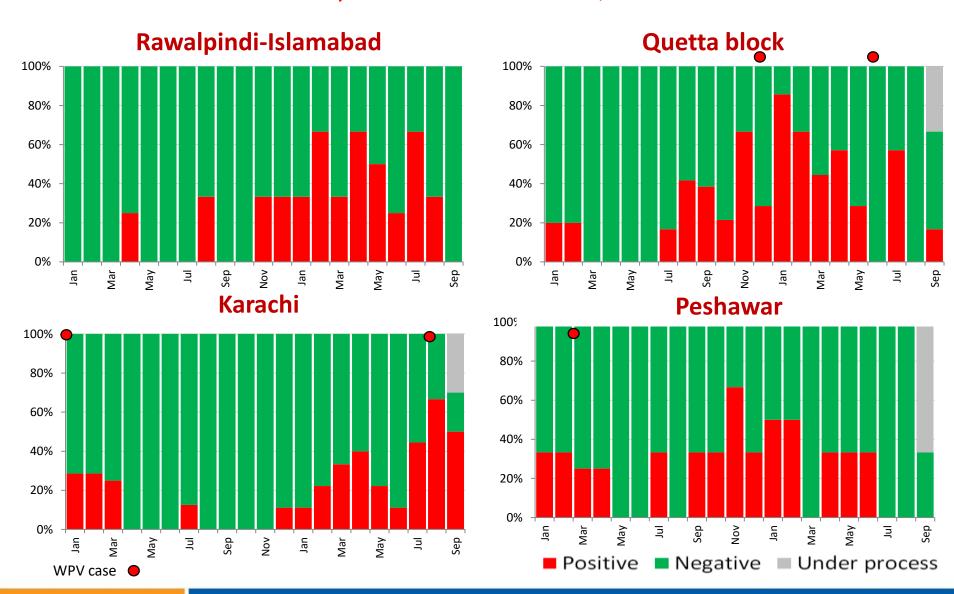
- Focus on the core reservoirs of Quetta, Karachi
- Maintaining Programme Neutrality in Afghanistan
- Accessing all children, including in security compromised areas
- Focus on the Very high risk Districts and High Risk highly mobile population
- Further improving quality of micro plans and SIAs



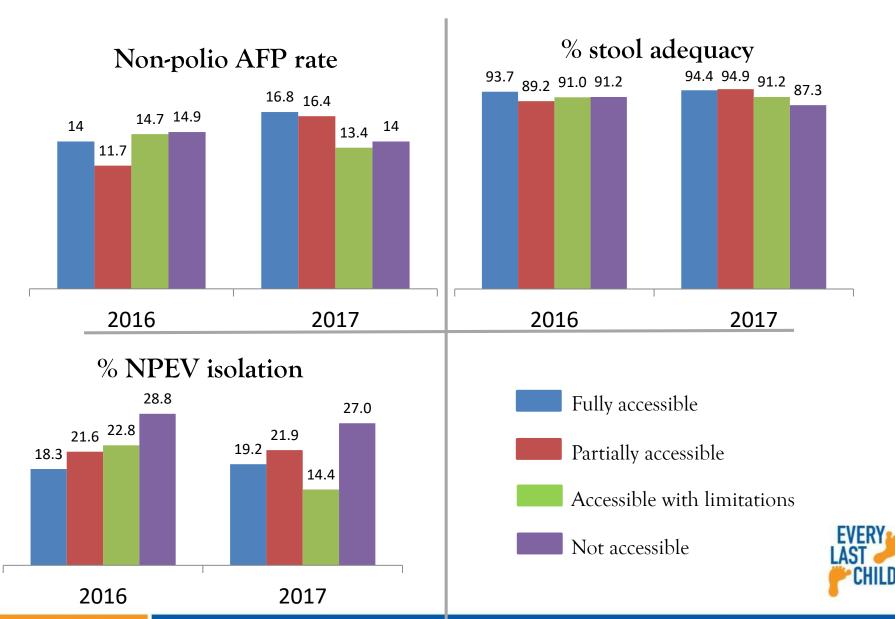


# Pakistan Environmental sampling

Primary concern: Quetta block, Karachi



## Surveillance in access compromised areas



# **Lake Chad Basin**

- No virus detection since 27 September 2016 in Borno
- Improved access and surveillance with innovative strategies

**However**: 30-40% of settlements and up to 162,000-230,000 children in Borno remain inaccessible to vaccination

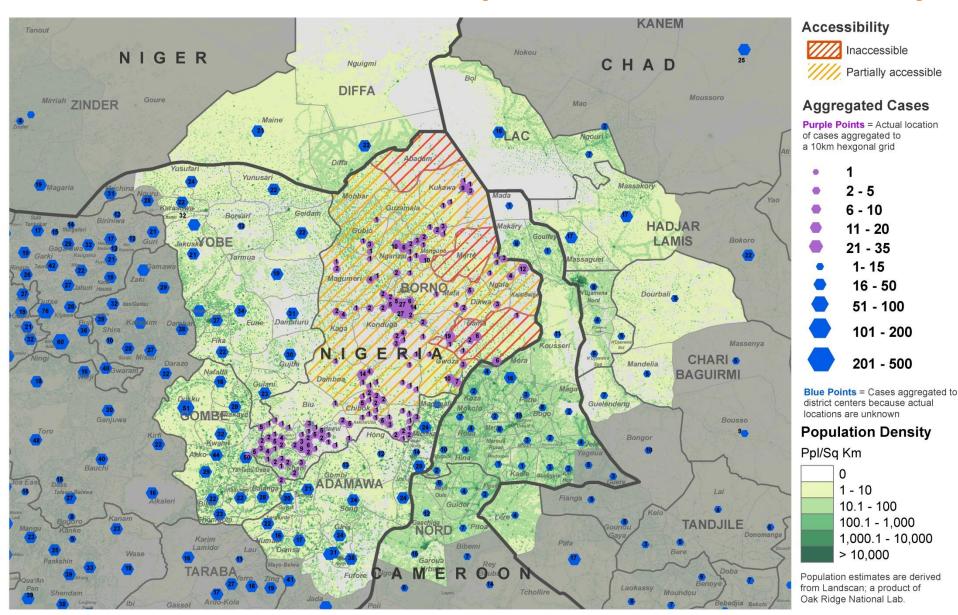
Access to vaccination and surveillance needed to confirm interruption of transmission

#### **Key strategies**

- Strategies to reach every settlement in collaboration with military
- Innovations to identify inhabited settlements
- Innovative surveillance strategies (healthy children testing, environment surveillance sweep, use of GIS technology to track reach of team
- Intensified cross border collaboration
- Focus on Islands of Lake Chad



## Lake Chad: AFP cases, Population and Accessibility



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# **IPV** introduction

- 35 countries affected by global shortage
- Supply situation improving: affected countries to be supplied by end of Q1 2018
- Catch up of missed cohort with fIPV now or in 2019 with full dose
- GAVI Board will discuss supporting IPV from 2021

#### **Key risks**

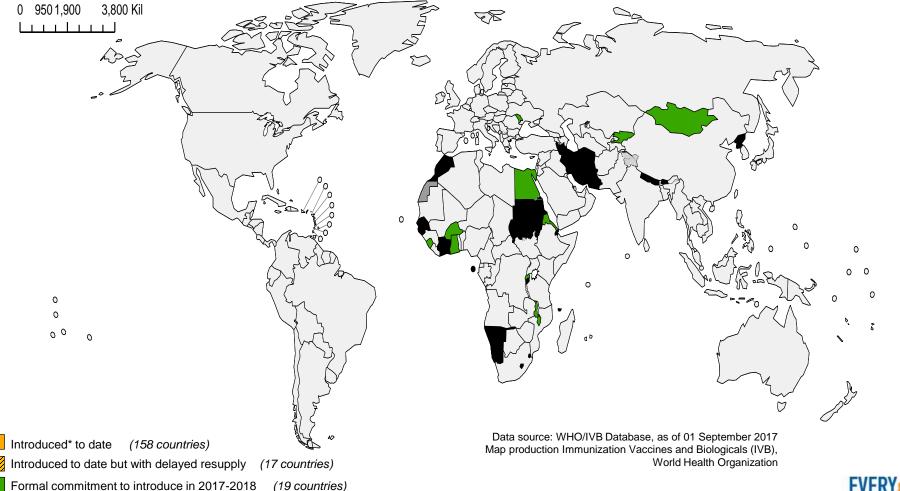
Further production deterioration

#### **Key strategies**

- Allocation of IPV to highest risk countries
- fIPV adopted by India, Sri Lanka, Nepal, Bangladesh and several PAHO countries
- Future pipeline with new manufacturers



# Countries using IPV vaccine to date, formal decision to introduce and supply disruptions

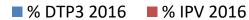


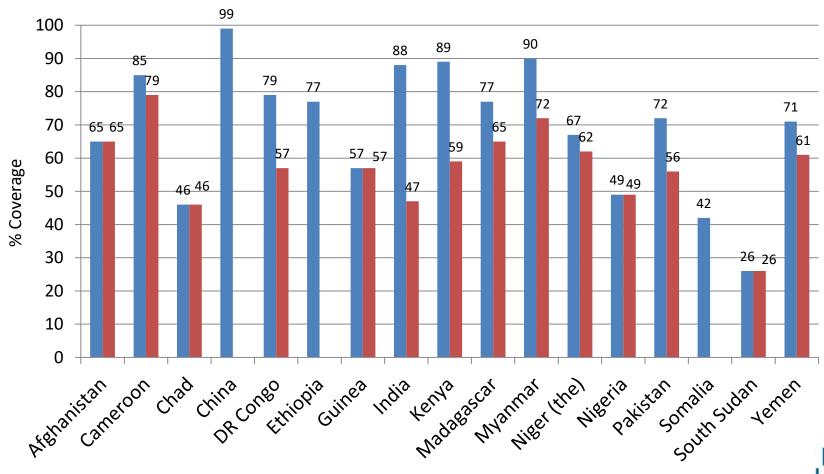


Not available

Not applicable

# WHO/UNICEF estimates of immunization coverage Tier 1 IPV and DTP3, 2016





Source: WHO and UNICEF estimates of immunization coverage: 2016 revision

# **Type 2 Events Post Switch**

- 6 Type 2 outbreaks since May 2016
- Aggressive responses with mOPV2
- Syria and DRC ongoing outbreaks with ongoing responses (mOPV2 & IPV)

#### **Key risks**

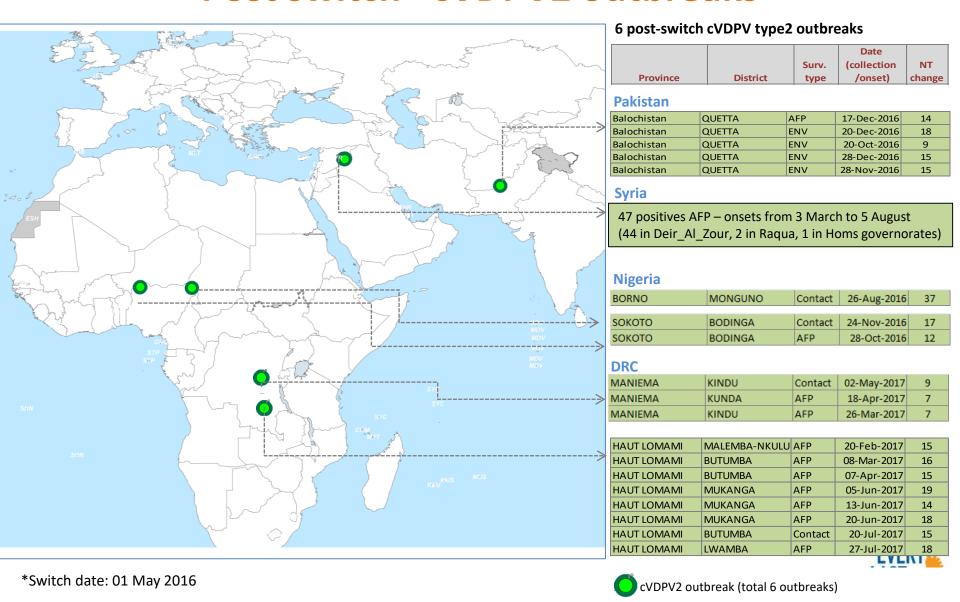
- Access issues (DRC and Syria) hamper quality of response
- Low routine immunization coverage and VDPVs

#### **Key strategies**

- Intensified surveillance in access compromised areas
- Immediate and effective response with mOPV2 and IPV
- Advocacy for RI strengthening



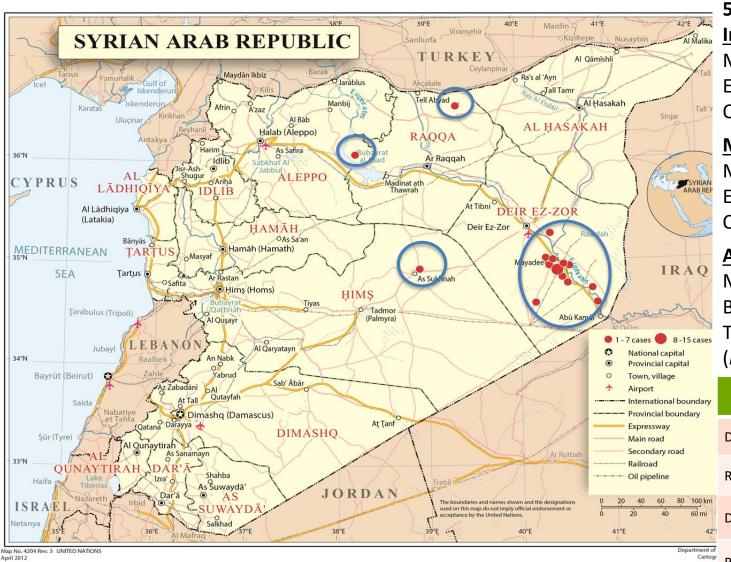
### Post switch\* cVDPV2 outbreaks



15

mOPV2 SIA conducted or planned.

## Syria: cVDPV2 outbreak



**53** VDPV2 cases **Index case** 

Mayadeen district, Deir Ez-Zor governorate
Onset: 3 March 2017

#### Most recent case

Mayadeen district, Deir Ez-Zor governorate Onset: 25 August 2017,

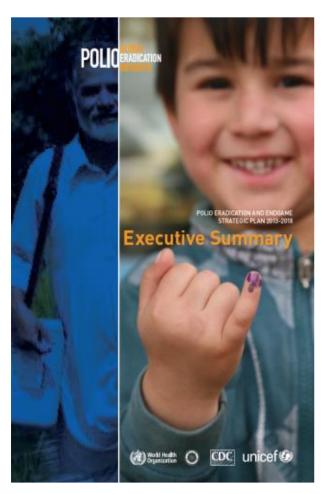
#### **Affected districts**

Mayadeen, Deir Ez-Zor, Boukamal (*Deir Ez-Zor*) Tell Abyad, Thawra (*Ragga*), Tadmour (*Homs*)

Rounds	Dates	Antigen
Deir Ez-Zor 1	22–26 Jul	mOPV2
Raqqa 1	12–18 Aug	mOPV2
Deir Ez-Zor 2	22–26 Aug	mOPV2 + IPV
Raqqa 2	7–13 Oct	mOPV2 + IPV

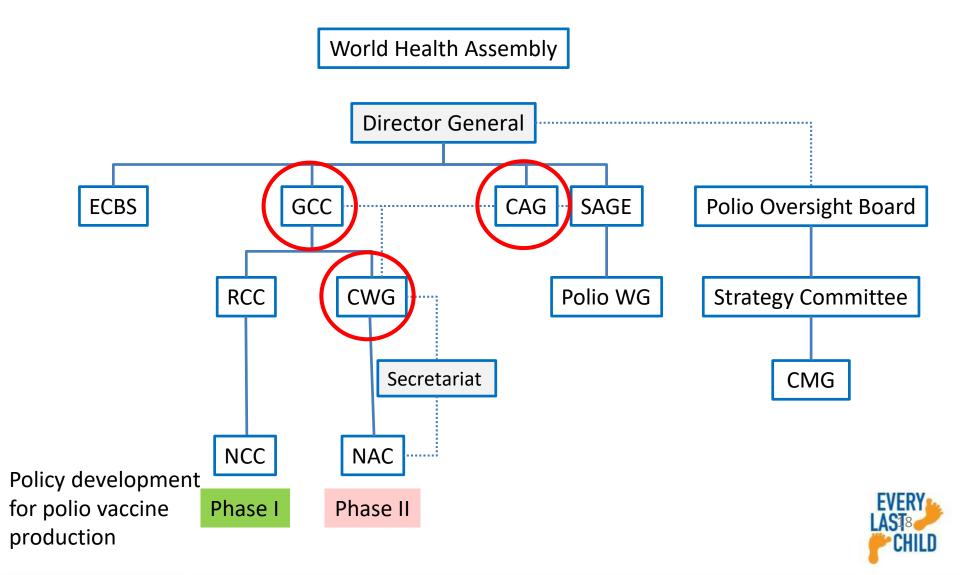
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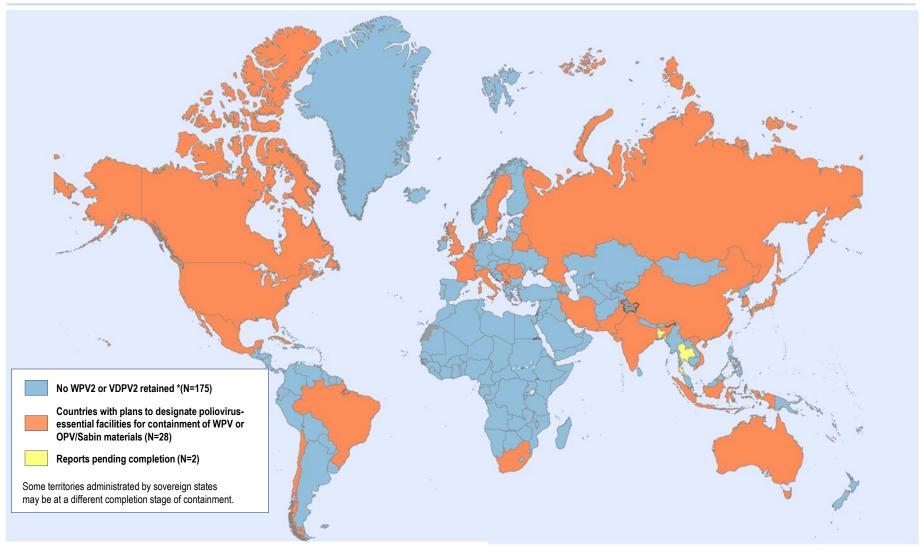




## **Certification and Containment oversight**



### 28 countries plan to retain poliovirus materials\* in 91 designated PEFs



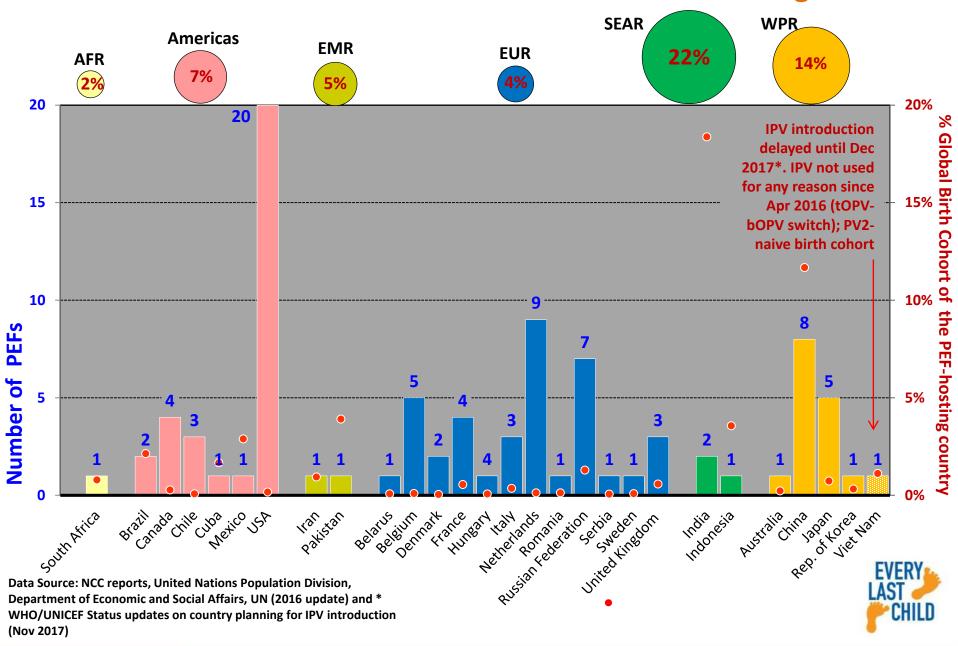
Includes WPV/cVDPV and OPV2/Sabin
Data reported by WHO Regional Offices as of 21 October 2017
and subject to change

\*for the Americas, this includes WPV - and cVDPV types 1 to 3

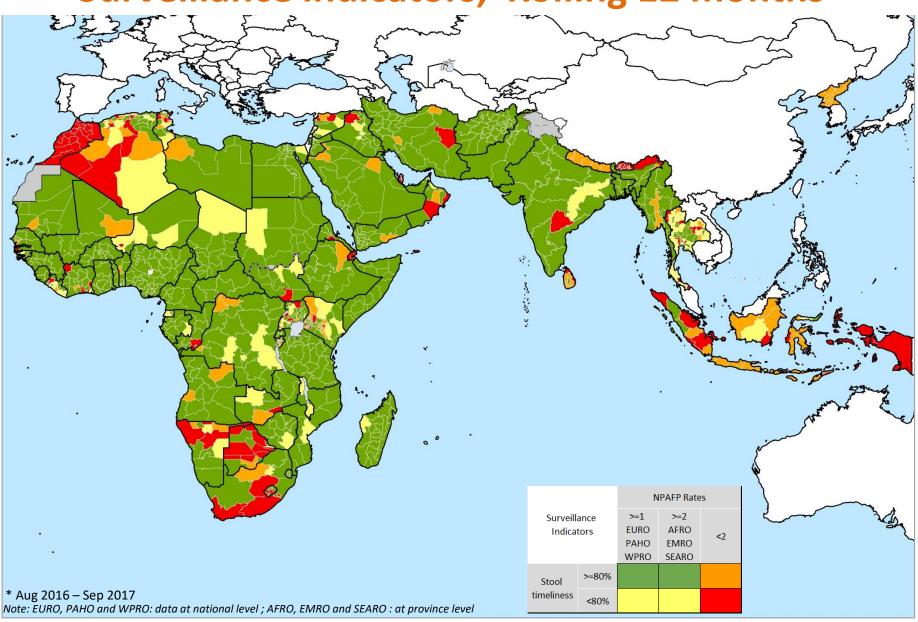
NACs: : 18 of 28 PEF-hosting countries have NACs 'nominated'



#### 54% of the Global Birth Cohort are in Countries Hosting PEFs



## **Surveillance indicators, Rolling 12 months\***



# POLIC GLOBAL ERADICATION INITIATIVE

## **Polio Eradication and Endgame Strategy**



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#### **Objectives:**

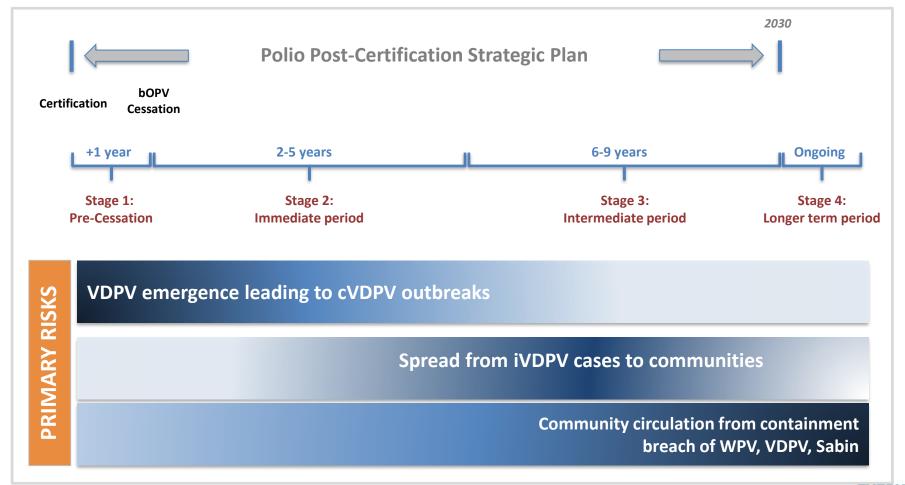
- Mainstream polio-essential functions to sustain global eradication
- Support country transition planning
- Capture lessons learned







## What are the poliovirus risks after certification?







### **Post-Certification Strategy 2021-2030: Goals**

**Purpose**: Sustain a polio-free world

Goal 1: Contain Poliovirus Sources

 Ensure potential sources of poliovirus are properly controlled or removed

**Goal 2: Protect Populations** 

 Withdraw the oral live attenuated polio vaccine (OPV) from use and immunize populations with inactivated polio vaccine (IPV) against possible re-emergence of any poliovirus

Goal 3: Detect and Respond

Promptly detect any poliovirus reintroduction and rapidly respond to prevent transmission

#### **Enabling and Cross-Cutting Areas**

- Essential functions should be embedded into existing institutions and programmes
- Governance and management, monitoring framework, financial model should be developed with these institutions in the lead



## **Priorities - Next 6 months**

### 1. Interrupting WPV and cVDPV Transmission

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

## 2. High Quality surveillance

Endemics and access compromised areas e.g.:
 Syria, Somalia, South Sudan, Iraq, Yemen ...

### 3. Financial management

Plan budget to extend through 2020

#### 4. But also...

- Accelerate efforts for containment
- Engage broader constituency in Transition
- Engage non-polio programmes in Post Certification strategy implementation







# Thank you



