



Polio Update + current priorities

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"Do not speak –
unless it improves on silence."



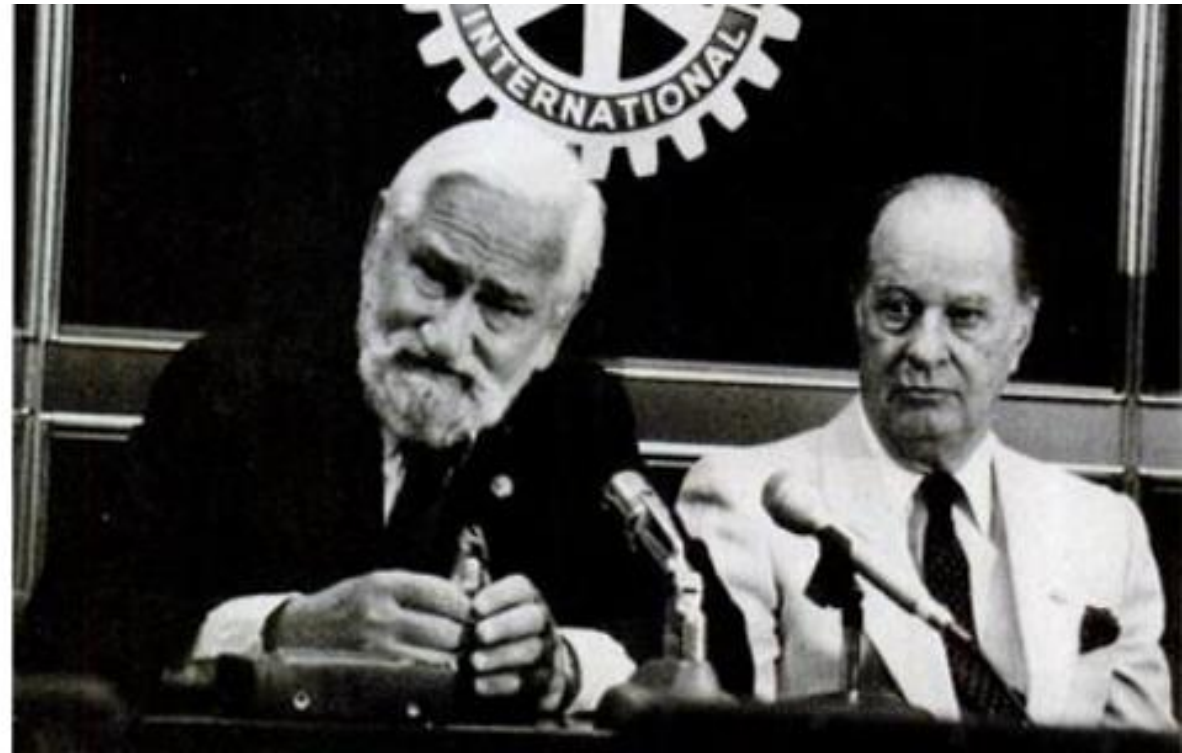
Thirty Years On...



Dr Albert Sabin

RI President
Carlos Canesco

Target
polio
2005



A very popular FAQ: “major outbreak in Australia?”

Could an outbreak
on the scale seen
in the mid-20th
century happen
here again?



... “major outbreak in Australia?”

No 😁
91% of children in
Aus are
vaccinated
‘herd immunity’
requires **86%**.

Ranked 48 out of 55 high-income countries
(116 out of 198 countries overall)

(measles = 93%; Aus = 94%, USA = 91%)



... “major outbreak in Australia?”

What about
individuals?

Hmmm 🙄

unvaccinated
Australian children
(*and adults!*) remain
vulnerable.



However...

Immunisation rates at age 5
are **low** in some areas.



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Locality

Castaways Beach, Noosa Heads (Qld)

East Killara and Killara

Kurraba Point, Neutral Bay and Neutral Bay Junction

South Yarra (Vic)

Kalamunda, Lesmurdie, Walliston (WA) and eight others

Strathfield (NSW)

Ashfield (NSW)

Waterloo and Zetland (NSW)

Athelstone and Castambul (SA)

Ferndale, Riverton, Shelley (WA) and one other

Centennial Park, Moore Park and Paddington (NSW)

Casuarina, Jingili, Wanguri (NT) and 13 others

Beaumont, Burnside, Erindale (SA) and four others

Harris Park and Parramatta (NSW)

Annandale (NSW)

Cedar Creek, Murwillumbah (NSW) and 55 others

Manly and Manly East

Haymarket, Sydney, The Rocks (NSW) and five others

Brunswick Heads, Ocean Shores (NSW) and 12 others

Broken Head, Byron Bay (NSW) and seven others

Desirable: 90%+
Herd immunity: 86%

District

**% fully
immunised**

Sunshine Coast (Qld)

83.1%

Northern Sydney

83.0%

Sydney North Shore & Beaches

83.0%

Bayside (Vic)

82.9%

Perth Central & East Metro

82.8%

Inner West Sydney

82.6%

Inner West Sydney

82.5%

Inner West Sydney

82.4%

Central Adelaide & Hills

82.1%

Bentley-Armadale (WA)

81.9%

Eastern Sydney

81.8%

Northern Territory

81.7%

Central Adelaide & Hills

81.7%

Western Sydney

81.2%

Inner West Sydney

81.1%

North Coast NSW

80.6%

Sydney North Shore & Beaches

80.4%

Eastern Sydney

72.1% -30

North Coast NSW

70.2%

North Coast NSW

66.7% -10

Polio Program Priorities

1. Now that SE Asia is polio-free 😊 ...
finish the job in ***Africa!***
2. raise immunity levels
in **vulnerable countries.**
3. *radically* improve
the polio program
in **Pakistan.**



Great news in Africa!

- ***Possibly... already*** seen the last case of wild polio in Africa(??)
 - August last year (Somalia)
 - ***Nigeria*** – ***none*** in last 8 months! (24/7)
- **However**
 - reliability of **reporting?** (note impact of Ebola).
 - polio coming into ‘high season’ (in May).
 - *circulating vaccine derived polio (cVDP)*
 - 32 cases in Africa in 2014 (29 in Nigeria), ***none*** in 2015!
 - extreme security risks from **Boko Haram**.
 - ‘**powder keg**’ status in many countries.

Africa Status:

**“now we must be
more vigilant
than ever,
as our progress
is fragile”**

Dr. Tunji Funsho, Rotary's
PolioPlus Chair for Nigeria.

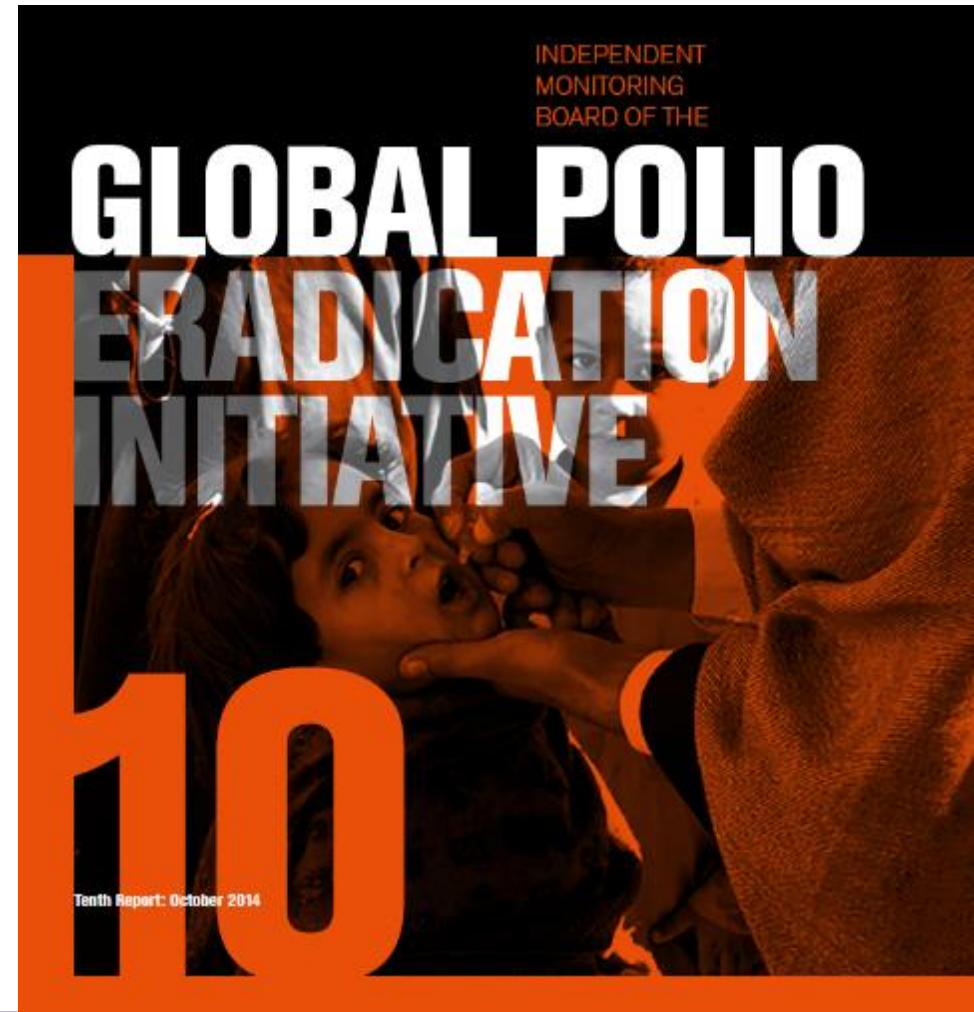


A high-angle photograph of a mountain valley in Pakistan. A paved road curves through the landscape, flanked by terraced green fields and small, simple houses. The valley is surrounded by steep, forested mountains under a cloudy sky. The word "Pakistan" is overlaid in large white text with a purple outline.

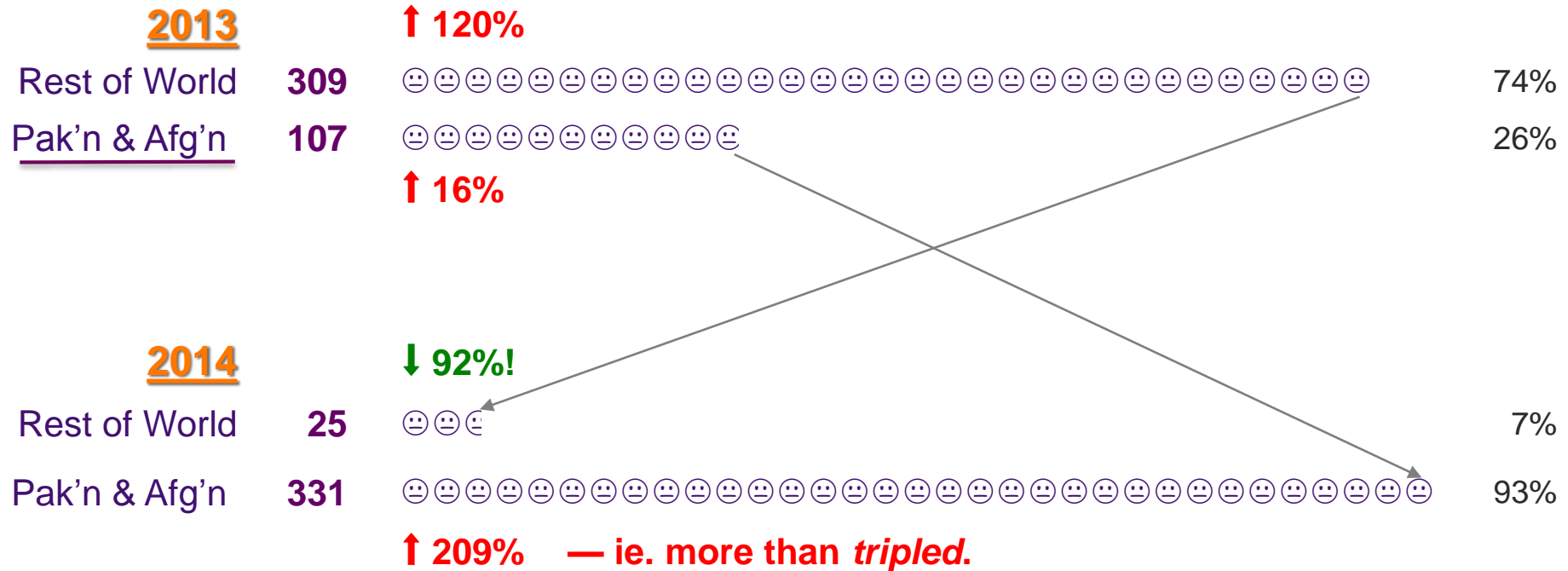
Pakistan

Assessment of *Independent Monitoring Board*, Oct 14.

- “Pakistan’s polio program is a **disaster**”.
- “...a **mystery** why Pakistan cannot do what Nigeria is doing”.
- “...puts **entire global goal** in jeopardy”.
- the only ‘**exporter**’.



The numbers



If Pakistan had matched trends elsewhere:

- worldwide cases in 2014 would have totalled **32**
- new cases of wild polio, worldwide, **would now have ceased.**

(All but one of the cases in Afghanistan in 2014 originated in Pakistan.)

What's going on in Pakistan?

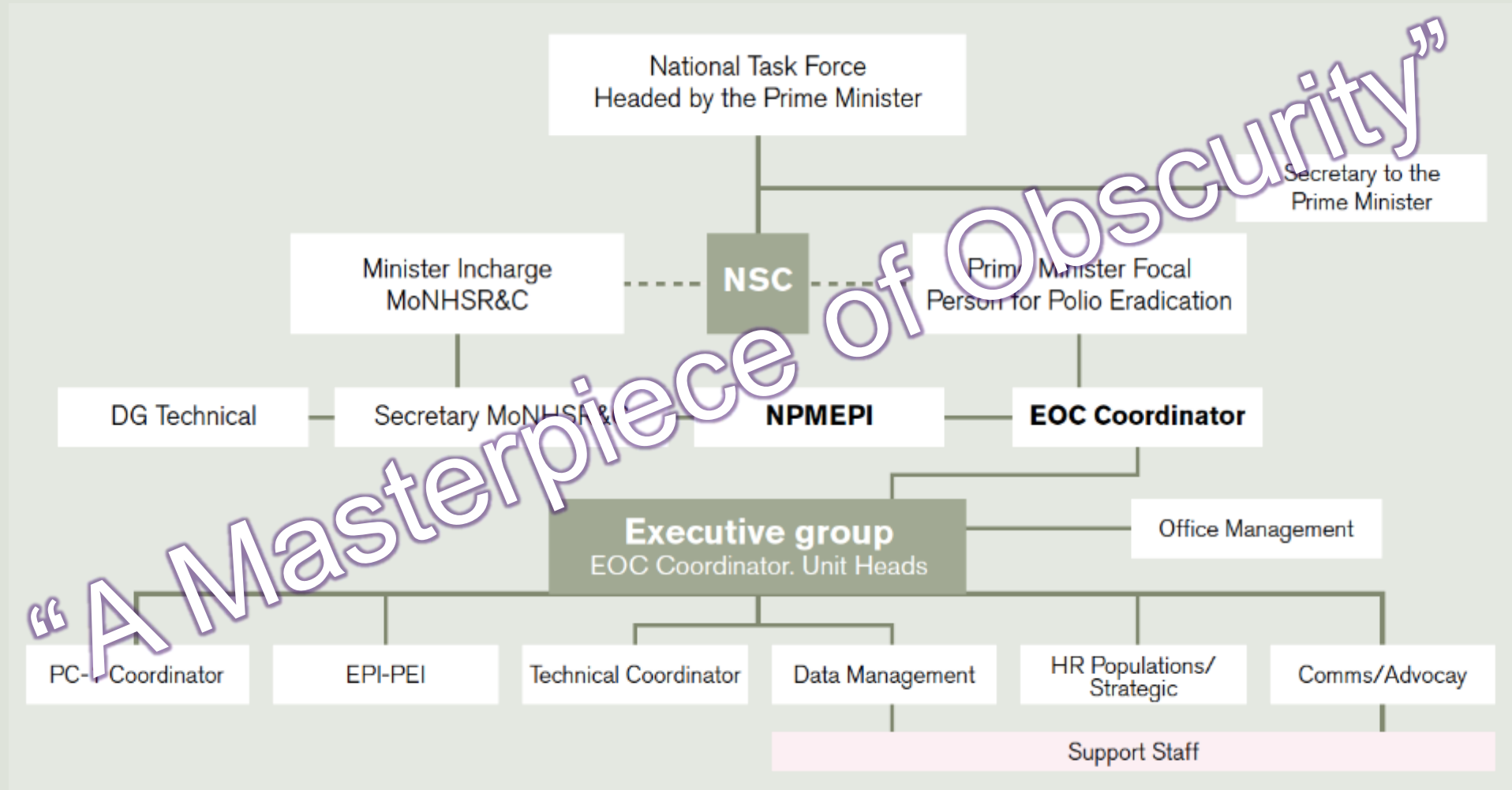
- **Opposition of Taliban and tribal leaders**
 - mainly northwest provinces
 - ‘western **plot**’ – ‘stop the drones’.
 - ‘**misunderstandings**’ (eg. ‘sterile’ bottles)
 - refusals / resistance to routine immunisation.
 - **assassinations** (mainly women & girls).
 - primitive **sanitation**.
- **Religious**
 - fear (assertion) that vaccine is **Haram**.
- **Accessibility**
 - rugged **terrain**.



... what's going on?

- **ALL** these issues have been successfully addressed in other countries.
 - religious leaders elsewhere have become **advocates**
 - *including* the Taliban in Afghanistan.
 - vaccine proven (by Pakistani Muslims) to be **Halal**
 - methods devised to reduce risk of assassinations
 - Pakistan is not the only country with mountains!
- These are issues
- **The problem** is the program's administration.

Emergency Operations Centre Org Chart.



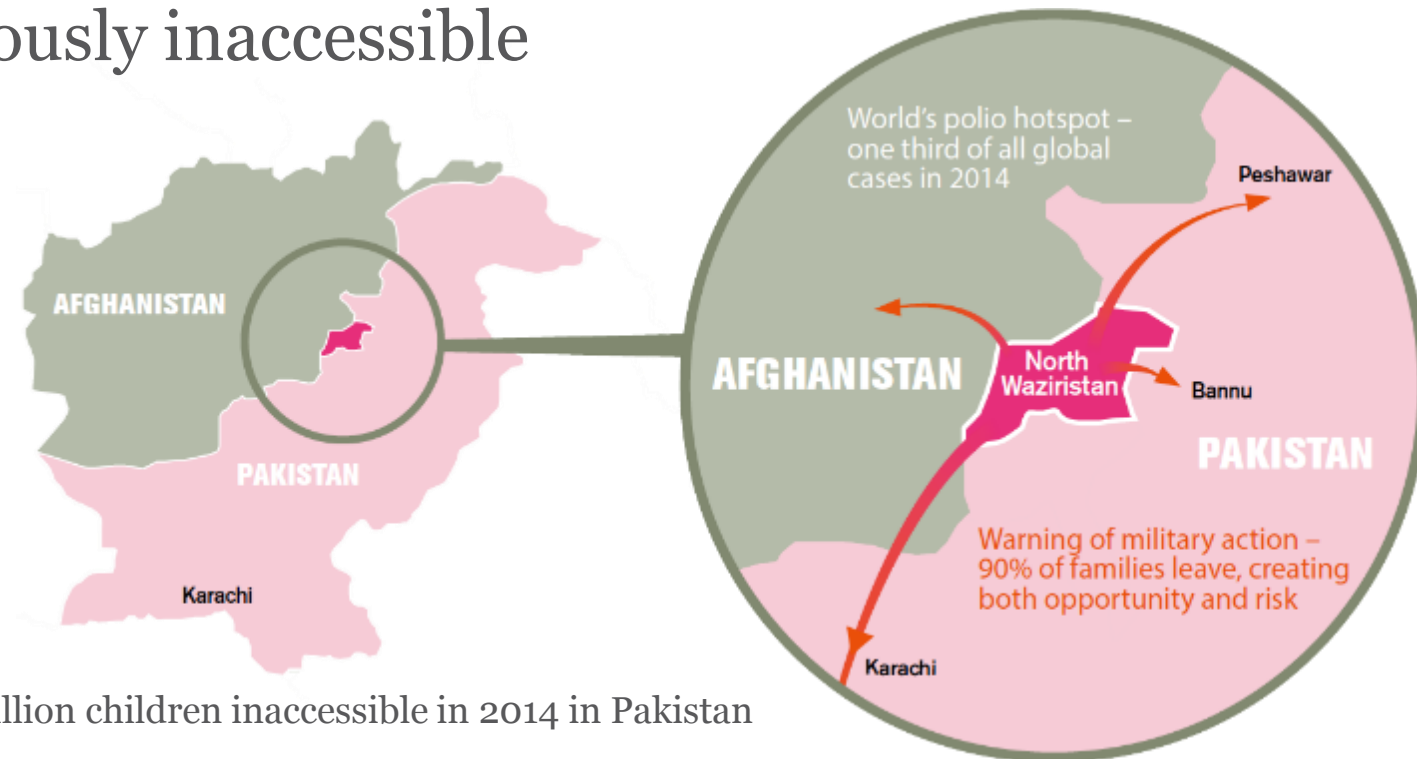
Administrative complexity

- **Six tiers of government (6!)**
 - high degrees of **local autonomy**
 - **FATA** (a problem area) officially ‘semi-autonomous’.
- **However:**
 1. administrative complexity ***not*** unique to Pakistan
 2. similar issues overcome elsewhere
 3. the pressure on Pakistan is now intense
 4. a question of **leadership**
 5. it **can** be done.

◇Federal ◇Province ◇Division ◇District ◇Tehsil/Mardan/Town ◇Union Council

And finally IT IS BEING DONE!

- June 2014
 - military operations in North Waziristan
 - mass exodus of civilians.
 - in-transit vaccinations (both directions).
 - 400,000* previously inaccessible kids vaccinated!



1.7 million children inaccessible in 2014 in Pakistan

... some recent huge successes

- **January 2015 — one-day campaign in Peshawar**
 - **booklets** about childhood diseases distributed
 - **4,000+ police** and security personnel deployed
 - **‘Section 144’** — carrying deadly weapons banned
 - **motor bike riding** completely banned for the day
 - **700,000** hard-to-reach kids vaccinated.



... some recent huge successes

- Further major campaigns
 - Early-March— >1 million kids in **Karachi**
(previously suspended for security reasons)
 - Mid-March — Rawalpindi ~800,000 kids
- Authorities send a message...
 - ~500 parents **arrested** for refusing vaccine in Peshawar



we *know* that it can be done

the final 0.05% is very expensive.

last case within a matter of months?

‘ThisClose’

Then? Find ways to stay focussed!

THE



hopefully
we improved on silence?

END

OF POLIO
IS IN SIGHT!