



CAV
Comité Asesor de Vacunas



El mundo de las vacunas desde la perspectiva de las agencias internacionales y de las ONGs

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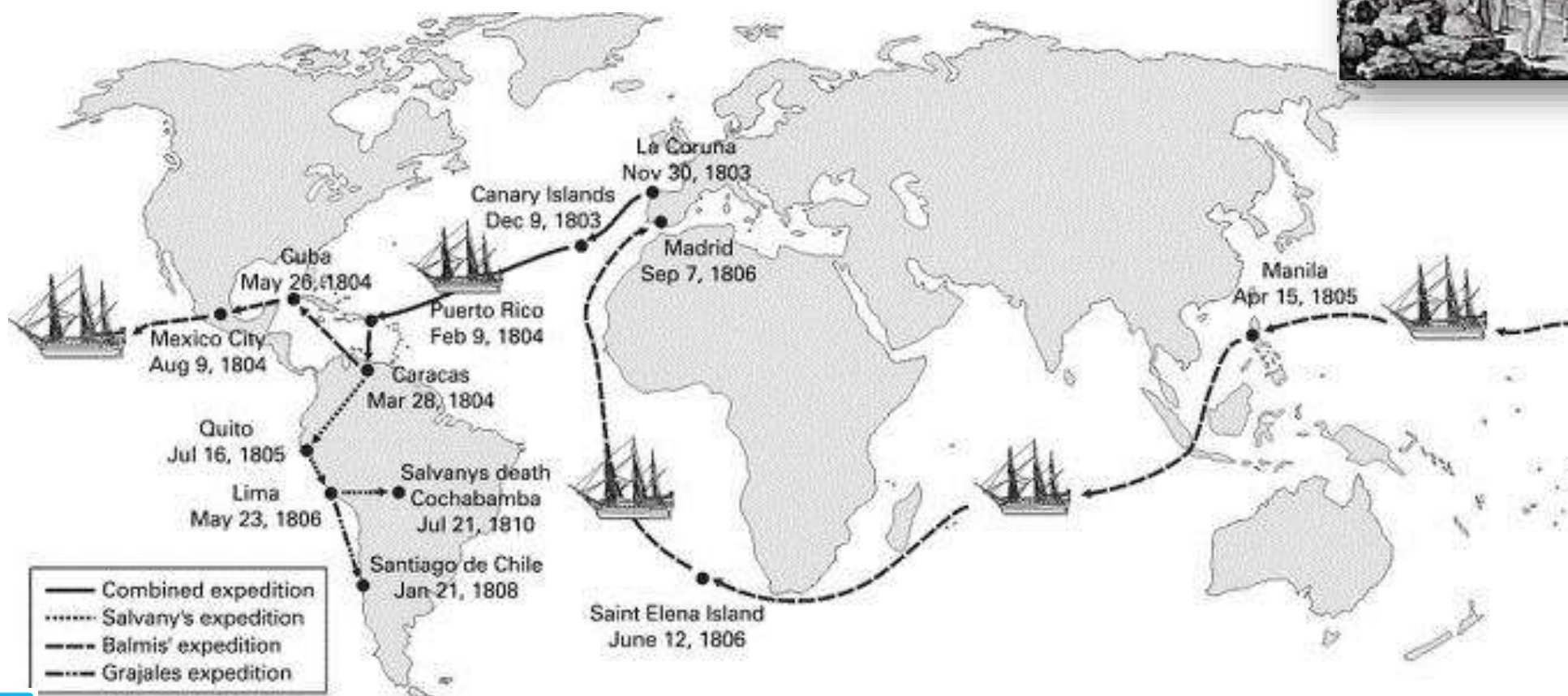
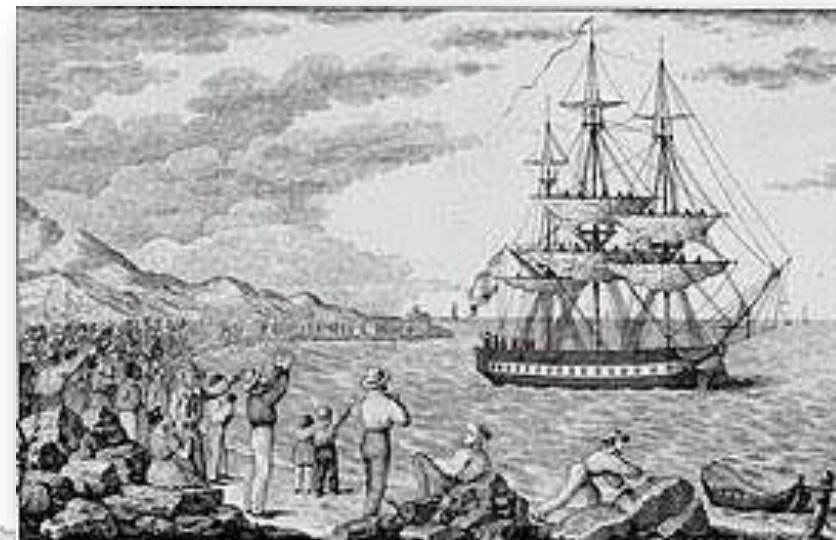
**POTENCIAL CONFLICTO DE INTERESES PARA
ESTA PRESENTACIÓN:**

- Ninguno

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Real Expedición Filantrópica de la Vacuna “Expedición Balmis”





World Health Organization

Proveer cobertura
universal de
inmunización para
1990



- Difteria
 - Tétanos
 - Tosferina
 - Sarampión
 - Polio
 - TBC
-
- Haemophilus influenzae
 - Hepatitis B
-
- VNC
 - Rotavirus

EXPANDED PROGRAMME ON IMMUNISATION (EPI)

- EPI launched in 1974
- Build on smallpox infrastructure
- Targeted 6 diseases
- EPI progressively adopted by all countries
Universal by early 1980s



World Health Organization

Apenas el **5%** de la población tenía acceso a la vacunación universal



Objetivos del Milenio

Los **ocho** Objetivos de Desarrollo del Milenio en el decenio de **1990**:

Representan compromisos para reducir la **pobreza** y el **hambre** y ocuparse de la mala **salud**, la **inequidad entre los sexos**, la **enseñanza**, la falta de acceso al **agua** limpia y la degradación del **medio ambiente**.

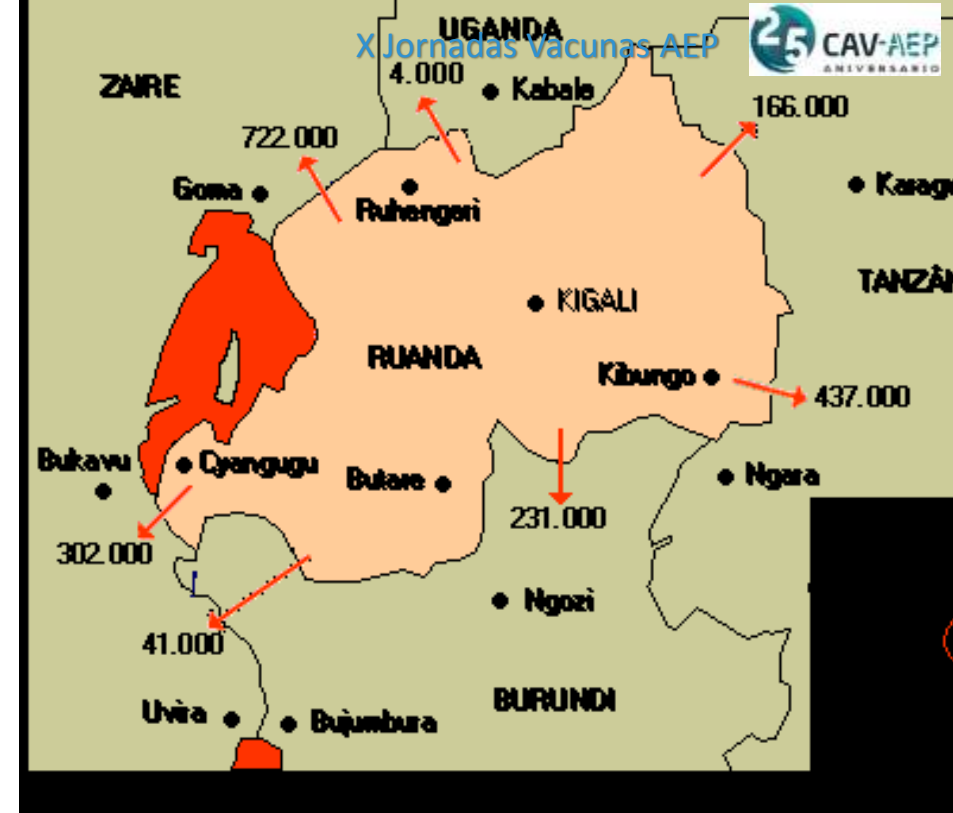


World Health Organization



La crisis de los grandes lagos

1990



La crisis de los grandes lagos

1990





X Jornadas Vacunas AEP

25 CAV-AEP
ANIVERSARIO

EL MUNDO HA CAMBIADO





PARECE QUE FUE AYER...



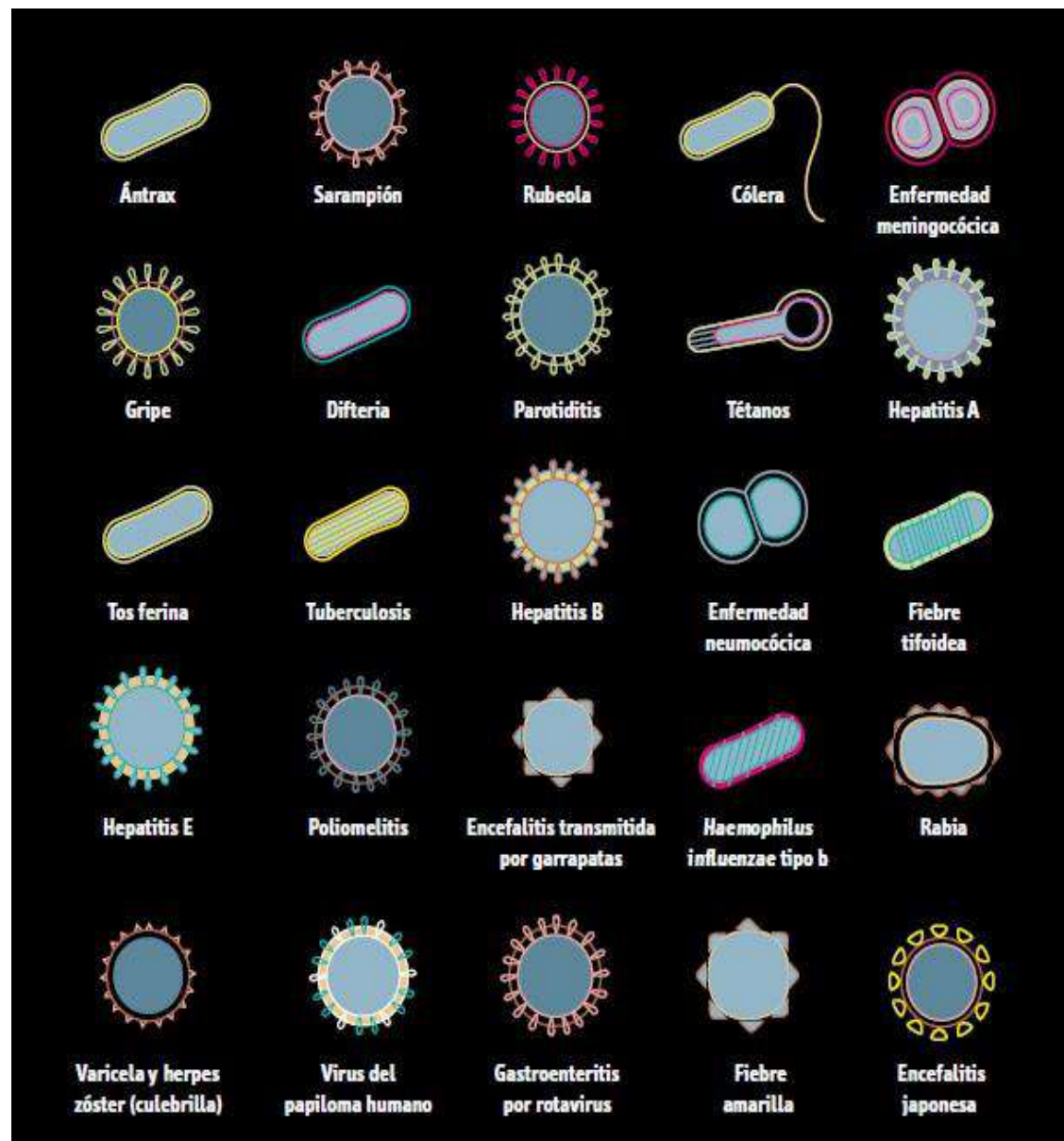


Plan de Acción Mundial sobre Vacunas

2011-2020



Vacunas para 26 enfermedades infecciosas



INFECCION CRONICA
(millones personas)

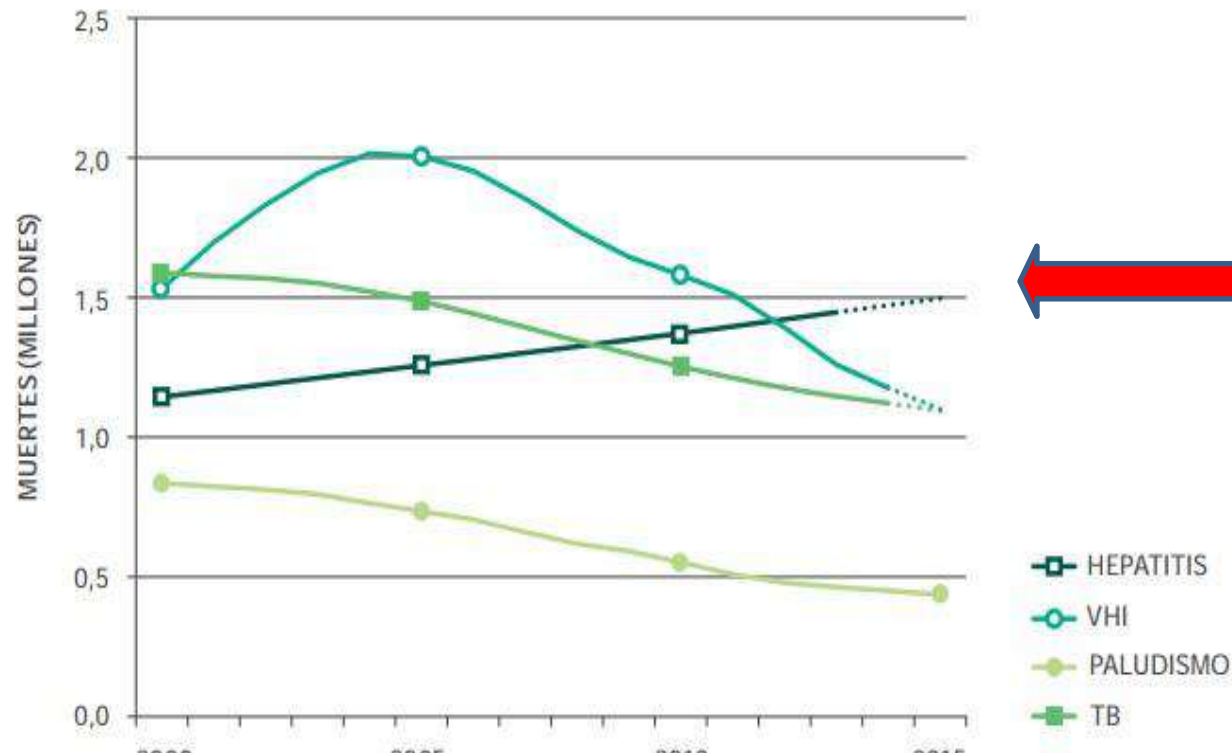
VHB :**240 m.**

VHC :**130-150 m.**

HEPATITIS VIRICAS . UNA GRAN CARGA PARA LA SALUD PÚBLICA

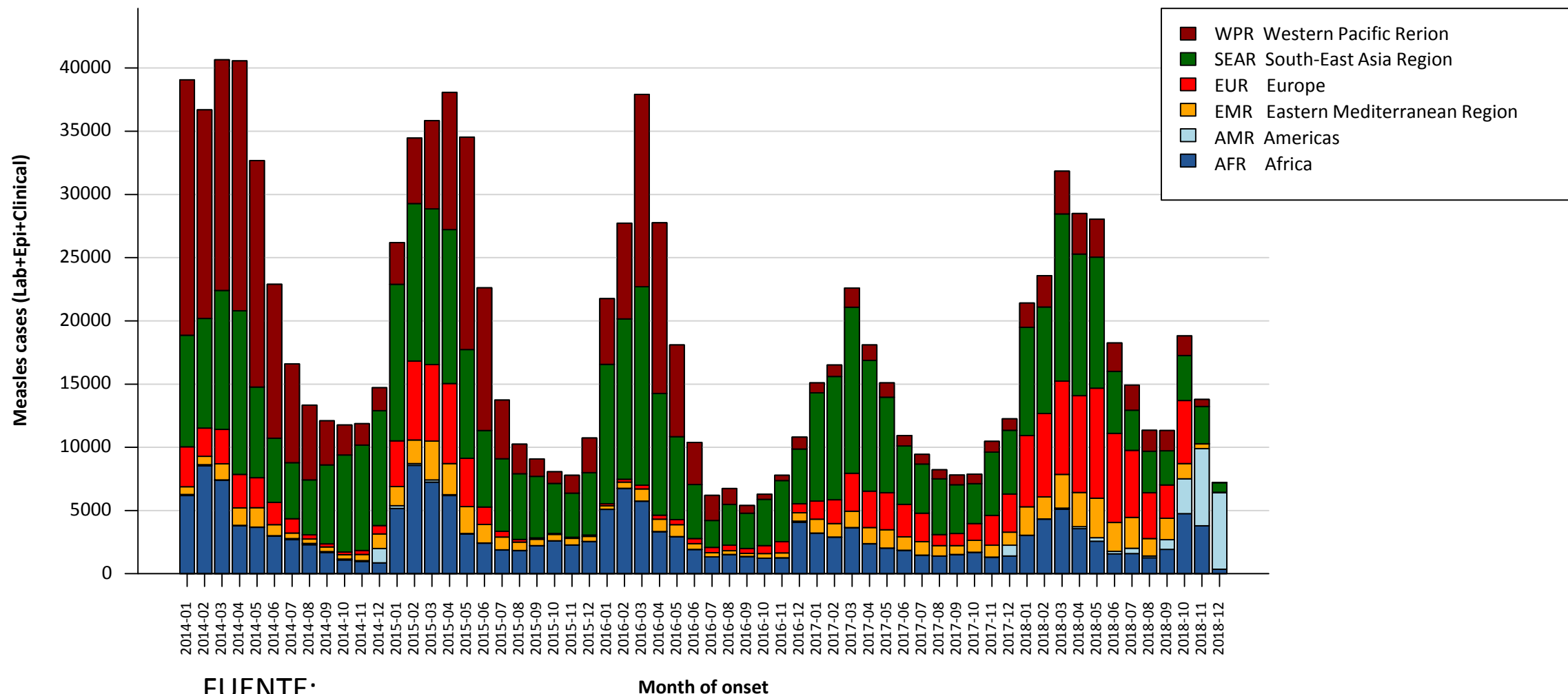
- Mueren cada año **1,4 m.** de personas por infección aguda y por cáncer hepático y cirrosis
- 47 % muertes atribuibles al **VHB**, el 48 % al **VHC**
- 2,9 millones de personas con VIH están coinfectadas por el VHC, y 2,6 millones por el VHB

Figura 2. Cifra mundial estimada de muertes por hepatitis víricas, VIH, paludismo y tuberculosis, 2000-2015



Measles case distribution by month and WHO Region (2014-2018)

The clustering of cases in AMR at specific time points is an artifact of reporting



FUENTE:

https://www.who.int/immunization/monitoring_surveillance/burden/vpd/surveillance_type/active/measles_monthlydata/en/ (Ultima consulta Febrero 2019 / Datos actualizados a Enero de 2019)



Plan de Acción Europeo sobre Vacunas 2015-2020

EVAP - WHO

EVAP GOALS:

1. Sustain **polio**-free status
2. Eliminate **measles** and **rubella**
3. Control **hepatitis B** infection
4. Meet regional vaccination **coverage** targets
5. Make **evidence-based decisions** on the introduction of new vaccines
6. Achieve **financial sustainability** of national immunization programmes



COBERTURAS VACUNALES



- ❖ Programas de vacunación en las comunidades
- ❖ Cadena de frío / tecnología
- ❖ Provisión de vacunas
- ❖ Programas de control y erradicación de enfermedades



Vaccination saves 2-3 million children each year from deadly childhood diseases like measles, diarrhea and pneumonia.



Measles vaccinations averted an estimated 17.1 million deaths between 2000 and 2014.



In 2016, UNICEF procured 2.5 billion vaccine doses reaching almost half of the world's children.



Since 2000, 2.5 billion children have been vaccinated and the number of polio cases has fallen by more than 99 percent, dropping to just 22 cases in 2017.



Thanks to global immunization efforts, maternal and neo-natal tetanus is endemic only in 15 countries.

ACNUR ayuda a refugiados en 130 países



Refugio



Nutrición



Educación



Género



Sanidad

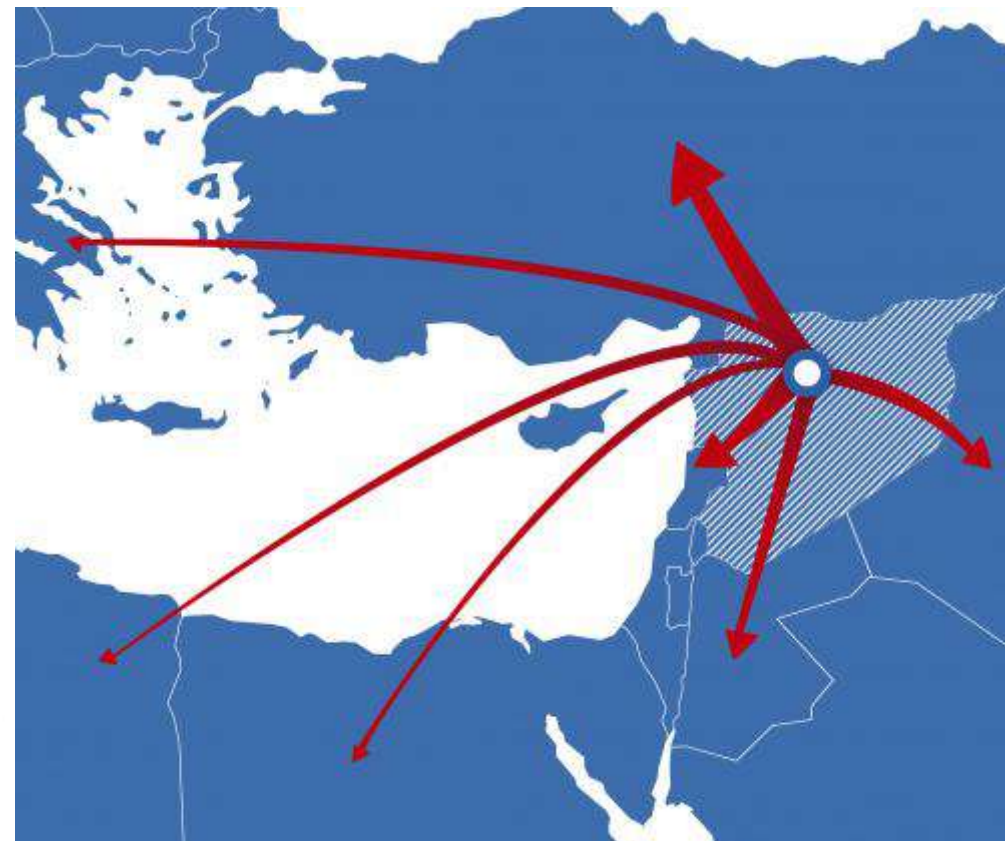


Agua



SIRIA

EMERGENCIAS HUMANITARIAS



250.000

personas han muerto en la guerra de Siria

El 80%

de los desplazados vive en situación de pobreza

5 millones

de refugiados sirios en todo el mundo.

SIRIA

Syria: Health workers rush to vaccinate 320000 children amid sudden polio outbreak

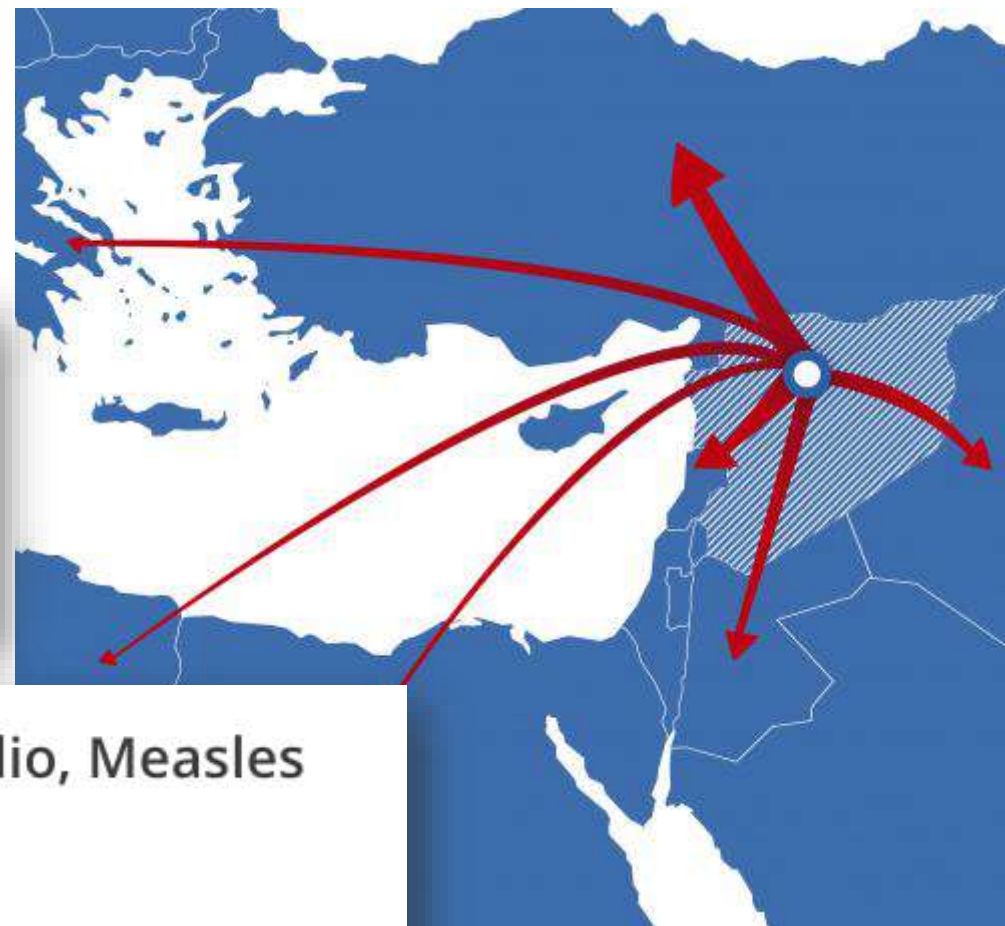
1 Jul, 2017

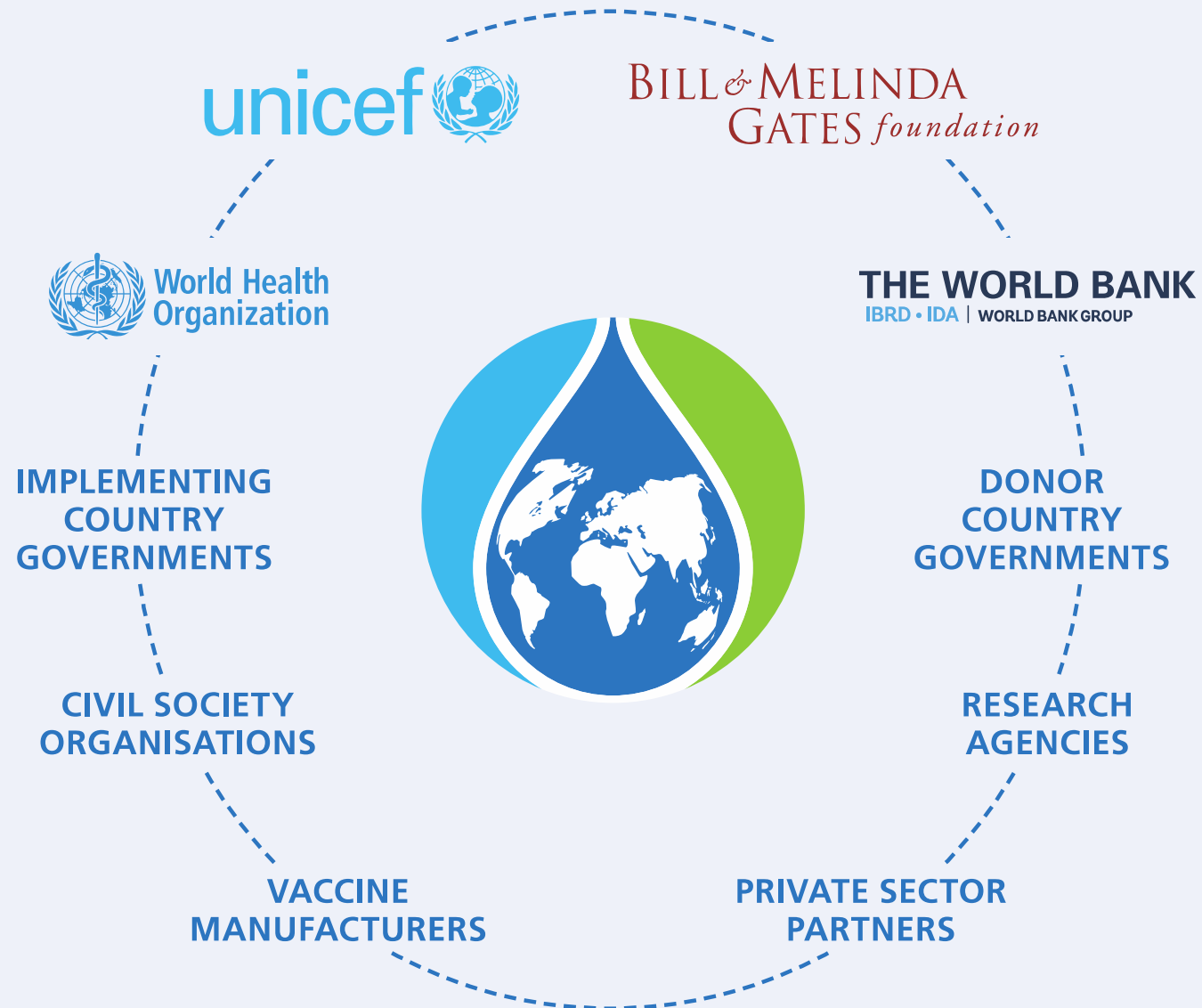
Attack On Medical Facilities In Syria Sets Back Polio, Measles Immunization Efforts, WHO Says

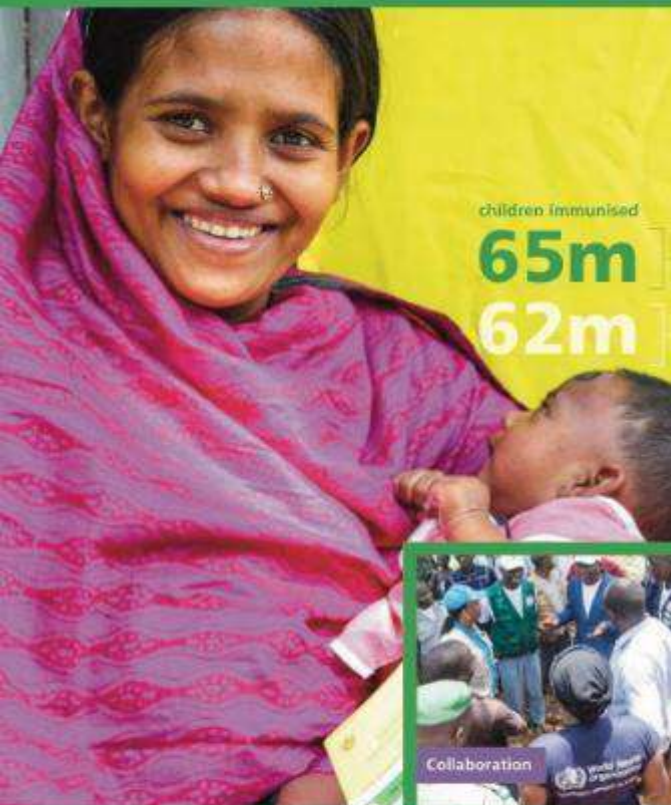
Oct 16, 2017

[Reuters](#): WHO says attack on Syria vaccine store leaves children at risk

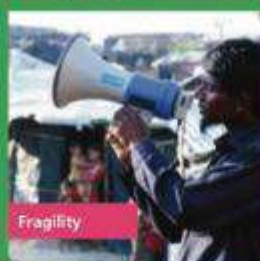
"The World Health Organization [said](#) on Friday it had received reports of an attack on medical facilities in eastern Syria that had destroyed a store containing more than 130,000 vaccine doses against measles and polio. If confirmed, the WHO said, the attack would put thousands of children at risk of these serious







2020
2019
2018
2017
2016



Lo conseguido entre 2000 - 2017

What we have achieved together, 2000–2017

>690
million children

vaccinated through
routine programmes

>760
million people

immunised through
vaccination campaigns

>10
million lives

saved in the
long term

>100
billion US\$

generated through
the economic benefits
of immunisation^a

387

vaccine introductions
and campaigns

^a – As of the end of 2016



US\$ 1 = US\$ 18

A study in Health Affairs covering 73 Gavi-supported countries over the 2011–2020 period shows that, for every US\$ 1 spent on immunisation, US\$ 18 are saved in healthcare costs, lost wages and lost productivity due to illness. If we take into account the broader benefits of people living longer, healthier lives, the return on investment rises to US\$ 48 per US\$ 1 spent.

Rentabilidad

- Período 2011-2020: **por cada US \$ 1 gastado en inmunización, se ahorran US \$ 18** en costos de atención médica, pérdida de salarios y pérdida de productividad debido a enfermedad.
- Si tomamos en cuenta los beneficios más amplios de las personas que viven vidas más largas y más sanas, el retorno de la inversión aumenta a **US \$ 48 por cada dólar gastado.**

Vaccine investment strategy (VIS) 2021-2025

	Vaccines/products linked to current investment	New vaccine/product
Endemic disease prevention	• Diphtheria, tetanus & pertussis containing boosters • Hepatitis B (birth dose) • Cholera (preventive immunisation) • Meningococcal (multivalent conjugate) • Rabies • Malaria*	• Hepatitis A • Dengue • Influenza (maternal) • Respiratory syncytial virus maternal vaccine and monoclonal antibody
Epidemic disease preparedness and response		• Pandemic influenza (initial in-depth briefing)
Polio eradication	• IPV (post-2020)	

**Malaria was not subject to investment decisions in VIS 2018 as the [malaria vaccine implementation programme](#) is still ongoing, but was treated as a comparator.*

Disponible en: <https://www.gavi.org/about/strategy/vaccine-investment-strategy/>

POLIO GLOBAL ERADICATION INITIATIVE



BILL & MELINDA GATES foundation



THE LAST DAYS OF POLIO

We have eliminated 99% of new polio cases worldwide. **It's time to make it 100%**

ONLY THREE COUNTRIES remain polio endemic



DECLINE IN NEW POLIO CASES between 1985 and 2012



RESULTS SINCE 1988

- The global effort has immunized more than two billion children
- Mobilized more than 20 million volunteers and health workers
- More than 1.5 million childhood deaths have been averted

POLIO GLOBAL ERADICATION INITIATIVE



ROTARY'S 1.2 million members are dedicated to volunteerism, high ethical standards, and goodwill.



WHO is the directing and coordinating authority for health within the United Nations system.



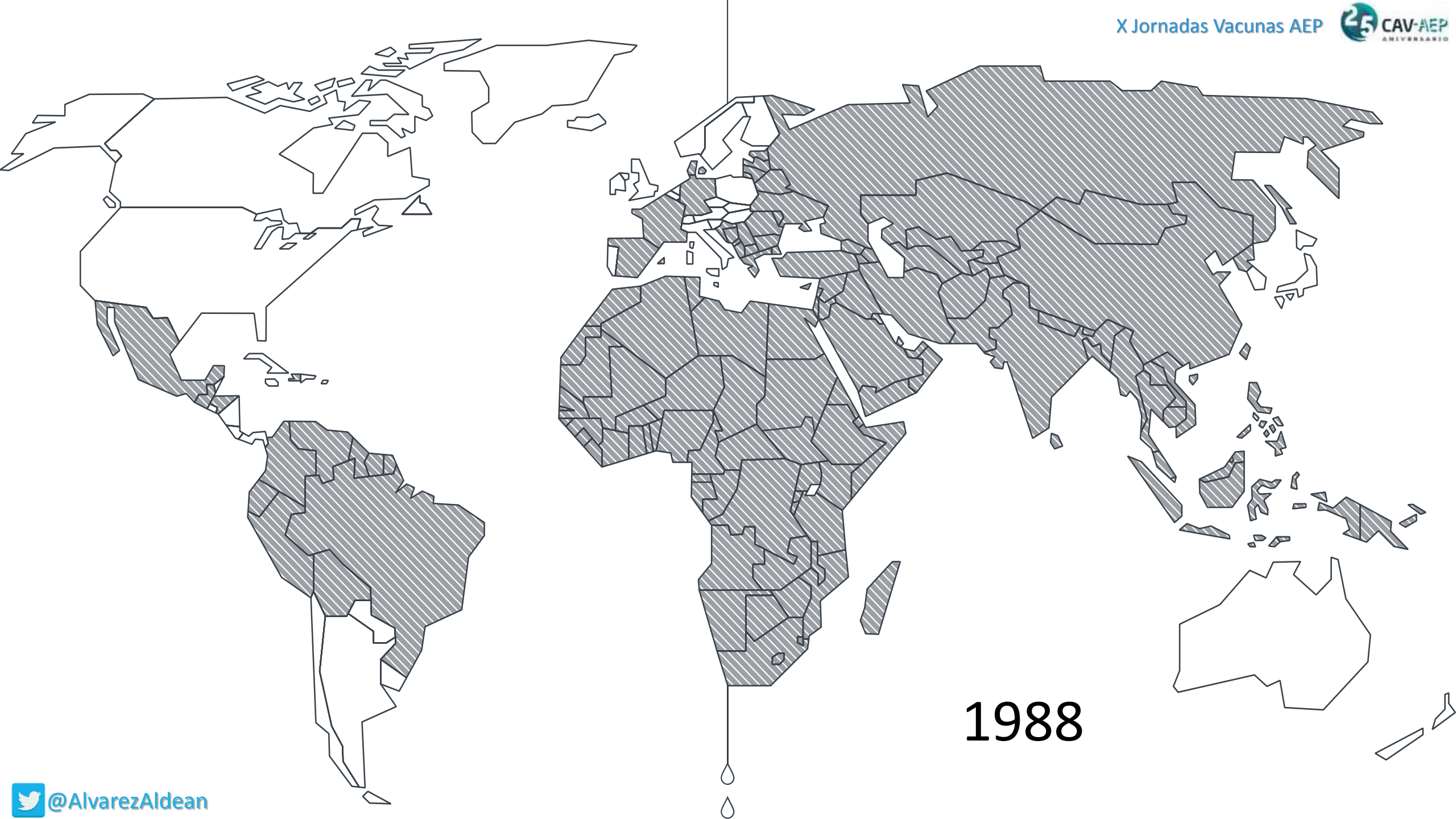
UNICEF is the driving force that helps build a world where the rights of every child are realized.



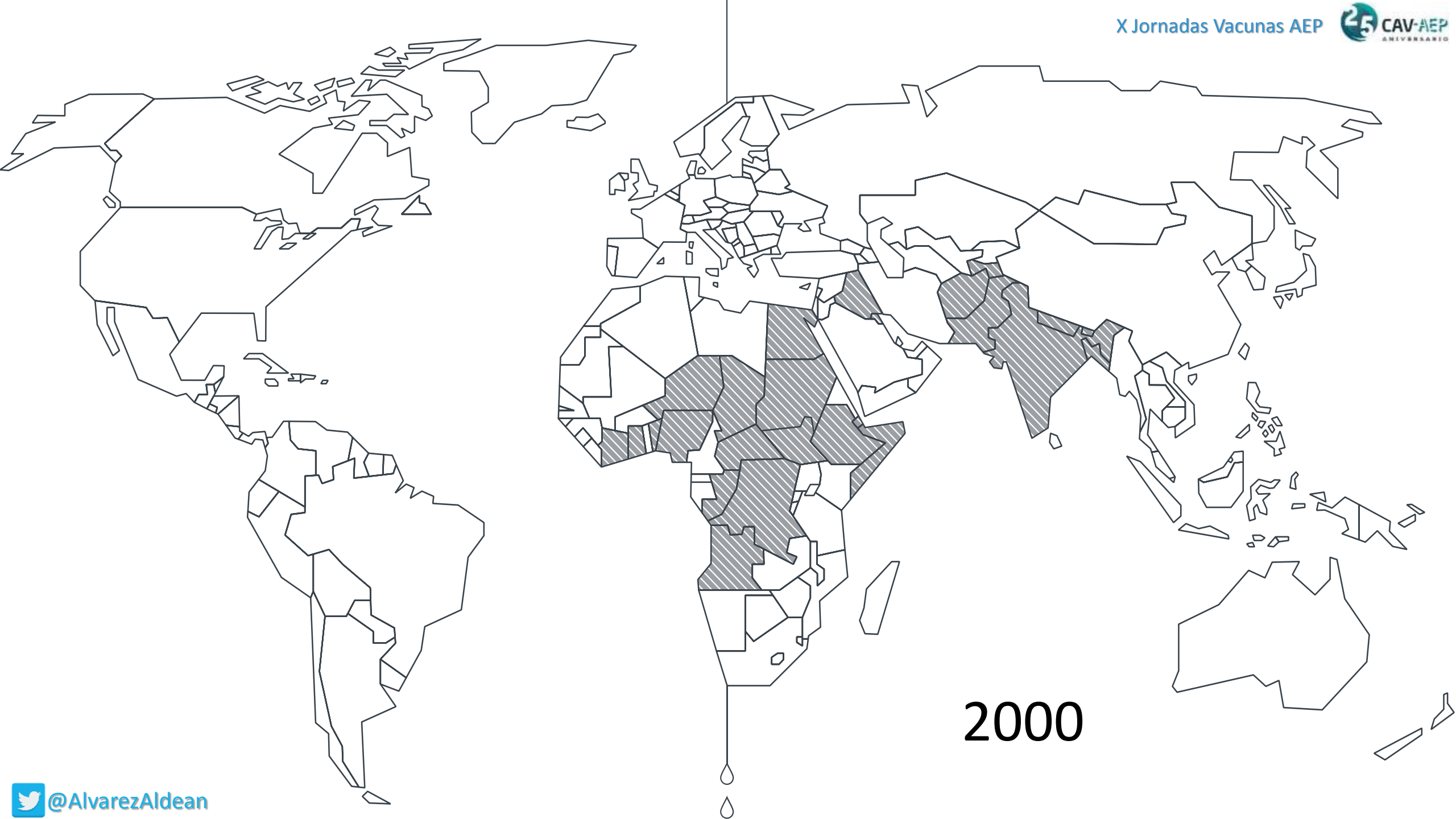
The US CENTERS FOR DISEASE CONTROL AND PREVENTION collaborate to create the expertise, information, and tools that people and communities need to protect their health.

A PARTNERSHIP THAT IS GETTING RESULTS

The Global Polio Eradication Initiative (GPEI), launched in 1988, is spearheaded by national governments, the World Health Organization (WHO), Rotary International, the US Centers for Disease Control and Prevention (CDC), and UNICEF, and supported by key partners including the Bill & Melinda Gates Foundation.



1988



2000



2012



THIS WEEK

Polio this week as of 20 February 2019

- On 19 February, the 20th IHR Emergency Committee including members, advisers, and invited Member States convened to discuss the status of international spread of poliovirus. The Committee unanimously agreed that the risk of polio spread continues to be a Public Health Emergency of International Concern (PHEIC) and proposed an extension of Temporary Recommendations for an additional three months. The recommendations come amid outbreak notification of cVDPV1 and cVDPV2 in Indonesia and Mozambique respectively. The official WHO Statement and the Temporary Recommendations will be issued shortly.
- The GPEI has developed the Global Polio Surveillance Action Plan 2018-2020, incorporating newer strategies and innovations to help endemic, outbreak and high-risk countries measure and enhance sensitivity of their surveillance systems. Read more [here](#).
- WHO is seeking input on [draft guidance](#) for managing human exposure to live polioviruses in facilities such as labs and vaccine plants. The document is open for public comment and WHO is particularly seeking feedback from national authorities for containment and others working in public health.
- Summary of new viruses this week: Afghanistan— one case of wild poliovirus type 1 (WPV1) and four WPV1-positive environmental samples; Pakistan – two cases of WPV1 and four WPV1-positive environmental samples. See country sections below for more details.


 29/02/2016

The people at the Heart of Polio eradication in Afghanistan

En 2016: 37 casos

En 2017: 22 casos

En 2018: 33 casos



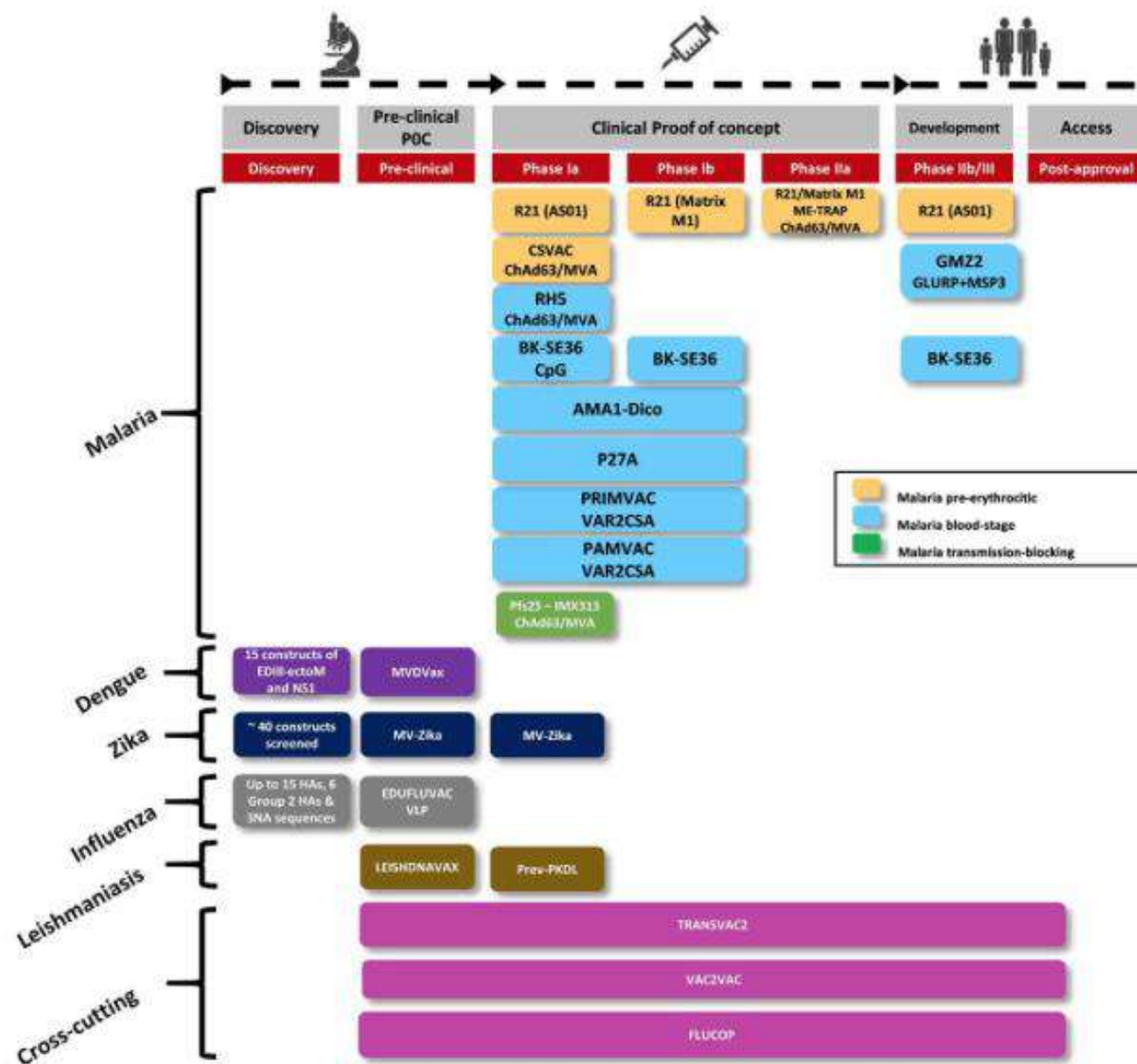
EUROPEAN VACCINE INITIATIVE

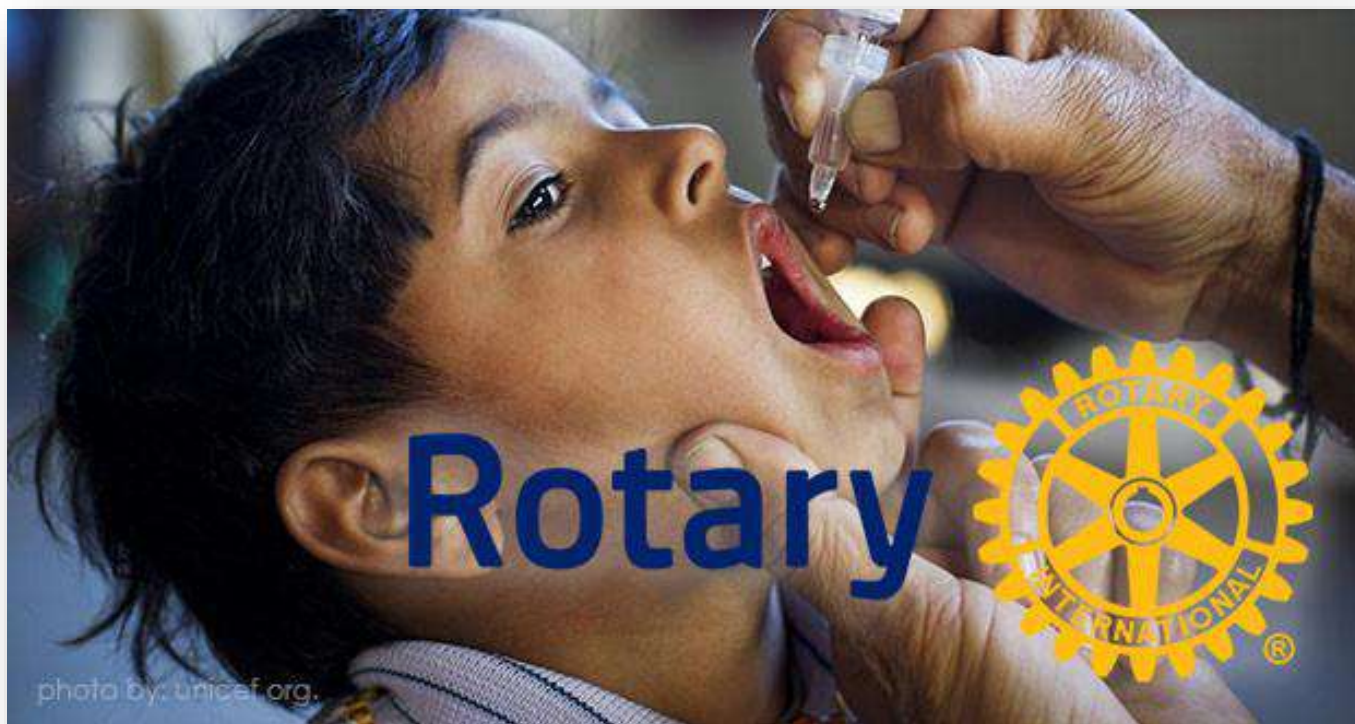




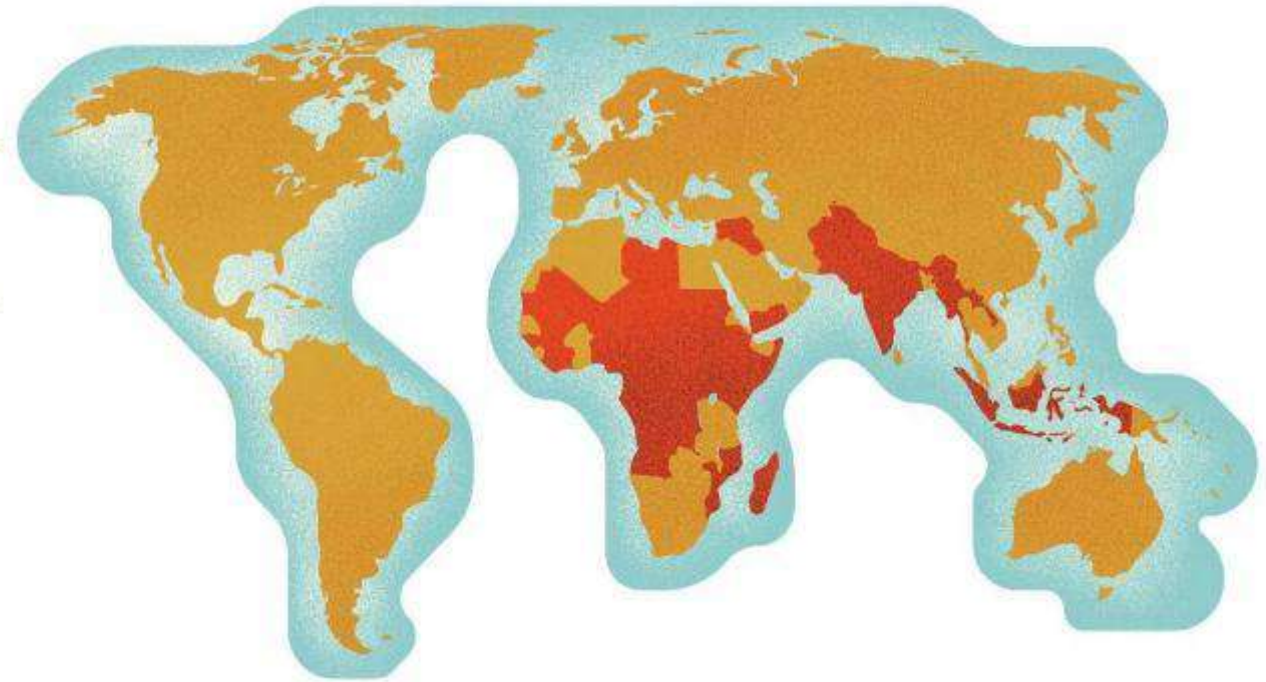
EUROPEAN VACCINE INITIATIVE

Vaccine development





Rotary and its partners worked to reach 430 million children in 39 countries during polio immunization campaigns in 2017.



308 M\$
141 campañas
20,4 M vacunas

END
POLIO
NOW



BILL & MELINDA GATES *foundation*



A CLOSER LOOK

Accelerate progress to eradicate malaria

Reduce HIV infections and extend lives for people with HIV

Deliver life-saving vaccines where they're needed most

Eradicate polio

BILL &
MELINDA
GATES
foundation

COMBAT INFECTIOUS DISEASES

THAT PARTICULARLY AFFECT
THE POOREST



@AlvarezAldean



	Committed funding (\$ millions)							
DAC 5 Digit Sector ^[41] ◆	2009 ◆	2010 ◆	2011 ◆	2012 ◆	2013 ◆	2014 ◆	2015 ◆	Sum ◆
Infectious disease control	256.9	720.3	462.8	528.7	1248.3	1271.8	1097.5	5586.4
Malaria control	324.5	101.7	133.6	75.5	302.4	377.6	140.8	1456.1
STD control including HIV/AIDS	175.5	26.9	291.4	199.7	184.4	264.4	165.7	1308.0
Tuberculosis control	69.2	211.1	59.5	273.9	135.3	100.1	244.8	1094.0
Reproductive health care	173.8	66.8	77.4	165.2	84.9	207.6	130.0	905.8
Agricultural research	84.7	27.8	196.2	192.8	207.1	14.7	83.9	807.2
Family planning	104.5	21.2	21.4	49.3	165.0	145.8	181.7	688.9
Health policy and administrative management	119.3	14.3	145.7	75.5	61.1	113.4	130.3	659.5
Agricultural development	5.2	30.0	0.0	35.0	0.0	325.1	86.1	481.3
Agricultural policy and administrative management	72.9	30.0	77.5	77.1	86.2	19.7	96.9	460.3
Promotion of development awareness	47.2	45.0	35.5	41.7	124.4	61.7	80.7	436.2
Basic health care	22.3	23.9	43.7	73.2	1.7	45.6	206.3	416.7
Basic nutrition	19.2	15.7	40.9	51.5	63.7	55.9	148.2	395.2
Basic sanitation	10.1	34.9	82.9	74.9	59.1	48.7	64.9	375.5
Financial policy and administrative management	29.0	18.4	9.8	8.9	70.1	32.9	53.4	222.5
Other	487.5	273.8	2208.9	260.2	332.1	433.3	2195.7	6191.5
Total	2001.9	1662.0	3887.2	2183.0	3125.9	3518.4	5106.6	21485.1

EMERGENCIA HUMANITARIA



12.340.000

POBLACIÓN

Habitantes

789

MORTALIDAD
MATERNA

por cada 100.000 nacimientos

60,3

MORTALIDAD
INFANTIL

por cada 1.000 nacimientos



En 2017, se realizaron **544.800** vacunaciones rutinarias.

En 2017, se vacunaron 2.095.000 personas contra el [sarampión](#) y a 886.300 contra la [meningitis](#) en respuesta a brotes epidémicos.

Vacunación



© MSF

EMERGENCIA HUMANITARIA



THE TEN TOP PRIORITIES

1. Initial assessment.....
2. Measles vaccination.....
3. Water, hygiene and sanitation.....
4. Food and nutrition.....
5. Shelter, site planning and non-food items.....
6. Health care in the emergency phase.....
7. Control of communicable diseases and epidemics.....
8. Public health surveillance.....
9. Human resources and training.....
10. Coordination.....



- SALUD Y NUTRICIÓN
- EDUCACIÓN
- PROTECCIÓN INFANTIL
- EMERGENCIAS Y AYUDA HUMANITARIA
- POBREZA INFANTIL
- DERECHOS DE LA INFANCIA



MÁS DE 55 MILLONES DE NIÑOS EN 120 PAÍSES



INSTITUTO HISPALENSE DE PEDIATRIA

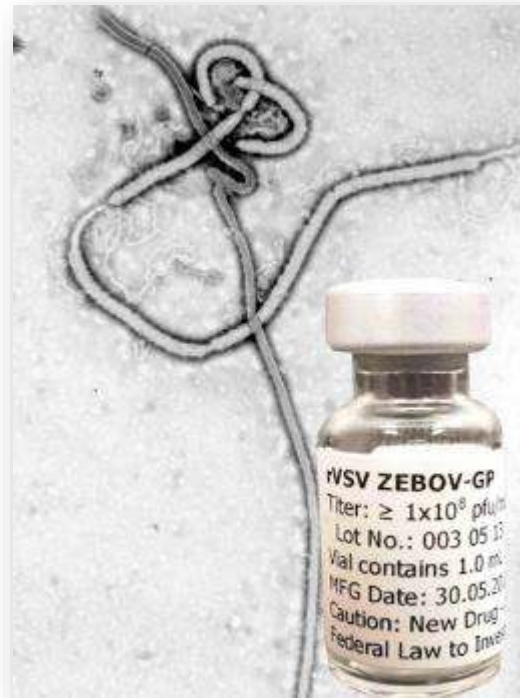
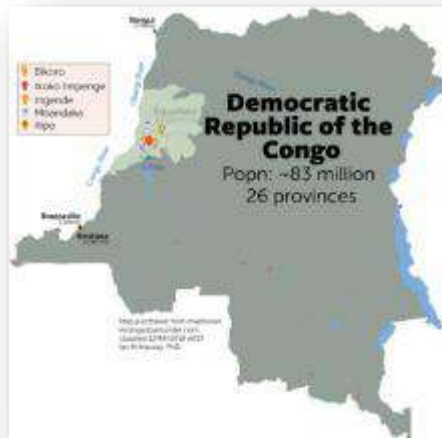
NUEVAS AMENAZAS...



NUEVOS RETOS

RETOS...

EL ÉBOLA REAPARECE EN ÁFRICA



VACUNA RSVV-ZEBOV



RETOS...

Próximas vacunas

WHO Product Development for Vaccines Advisory Committee (PDVAC):

- Establecido en Abril 2014
- Más de 600 productos candidatos a vacunas en investigación.
- Investigación frente a más de 110 microorganismos.

Infecciones con impacto global:

- Malaria
- Tuberculosis
- Gripe
- Dengue
- VIH

Vacunas en las gestantes:

- VRS
- *Streptococcus* grupo B

Infecciones entéricas:

- *E. coli* enterotoxigénico
- *Shigella*
- Norovirus
- *Salmonella* no-Typhi
- *Campylobacter jejuni*

Otras:

Streptococcus pyogenes, Herpes simplex, *Staphylococcus aureus*, virus ébola, Enterovirus D71, Virus nipah, Chikunguña, MERS-CoV, leishmanias, chagas, etc.

RETOS...

Vacuna Malaria



- no hay ninguna vacuna autorizada
- **La vacuna más avanzada en desarrollo es la vacuna RTS, S / AS01.**
- **Ensayo clínico fase III** (siete países africanos)

RETOS...

Vacuna Dengue



Recomendaciones SAGE actualizadas sobre el uso de CYD-TDV (Dengvaxia®)
Para los países que estén considerando la vacunación como parte de su programa de control del dengue, la estrategia de "prueba previa a la vacunación" sería la opción preferida, en la que solo se vacunan las personas **seropositivas** al dengue

RETOS...

Innovar...

Más que vacunas...

- **Gestión Financiación**
- **Capital humano**
- **Logística**
- **Registro / Gestión de datos**
- **Epidemiología / Gestión de respuesta / Contingencia**
- **Comunicación**



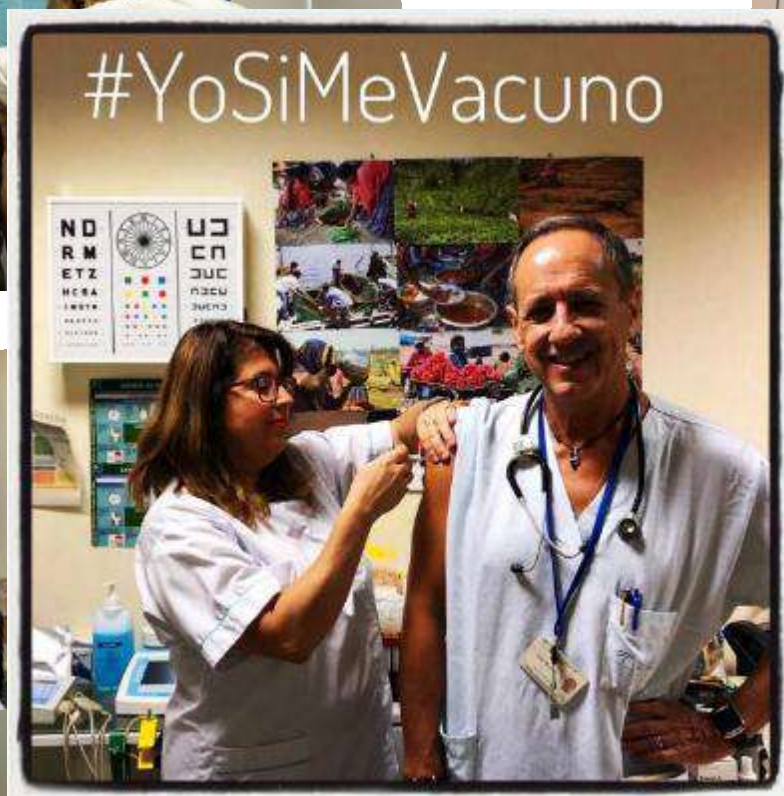
LAS VACUNAS: Una fuerza para el cambio

Un mundo más justo, más sano y más seguro

- En la infancia
- En la adolescencia y la edad adulta
- En protección de la salud durante el envejecimiento



Muchas Gracias



#YOSÍME
VACUNO

#YOSÍME
VACUNO