

Ending HIV transmission by
Optimising
Pre-Exposure prophylaxis in
East Asia (HOPE)



Country leads

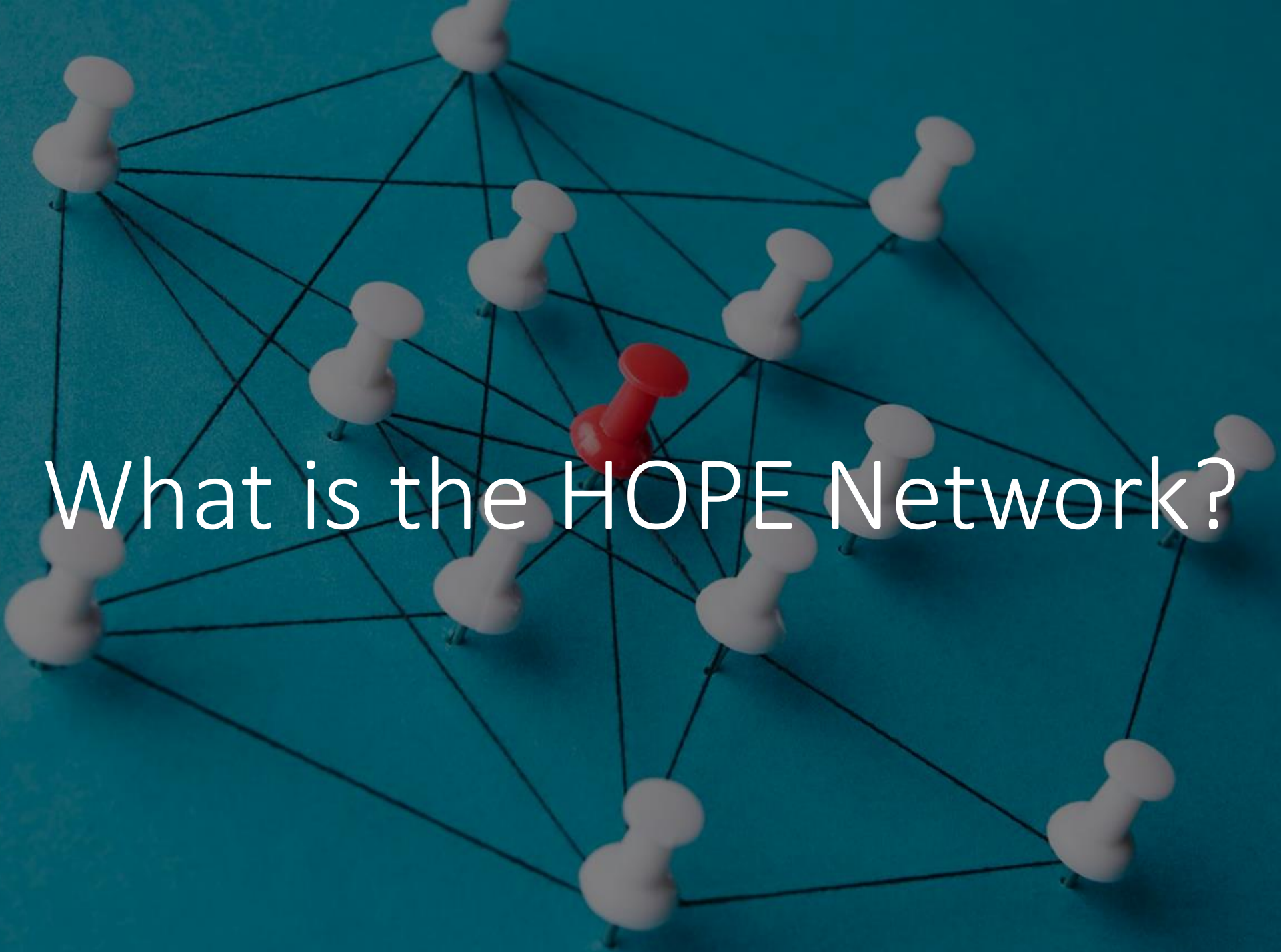
- Australia
 - Jason Ong
- Thailand
 - Nittaya Phanuphak
- The Philippines
 - Noel Juban (late)
 - Marissa Alejandria
 - Nina Castillo-Carandang
- USA
 - Weiming Tang



Celebrating the life of Prof Noel Juban

<https://tdr.who.int/newsroom/news/item/26-01-2022-celebrating-the-life-of-dr-noel-juban>

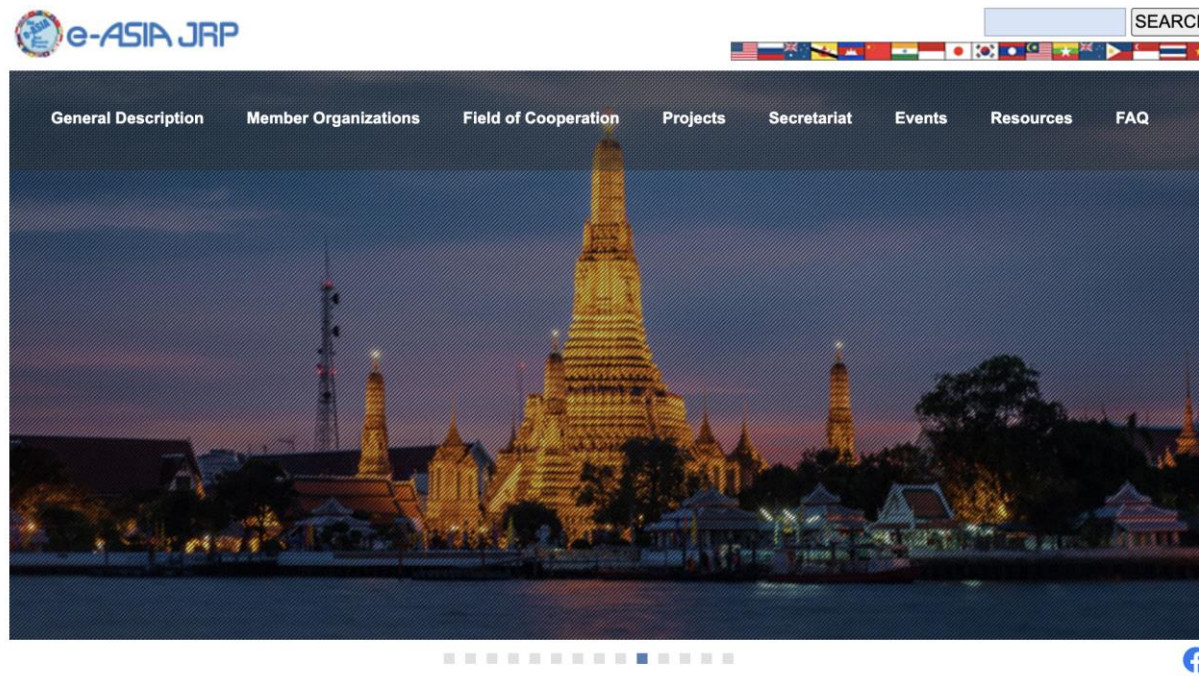




What is the HOPE Network?

HOPE Network

- Ending **H**IV transmission by **O**ptimizing **P**rEP in **E**ast Asia
- Funded by:
 - <https://www.the-easia.org/jrp/>



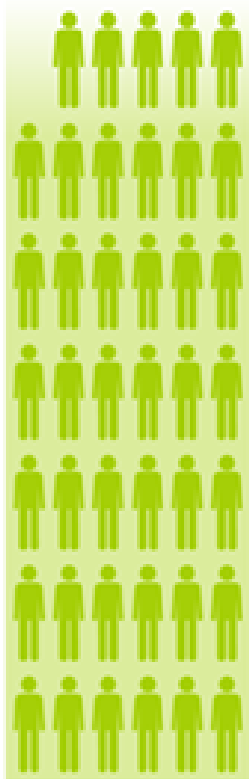
A network diagram is shown on a light-colored surface. It consists of several pushpins, each with a small, round, colored bead (blue, green, red, yellow) attached to its top. The pushpins are connected by thin, brown string, forming a web of interconnected lines. The text "Why set up this network?" is overlaid in white, sans-serif font in the center of the image.

Why set up this network?

Number of people living with HIV in 2020

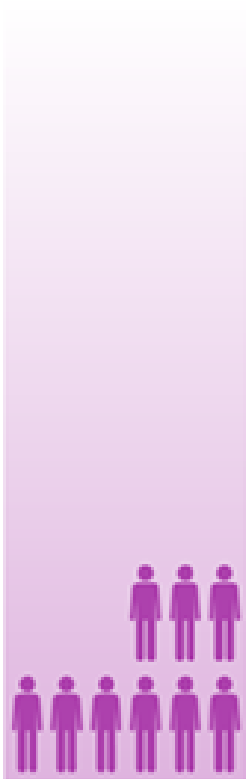
East and Southern Africa

20.6 million



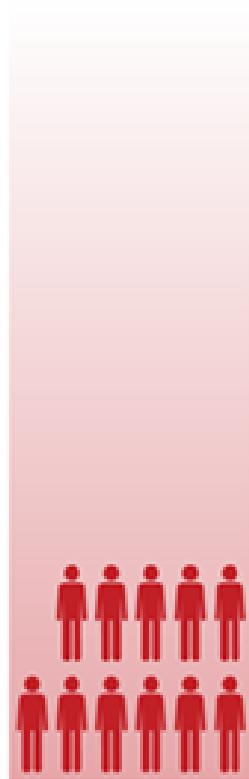
Western and Central Africa

4.7 million



Asia and Pacific

5.8 million



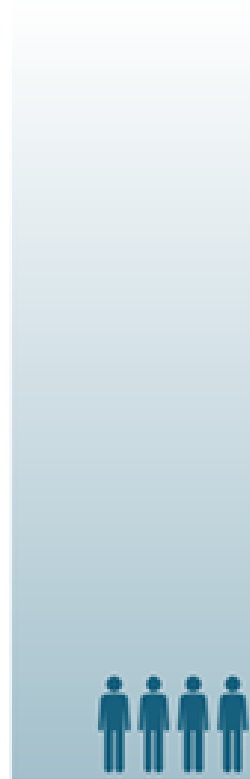
W. and C. Europe and N. America

2.2 million



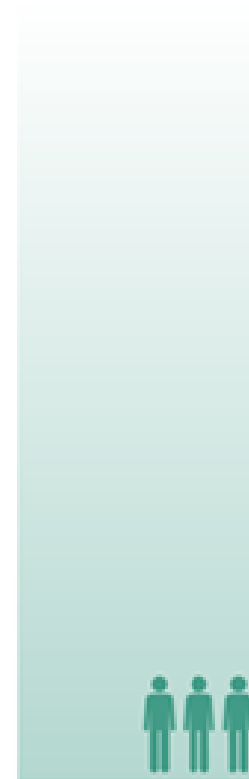
Latin America

2.1 million



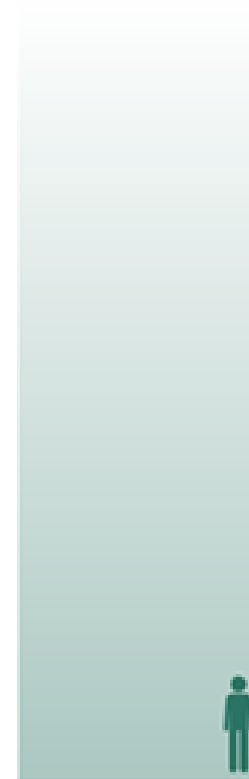
East Europe and Central Asia

1.6 million



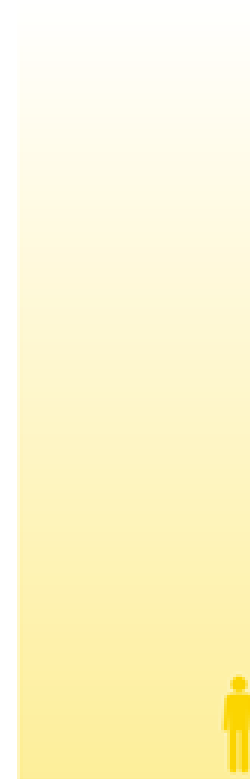
Caribbean

330,000



Middle East and North Africa

230,000

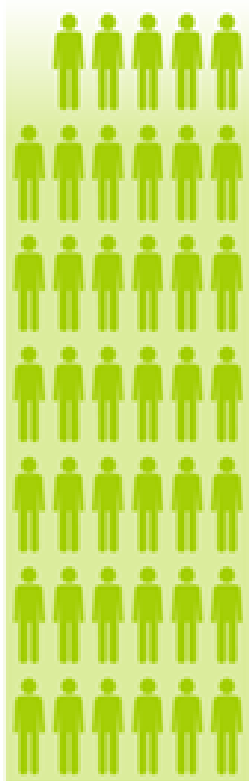


Source: UNAIDS Data 2021

Number of people living with HIV in 2020

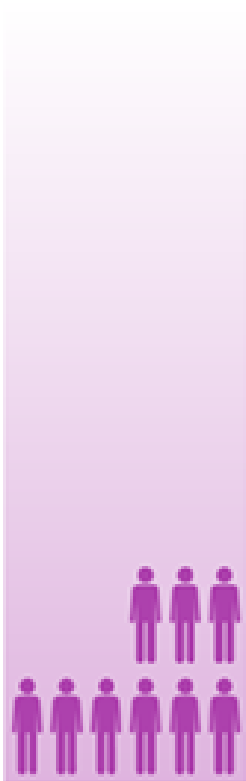
East and Southern Africa

20.6 million



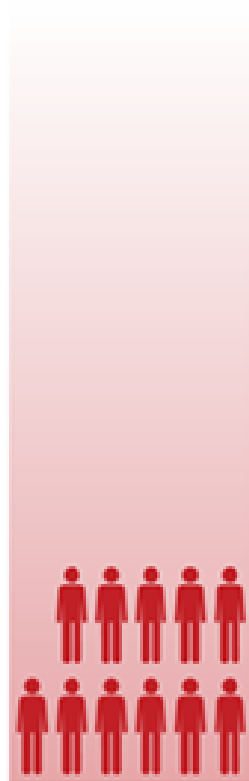
Western and Central Africa

4.7 million



Asia and Pacific

5.8 million



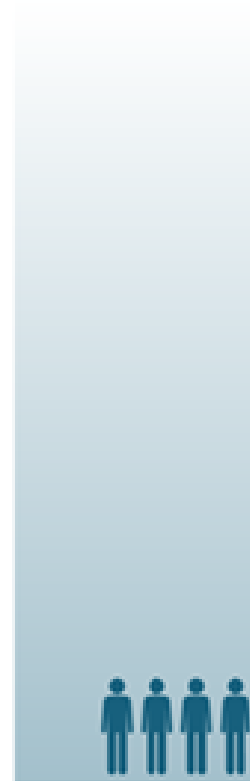
W. and C. Europe and N. America

2.2 million



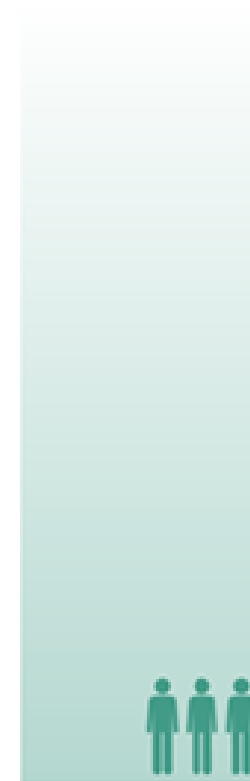
Latin America

2.1 million



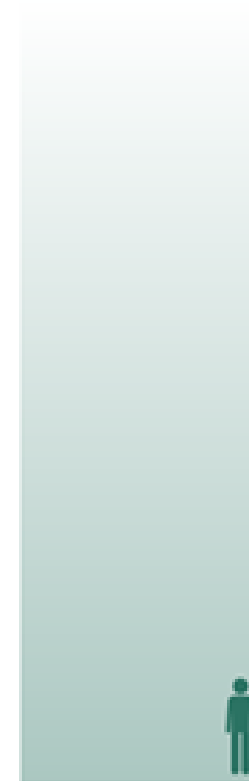
East Europe and Central Asia

1.6 million



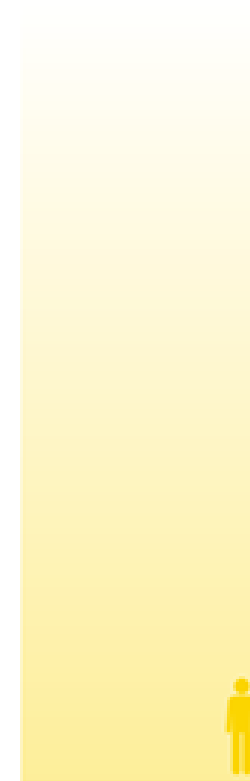
Caribbean

330,000



Middle East and North Africa

230,000



Source: UNAIDS Data 2021

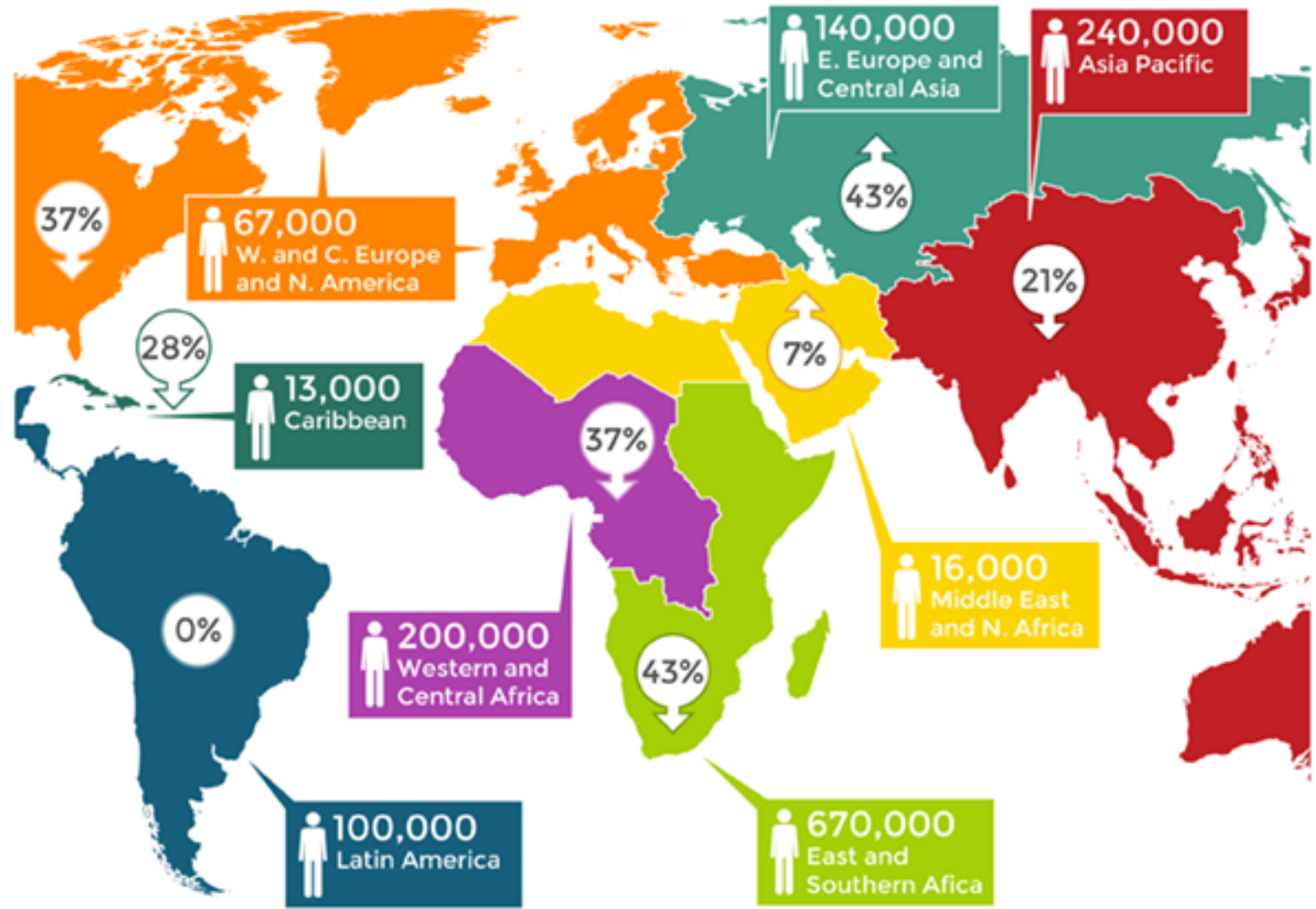


Number of new HIV infections in 2020 and change since 2010

1.5 million people newly infected in 2020 globally

Decrease in number of new infections across the global population since 2010

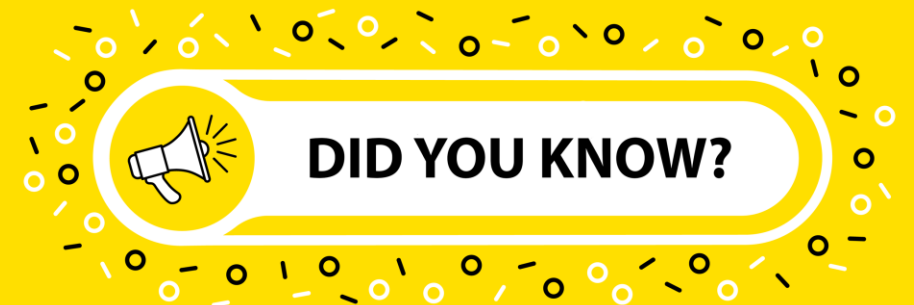
31%



Source: UNAIDS Data 2021

HIV in Asia-Pacific

- Only 3 countries have achieved 90-90-90 targets
 - Australia, Thailand, Cambodia
- 98% of new infections among age 15-49 are from key populations and their sexual partners
- Increases in new HIV infection
 - Philippines



Oral PrEP

- Daily
- On-demand
- Periodic



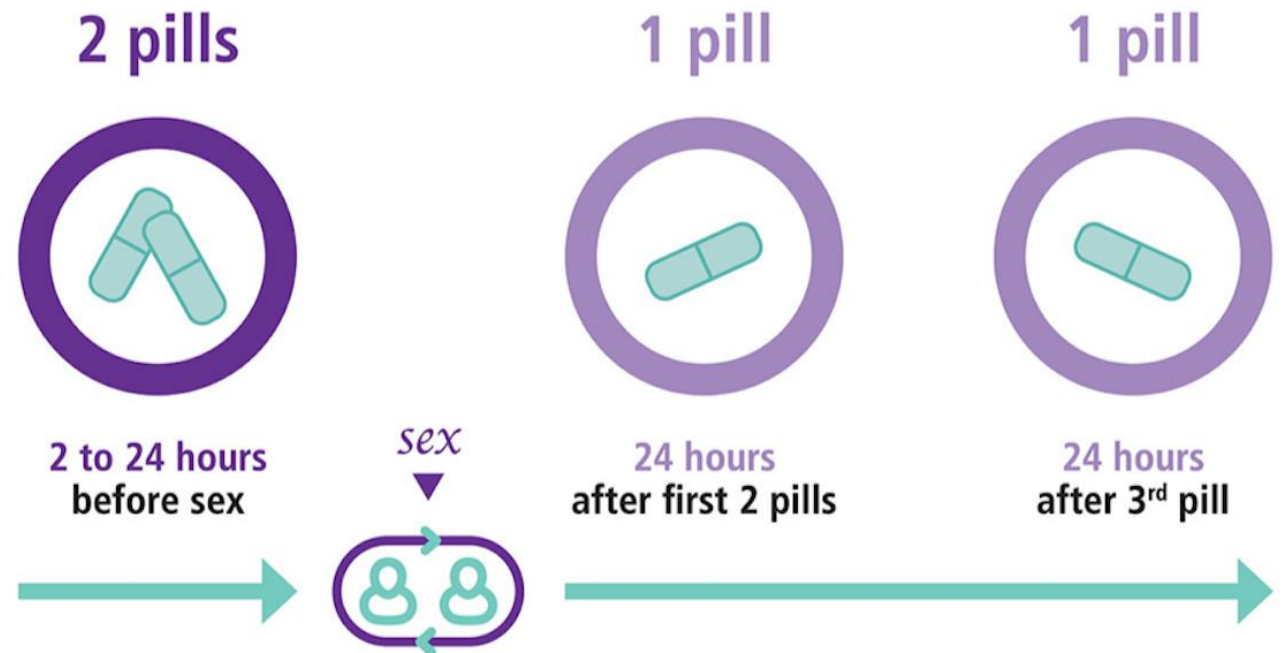
Oral tenofovir disoproxil fumarate and emtricitabine

- Game-changer
 - Up to 99% effective in preventing HIV acquisition
- Recommended by WHO as part of prevention regimen (2015)
- Relies on optimal adherence and persistence
 - Esp for women (lower concentrations in vaginal than rectal tissues)

GAME CHANGER

Event-driven PrEP

- 2-1-1, 'on-demand'
- Endorsed by WHO (2019)
- As effective as daily PrEP
 - (Prevenir study, CROI 2021)
- Caveats
 - Evidence for MSM/TGW



Monthly Pill



Extra long
Injectable



Vaginal
Ring



PrEP
Implant



LA injectables



MABs



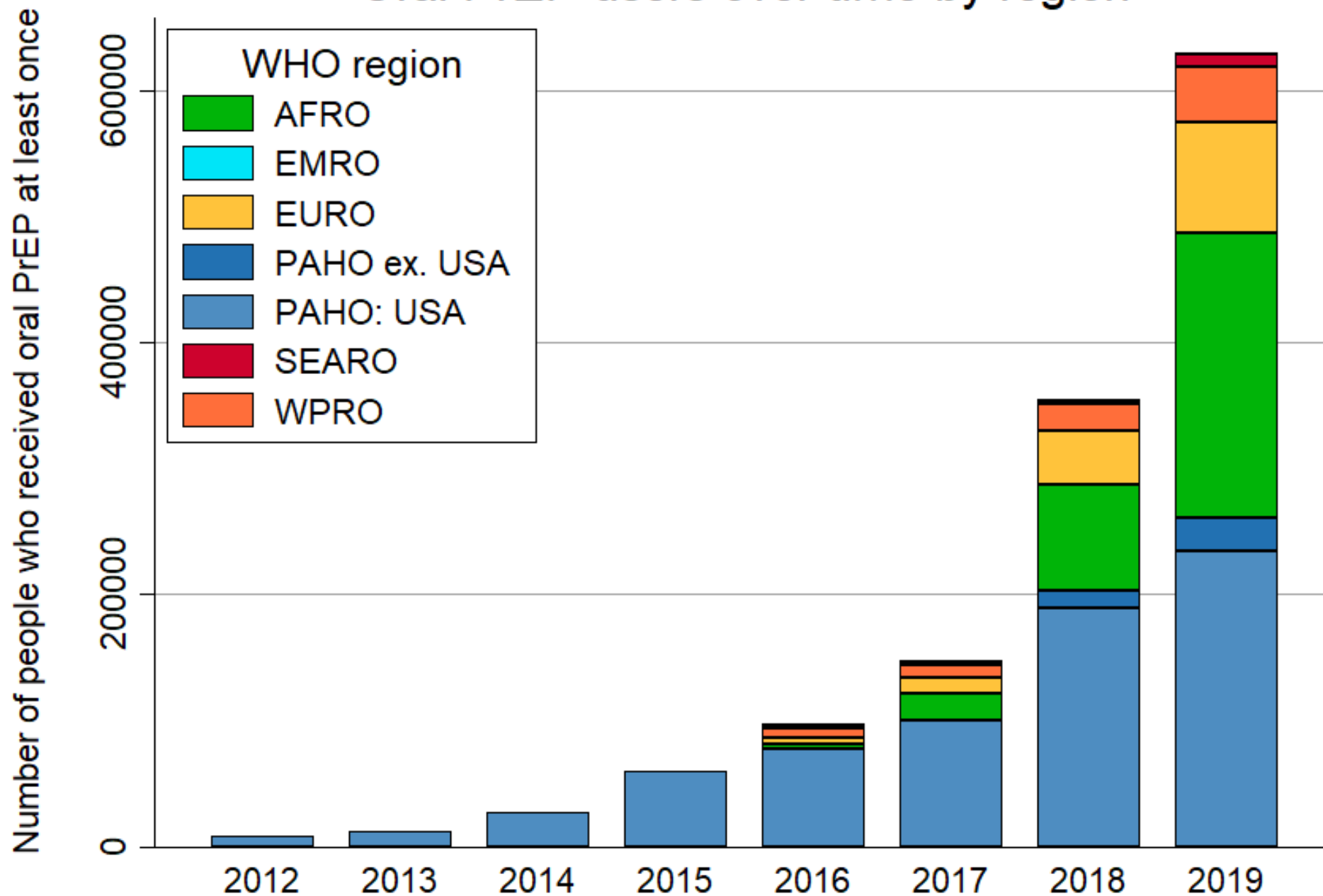
Daily pill



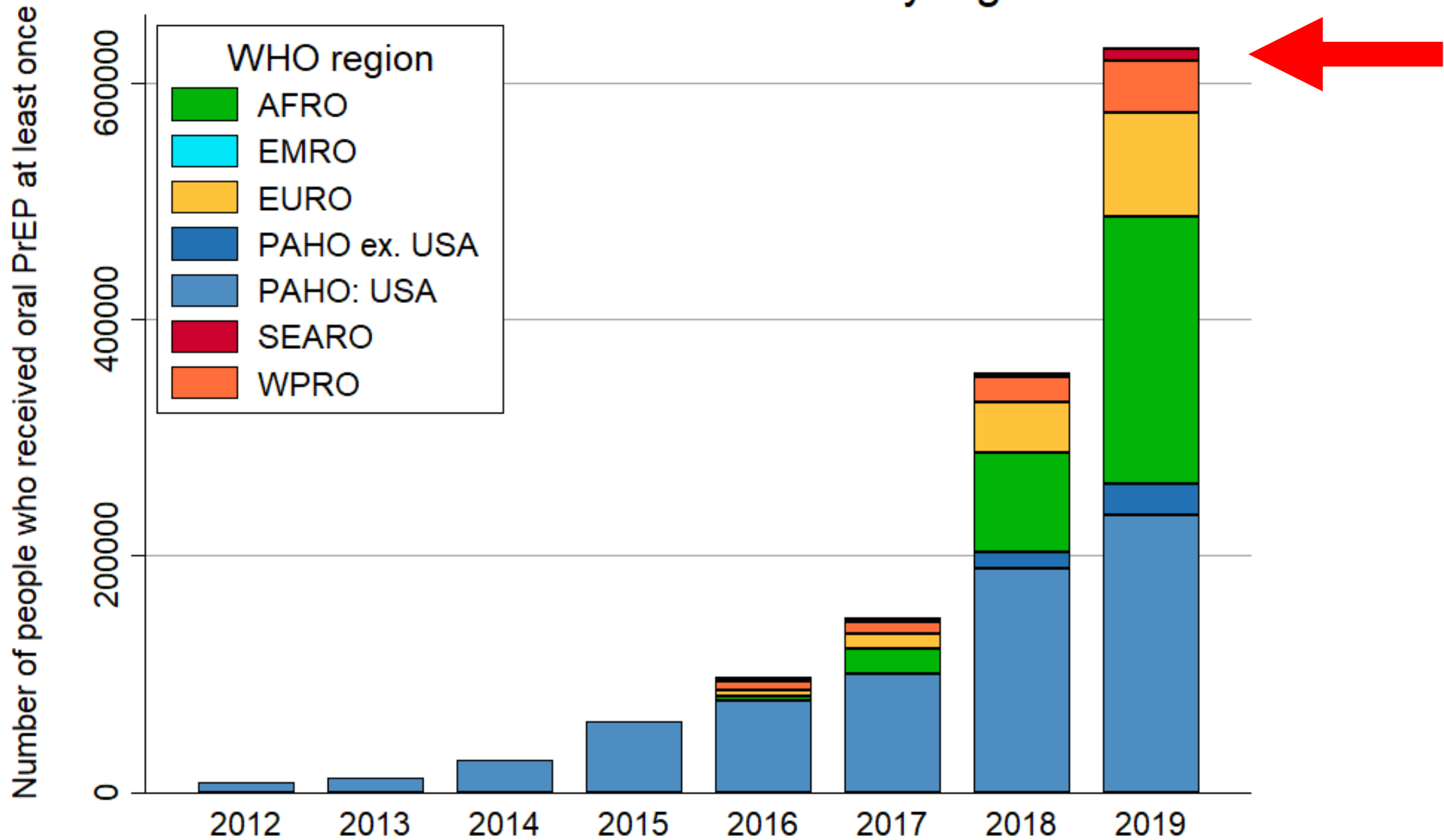
On demand Pill



Oral PrEP users over time by region



Oral PrEP users over time by region

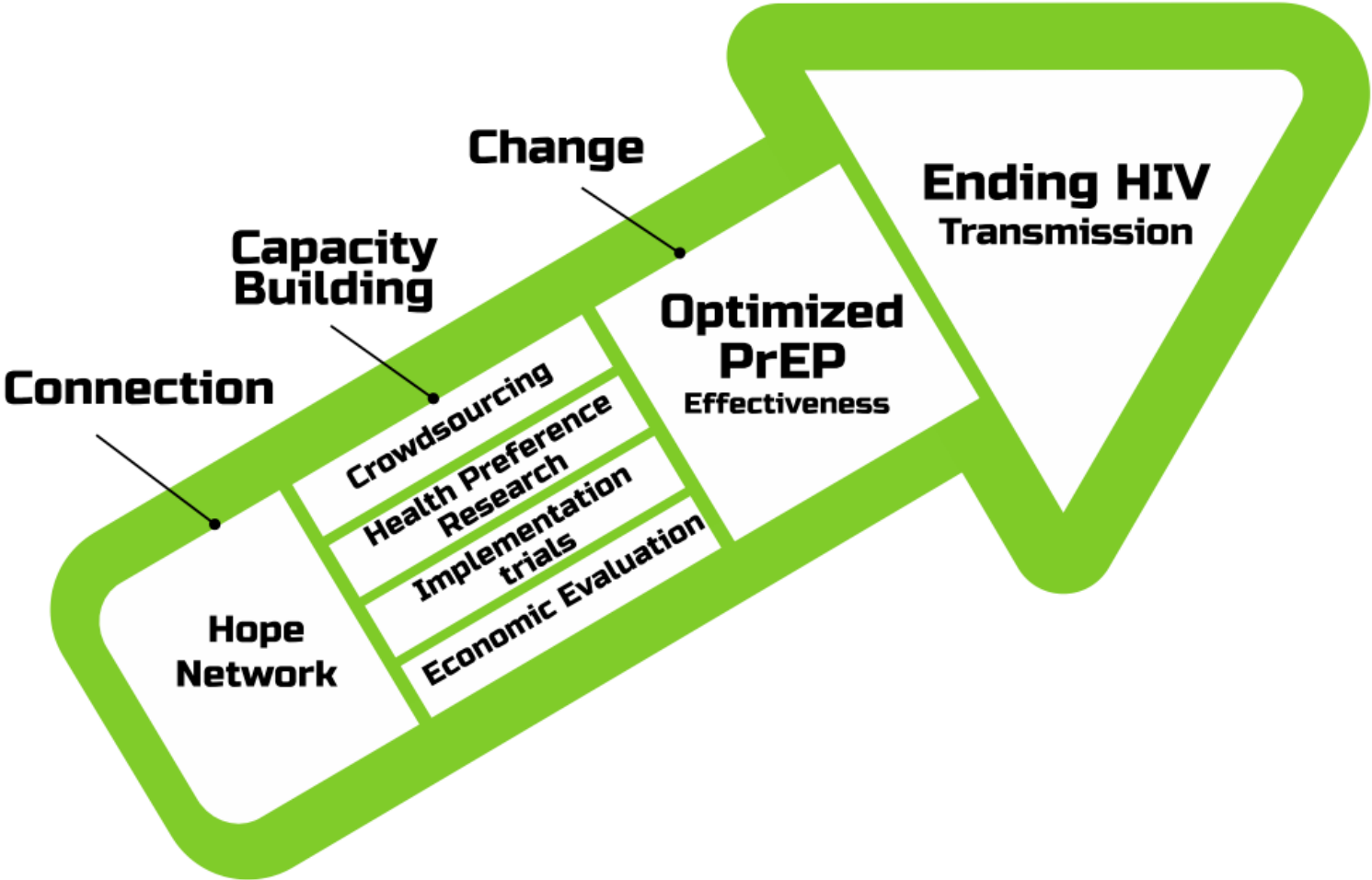




Aims of HOPE network

- **Identify** Community derived solutions for optimizing PrEP effectiveness through crowdsourcing open calls and designathons
 - **Prioritize** community derived solutions into deliverable PrEP service packages through discrete choice experiments
 - **Evaluate the effectiveness** of community derived PrEP service packages through implementation trials in existing PrEP cohorts of community derived PrEP service packages to ensure value for money, sustainability and scalability through mathematical modelling
-

Methods



How can you be involved?

- **Capacity building + Connection**
 - Join 3 monthly network meetings
 - Update on HOPE activities
 - Workshops
- **Change**
 - Join country team to implement projects
 - Australia
 - Thailand
 - Philippines



Activities of 2022

- **Crowdsourcing activities to “increase effectiveness”**
 - Guidance from US team
 - Ethics application
 - Open call to generate solutions for optimizing PrEP
 - Designathon to develop comprehensive PrEP intervention package

Key contacts

- Project Manager
 - Warittha Tieosapjaroen wtieosapjaroen@mshc.org.au(Australia)
- Country Leads
 - Jason Ong Jason.ong@monash.edu (Australia)
 - Nittaya Phanuphak nittaya.p@ihri.org (Thailand)
 - Marissa Alejandria mdlabarda@up.edu.ph (The Philippines)
 - Nina Castillo-Carandang ntcastillocarandang@up.edu.ph (The Philippines)
 - Weiming Tang weiming_tang@med.unc.edu (USA)



Thank you

Jason.Ong@monash.edu



@DrJasonJOng

Crowdsourcing a logo

- “Ending HIV transmission by Optimising Pre-Exposure prophylaxis in East Asia (HOPE)”
- Steering committee
- Judging panel
- Winner – celebrated at next HOPE meeting



Feedback slide

- <https://forms.gle/z9UcDVTQZrEir4DTA>

