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Life-course Immunisation for Older Adults in Asia: A Health Economics Case

Launch Webinar

26 September 2023



Our Speakers and Panellists



Dr Dinesh Arora
*Principal Health Specialist,
Asian Development Bank*



Dr Ryan MacFarlane
*Director, Crowell & Moring International &
Asia-Pacific Economic Cooperation (APEC)
Vaccines Task Force representative*



Ada Wong
*Head of Public Affairs, Vaccines,
JPAC & Asia, Sanofi*



Chris Humphrey
*Executive Director,
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Prof. George Gotsadze
*President,
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Lois Privor-Dumm,
*Director, Adult Vaccines, International
Vaccine Access Center, Johns Hopkins
Bloomberg School of Public Health*

Opening speech



Dr Dinesh Arora
*Principal Health Specialist,
Asian Development Bank*

Keynote speech



Dr Ryan MacFarlane

*Director, Crowell & Moring International &
Asia-Pacific Economic Cooperation (APEC)
Vaccines Task Force representative*

About the APEC Vaccines Task Force (VTF)

About the APEC Vaccines Task Force:

- Development and endorsement of the APEC Action Plan on Vaccination Across the Life-Course
- Organization of policy dialogues, webinars, and workshops to promote implementation of the Action Plan
- Development of a regional dashboard to measure regional progress towards the goals included within the Action Plan

APEC VTF engagements have drawn over 1000 participants from key stakeholders in all 21 APEC economies



APEC Action Plan on Vaccination Across the Life-Course

Core Recommendations of the Action Plan:

Economies should take measures to:

1. Promote recognition of the value of vaccination and vaccine innovation
2. Prioritize access to and uptake of vaccination across the life-course
3. Build whole-of-government capacity in health security and pandemic preparedness
4. Strengthen confidence in vaccination and build resilient immunization programs
5. Enable investment and innovation in vaccine R&D, manufacturing, and delivery
6. Accelerate regulatory harmonization for vaccines across APEC economies
7. Establish prove and innovative mechanism for sustainable immunization financing

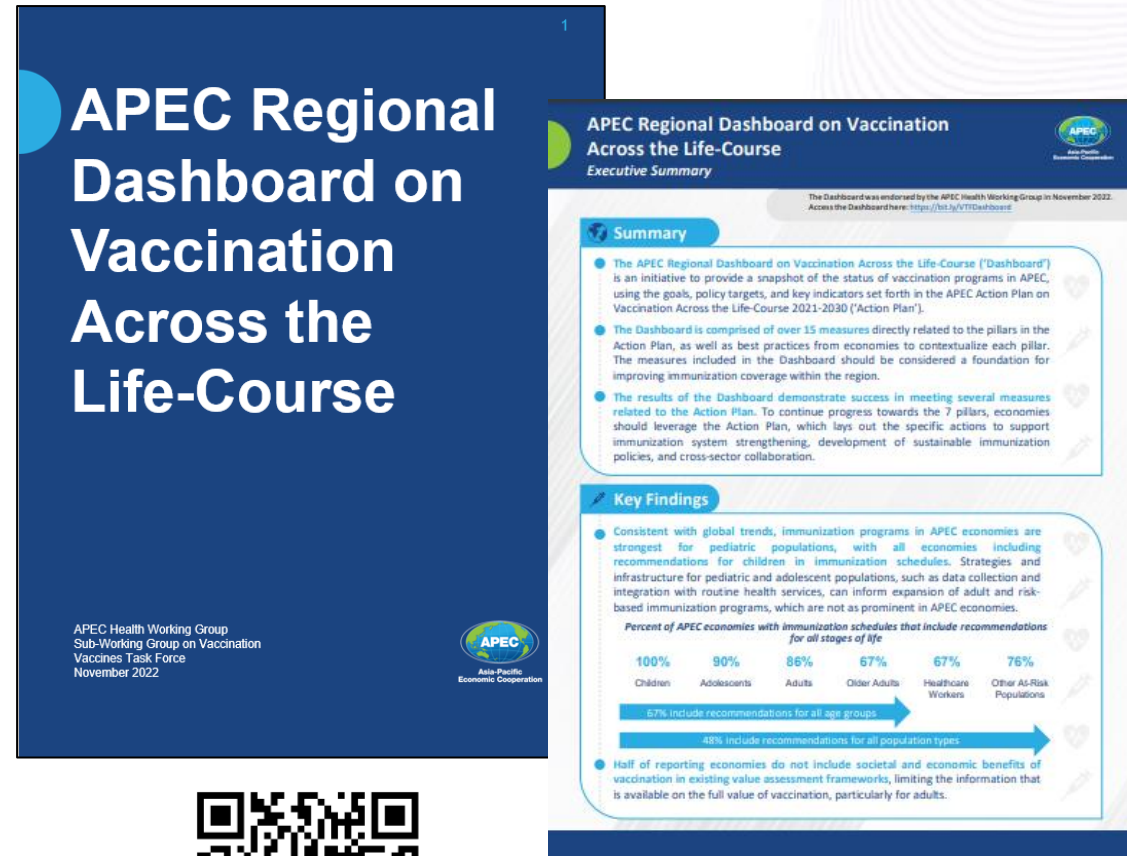
By 2030, all 21 APEC member economies will have implemented **resilient and sustainable life-course immunization programs**, with the objective of achieving **widespread uptake of vaccination** across the life-course and thereby protecting the **health and wellbeing of all populations**.



Learn more at <https://www.apec.org/vaccinestaskforce/Action-Plan>

APEC Regional Dashboard on Vaccination Across the Life-Course

- The APEC Regional Dashboard on Vaccination Across the Life-Course ('Dashboard') is an initiative to provide a snapshot of the status of vaccination programs in APEC, using the goals, policy targets, and key indicators set forth in the Action Plan.
- The Dashboard is comprised of over 15 measures directly related to the pillars in the Action Plan, as well as best practices from economies.
- The results of the Dashboard demonstrate success in meeting several measures related to the Action Plan.



APEC Regional Dashboard on Vaccination Across the Life-Course
Executive Summary

The Dashboard was endorsed by the APEC Health Working Group in November 2022. Access the Dashboard here: <https://bit.ly/VTFDashboard>

Summary

- The APEC Regional Dashboard on Vaccination Across the Life-Course ('Dashboard') is an initiative to provide a snapshot of the status of vaccination programs in APEC, using the goals, policy targets, and key indicators set forth in the APEC Action Plan on Vaccination Across the Life-Course 2021-2030 ('Action Plan').
- The Dashboard is comprised of over 15 measures directly related to the pillars in the Action Plan, as well as best practices from economies to contextualize each pillar. The measures included in the Dashboard should be considered a foundation for improving immunization coverage within the region.
- The results of the Dashboard demonstrate success in meeting several measures related to the Action Plan. To continue progress towards the 7 pillars, economies should leverage the Action Plan, which lays out the specific actions to support immunization system strengthening, development of sustainable immunization policies, and cross-sector collaboration.

Key Findings

- Consistent with global trends, immunization programs in APEC economies are strongest for pediatric populations, with all economies including recommendations for children in immunization schedules. Strategies and infrastructure for pediatric and adolescent populations, such as data collection and integration with routine health services, can inform expansion of adult and risk-based immunization programs, which are not as prominent in APEC economies.

Percent of APEC economies with immunization schedules that include recommendations for all stages of life

Population Group	Percentage
Children	100%
Adolescents	90%
Adults	86%
Older Adults	67%
Healthcare Workers	67%
Other At-Risk Populations	76%

67% include recommendations for all age groups
48% include recommendations for all population types

- Half of reporting economies do not include societal and economic benefits of vaccination in existing value assessment frameworks, limiting the information that is available on the full value of vaccination, particularly for adults.

APEC Health Working Group
Sub-Working Group on Vaccination
Vaccines Task Force
November 2022

APEC
Asia-Pacific
Economic Cooperation



bit.ly/VTFDashboard

APEC Regional Dashboard on Vaccination Across the Life-Course: Key Findings

Many economies do not include societal and economic benefits of vaccination in existing value assessment frameworks.

Consistent with global trends, immunization programs in APEC economies are strongest for pediatric populations, with all economies including recommendations for children in immunization schedules.

While many economies met >70% vaccination rates for DTP, MMR, and HPV vaccines between 2019-2021, additional efforts to strengthen vaccine access are needed to reach >90% coverage rates.

81% of APEC economies have either plans or legislation that supports financing of routine vaccines.

The results of the Dashboard demonstrate success in meeting several measures related to the Action Plan. To continue progress towards the 7 pillars, economies should leverage the Action Plan, which lays out the specific actions to support immunization system strengthening, development of sustainable immunization policies, and cross-sector collaboration.

Sustainable Financing for COVID-19 and Adult Vaccinations in 40 ADB's client countries

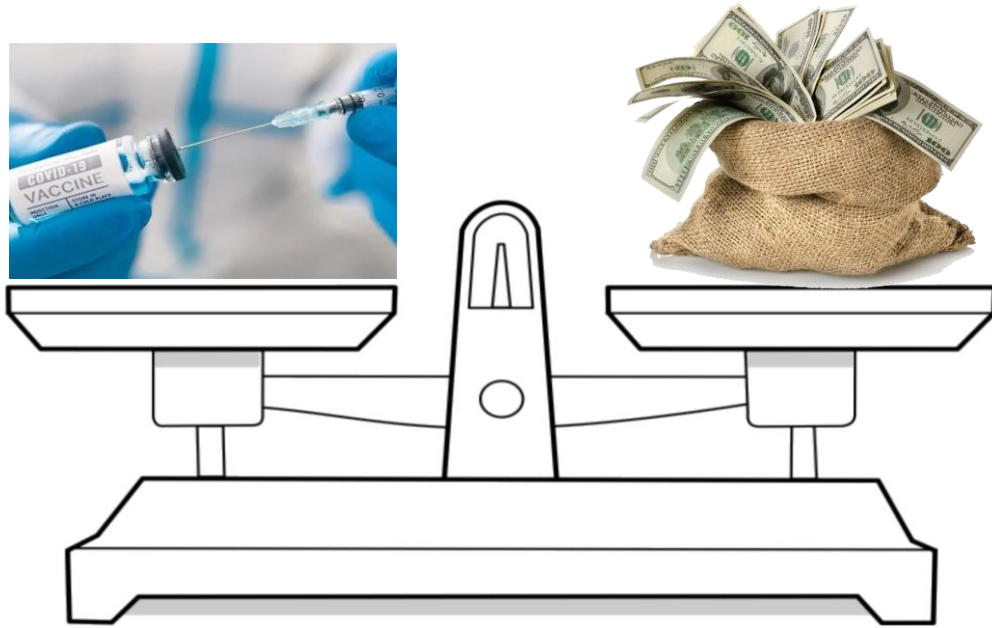
Presented by



Prof. George Gotsadze
President, Curatio International Foundation

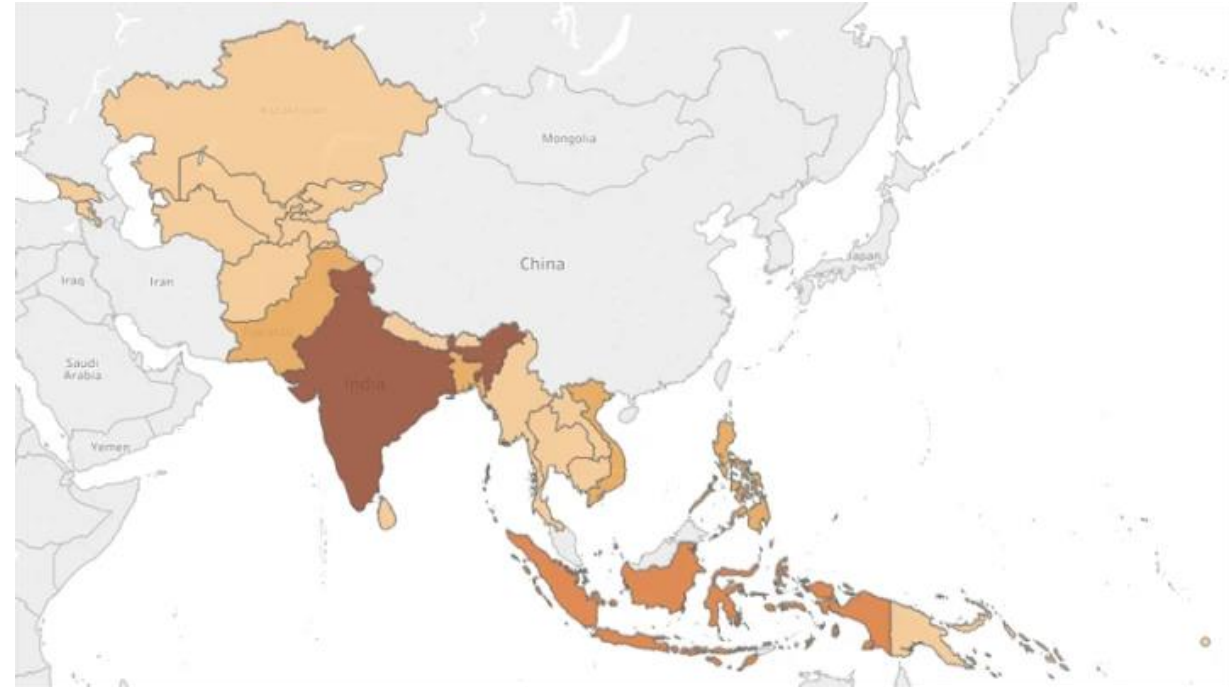


Study Objectives



Study Coverage

- **Countries:** All 40 Developing Member Countries (DMCs) of the Asian Development Bank
- **Vaccines:** WHO recommended vaccines for >18 years and included or planned for introduction in DMCs' national immunization schedule
- **Estimated costs included:**
 - **Vaccine requirements inclusive of wastage rates**
 - **Ancillary supply costs**
 - **Vaccine delivery i.e., health system costs**
- **Temporal Coverage:** 5-year period (2023–2027)
- **Fiscal impact analysis** relative to:
 - General Government expenditure and
 - Government expenditure on health

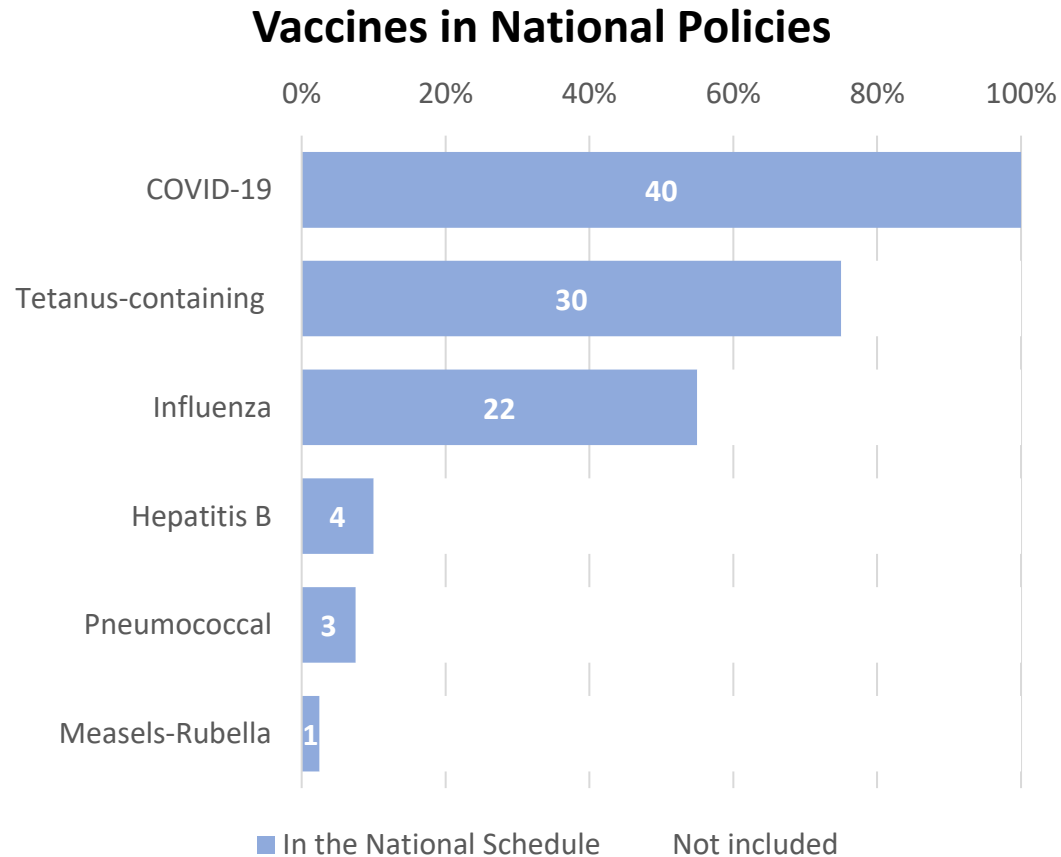


Developing Member Countries
Source: <https://www.devex.com>

A blue ballpoint pen with a silver-colored tip and barrel accents is positioned diagonally on the left side of the image. The pen is resting on a document that features a bar chart with several blue bars of varying heights. The background is a light blue and white grid pattern. The word "Results" is centered in the image in a white, bold, sans-serif font with a subtle drop shadow.

Results

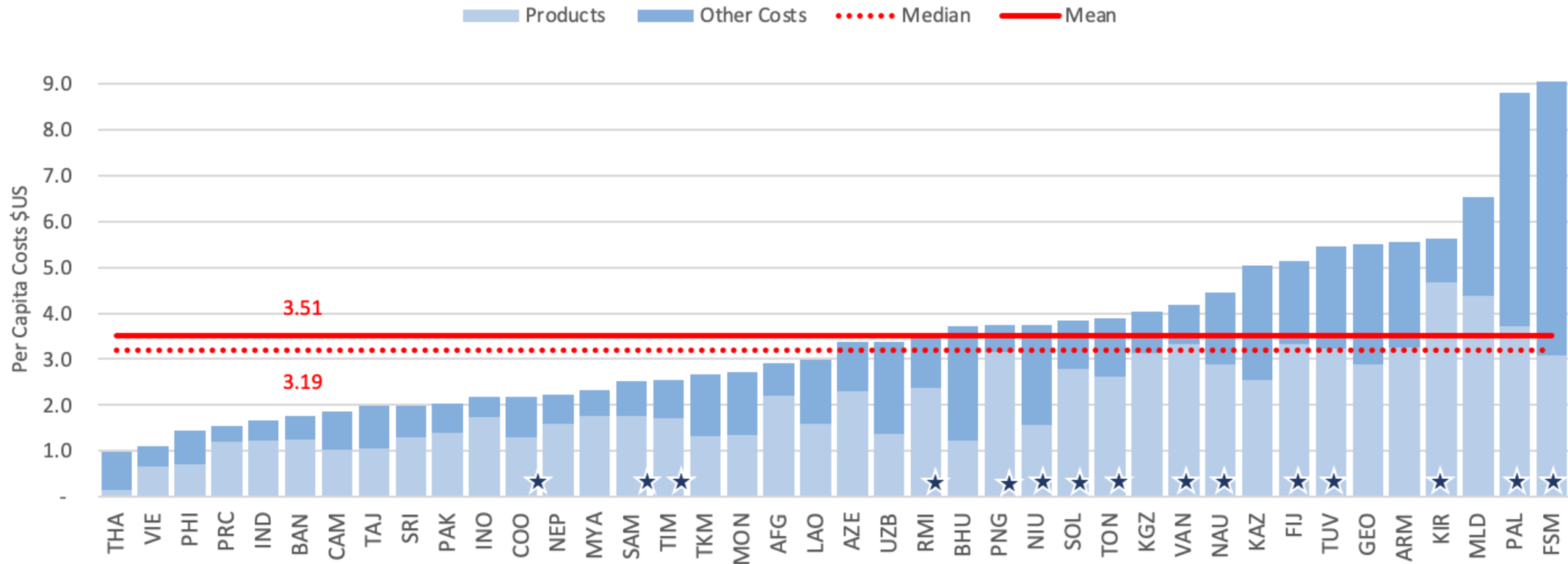
Adult Immunization Policies & National Targets



- DMCs variably adopted WHO recommendations in terms of both the selection of vaccines and the population group targeted for vaccination
- Only Armenia had coverage target for Influenza for 2023 and beyond
- Countries variable selected target groups for adult immunization and
- Achieved variable performance, different from what has been reported internationally

Total Cost of Delivering Adult Immunization

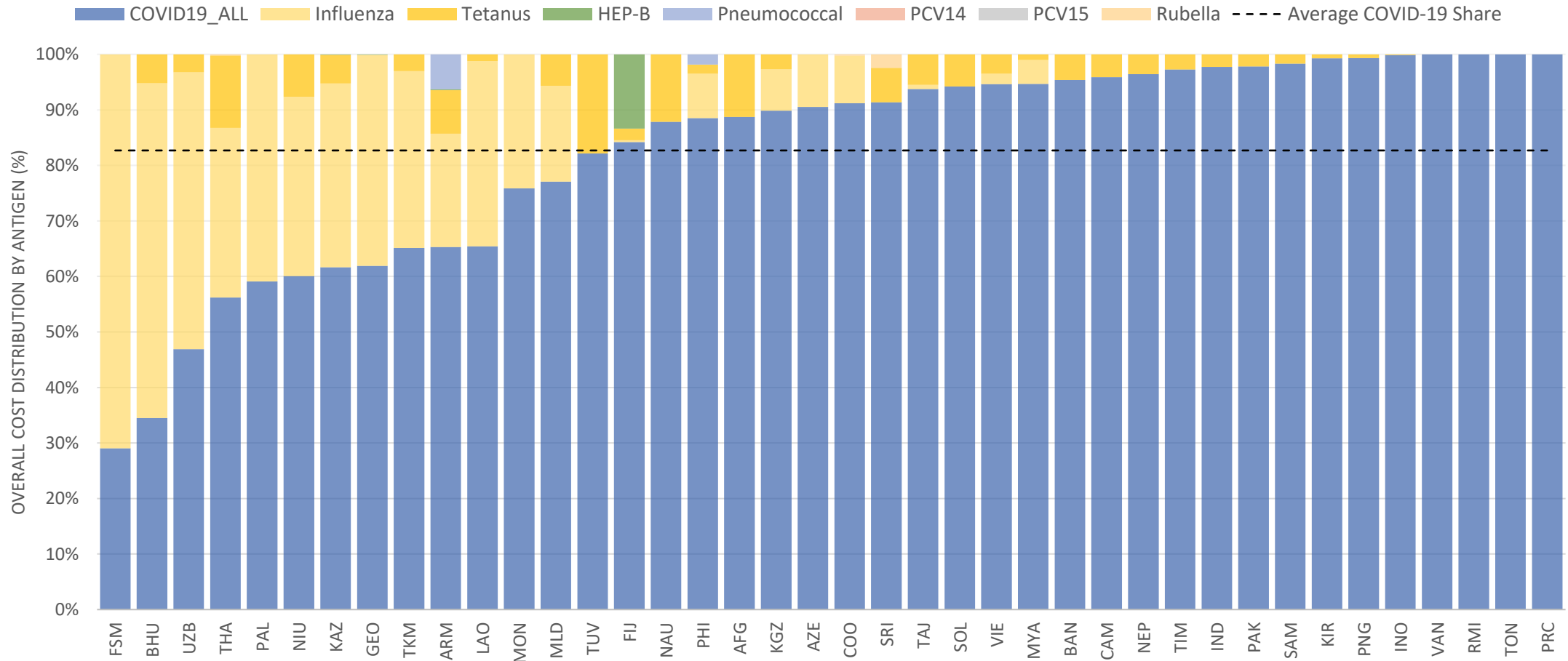
Average per Capita Cost for 2023–2027 (\$)



- There is a marked variation in the average cost per capita to deliver COVID-19 and adult immunization programs across developing member countries
- Three factors explain these differences: (i) the desired coverage targets; (ii) COVID-19 vaccine policies related to the target population and coverage targets for primary and booster doses; and (iii) high delivery costs in some DMCs, especially most of the Pacific small island developing states.

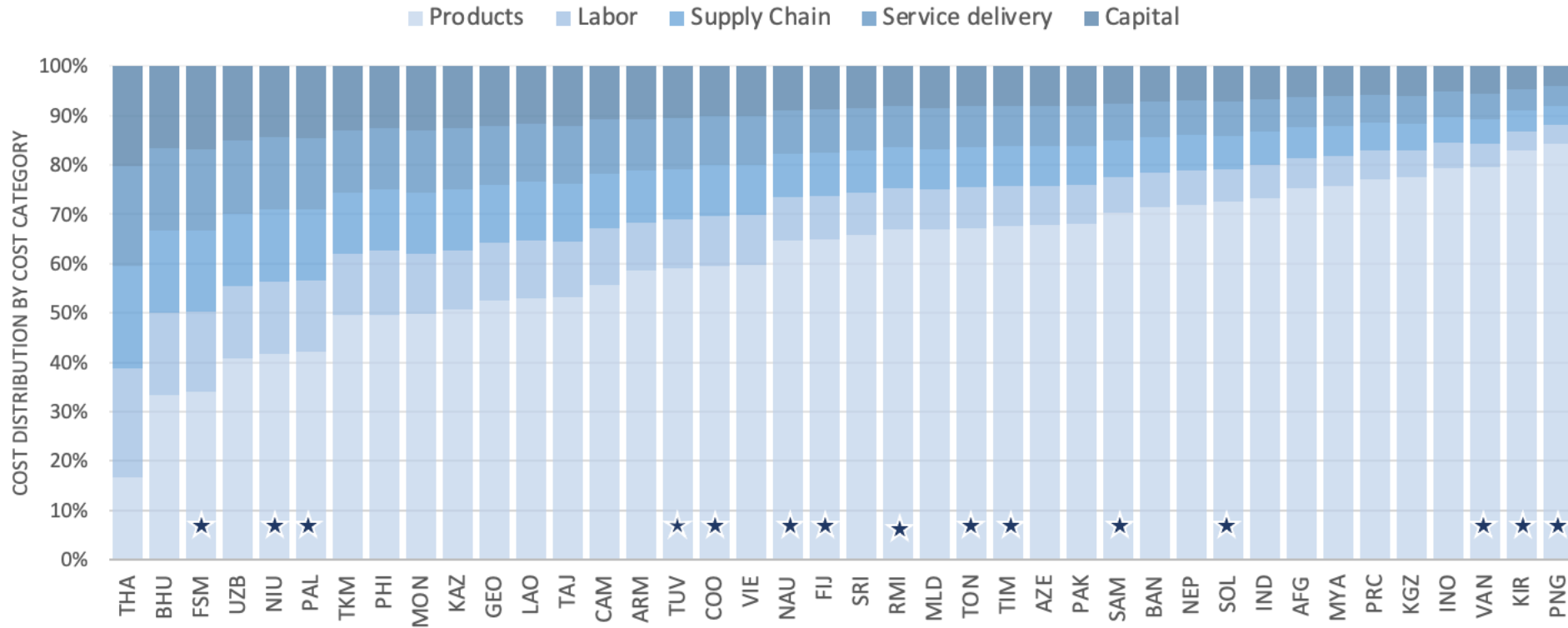
Costs by Antigen

Vaccination Program Costs by Antigen, 2023–2027



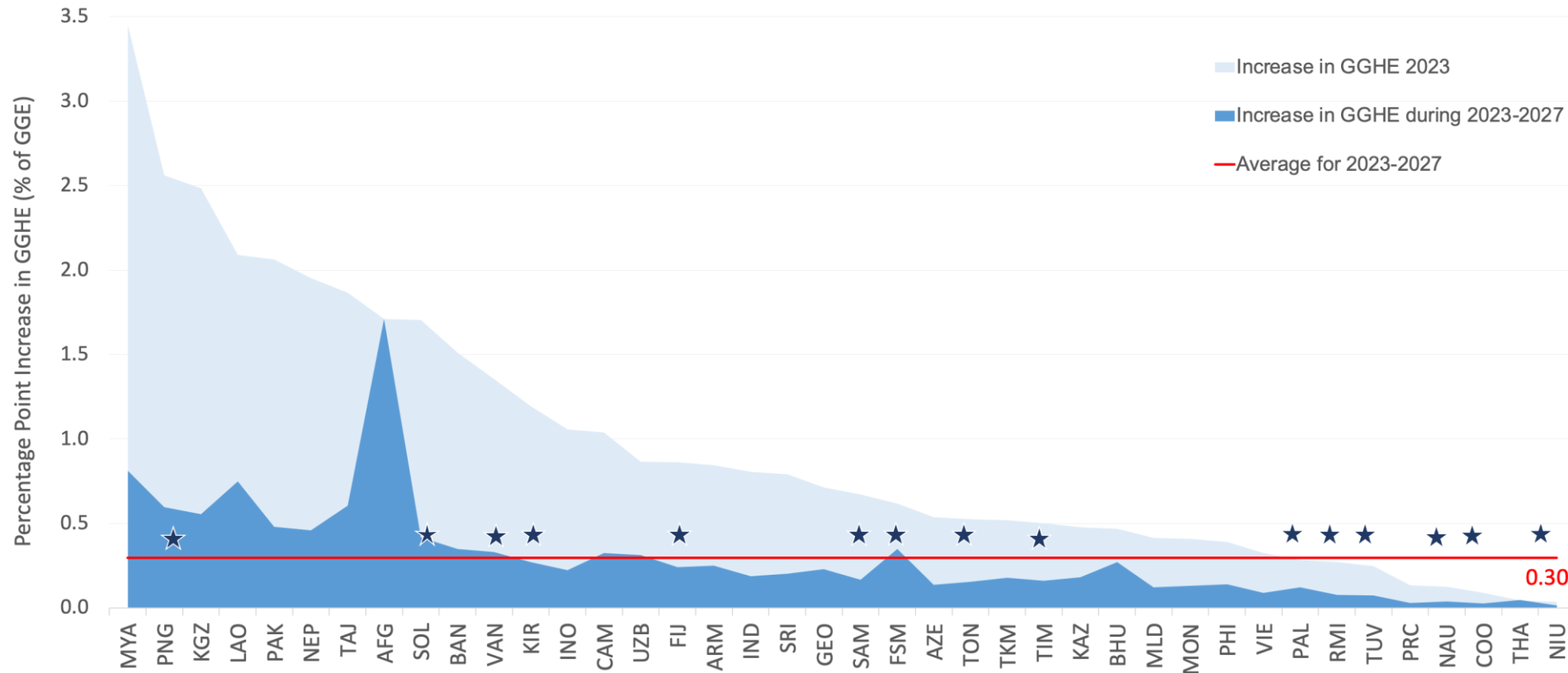
Costs by Cost Categories

Vaccination Program Costs by Categories, 2023–2027



- Vaccines and ancillary supplies constitute the major costs for adult immunization programs.
- In most countries, products (vaccines, supplies) are responsible for over 50% of the immunization program costs
- **COVID-19 vaccines cost more than all the other adult vaccines combined in most countries.**

Expected Fiscal Burden Arising from COVID-19 and Adult Vaccination Programs



- There is a considerable variation across countries in the fiscal burden resulting from COVID-19 and adult immunization programs. Obviously COVID-19 is a major cost driver.
- As a percentage of the GGHE, these programs would constitute a minimum of 0.01% of GGHE in Thailand to a maximum of 1.7% in Myanmar
- Uncertainty in delivery costs and the price of vaccines and consumables, means that there is considerable variability in the estimated fiscal impact.

Recommendations

There is need for greater education and advocacy efforts to support adult vaccination uptake on a country and regional level

Advocacy and resource mobilization will benefit from cost-benefit studies similar to those carried for childhood immunization

Optimal selection of target vaccines and population groups and vaccine coverage targets could help balance financial needs with available funding

Vaccine price negotiation or arrangements for pooled procurement could help reduce vaccine prices and in that make programs more affordable

Multi-pronged strategies would be required to increase the affordability of adult vaccination programs and build adult vaccination capacity at scale, which would help ensure immediate health gains as well as better preparedness for future pandemics.

Thank You

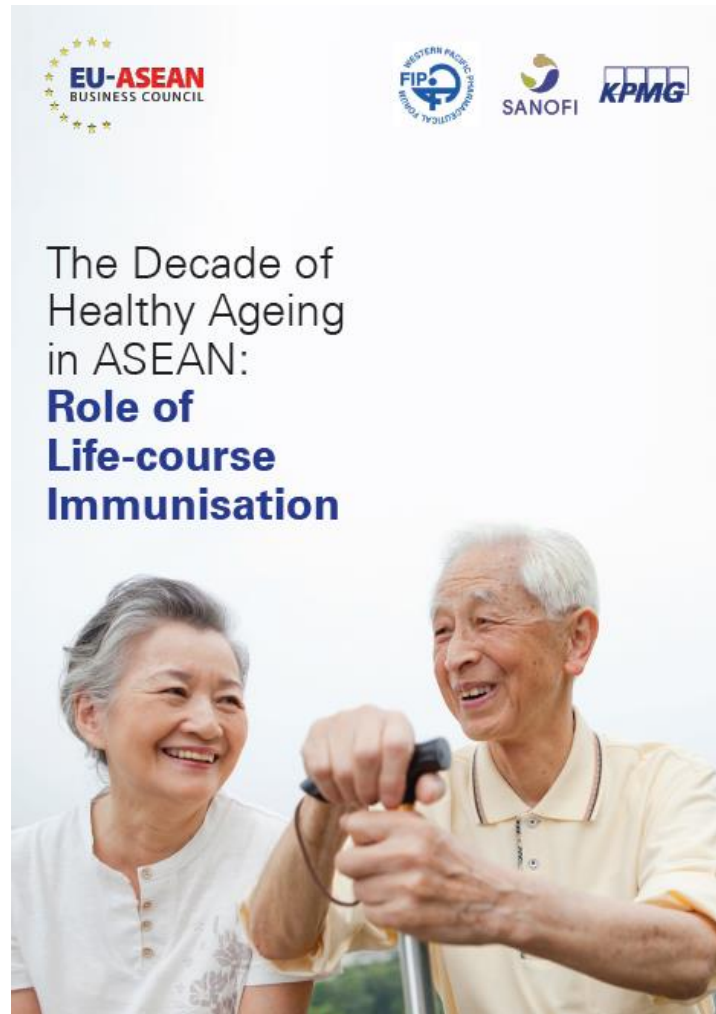
Forthcoming Publication and suggested citation

Gotsadze G, Chikovani I, Gzirishvili D, Zurabishvili N, Coghlan B, Dutta A, Yiengprugsawan VS, Osewe P, Gogvadze K. 2023. Adult vaccination in Asia and the Pacific: Policies, Financial Needs, and Fiscal Impacts. Asian Development Bank.



Life-Course Immunisation for Older Adults in Asia: A Health Economics Case

Life-Course Immunisation: Preparing ASEAN for an Ageing Society



- Immune function goes into decline as individuals age
- Vaccination remains one of the most cost-effective interventions available to protect against infectious diseases

Life-Course Immunisation: A Cost-Effective Public Health Intervention

Vaccination for elderly vaccines such as influenza and pneumococcal

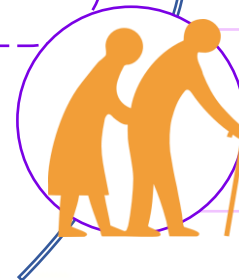


Prevent mortality following hospitalisation by **47%** in Malaysia

The COVID-19 pandemic shone a spotlight that preventive care, such as vaccination, not only saves lives, but also results in savings for the economy.



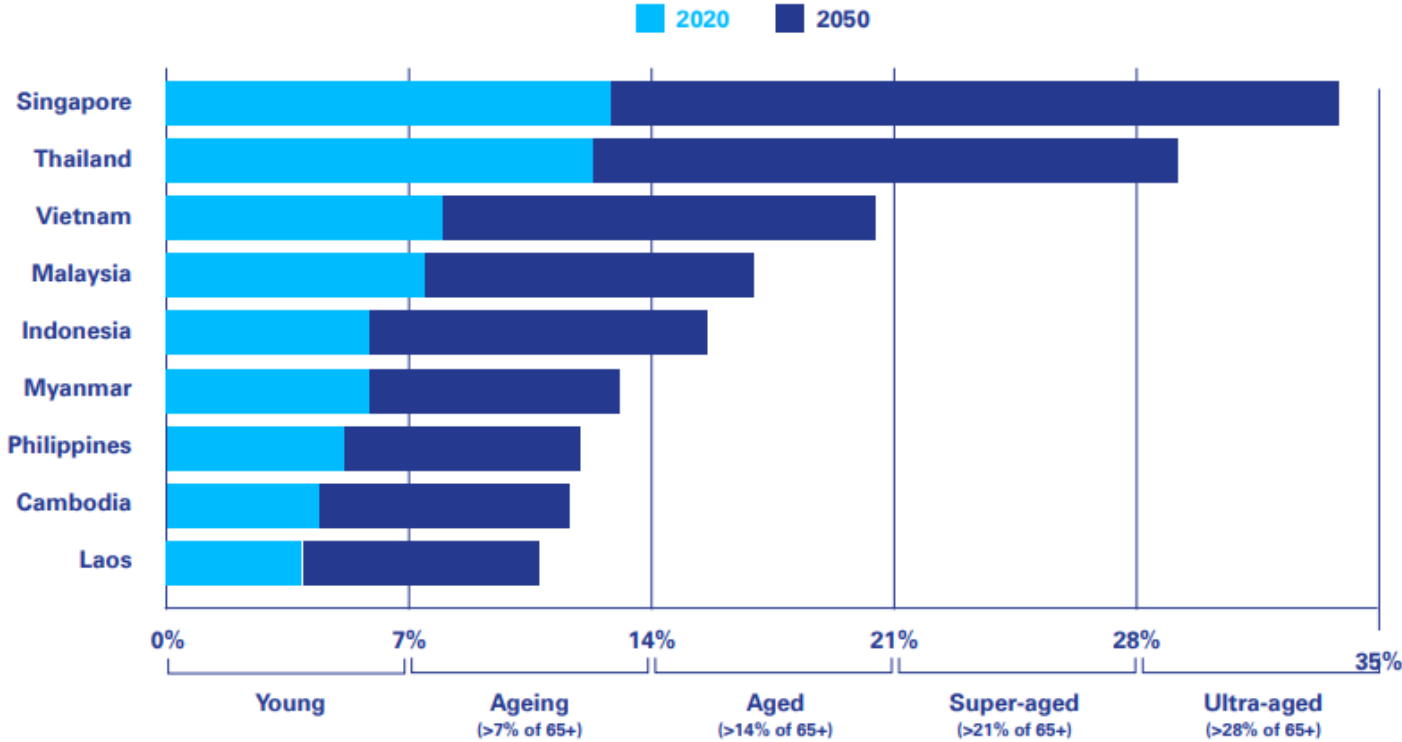
Prevents up to **77,000** mortality cases



and **5,300** excess deaths from influenza infections annually in the Philippines

Life-Course Immunisation: Preparing ASEAN for an Ageing Society

Ageing status of ASEAN countries, 2020 and 2050



By 2030, most member countries in the Association of Southeast Asian Nations (ASEAN), including Vietnam, Malaysia and Indonesia, will become ageing societies, while Singapore and Thailand will become aged ones.

Life-Course Immunisation: Preparing ASEAN for an Ageing Society

Thailand

Free influenza vaccines, for 7 high-risk groups, including the elderly

Philippines

Provide country's citizens with free vaccination against diseases (influenza virus, tetanus, shingles, measles)

Singapore

Free Vaccination for elderly >65 years

Southeast Asia falls significantly short of the 75% immunisation target rate set by the World Health Organization

Elderly vaccine is not yet part of the national immunisation programme in Malaysia, Vietnam and Indonesia.

Life-Course Immunisation: Sick Care to Preventive Care



Issues

Addressing this problem

Rapid state of ageing in ASEAN

Lack of proper implementation and widespread adoption of life-course immunisation in ASEAN



could bring about **cost savings of up to USD 50,000 per quality-adjusted life year**



Barriers to overcome

Overarching barrier: Lack of policy framework and implementation

Delivery barriers: Lack of awareness and vaccine hesitancy

Financial barriers: Lack of financial support rendered to older people for vaccinations



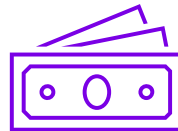
Life-Course Immunisation: A Health Economics Case



Objectives:



Make the case for the **value of life-course immunisation** and its **increased investment** in Southeast Asia among key decision makers, such as policymakers



Drive real-world health economics solution, by proposing innovative healthcare financing models that can be utilised to expand immunisation programmes to include the elderly population

Who is eligible?

Categories:

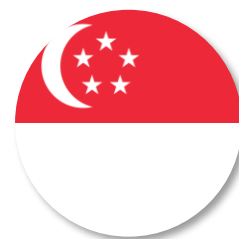
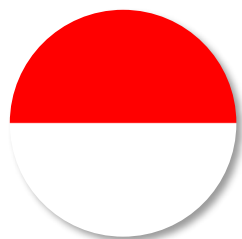
Rising Stars

Aged between 18-31 years old, and currently enrolled in an educational institution or with five years or less of professional working experience in healthcare/public policy/health economics

Working Professionals

Aged 32 years old and above or with at least eight years of professional working experience in healthcare/public policy/health economics

Participating countries:



To learn more about the ideation initiative, visit:

<https://healthyagingasean.org/life-course-immunisation-for-older-adults-in-asia/>

or scan the QR code below



Panel discussion

A quick introduction of our **Panellists**

Moderator



Chris Humphrey
*Executive Director,
EU-ASEAN Business Council*

Panellist



Prof. George Gotsadze
*President, Curatio
International Foundation*

Panellist



Lois Privor-Dumm
*Director, Adult Vaccines,
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Bloomberg School of Public
Health*

Panellist



Dr Ryan MacFarlane
*Director, Crowell & Moring
International & Asia-Pacific
Economic Cooperation
(APEC) Vaccines Task Force
representative*

Question & answers

Closing remarks



Ada Wong

*Head of Public Affairs, Vaccines, JPAC &
Asia, Sanofi*

For populations to age healthily tomorrow, we need to invest in vaccines today




Ground-up advocacy and **strong political will** are key to drive vaccine action



Concerted effort to drive **recognition of the wider socioeconomic benefits** of immunisation



Tailored innovative financing models are needed for countries with varying resources

	<p>Registration opens for submission 26 Sep 2023 – 17 Nov 2023</p>
	<p>Submission deadline 17 Nov 2023</p>
	<p>Closing webinar <ul style="list-style-type: none"> • Announcement and presentation of best submission 05 Dec 2023 (Via Zoom)</p>

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