

Improving access to affordable supply

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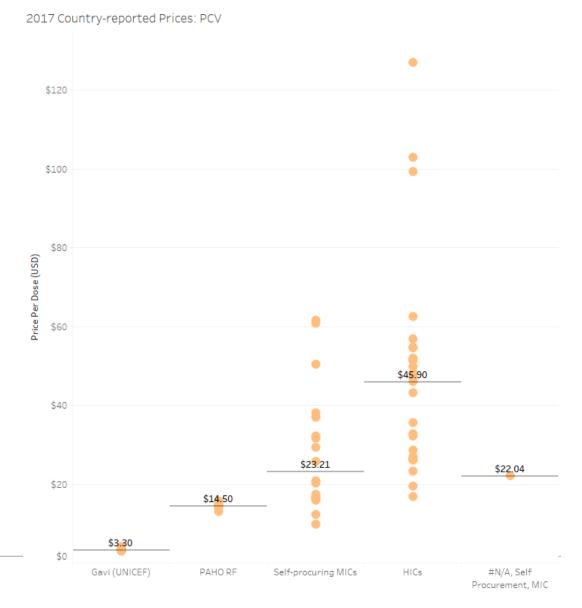
## Vaccine price transparency into context

The access landscape for vaccines:

- Gavi the vaccine Alliance support to the poorest countries (73) of the world
- The Bill & Melinda Gates Foundation and other entities (e.g. PATH) are active in market shaping in the Gavi market
- UNICEF & PAHO act as pooled/centralised procurement entities

Vaccine Price is key to sustainable immunization programmes

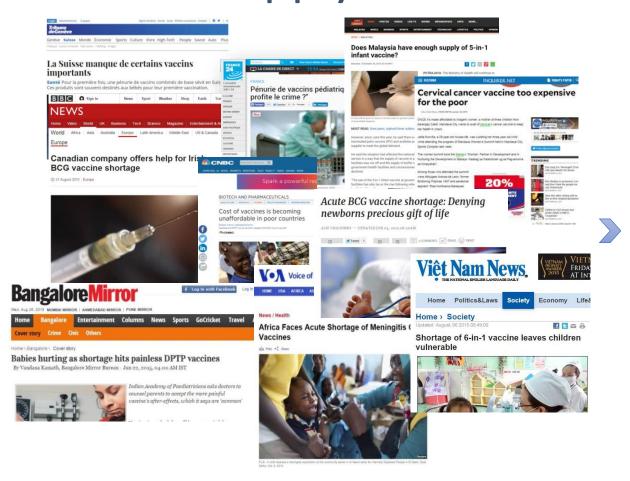
Yet it remains one of main obstacles to access







## The WHA has repeatedly called for action on access to vaccine supply





- Total of 50 WHA Global Resolutions on access to medicines and vaccines + 45 regional Resolutions
- Over 60 member states spoke at 71<sup>st</sup> WHA on vaccine shortages, high prices, continuous need for information/support
- WHO Access Roadmap for 2019-2023 to enhance access to medicine and vaccines aligned with GPW13





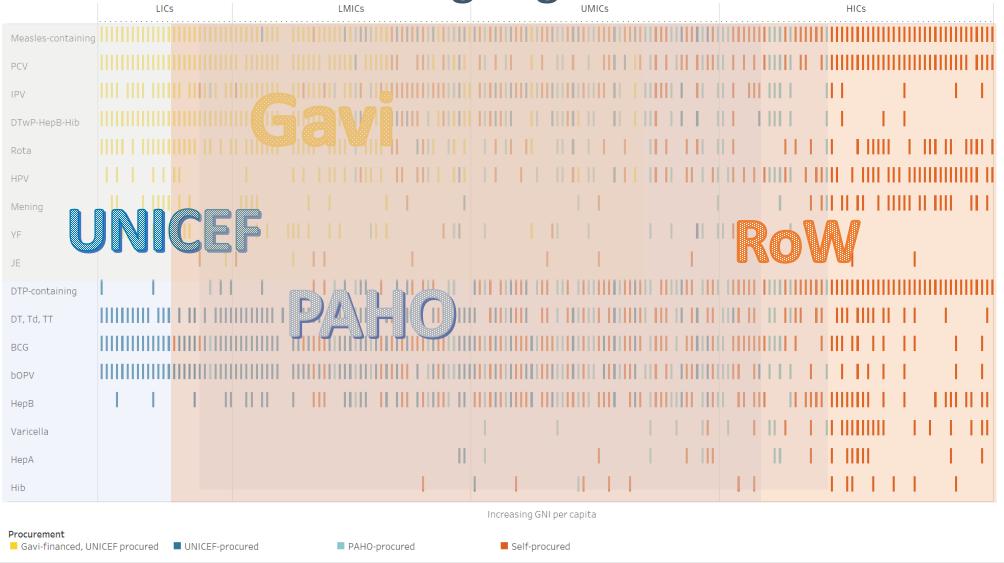
# MI4A as part of the solution

How do we work?





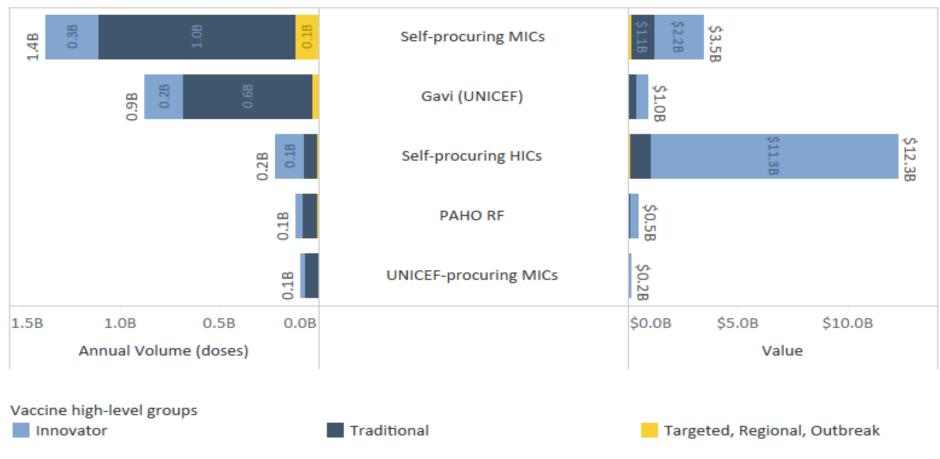
## Access efforts: the missing segment

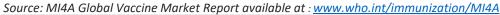






## Self-procured/funded vaccines represent about 60% of market volumes and 90% of the value









## MI4A to inform global and local access strategies

Enhance the **understanding** of <u>global</u> vaccine demand, supply and pricing dynamics and identify affordability and shortage risks



ACCESS TO VACCINES

**Convene** global health partners to define strategies and guidance to address identified risks – <u>focus self-procuring/funding countries</u>

Strengthen **national and regional** market understanding for improved access to vaccines supply

MI4A builds on the success of the V3P project and on 2017 successful BCG and D&T pilots





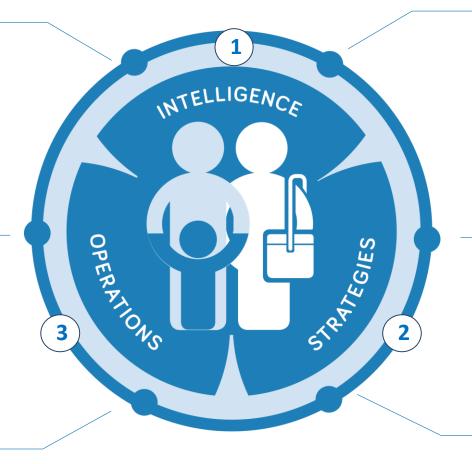
## MI4A key areas of action

## 1.A Collection & quality control of price/procurement/demand/supply data

Outputs: yearly updated data set with global vaccine market information made public

### 3.B Providing **technical assistance** to countries

Output: countries supported to make appropriate use of available information



#### 1.B In depth global market analysis

Outputs: 2 global vaccine specific market studies yearly Global vaccine market report Study of specific market dynamics

#### 2.A Information sharing ecosystem

Output: policy makers, regulators, industry, countries, partners use information on relevant market dynamics to inform their actions

#### 3.A Developing guidelines/tools

Output: e.g. transitioning country pricing fact sheet; MI4A country purchase fact sheets; MI4A regional fact sheets

## 2.B **Guidance & strategies** to enhance affordability and availability

Output: E.g. TT-Td replacement; SAGE recommendation on best use of scarce HPV supply





## Key achievements

What progress have we made up to present?

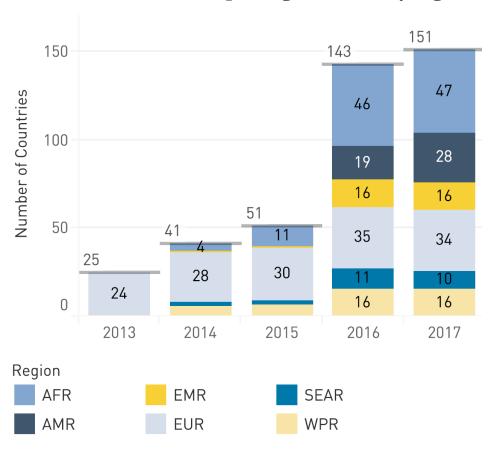




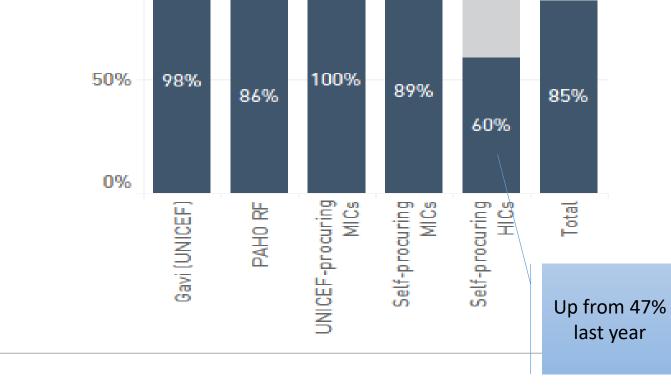
## Great advances in vaccine market intelligence

100%

Number of countries reporting over time by region & share by income group



 $Source: WHO\ JRF/V3P\ 2018-all\ data\ available\ at: \underline{www.who.int/immunization/MI4A}$ 







## Improved understanding of cross cutting market dynamics

Factors that influence price for self-procured purchases - both GNI per capita and volume showed statistically significant associations with price:

On average, a 1 million-dose increase in the vaccine purchase volume is associated with a 1.7% decrease in the vaccine price

On average, a \$1,000 increase in a country's GNI per capita is

associated with a 5.5% increase in the price of a purchased vaccine

The relationship between price and contract length is not significant

Source: MI4A, for more information see Global Vaccine Market Report 2018 available at www.who.int/immunization/MI4A



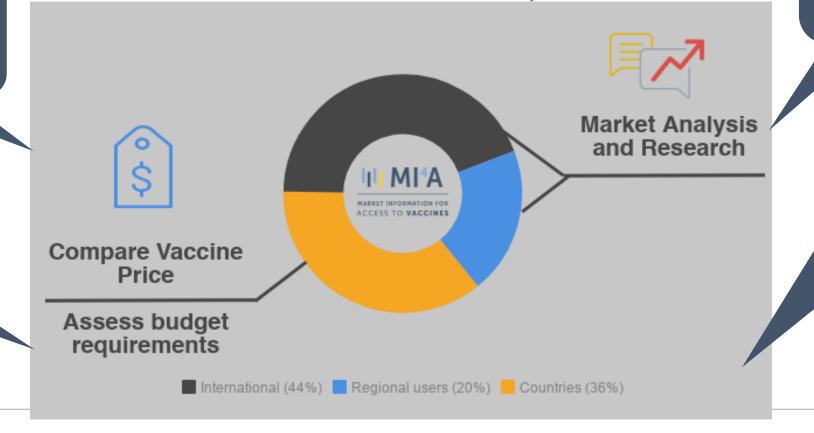


### Increase in use of data

MI4A database used to inform negotiations in HPV Price

Data used in market research in Baltic States

Gavi Market Shaping Externalities project



Use price as input to country wastage calculator

MI4A data to inform decisions on new vaccine introduction in MICS





# Looking ahead

Key priorities

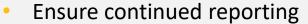




## Country engagement

OBJECTIVES TARGET TACTICS

#### **ENHANCE DATA COLLECTION**



- Target non reporting countries
- Move towards prospective data collection



Outreach, dissemination strategy, communication
Targeted advocacy
Process for data collection out of JRF

### **ENHANCE AND DOCUMENT USE OF MI4A DATA**

- To inform new introductions and product switches
- Support planning and budgeting
- Procurement and negotiations

Self procuring MICS Document and analyze use
Priority countries: new intro, low
coverage
MI4A reports and factsheets,
meetings/workshops



Country

engagement

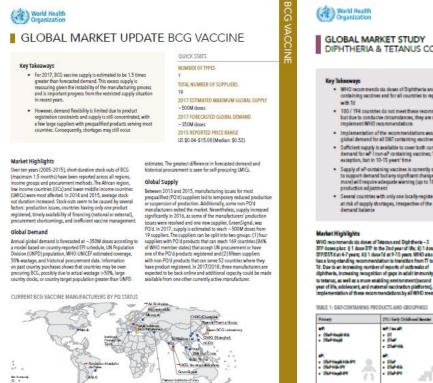


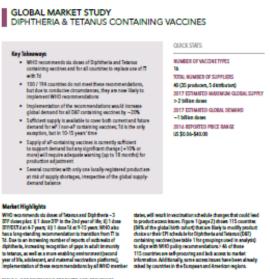
PARTNERS KEY: CONTRIBUTION Includes MSF, Save the Children – focus on advocacy UNICEF – coordinated support to countries WHO regional and country support

## Thank you!



### In depth global understanding of 4 markets dynamics and risks





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YORD HEIGH DRIVING HOR / GLOBAL MARKET STUDY



to understand current and future global trends and drivers of

supply and demand, this study aims to address the current and

expected constraints and to serve as an important resource for

(6,11,16,18) and HPV9 (6,11,16,18,31,33,45,52,58)

WORLD HEALTH ORGANIZATION / GLOBAL MARKET STUDY

3WHO/IVB Database, as of 15 May 2018



coine Subtypes differentiate by the antigen content of the various HPV vaccines, in this case there are three distinct vaccine sub-types available on the market: HPV2 (16.18), HPV4

Currently three HPV vaccine sub-types are available on the

market: GSK's Cervarix (HPV2), using the proprietary ASO4

both using alum adjuvant. Merck's two products are also

adjuvant, and Merck's Gardasil (HPV4) and Gardasil 9 (HPV9),

Sinergium Biotech in Argentina). Distribution agreements exist

ized by two licensors (Instituto Butantan in Brazil and

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#### GLOBAL MARKET STUDY MENINGOCOCCAL MENINGITIS

- . The meningococcal vaccine market is diverse and complex with regional variations in serogroup epidemiology, significant non-routine use of vaccines, and 29 marketed products targeting various combinations of the six serogroups (A, B, C, W-135, X, Y)
- · MNCs have discontinued production of polysaccharide vaccines, reducing country access, particularly for MICs
- Without increases in production, available supply of conjugate MenACYW-135 will be insufficient to meet demand growth triggered by rising incidence of serogroups C and W and reduced availability of
- LICs, MICs and the WHO Global Stockpile struggle to access multivalent and conjugate vaccines due to limited supply and high cost
- Several multivalent, conjugate vaccines by Indian and Chinese manufacturers are in the pipeline and, if prequalified or widely registered could provide additional supply
- . The mid- to long-term assessment of this market will be developed following the completion of the Global Roadmap to Defeating Meningitis in 2030 that will provide improved epidemiological data and country-specific goals

#### NUMBER OF TYPES

#### 12 vaccine types

29 distinct products TOTAL NUMBER OF SUPPLIERS

2017 ESTIMATED GLOBAL SUPPLY

#### ~200M doses

2017 FORECASTED GLOBAL DEMAND

~170M doses

2017 REPORTED PRICE RANGE

US \$0.51-\$100 (median: \$19.25)

#### **Context and Rationale**

Despite broad and effective engagement from the global health community in Meningitis A (MenA) vaccination in the Meningitis Belt, low manufacturing capacity, increasing demand, and high prices across other meningococcal vaccine types have impeded access to these vaccines over the past several years. These longstanding access issues and the development of the WHO's Globa Roadmap to Defeating Meningitis by 2030, which will set goals for disease control and vaccination for meningococcal meningitis on a global level, requires a more in-depth understanding of global mand and supply for meningococcal vaccines. This study seel to provide a baceline understanding of the plobal landscape of supply and demand, outline market trends that may impact future supply and demand and identify actions to improve access for meningococcal vaccines in the short term 2

#### Supply and Price

While the meningococcal vaccine product landscape is highly varied with 17 manufacturers3 producing 29 marketed products and the Serum Institute of India (SII) are the only suppliers that have significant reach outside of domestic markets. For MenACYW-135 specifically, nine products are available across polysaccharide and conjugate, but conjugate products are ecommended for use in routine immunization activities, and though the three conjugate products available from MNCs are

across 12 distinct vaccine types (Table 1), few products are truly

and in particular for MenACYW-135, which is the most desirable

interchangeable, creating inflexible supply for most vaccine types

combination given its broader serotype coverage. Overall, 12 of the

currently only available in China, Multinational companies (MNCs)

widely registered, the high price and low manufacturing capacity limits access for countries.4 In 2017 the median price reported by countries for the three conjugate MenACYW-135 vaccines was

The number of prequalified (PQ'd) products is very limited. Only four vaccine products across two vaccine types (conjugate MenA and

gitis strategy. Future updates to this study will incorporate a longer-term perspective once these targets and reliable epidemiological data become available

CNBG (China National Biotech Group) operates four different companies producing or developing meningococcal vaccines. Each company is independent in its efforts and capacity and therefore is recovered as a separate entity immuniciping of the ownership and common strategic disection. \*WHO Meningococcal Vaccines Position Paper, 201

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Source: MI4A, all studies available at www.who.int/immunization/MI4A

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