# HPV vaccine supply landscape: current scenario and future perspective

**HPV Board Technical Meeting** 

"Impact of COVID-19 on Cervical Cancer Screening, Treatment and Vaccination" - 12 November 2020

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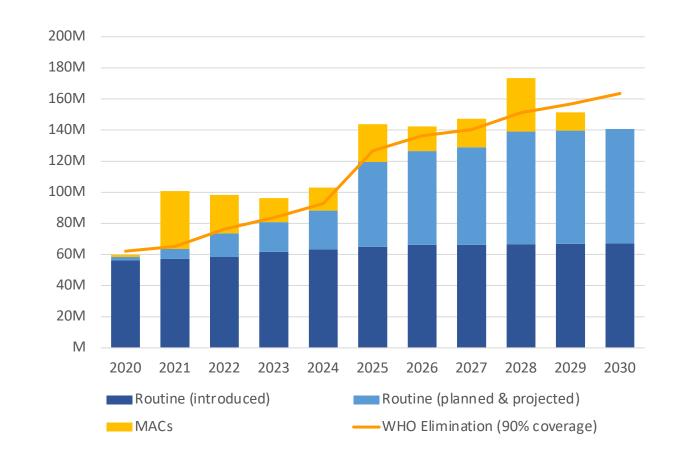
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### Recap of the HPV vaccine market situation: demand

#### The factors that led to sharp increase in demand curve for HPV vaccine

- A rapid shift from pilots to national programmes by countries receiving support for HPV vaccination from Gavi
- A recommendation by WHO to immunize a multiage cohort (MAC) when introducing HPV vaccine
- A rapid shift by high-income countries from vaccinating adolescent girls to also vaccinating boys and adults

In 2020 WHO Member States have adopted the Global Strategy towards the elimination of Cervical Cancer: through national introductions in all countries and increased coverage, demand to reach **160M doses or more per year by 2030** 

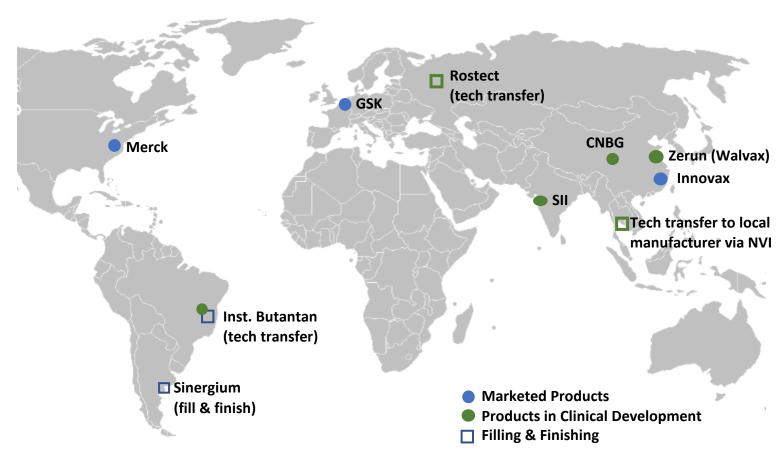




## Recap of the HPV vaccine market situation: supply

#### Despite investments in in production, supply has fallen short of demand

- Supply constraints began in 2017/18: investment have been unable to keep up with sharp increase in demand
- Due to overriding country preferences for one product, one supplier reduced investments and considered market exit
- New market player joined since late 2019: currently there are 3 manufacturers with 2,4,9 valent products. 2 selling internationally
- 3 companies have products in phase III (2 and 4 valent)
- At least 2 more companies are working on tech transfers
- Price range reported: US 4.55 to US\$178





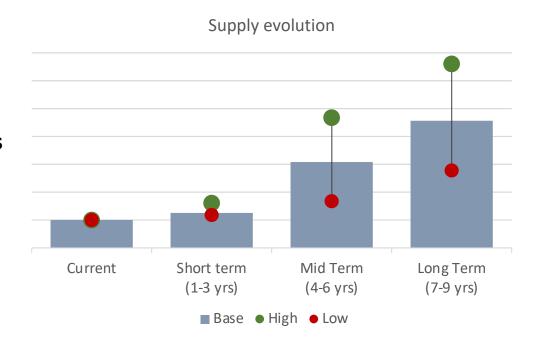
#### **Short term perspective**

- Over the past 18 months, countries have calibrated their demand based on projected vaccine supply and in line with the WHO SAGE recommendation. For instance, they have mostly excluded immunizing multi-age cohorts (MACs) and postponed introductions.
- Because of this and because of the downward pressure of Covid-19 on immunization rates, WHO estimates there is currently enough HPV vaccine, in principle.
- However, in practice there can still be mismatch between supply and demand and some countries may still be unable to serve their populations. This can be due to i) country preference for one specific vaccine product, ii) supplier allocation decisions, as well as iii) country plans to catch up on missed vaccination rounds due to COVID-19.
- In short, demand and supply will require close calibration/management until around 2024.



#### Long term perspective

- Supply to slowly grow in the short term, followed by steep ramp up from year 4-5
- Available supply for commercialization may vary by +/-50% driven by manufacturers decisions and success in development/scale-up
- By 2024, the increases in production capacity should be in effect and the supply shortages resolve. Nevertheless, the ability to serve all countries and meet Global Elimination goals will depend on
  - a) success of development and investment efforts by companies and
  - b) countries following through on their plans to introduce HPV vaccine, despite the numerous challenges raised by COVID-19 and
  - c) country acceptance of different vaccine products.





#### What's next?

The below factors will be key in optimizing access in 2021 and the scale-up of production through 2024:

- Acquiring visibility on COVID-19 impact on global HPV vaccine demand as well as supply and manage continuous alignment of supply and demand
- Advocating for country consideration of all available, quality-assured HPV vaccines;
- Enhancing the success, time to registration and prequalification as well as level of available supply from the manufacturers with licensed products and programmes in advanced stage of clinical development.
- Continue exploring opportunities to increase supply flexibility through optimized schedules

WHO convenes a Global Dialogue as a multilateral discussion for identifying specific actions to reduce supply risk, and contributing alignment of supply and demand





#### Thank you!

