

## **Healthy Markets Framework**

The Healthy Markets Framework (HMF) is a key strategic tool developed by Alliance partners in 2015 to enable a clear and consistent definition of what constitutes market health. The main aims of the HMF were to: (i) have a common way of thinking about market health; (ii) better communicate how the Alliance assesses individual markets; and (iii) improve how potential trade-offs between different market elements are analysed.

Based on experience from Gavi 4.0, the HMF has been regarded by Alliance partners and wider stakeholders as being an important first step in taking a comprehensive perspective towards identifying market issues and solutions. Learnings from 2016-2020 have also identified the key limitations of the HMF:

- Need for more formalised representation of demand
- Ambiguity in assessing the individual market attributes
- Lack of clarity on the inclusion of innovation
- Limited applicability of predefined attribute priority level for some markets
- Measure of progress does not take into account individual market needs

The HMF is updated to address the above limitations and to align with the Gavi 5.0 market shaping priorities. Additionally, as part of Gavi's regional manufacturing strategy the HMF was updated in 2024 to include a new dimension on the degree to which regional diversification across suppliers mitigates geopolitical and health security risks in each market.

# Healthy market attributes reflecting market shaping priorities

The new iteration of the HMF is designed to represent the three market shaping priorities by aligning healthy market attributes with the priority pillars, thus ensuring market health considerations reflect Gavi's objectives for the 2021-2025 period. Updated HMF attributes capture market conditions from demand health, supply dynamics, and innovation perspectives. Additionally, a fourth dimension has been added in 2024 on geopolitical and regional diversity risk.

The addition of demand health attributes is a key change for the new HMF iteration, and allows the framework to be more comprehensive by also identifying market challenges rooted in demand side dynamics. While attributes pertaining to supply dynamics and innovation already existed in the previous iteration, they have been reframed to better reflect the concept of supplier sustainability and to clearly align with Gavi's overall 5.0 innovations strategy. These updates also address some of the key limitations identified through 4.0 lessons learned.

In December 2022 the Gavi Alliance Board approved a four-pillar **regional manufacturing strategy** to support strengthening vaccine supply resilience at regional levels. Pillar 2 of the strategy sought to adapt the HMF and Gavi's Product Menu Criteria to facilitate the listing and adoption of new regional products. This strategic priority was implemented by adding a new dimension to the HMF on geopolitical and health security exposure. Within this dimension, a new HMF attribute was defined on **geopolitical and regional diversity risk**, defined as "the degree to which regional diversification across suppliers mitigates geopolitical and health security risks".



#### Detailed HMF attributes and attribute drivers

HMF Criteria	HMF Attributes		Market Rationale	
Demand health	Materialisa -tion of demand	The degree to which country introductions and campaigns materialise	Global disease management (and CCE) guidelines	Do Global guidelines (i.e. vaccination strategy / schedule guidelines, SAGE recommendations, CCE guidelines) & their timeliness support demand materialisation and/or predictability?
			Donor funding policies and processes	Do donor funding policies, guidelines, processes and decision/approval timelines impact demand materialization and/or predictability?
	Predict- ability of demand  Balanced demand of appro- priate products & timely uptake of new innovative products	The degree to which both the quantity and timing of demand can be accurately predicted and sustained by countries  The degree to which country product choices are data-driven, value-based; leading to balanced demand for appropriate products & timely uptake of new innovative products	Country capacity to effectively prioritise across vaccines and public health interventions	Do countries have sufficient capacity to make vaccine introduction prioritisation decisions, based on available data and considerations appropriate to their context?
			Country regulatory system functionality & harmonisation	Do regulatory process inefficiencies impact demand materialisation (due to delayed access to vaccines/products)?
			Country availability and sustainability of funding for vaccine/CCE programmes	Do country funding availability or sustainability issues impact (or are they expected to impact) demand materialization or predictability over time?
			Country capacity to effectively plan and implement introductions/campaigns	Do countries have sufficient capacity to effectively implement program (disease/CCE) strategies/ guidelines/ decisions?
			Capacity to accurately forecast needs and demand dynamics over time	Are country forecasting capacities sufficient to predict future demand for products (antigens / presentations / CCE)? Are global demand forecasts well coordinated?
			Country capacity to effectively assess value of product choices & implications	Do countries have sufficient capacity to make evidence- based product choice decisions (intro/switch), based on available data and rational considerations?
			Country willingness to use and pay for available products (including appetite to consider switching)	Is there political will to implement evidence-based product switch or introduction decisions, and pay for value-add innovations? Are there other factors or stigmas impacting usage (e.g., origin of vaccine, vaccine hesitancy, national policies, or religious beliefs)?
Supply dynamics	Market sustain- ability & attractive- ness	The degree to which the market remains sufficiently attractive for incumbent suppliers to remain or for new suppliers to enter  The magnitude of risk that doses cannot be released or exported from the country of production	Potential market size	Is the maximum potential market size, independent of current supplier landscape, attractive for incumbent and new entrant suppliers?
			Long-term incentives	Does the market present sufficient incentives, given its current supplier and pipeline landscape, to keep incumbent and attract new entrant suppliers?
			Sustainable competition	Is the supplier competitive dynamics sufficient and can it be sustained for the long-term?
	Regulatory / NRA risk		Policy & legislation	Does the country of production have laws that allow the export of doses produced in the country and have a positive track record of lot releases?
			NRA risk	Are NRAs functional with low risk of changing status due to technical or political reasons?





HMF Criteria	HMF Attributes		Market Rationale	
Supply dyna- mics (continued)	Supplier base risk	The magnitude of risk that a supplier will be unable to supply expected doses	Supplier diversity	How concentrated is the market's supplier base (for fill/finish and bulk sourcing)?
			Supplier technical risk	Do suppliers have strong technical capabilities with low track record of production interruptions or shipment delays?
	Meeting country product preference	The degree to which available supplies can meet countries' product choices	Supplier sustainability	Are suppliers' overall business across their portfolios viable?
			Products meeting country programmatic needs	Are the characteristics of available products programmatically suitable for countries?
			Buffer capacity	Are there additional supply available to meet unforeseen increase in demand or decrease in supply?
	Supply meets demand	The degree to which the overall supply can meet total forecasted demand	Global demand level	Is supply sufficient to meet demand at the global level, including non-Gavi MICs and HICs?
			Meeting Gavi demand	Is the volume of doses offered to Gavi supported countries ≥ the volume of demand required by Gavi supported countries?
Inno- vation	Incenti- vising & Scaling Up Inno- vations	The degree to which ongoing innovations address countries' unmet needs and may be adopted by countries in the future	Clear pathway to country uptake	Is the pathway to country uptake for the innovations is clearly defined? (e.g., SAGE policy, procurement / financing mechanism, introduction pathway)?
			Clear public health value / impact	Do innovations provide a clearly articulated public health value / impact, i.e., expected benefits / trade-offs?
			Clear country needs	Do innovations in the pipeline address clear country needs not met by available products?
Geo- political & health security exposure	Geo- political and regional diversity risk	The degree to which regional diversification across suppliers mitigates geopolitical and health security risks	Regional diversity	Does the market have a high degree of regional diversification for drug substance limiting geographical supply security exposure?



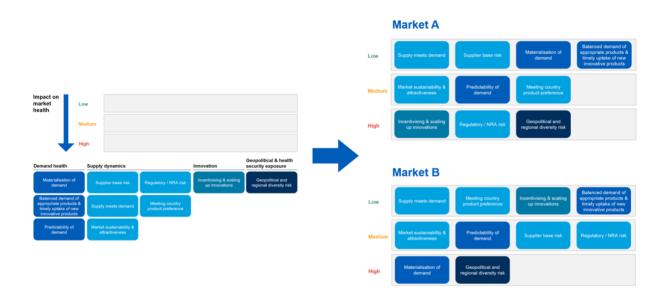
### Diversity of market conditions that define market health

Vaccine markets evolve along different trajectories, and the markets that Gavi operates in are in varying stages in their evolution towards market maturity. Different types of markets (e.g., routine versus outbreak vaccine markets) will also vary in their conditions and needs, even when in the same stage of market maturity.

In order to provide the flexibility needed for a single framework to capture the nuances of different market types and market maturities, attributes may be assigned different priority levels specific to each market.

The flexibility in structuring market attributes by level of impact on market health allows the HMF to clearly signal within the context of specific markets the level of relative importance of each attribute and associated challenges that may require market interventions.

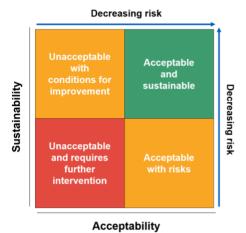
Illustrative examples of potential market-specific HMF structures



Indicators of market health have also been redefined based on acceptability of market conditions and risks, so a portfolio view of all markets within which Gavi operates can better communicate the relative health amongst markets.



#### Updated market health categories



Unacceptable and requires further intervention	<ul> <li>Majority of high and medium impact attributes are unmet</li> <li>No improvement is expected without further Alliance intervention</li> </ul>		
Unacceptable with conditions for improvement	<ul> <li>Majority of high and medium impact attributes are unmet</li> <li>Improvements possible and expected with lead time to materialise</li> </ul>		
Acceptable with risks	<ul> <li>Majority of high and medium impact attributes are fully met or partially met</li> <li>Interventions are required to mitigate risks</li> </ul>		
Acceptable and sustainable	<ul> <li>Majority of high and medium impact attributes are fully met or partially met</li> <li>Monitoring required to ensure risks to not increase</li> </ul>		