Overview: Foot and Mouth Disease Vaccine Challenge Project

Background and Project Goals

Foot and Mouth Disease (FMD) presents a global threat to animal trade and national economies. Endemic throughout Eastern Africa, FMD can devastate livestock productivity and severely compromise small-scale farmers' livelihoods and food security. Although vaccination can control FMD, current vaccines are not effective against all regional strains. The AgResults Foot and Mouth Disease Vaccine Challenge Project (2020 – 2028), a USD$17.34 million Pay-for-Results competition, aims to develop, register, and promote high-quality FMD vaccines tailored for Eastern Africa. Managed by GALVmed, the project targets Burundi, Ethiopia, Kenya, Rwanda, Tanzania, and Uganda. The prize structure includes a cost-share to reduce vaccine costs, enabling better access for public and private sectors.

Project Objectives	Anticipated Impact
Develop and register high-quality FMD vaccines tailored to the needs of Eastern Africa	Incentivize manufacturers to support long-term efforts to control FMD in the Eastern African market with regionally appropriate vaccines
Create greater market stability and affordability through increased production and purchase of FMD vaccines that are regionally relevant	Increase access to and uptake of effective FMD vaccines
Build a private sector model for FMD vaccine purchase and distribution to complement public sector efforts	Reduce FMD-driven production losses for small-scale farmers in the region (estimated USD$2.3 billion per year across sub-Saharan Africa)

Project Phases

Development Phase

In this phase, manufacturers work to develop an FMD vaccine that meets certain eligibility criteria:

• ***Vaccine Development to Target Product Profile (TPP) Standards***: The quadrivalent vaccine must have a potency of at least 6PD50 and contain serotypes A, O, SAT1, and SAT2 that match current circulating Eastern African FMD Viruses.

• ***Vaccine Registration***: The manufacturer must achieve full registration in at least one target country.

• ***Vaccine Approval***: AgResults' FMD Judging Panel must approve vaccines for competition entry that meet the competition's TPP and registration requirements.

Vaccine Distribution Cost-Share Phase

In this phase, which runs from October 2024 – July 2028, the project uses a $15.8 million cost-share mechanism to increase the distribution and adoption of high-quality FMD vaccines by funding a portion of the selling price of registered and approved vaccine(s). AgResults provides the cost-share funding to manufacturers on behalf of public and private sector buyers who purchase directly from the manufacturers, including their Local Technical Representative(s). Each sales period, the cost-share covers a percentage of the vaccine price for a fixed number of vaccine doses, totaling 12.5 million doses over the entire phase. The cost-share vaccine doses are allocated to the country(ies) where the approved vaccine(s) are registered.

Sales Period	# of Months	Start Date	Cost-Share Percentage*	Total Doses
1	18	1 Oct 2024	75%	3,000,000
2	14	1 Apr 2026	65%	4,250,000
3	14	1 Jun 2027	55%	5,250,000

*The AgResults cost-share percentage applies to a maximum vaccine price of USD$2.00; if the vaccine has a selling price above USD$2.00, the buyer will pay the difference.

Project Results to Date

In August 2024, Biopharma (BIOPHARMA – Société de Productions Biologiques et Pharmaceutiques) registered its quadrivalent FMD vaccine that met the project's TPP, qualifying to become the project's first "Competitor." As a result, on October 1, 2024, Sales Period 1 of the Vaccine Distribution Cost-Share Phase kicked off, during which time Biopharma is coordinating with target countries on vaccine production and purchase. Other manufacturers may be approved for entry into the competition up to one year before the competition ends (July 2027).

For more information, check out the AgResults and GALVmed project pages.

About AgResults

AgResults is a $152 million program between the governments of Australia, Canada, the United Kingdom, and the United States, as well as the Gates Foundation and World Bank that funds agricultural Pay-for-Results prize competitions. Since 2013, AgResults has designed and implemented competitions to incentivize the private sector to overcome market barriers and solve food security challenges for people living in poverty. AgResults competitions fall into one of two categories: 1) prizes that incentivize the Research and Development (R&D) of a new solution to address a market failure; and 2) prizes that encourage the development of innovative delivery models and encourage smallholder farmers to adopt an existing product or service at scale.

AgResults is a partnership between:

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