



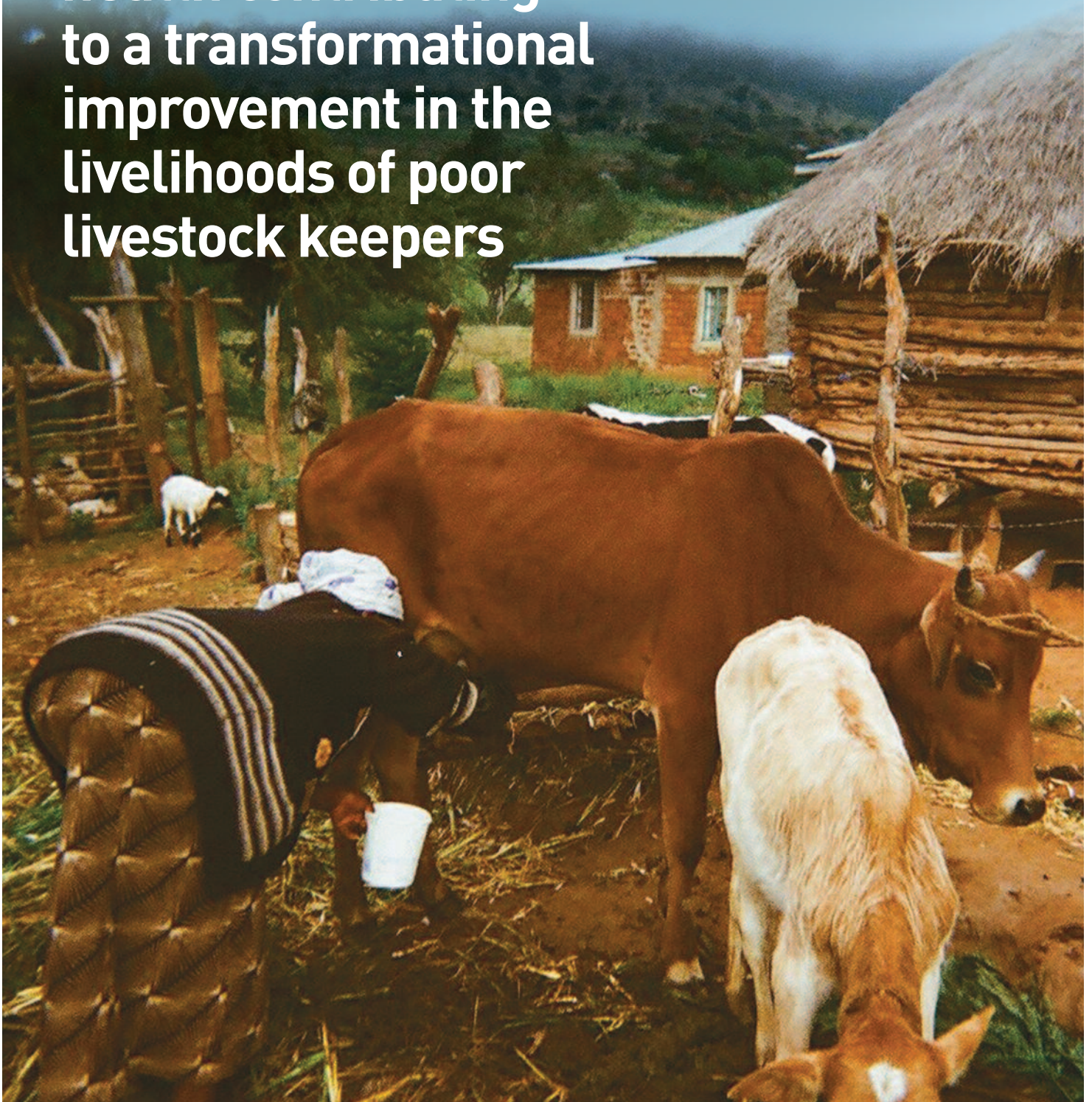
Millions of people living in poverty rely on livestock to pay for their daily needs

GALVmed is making available & facilitating adoption of livestock health products to help transform the livelihoods of poor livestock keepers



Protecting Livestock – Improving Human Lives

GALVmed's Vision:
**Better livestock
health contributing
to a transformational
improvement in the
livelihoods of poor
livestock keepers**



2.5 billion people live on less than 2 dollars a day

Nearly 900million people rely on livestock for their livelihoods. Money raised through livestock and animal products pays for education and healthcare. Animals supply manure and traction to support crop production, create employment and provide business opportunities. Livestock serve important social and cultural roles, such as provision of dowries. The loss of animals through disease devastates the lives of individuals, families and communities around the world. In circumstances where poverty or the environment offer no alternatives, chickens, goats, sheep, cattle and pigs mean survival, school, clothing, trade and the dignity of choice and self-determination.

What is GALVmed?

- A Livestock health Product development & adoption Partnership organisation
- A not-for-profit Public-Private Partnership – registered charity
- Pro-poor focused: working with key partners to make a sustainable difference in access to animal health products for poor livestock keepers
- Currently supported by the UK Government's Department for International Development (DFID) and the Bill & Melinda Gates Foundation, with projects having been funded by the European Commission.

How is GALVmed helping?

We are making available and facilitating adoption of livestock health products by poor livestock keepers. We do this by:

- Intervention in all necessary links of the value chain including:
- Product development, registration, manufacture, distribution, commercialisation and delivery to the end user
- Building capacity (upstream and downstream)
- Market development and adoption by creation of sustainable value chains
- Understanding and influencing policy to enable the above
- Advocating for livestock as a route out of poverty

Where is GALVmed's Focus?

- Wherever the weak links are in the product development and distribution value chain

How do we do this?

We achieve our aims by:

- Catalysing (stimulating) interactions with and between others
- Facilitating and supporting
- Forming partnerships (e.g. Vets, governments, policy makers, NGO's etc.)
- Commissioning consultants.



GALVmed's:

Vision

Better livestock health contributing to a transformational improvement in the livelihoods of poor livestock keepers.

Mission

To make a real difference to the livelihoods of resource-poor livestock keepers by facilitating provision of animal health tools, within a sustainable economic framework.

Purpose

Protecting livestock – improving human lives.

Values

GALVmed subscribes to the highest professional and ethical values which reflect sustainable impact on poor livestock keepers through:

- > Focus on delivery
- > Integrity
- > Responsiveness
- > Commitment
- > Innovation

GALVmed's Activities

- > Prioritising diseases that have the greatest impact on poor livestock keepers
- > Understanding the key barriers to developing new products that will reduce disease impact in developing countries
- > Identifying assets and filling key expertise gaps
- > Planning and managing animal health development projects

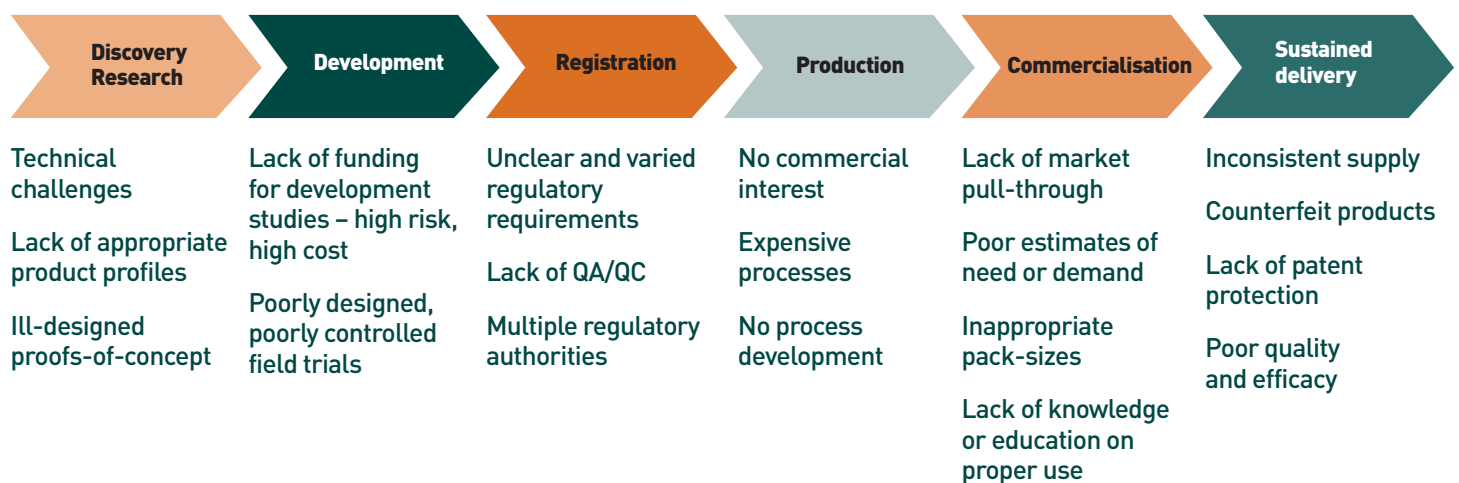
GALVmed's Attributes

- > Focus on bringing appropriate animal health products to poor people
- > Rigour (milestones, standards)
- > Transparency in processes and decision making
- > Integrity (including respect for IP and commercial confidence)
- > Leadership in partnerships and processes

GALVmed's Skills

- > High level technical skills
- > Competence in animal health product development and registration
- > Project and Portfolio Management
- > Knowledge of Development Agenda
- > Brokering Partnerships

Challenges to availability & access to animal health products



GALVmed's approach to these challenges

Our role is to provide facilitation and leadership to overcome these challenges by creating partnerships which provide poor livestock keepers with access to animal health products. GALVmed addresses 'weak links' in the chain from product development to delivery into the animal.



The Maasai in Northern Tanzania tell GALVmed:

“

**No East Coast fever vaccine – no cattle.
No cattle – no Maasai**

”

What is GALVmed?

GALVmed is a not-for-profit global alliance and a Public Private Partnership. With offices in the United Kingdom, Africa and India, GALVmed is funded by the Bill & Melinda Gates Foundation, the United Kingdom’s Department for International Development and the European Commission (through AU-IBAR). It comprises members, operational partners and collaborators that include:

Food and Agriculture Organization of the United Nations (FAO)

World Organisation for Animal Health (OIE)

African Union (AU-IBAR)

European Union

Developing World Governments

The French Agricultural Research Centre for International Development, CIRAD

The International Federation for Animal Health (IFAH)

Non-governmental organisations such as FARM-Africa, Africare, VETAID, Mercy Corps, NESPOD and BAIF

Research and academic institutions from the developed and developing world, including the International Livestock Research Institute (ILRI), Onderstepoort Veterinary Institute (OVI); Animal vaccine producer, Onderstepoort Biological Products (OBP); the National Veterinary Institute, Ethiopia (NVI); Botswana Vaccine Institute (BVI); the Learned Society, the British Society of Animal Science; Tamil Nadu Veterinary and Animal Sciences University, Moredun Research Institute (MRI), as well as private partners including animal health firms: Pfizer, Merial, Intervet, CEVA Animal Health; diagnostic company, IDEXX and Indian Immunologicals Limited (IIL).

GALVmed is not the solution in itself, but a key piece in the jigsaw. Initial GALVmed operations began in November 2005 with scale up in its infrastructure and activities from September 2008. Since then, it has played an integral role in increasing the resources dedicated to the development of diagnostics, vaccines and medicines to tackle livestock diseases.



GALVmed Priority diseases

GALVmed focuses on key diseases that are most relevant to poverty reduction and livelihoods in target areas. These diseases are broken into four categories: **cattle**, **small ruminant**, **swine**, and **avian** diseases, although some of them affect more than one category.

The loss of livestock due to these infections is devastating to the existence of their owners, making vaccinations and treatment crucial to the economic and physical well-being of the livestock keepers and their families.

Cattle

East Coast Fever
Contagious Bovine Pleuropneumonia
Hemorrhagic Septicaemia
Trypanosomosis

Small Ruminant

Peste des Petits Ruminants
Contagious Caprine Pleuropneumonia
Sheep & Goat Pox

Swine

Porcine Cysticercosis
African Swine Fever
Classical Swine Fever

Avian

Newcastle Disease
Highly Pathogenic Avian Influenza

Multi-species

Rift Valley Fever



Pioneering Solutions

The first diseases that GALVmed and partners are tackling:

East Coast Fever (ECF) kills over a million cattle a year in Africa, yet a vaccine, produced by ILRI, the International Livestock Research Institute in Nairobi has existed since the 1970s. The vaccine is not currently widely available and the last batch was produced in 1996. This treatment has achieved 98% efficacy in Tanzania, and working with ILRI, GALVmed plans to make this available, accessible and affordable once it is registered. Registration requires stringent safety tests and field trials and also for the treatment to be commercialised, creating a chain of buying and selling and service provision to provide incomes in developing countries. GALVmed has so far facilitated registration in Kenya, Tanzania and Malawi.

Rift Valley Fever (RVF) is a disease that is transmitted by mosquitoes and kills both humans and animals. Because it only occurs every 5–7 years, farmers living on tiny margins are reluctant to vaccinate against RVF. By combining an RVF vaccine with another that protects against commonly occurring diseases such as cattle Lumpy Skin Disease and Sheep/Goat Pox, farmers will gain greater value from the vaccine.

Newcastle Disease (ND) can kill up to 100% of a poultry flock. In Africa alone, 589 million chickens are at risk from ND including the backyard chickens vital to the livelihoods of millions of vulnerable people.

ND vaccines are available for commercial farmers, but the package size and the need for refrigeration make it difficult for these vaccines to be accessible to the poor farmers. GALVmed is working with partners to address some of these issues.

Porcine Cysticercosis (PC) is highly endemic in Africa, Latin America and Asia. Pigs that are affected can get a lower market price or have to be destroyed. Cysticercosis can also affect humans and produces cysts on the brains of people, which are said to cause 50,000 deaths per year in the developing world, and are responsible for up to 20–50% of the late-onset of epilepsy cases globally, deeply impacting upon people's lives. GALVmed and its partners are working to make available the vaccine and medication needed to control this disease in pigs, and thus breaking the cycle of transmission to humans.

GALVmed has also started working on other diseases, such as Contagious Bovine Pleuropneumonia (CBPP) which is one of the most serious trans-boundary diseases in Africa; Contagious Caprine Pleuropneumonia (CCPP), a disease that can kill 60–100% of the affected goats, and Peste des Petits Ruminants (PPR), a disease of goats and sheep, one of the most economically important viral diseases of small ruminants which has been spreading significantly since the late 1980s.



GALVmed's Business Focus

Facts

1.1 billion people live on less than \$1 per day
(Bill & Melinda Gates Foundation)

Nearly 2.5 billion people live on less than \$2 per day
(Bill & Melinda Gates Foundation)

1.02 billion people do not have enough to eat – more than the populations of USA, Canada and the European Union put together
(FAO 19 June 2009)

Despite the Millennium Development Goals, the number of undernourished people in the world increased by 75 million in 2007 and 40 million in 2008, largely due to higher food prices (FAO 9 Dec 2008)

Under-nutrition contributes 53% of the 9.7m children who die in the developing world each year – one every 6 seconds (FAO 2004)

Only 4% of international aid goes to agriculture in the developing world (World Bank, 2007).

Core Objectives

- > Leadership
- > Focus
- > Strategy
- > Partnership
- > Portfolio Development
- > Resourcing
- > Monitoring + Evaluation

Objective 1

Develop data driven decision making tools for socio economic impact and understanding of markets

Objective 2

Develop vaccines for 6 animal health diseases critical to poverty reduction and livelihoods

Objective 3

Address Adoption Access Supply, creating value chains, defining sustainability

Objective 4

Communicate + network at all levels to gain buy in to paradigm change



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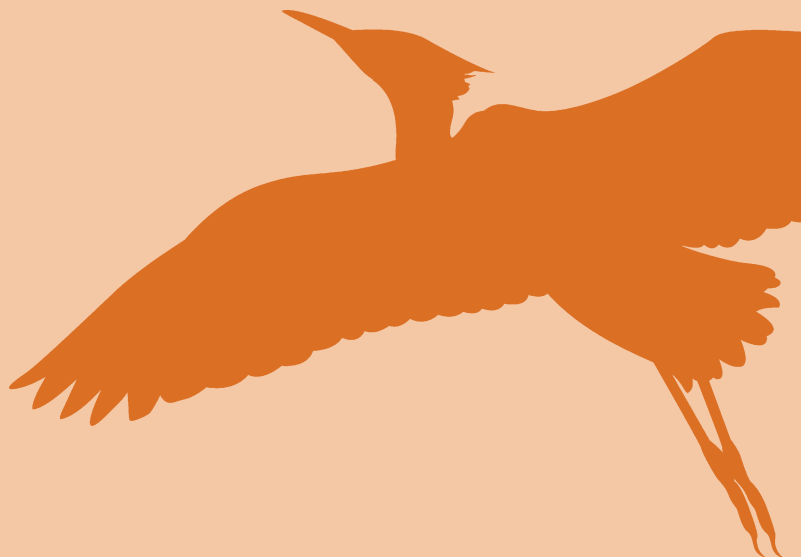
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Protecting Livestock – Improving Human Lives

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BILL & MELINDA
GATES *foundation*



GALVmed is a registered charity and not-for-profit global alliance of public, private and government partners.
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