



BILL & MELINDA  
GATES *foundation*

# REALIZING LIVESTOCK'S POTENTIAL

The importance of Animal Feed to meeting our strategic goals

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# WHERE WE FIT IN THE FOUNDATION

Gates Foundation			
Global Health	Global Development	U.S. Program	Global Policy & Advocacy
Discovery and Translational Sciences Enteric and Diarrheal Diseases HIV Malaria Neglected Infectious Diseases Pneumonia Tuberculosis	<b>Agricultural Development</b> Emergency Response Family Planning Financial Services for the Poor Gender Equality Global Libraries Integrated Delivery Maternal, Neonatal and Child Health Nutrition Polio Vaccine Delivery Water, Sanitation and Hygiene	K-12 Education Postsecondary Success Washington State	Tobacco Control Development Policy and Finance

# Our impact and strategic goals: achieve inclusive agricultural transformation through four strategic pathways

**Increase Equitable Consumption of a Safe, Affordable, Nutritious Diet Year-Round**

**Increase Agricultural Productivity for Smallholder Farmers**

**Increase Income for Smallholder Farmer Households**

**Increase Women's Empowerment in Agriculture**

# WHY LIVESTOCK?

**60% of people  
in extreme  
poverty own  
livestock**

**~30-40%  
of Agricultural  
GDP**

**50-80%  
of total  
assets**

**One of the  
best accessible  
sources of  
nutrition**

**Significant  
opportunity to  
empower  
women**

**Climate  
mitigation and  
adaptation:  
Critical for food  
and nutritional  
security**

**Directly  
contributes  
to >50% of  
SDGs**



# LIVESTOCK: OVERVIEW

By 2030, working with partners, we aim to help 75 million of the world's poorest families lift themselves out of extreme poverty

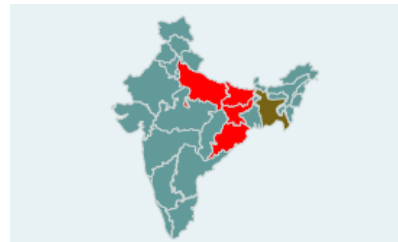
## PRIORITY SPECIES



## FOCUS GEOGRAPHIES



**Ethiopia** **Burkina Faso**  
**Nigeria** **Ghana**  
**Tanzania** **Mali**  
**Uganda**



**Bangladesh**  
**India (Bihar, Odisha, Uttar Pradesh)**

## CORE BODIES OF WORK

### Livestock Health

- Develop new and improved products for priority diseases
- Create catalytic change in regulatory system
- Leverage existing vaccine and drug manufacturers

### Livestock Genetics and Reproduction

- Adapt modern genomic technologies in the development and multiplication of superior and adapted germplasm that address key constraints for smallholders
- Create catalytic change in government agencies and private sector

### Production and Markets

- Increase access to knowledge and tools
- Enable access to local, regional, and global markets

## EXPLORATORY BODIES OF WORK

### Aquaculture

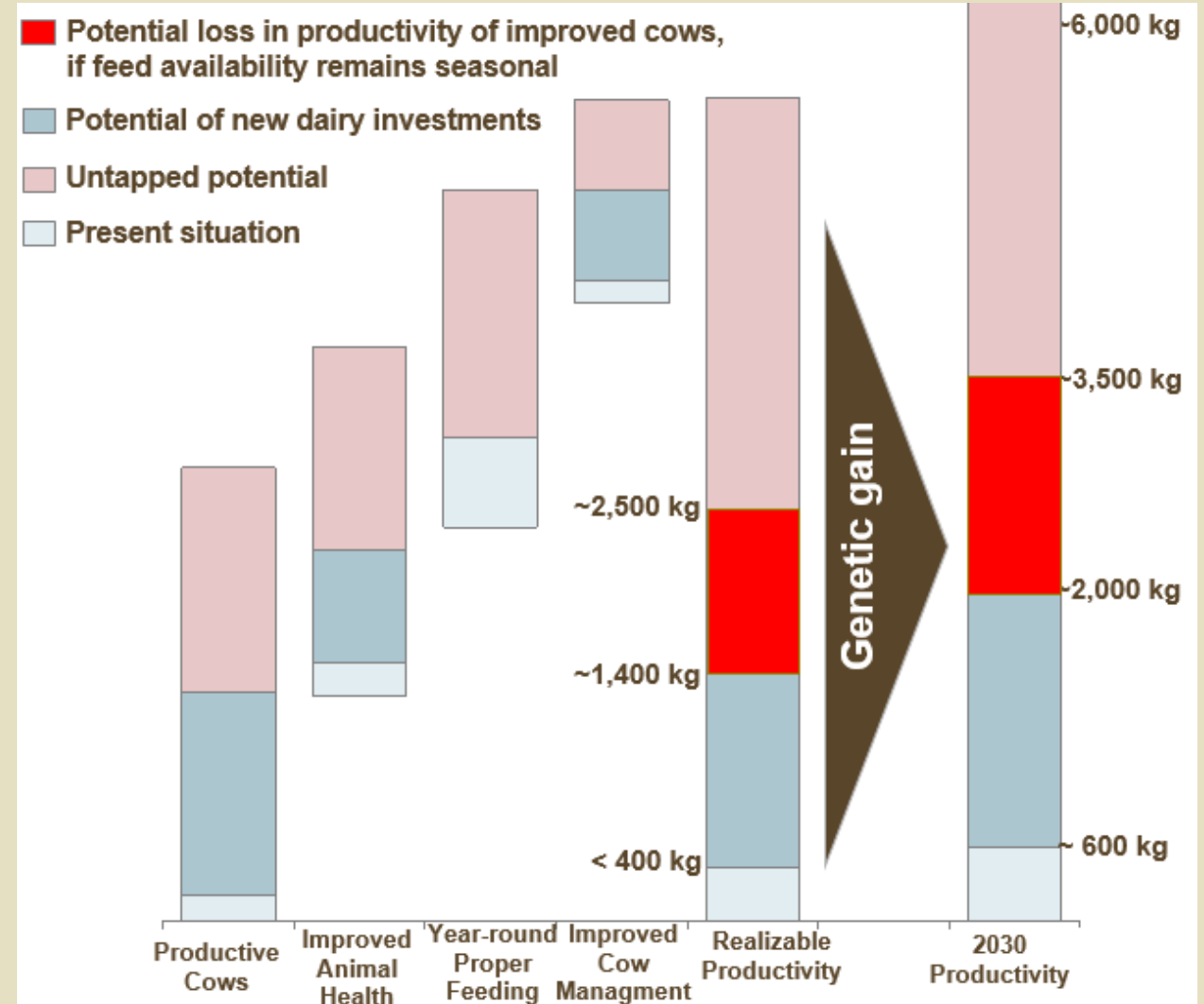
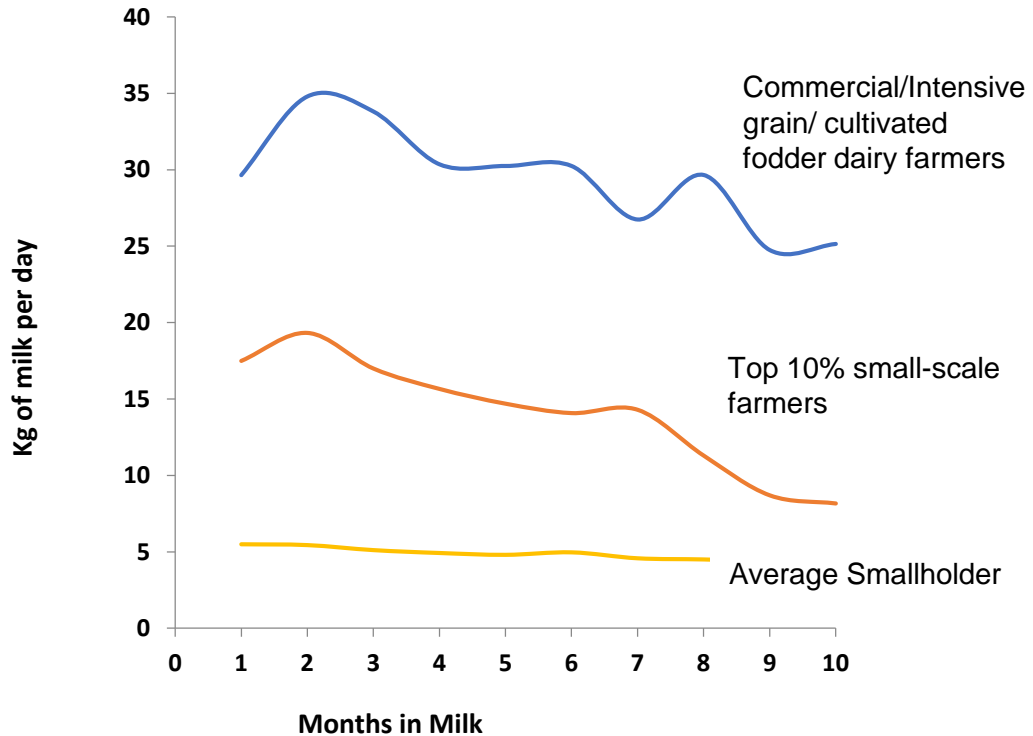
### Animal feed and fodder

### Regulatory Systems

# WHY ANIMAL FEED?

*Without proper animal nutrition, the gains from improved genetics and animal health will not be fully realized.*

**Realized lactation curves of improved cows by different farmer types in Kenya**



# CLOSING RESEARCH GAPS AND BUILDING THE EVIDENCE BASE AROUND ANIMAL FEED

Increase availability of quality feed and fodder and smoothing supply across seasons

Understanding specific nutritional needs of different species and breeds AND...

How local resources and locally adaptable varieties can meet those needs

Pro-equity: how to improve affordability of and access to quality nutrition by poor households, with an eye to gender considerations

How to do all of this in the context of changing climate, increasing demand for livestock products, and growing pressure on and competition for land

Partnership with the  
**USAID Livestock Systems  
Innovation Lab**

Looking at these critical research areas in the Ethiopian and Sahelian context.

\$8.7m, with \$5.5m on animal nutrition over 5 years

Together we will reach our goal of raising millions of farming families out of poverty.

Thank you.

