The roles of livestock in achieving the Sustainable Development Goals

Iain A Wright, Deputy Director General-Research ILRI

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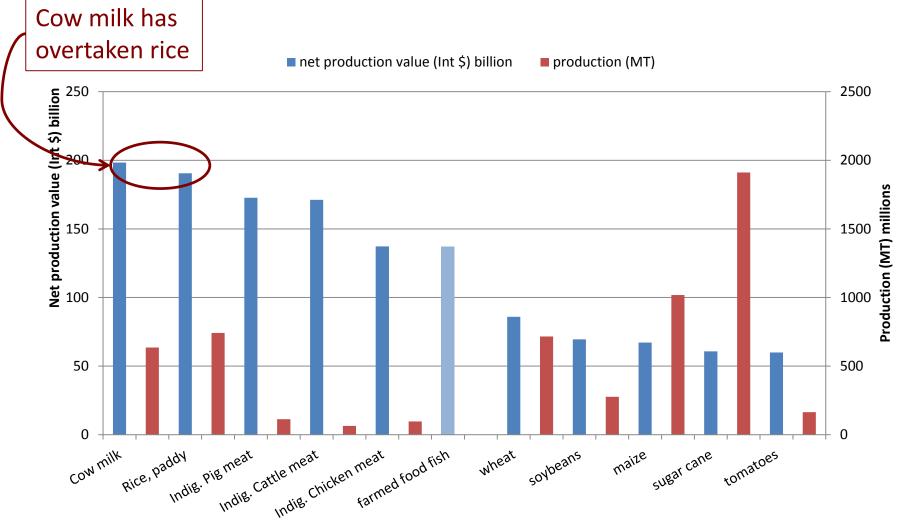






TODAY'S UNPRECEDENTED LIVESTOCK OPPORTUNITIES FOR DEVELOPMENT

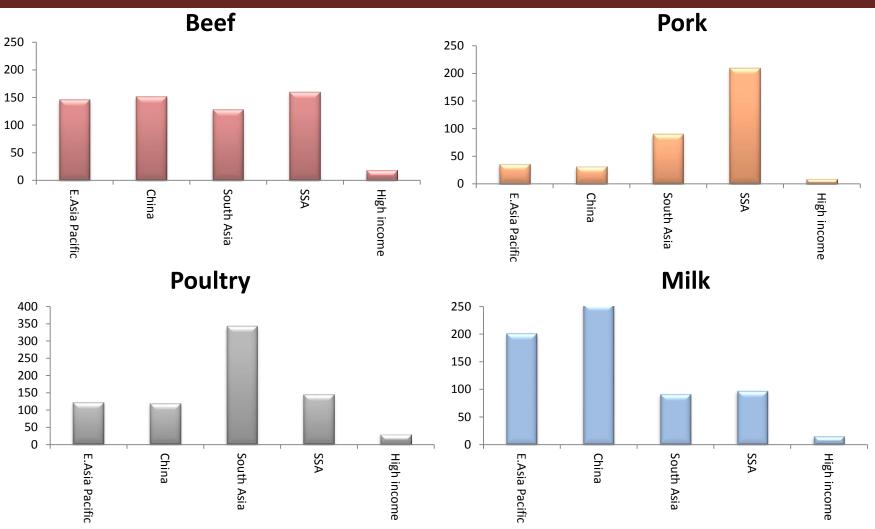
Animal-source foods make up 5 of 6 of the highest value global commodities (total value of these 5=US Int \$715





FAOSTAT 2015 (values for 2013)

% growth in demand for livestock products to 2030 2000–2030



Estimates of the % growth in demand for animal source foods in different World regions, comparing 2005 and 2030. Estimates were developed using the IMPACT model, courtesy Dolapo Enahoro, ILRI.

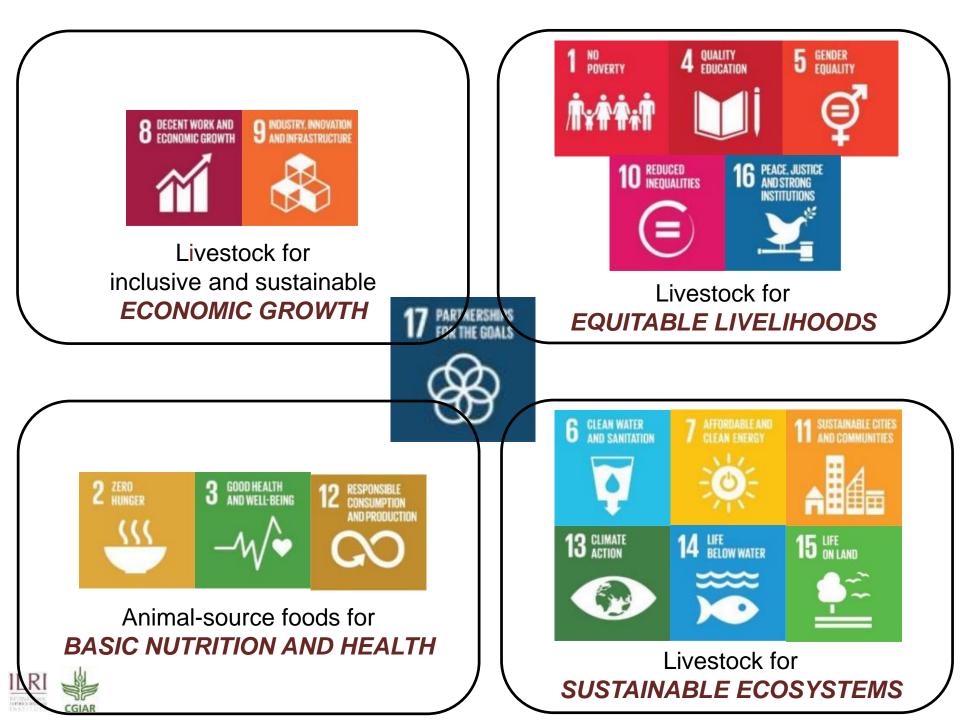
THE SUSTAINABLE DEVELOPMENT GOALS

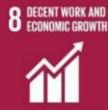
17 goals





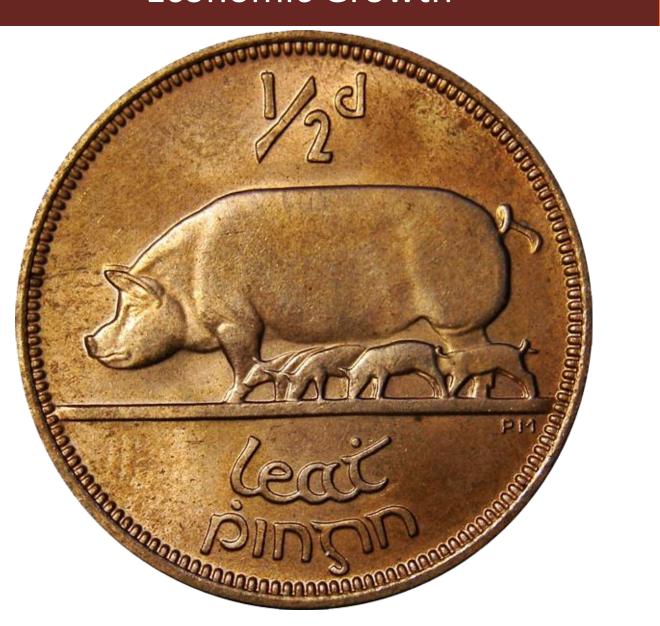
FOUR LIVESTOCK PATHWAYS FOR ACHIEVING ALL 17 SDGS





PATHWAY 1: Economic Growth

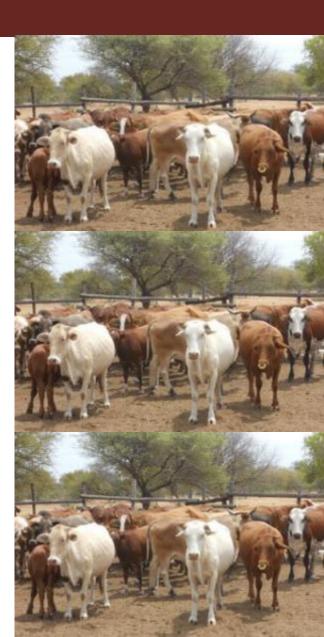






Livestock and economies

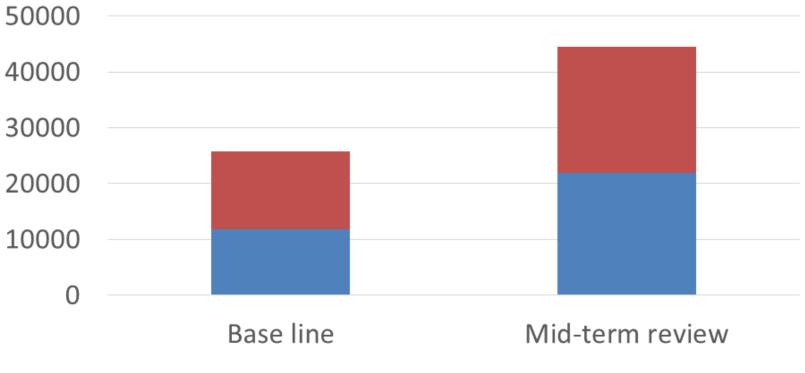
- The livestock sector contributes an average of 40% of the agricultural GDP of developing countries—and that percentage is growing
- The market value of animal-source foods in Africa in 2050 is estimated at USD151 billion
- Livestock value chains provide large numbers of jobs





Huge potential to increase productivity and income

Increased income from milk sale (Birr/HH/year)







Smallholders still dominate livestock production in many countries

Region (definition of 'smallholder')	% production by smallholder livestock farms					
	Beef	Chicken meat	Sheep/goat meat	Milk	Pork	Eggs
East Africa (≤ 6 milking animals)				60-90		
Bangladesh (< 3ha land)	65	77	78	65		77
India (< 2ha land)	75	92	92	69		71
Vietnam (small scale)					80	
Philippines (backyard)		50			35	



Various sources: BMGF, FAO and ILRI



PATHWAY 2: Livelihoods







Livestock livelihoods

- 70% of the world's rural poor rely on livestock for important parts of their livelihoods.
- Of the >600 million poor livestock keepers in the world, about two-thirds are rural women.
- >100 million landless people keep livestock.
- For the vulnerable, up to 40% of benefits from livestock keeping are non-market, intangible benefits, mostly insurance and financing.
- In the poorest countries, livestock manure comprises over 70% of soil fertility amendments.
- Many poor people are employed in local informal livestock product markets.
- 90% of animal products are produced and consumed in the same country or region.
- Over 70% of livestock products are sold 'informally'.

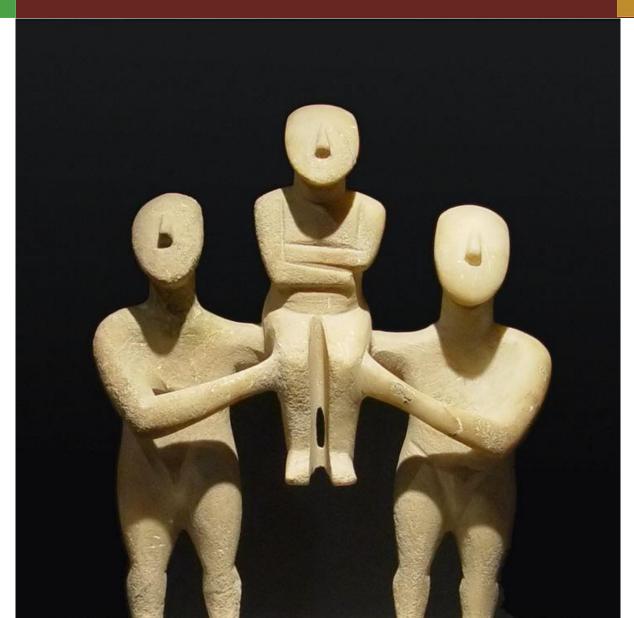






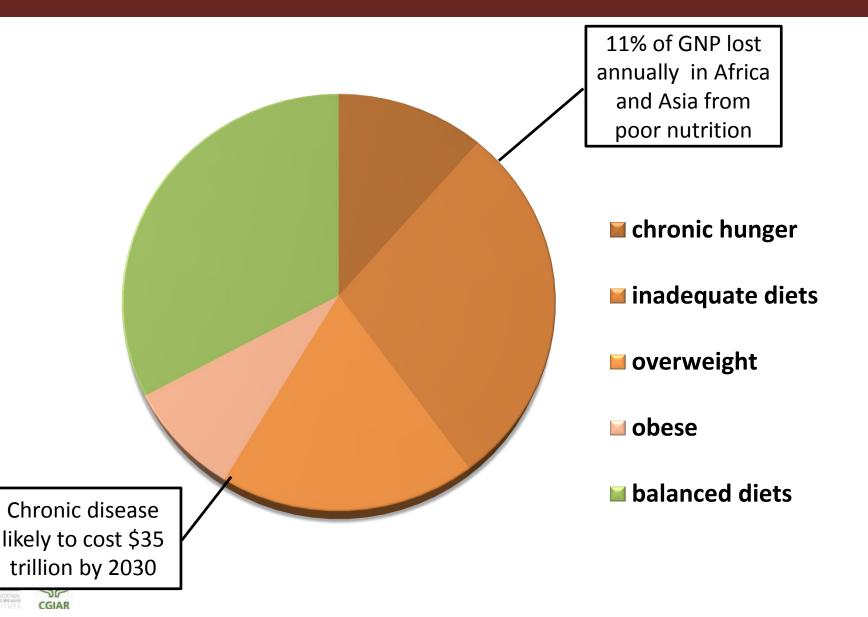
PATHWAY 3: Nutrition and health







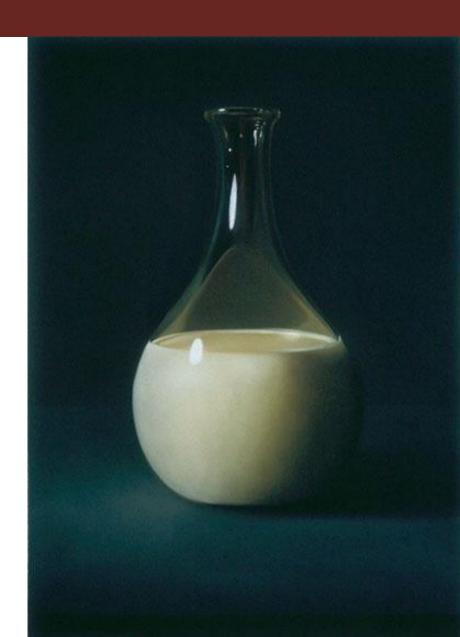
The nutritional divides among 7 billion people today



Animal-source foods provide essential nutrients

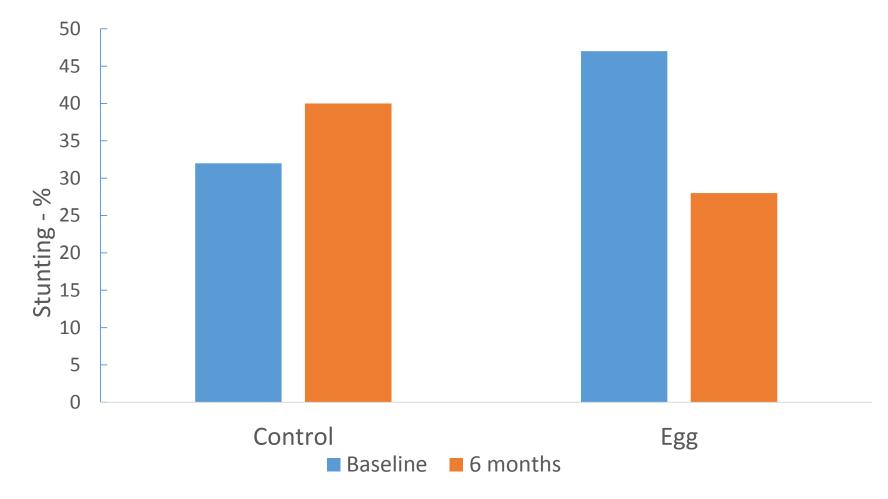
- Globally 13% of calories and 28% of protein
- Vitamins

 e.g. B12 only available
 in animal-source foods
- Minerals e.g. calcium, iron, zinc, iodine



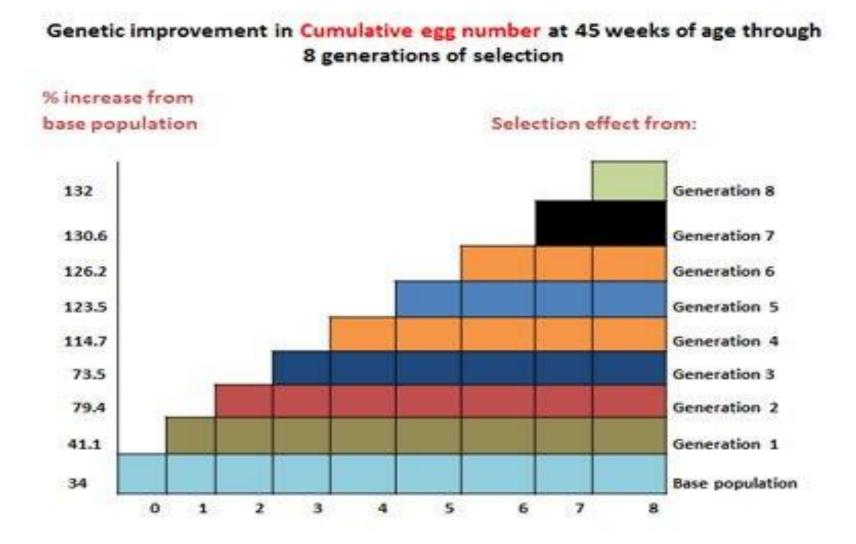


Consuming just one egg a day for 6 months reduces stunting in children





Genetic improvement of native Horro chickens in DZARC, Ethiopia (joint EIAR/ILRI project)



Generation

Nutrition in the first 1000 days of life



Nutritionists are generating growing evidence that it is impossible for babies to achieve adequate nutrition in the first 1000 days of life without animal-source foods.



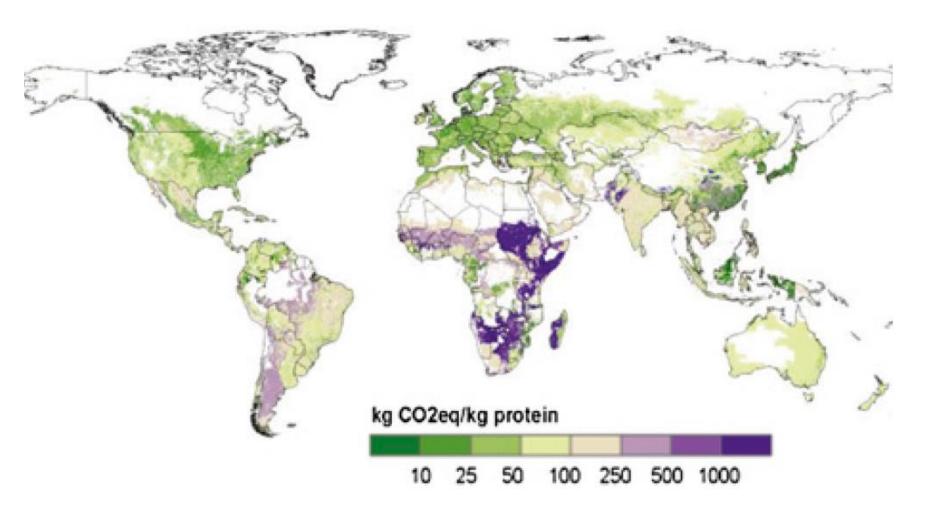
PATHWAY 4: Ecosystems







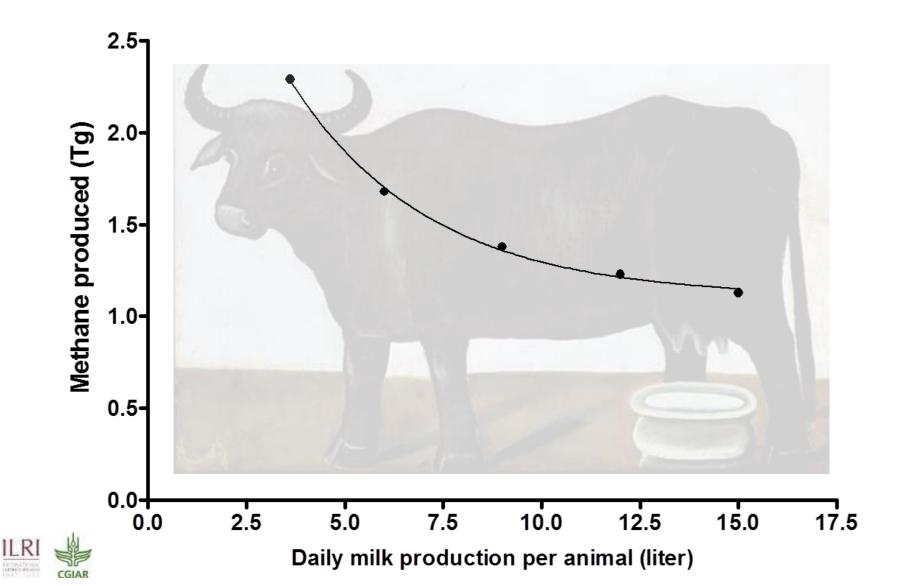
The intensity of current greenhouse gas emissions generated in livestock production



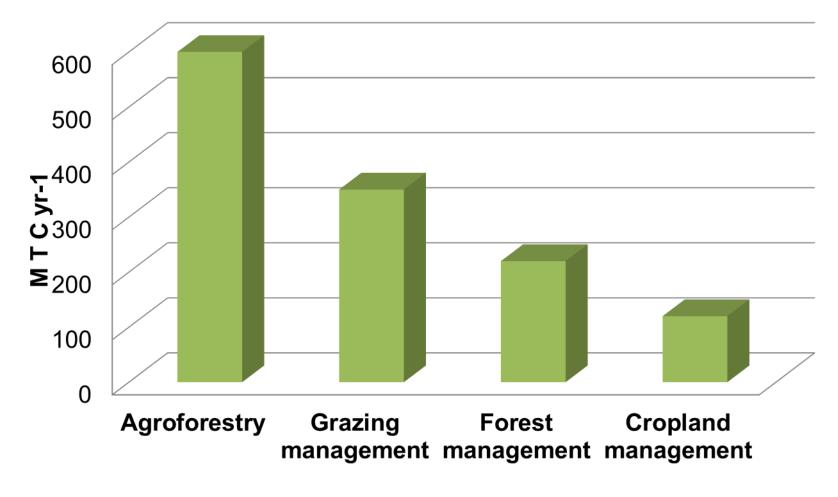


(Herrero et al., 2014)

Methane production falls as productivity increases



The potential of agricultural sub-sectors to store carbon by 2040



Source: Adapted from Thornton and Herrero, PNAS (2010)

IN SUMMARY

Sustainable livestock futures need sustainable investments

Continuing to pay insufficient attention to this fastest growing agricultural sub-sector will thwart progress in achieving the SDGs

Ways forward

Continue to build the evidence base for the global livestock-for-development agenda

Powerfully articulate the evidence

Tailor different messages to suit different audiences

Unite reliable data with strong narratives

Create greater coordination within the sub-sector

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Box 30709, Nairobi 00100 Kenya Phone +254 20 422 3000 Fax +254 20 422 3001 Email ilri-kenya@cgiar.org ilri.org better lives through livestock

Box 5689, Addis Ababa, Ethiopia Phone +251 11 617 2000 Fax +251 11 667 6923 Email ilri-ethiopia@cgiar.org

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