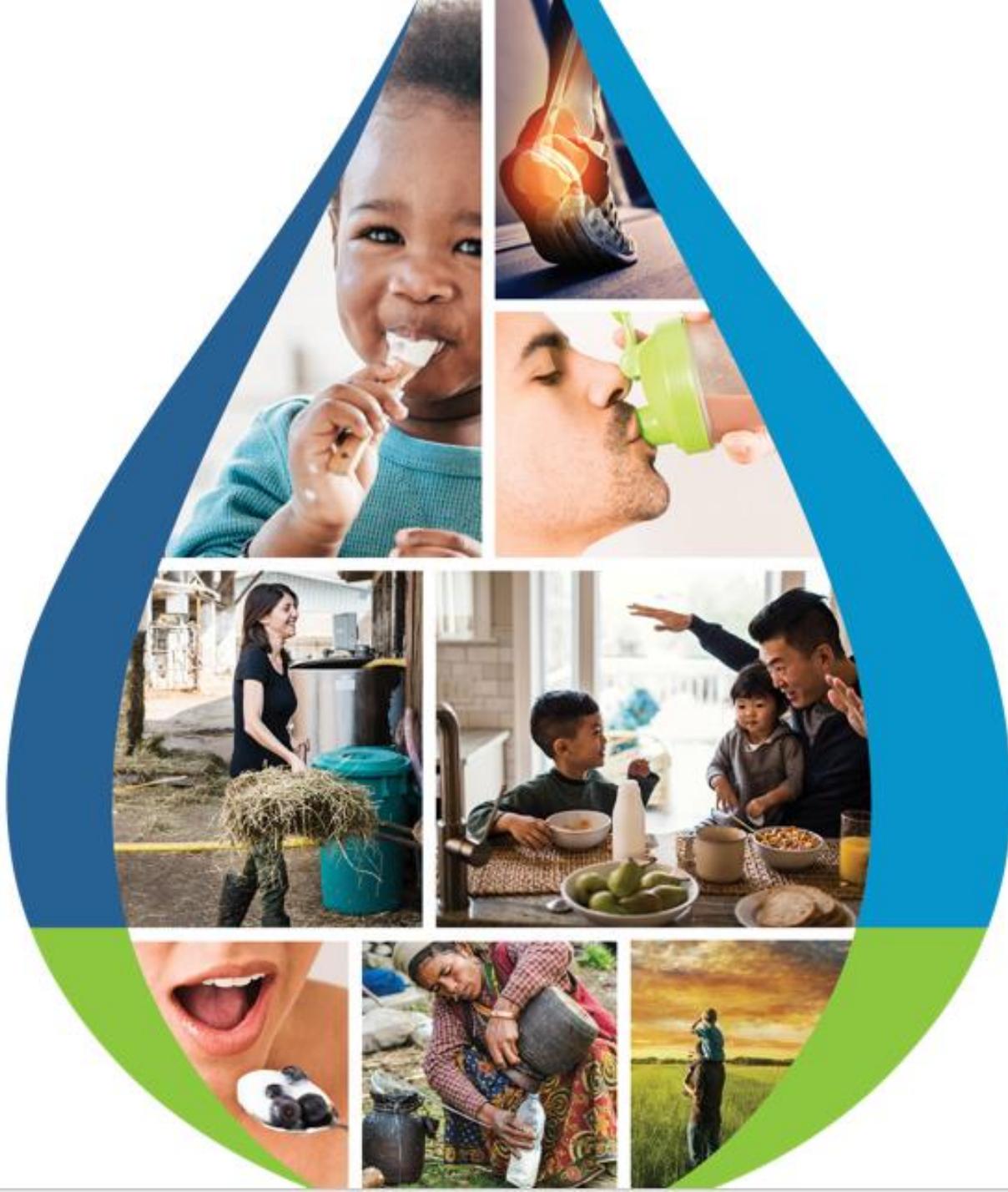




GLOBAL DAIRY PLATFORM

Dairy's impact on reducing global hungry

- Joachim Otte (Editor)
- Ernesto Reyes (GDP)
- Ugo PicaCiamarra (FAO)





GLOBAL DAIRY PLATFORM

Dairy's impact on reducing global hungry

Introduction

Review

Methods

Results





Evidence of the contribution of dairy to sustainable development

Supporting guidelines and tools for measuring **dairy impact**



GLOBAL AGENDA FOR SUSTAINABLE LIVESTOCK



LIVESTOCK INFORMATION, SECTOR ANALYSIS AND POLICY BRANCH



GLOBAL DAIRY PLATFORM
KNOWLEDGE • INSIGHT • GUIDANCE

DAIRY DEVELOPMENT PILLAR



IFCN
Dairy Data • Knowledge • Inspiration

IFCN DAIRY NETWORK

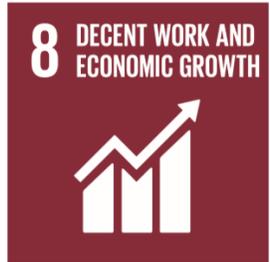




Dairy's Impact on Reducing Global Hunger

Sustainable Development Goals

Introduction

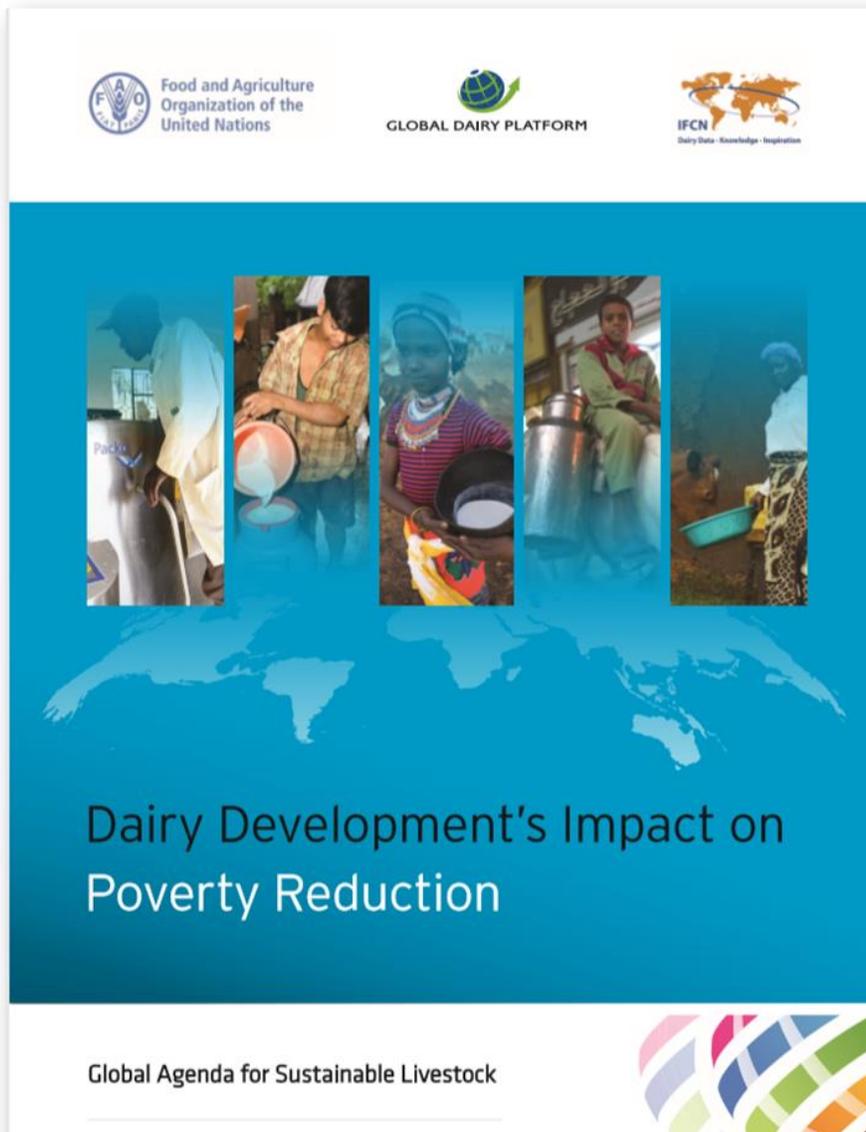




Dairy's Impact on Reducing Global Hunger

Impact on Poverty Reduction

Introduction





Dairy's Impact on Reducing Global Hunger

Impact on Poverty Reduction

Introduction



Dairy development makes a significant contribution to poverty reduction, both at **community** and **household** level





Dairy's Impact on Reducing Global Hunger Impact on Poverty Reduction

Introduction



household



Milk consumption and nutrition



Increase revenues from sales



Crops yield (food security)



On-farm employment generation

community



Milk collection and distribution



Milk collection and processing employments



Employments at processing sub-sector



Multiplier effect at industry level



Dairy's Impact on Reducing Global Hunger

Impact on Poverty Reduction

Introduction



HOUSEHOLD

COMMUNITY



Milk consumption and nutrition



Gross household income



Crop yields



On-farm employment generation

Dairy cow ownership and improvement of cow's production had a substantial positive **impact on household welfare**

Increase 96% to 175%

higher employment generation by dairy farms than by 'control' farms.
Higher wages.



Raw milk collection and distribution

in 20 and 40 full-time jobs per 1 000 l of graded milk.

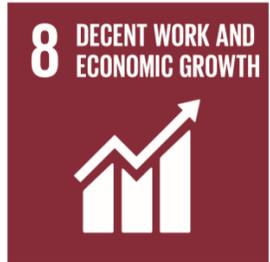
generates another 60 to 100 full-time jobs per 1 000 l of processed milk.



Marketed milk, around 32 additional full-time jobs per 1 000 l marketed milk.



Sustainable Development Goals





Dairy's Impact on Reducing Global Hunger

Sustainable Development Goals

Introduction



The cover features logos for the Food and Agriculture Organization of the United Nations, the Global Dairy Platform, and IFCN. It includes three photographs: a woman with children, a child drinking from a can, and a cow. A world map is visible in the background.

Food and Agriculture Organization of the United Nations

GLOBAL DAIRY PLATFORM

IFCN
Dairy Data - Knowledge - Inspiration

Dairy's Impact on Reducing Global Hunger

Global Agenda for Sustainable Livestock



GLOBAL DAIRY PLATFORM

Dairy's impact on reducing global hungry

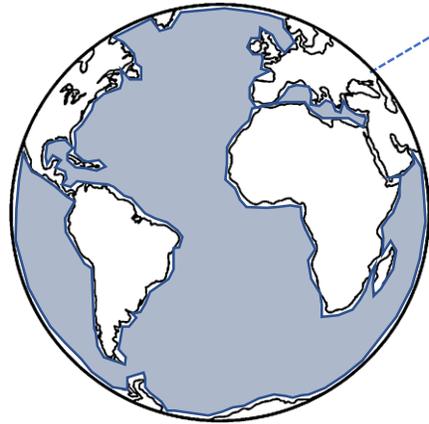
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821 million
suffering from
hunger



(2017)

151 million
childrens under
5 years old

Stunting

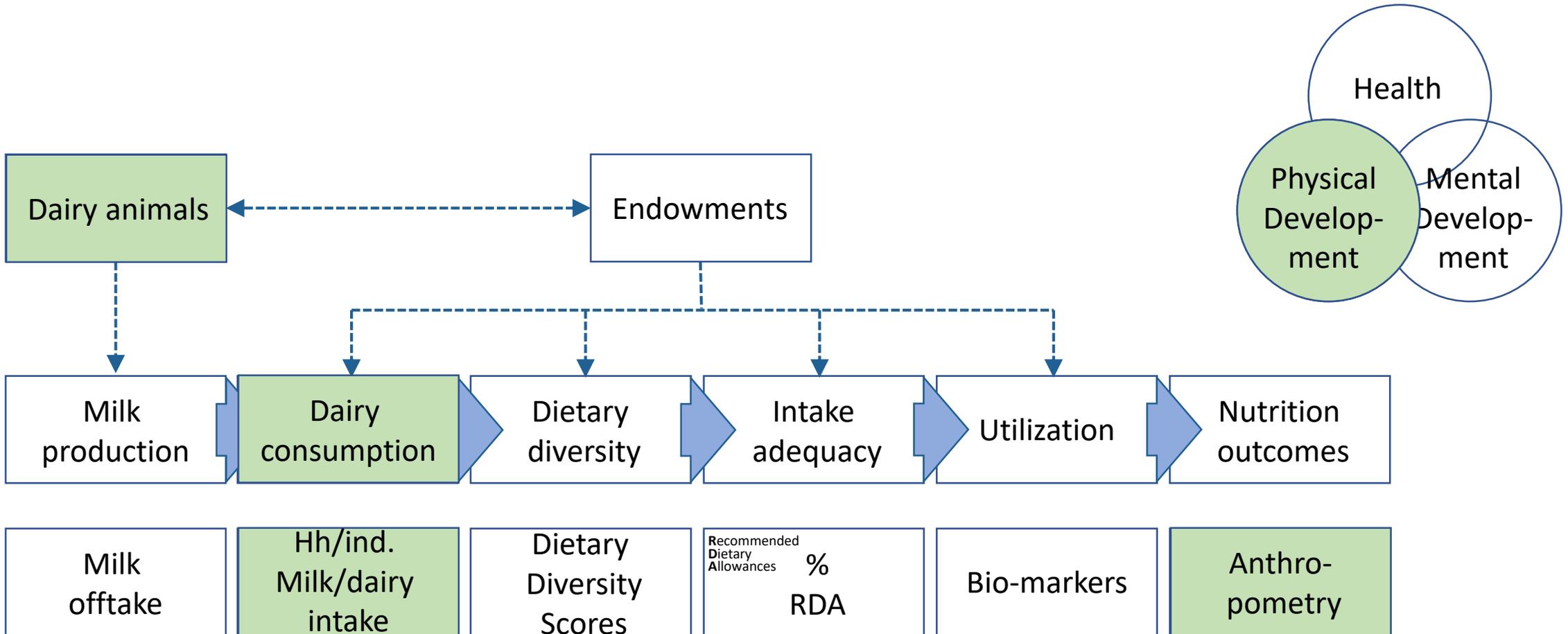
- Irreversible
- Associated with
 - Reduced intellectual development
 - Reduced productivity
 - Risk of chronic disease in later life

40 million
Increase since
2014





Assumed causal pathway

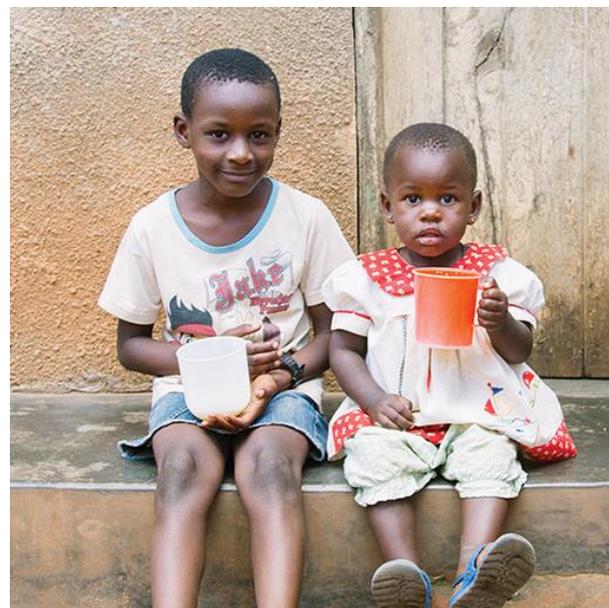




This study evaluates the evidence of a positive and causal relationship between



**Ownership of
dairy animals**



**Milk/dairy
consumption**



**Child growth
in Low and Middle
Income Countries**



GLOBAL DAIRY PLATFORM

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Intervention trials
Observational studies

- Original works (excluding reviews)
- Published in a peer-reviewed journal
- Full papers in conference proceedings
- Carried out in Low and Middle Income Countries,
- Involved children in the age range 0–19 years,
- Reported anthropometric measurements
- Quantified dairy consumption
- Controlled for confounding by statistical techniques and/or by using a control group





GLOBAL DAIRY PLATFORM

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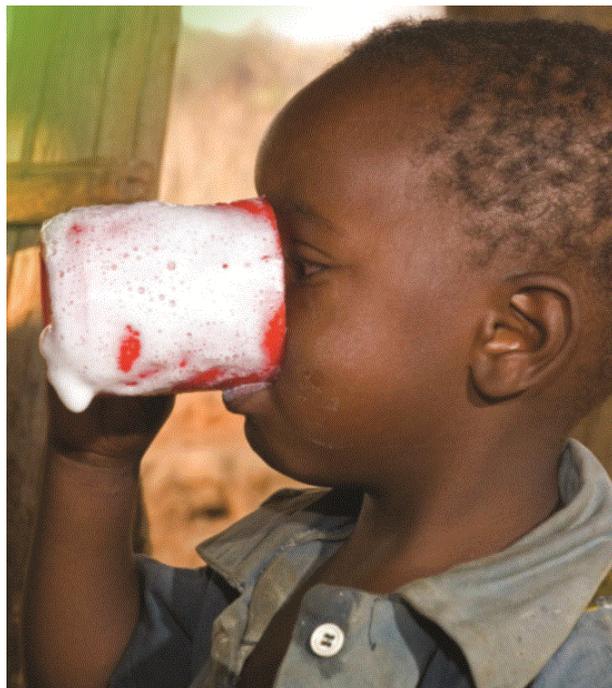
Methods

Results





What is the Evidence telling us?



Studies provides strong evidence that in rural low-income settings **household milk production increases Hh milk consumption,**

and that increased **milk consumption results in improved child linear growth** and reduced stunting.



Dairy consumption and child growth



Intervention trials

Observational studies

Cow ownership and child growth



Intervention trials

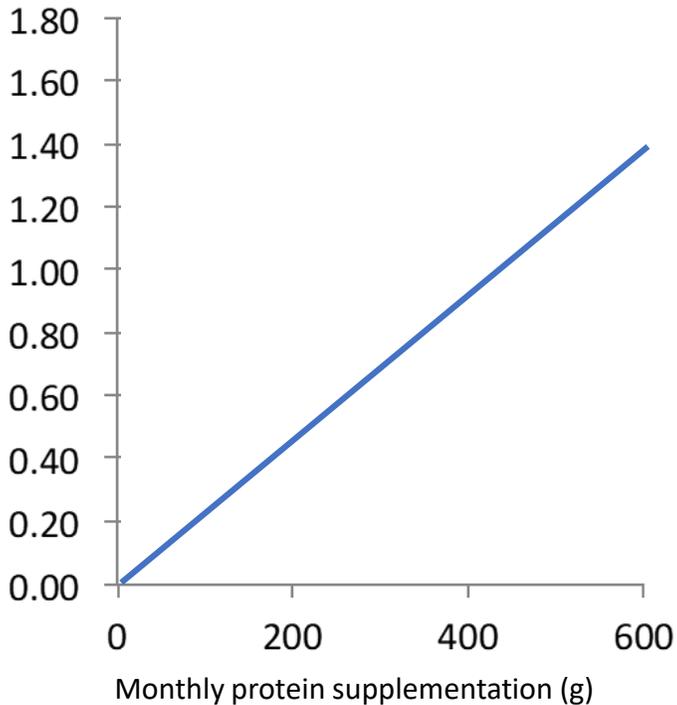
Observational studies



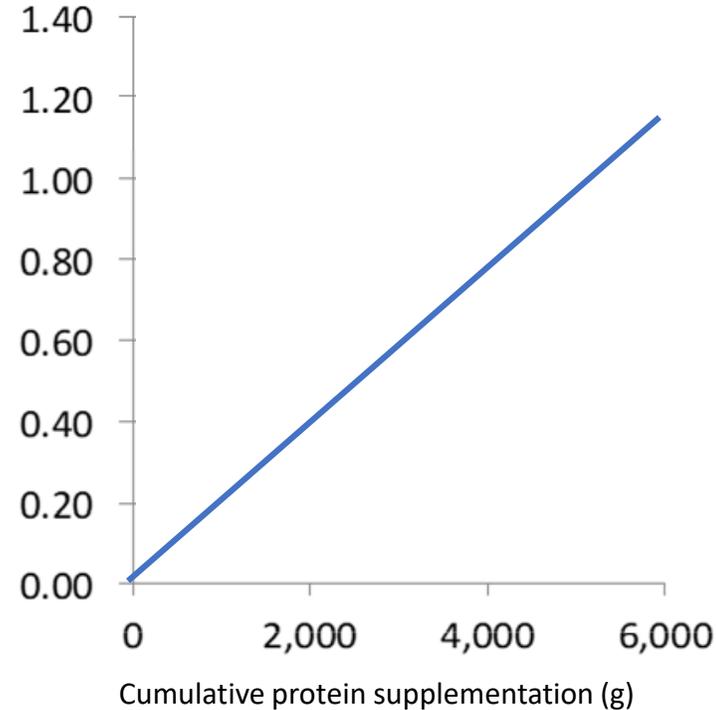
Intervention trials

HEIGHT GAIN

Monthly difference (cm)



Cumulative difference (cm)



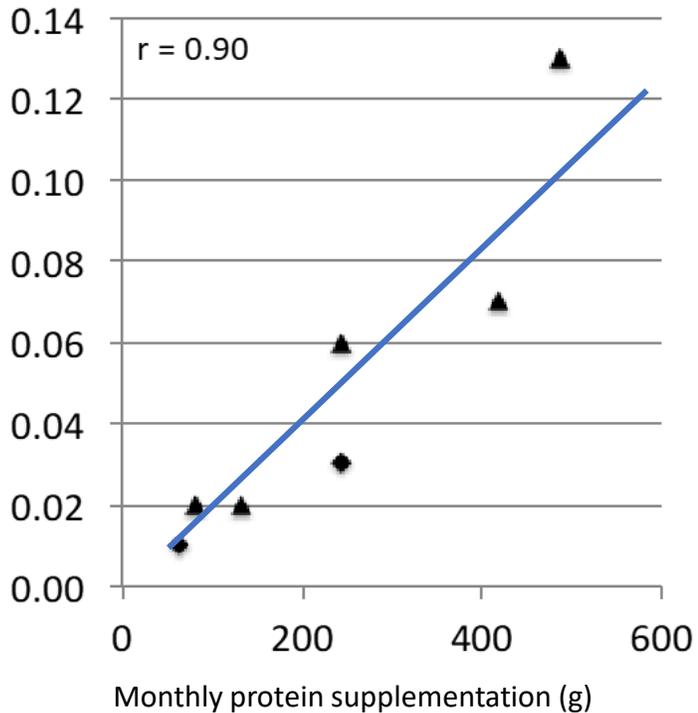
There is a positive association between dairy consumption and height gain (monthly and cumulative).



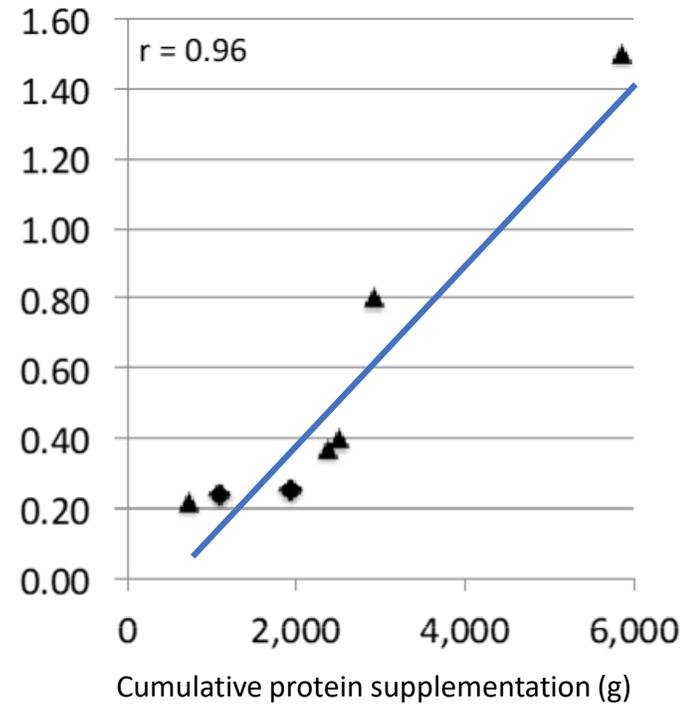
Intervention trials

WEIGHT GAIN

Monthly difference (kg)



Cumulative difference in (kg)

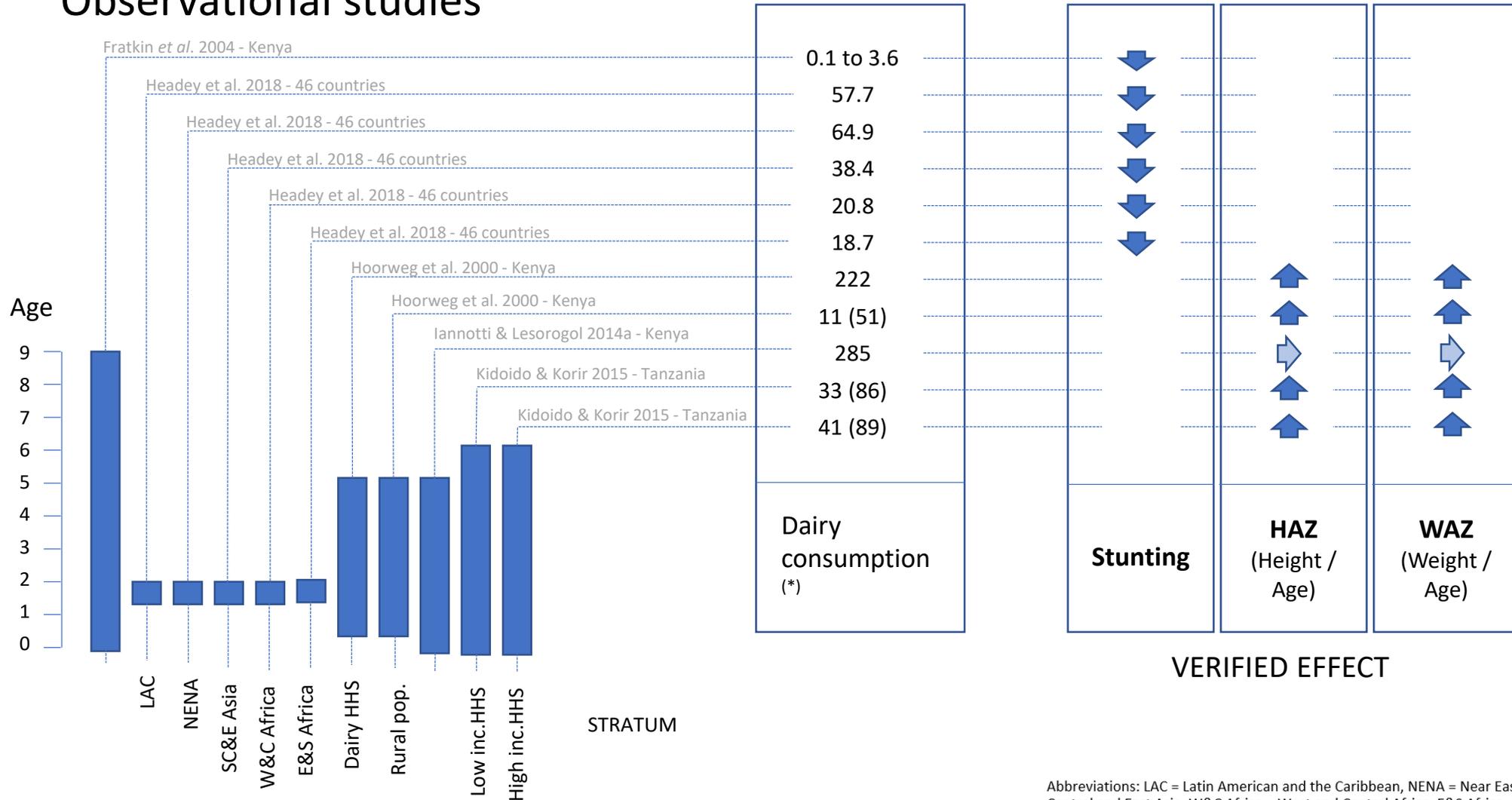


There is a positive association between dairy consumption and weight gain (monthly and cumulative).



Dairy consumption and child growth

Observational studies





Dairy consumption and child growth



Intervention trials

Observational studies

Cow ownership and child growth

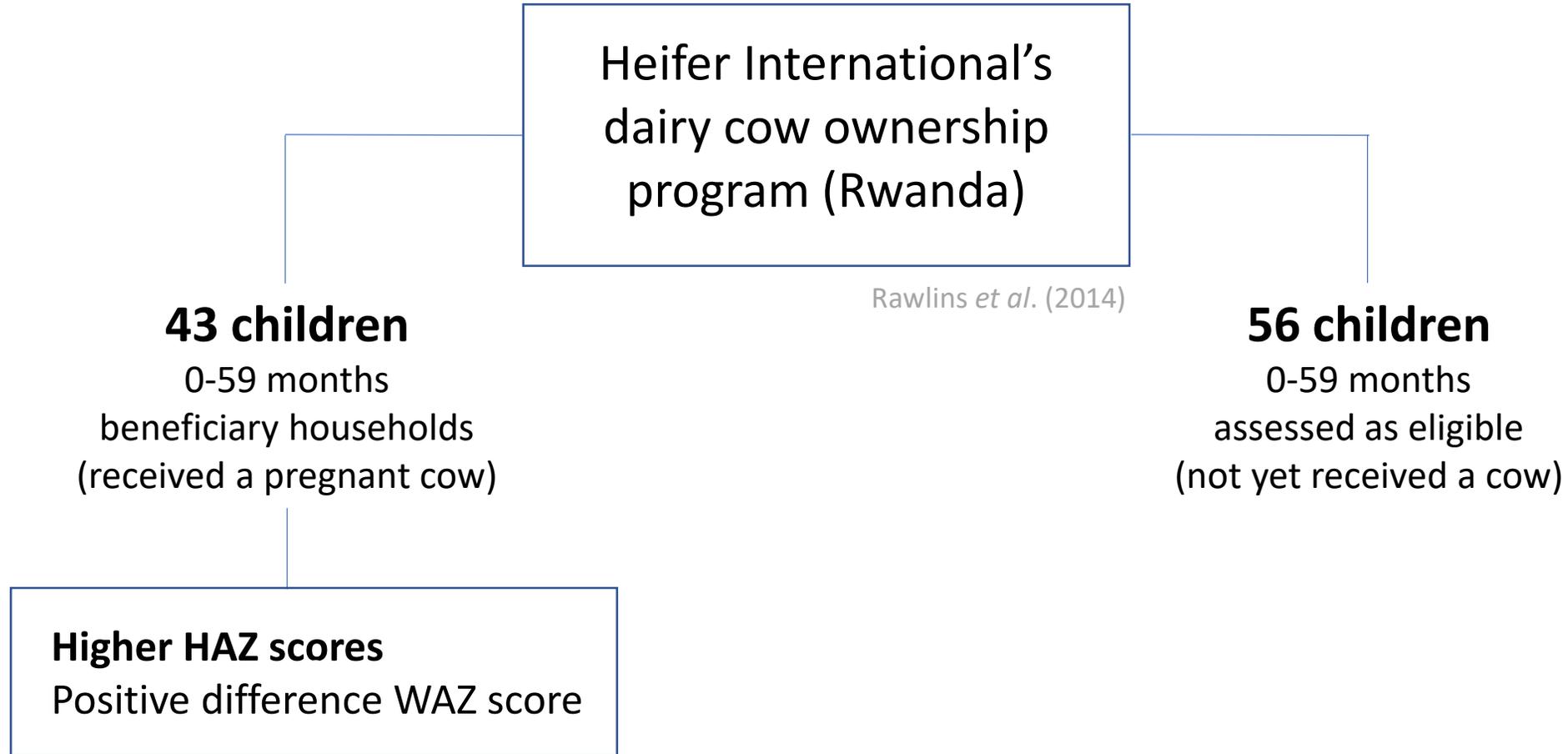


Intervention trials

Observational studies

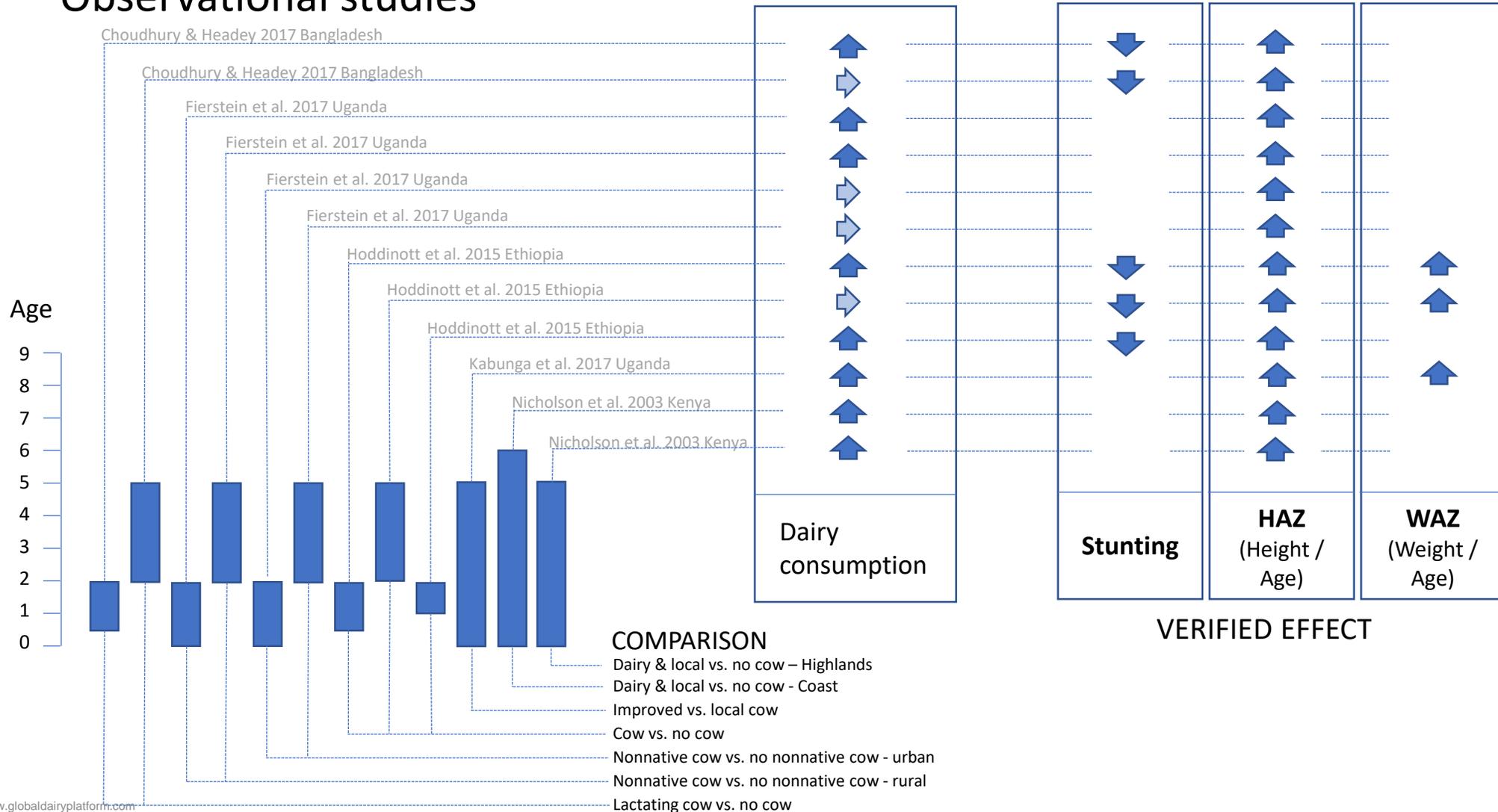


Intervention trials



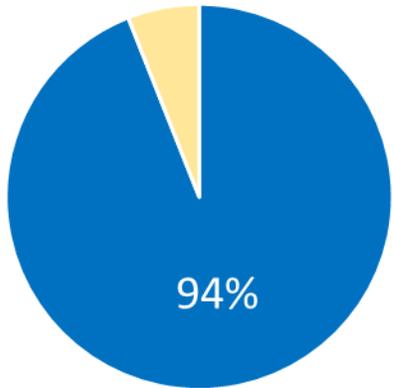


Observational studies



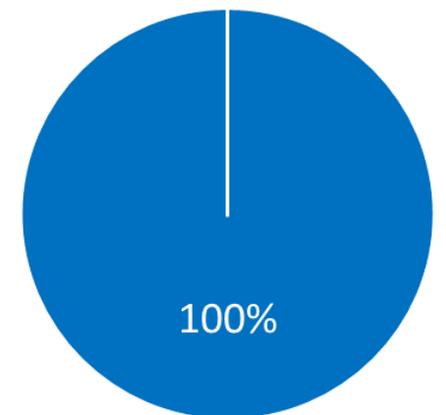


Milk consumption and child growth



16 of 17 comparisons of outcomes (94%) related to child **height** found a positive association with milk consumption.

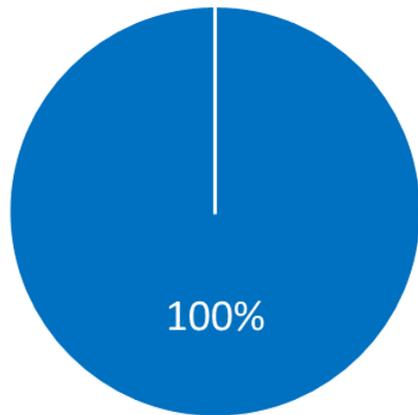
All comparisons related to child **weight** found a positive association with milk consumption.



(*) the effect of milk supplementation appeared to be stronger in children with lower initial HAZ scores

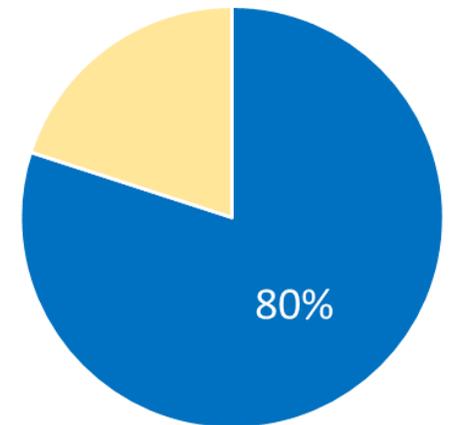


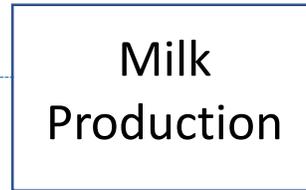
Cow ownership and child growth



All comparisons related to child **length/height** found a positive association with cow ownership (14/14).

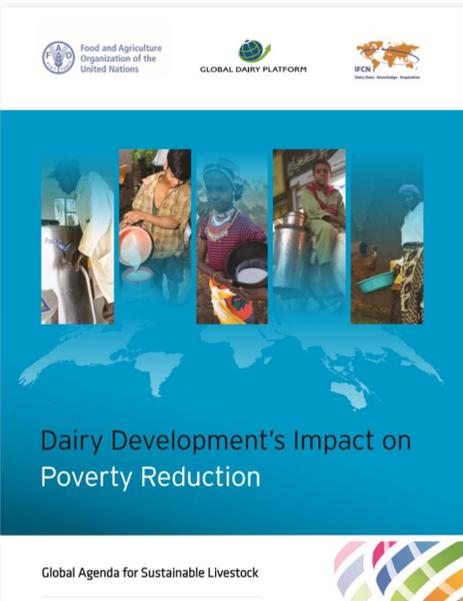
80% of comparisons related to child **weight** found a positive association with cow ownership.





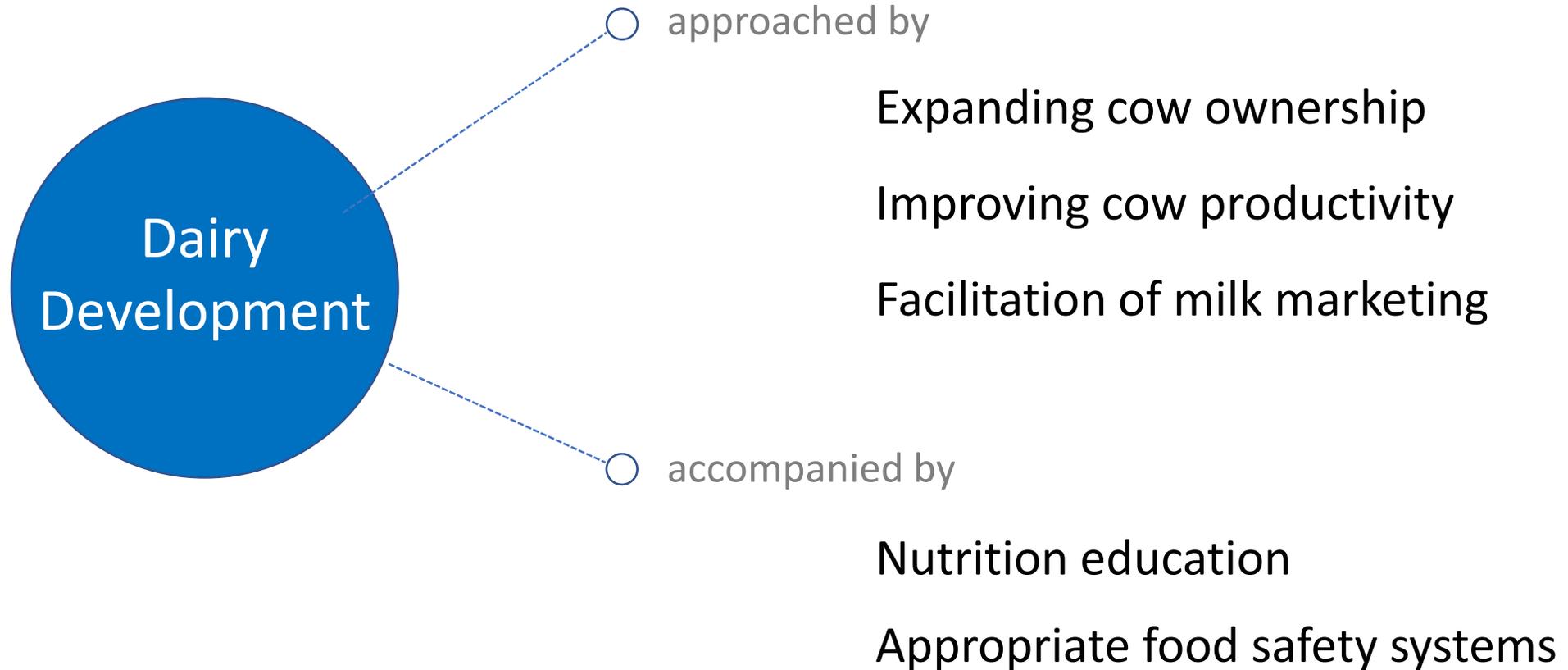
reducing poverty

Improved child linear growth
 and reduced stunting



(FAO, GDP, GASL and IFCN 2018)



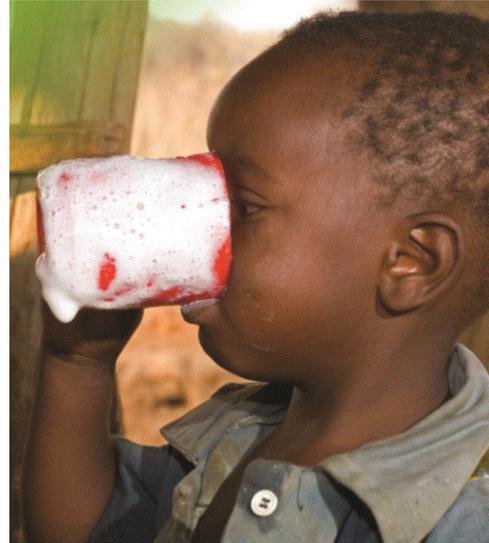




Cow ownership increase the likelihood of higher milk intakes



Milk consumption at the household level was positively associated with higher child growth



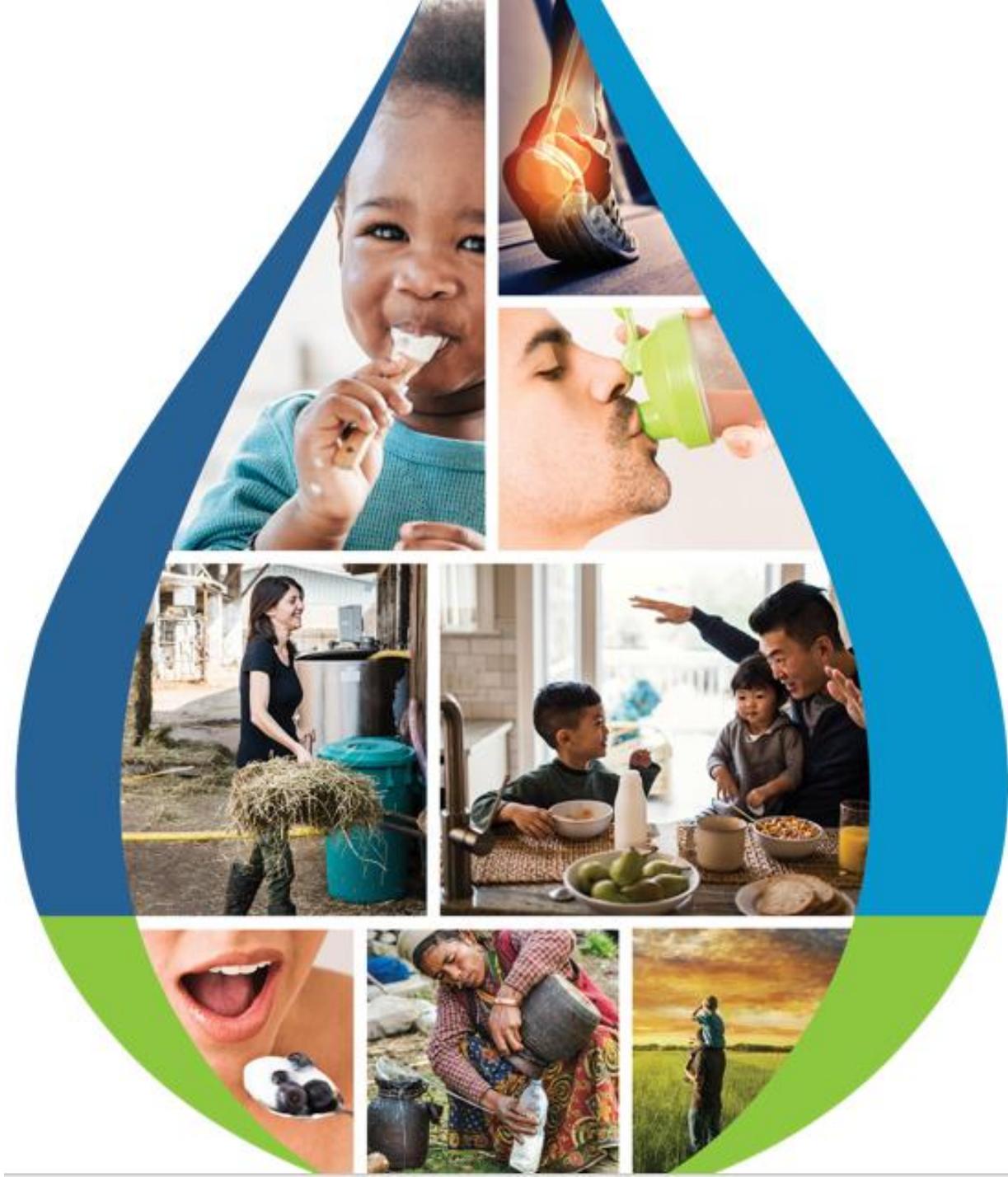
Consumption of dairy products in low-income households was associated with reduced stunting, underweight and wasting.



Dairy development can thus be considered a **useful instrument** in the quest to **achieve SDG2**, while simultaneously supporting **SDG1**







Dairy's impact on reducing
global hungry

Thanks