

An Investment Framework for Nutrition

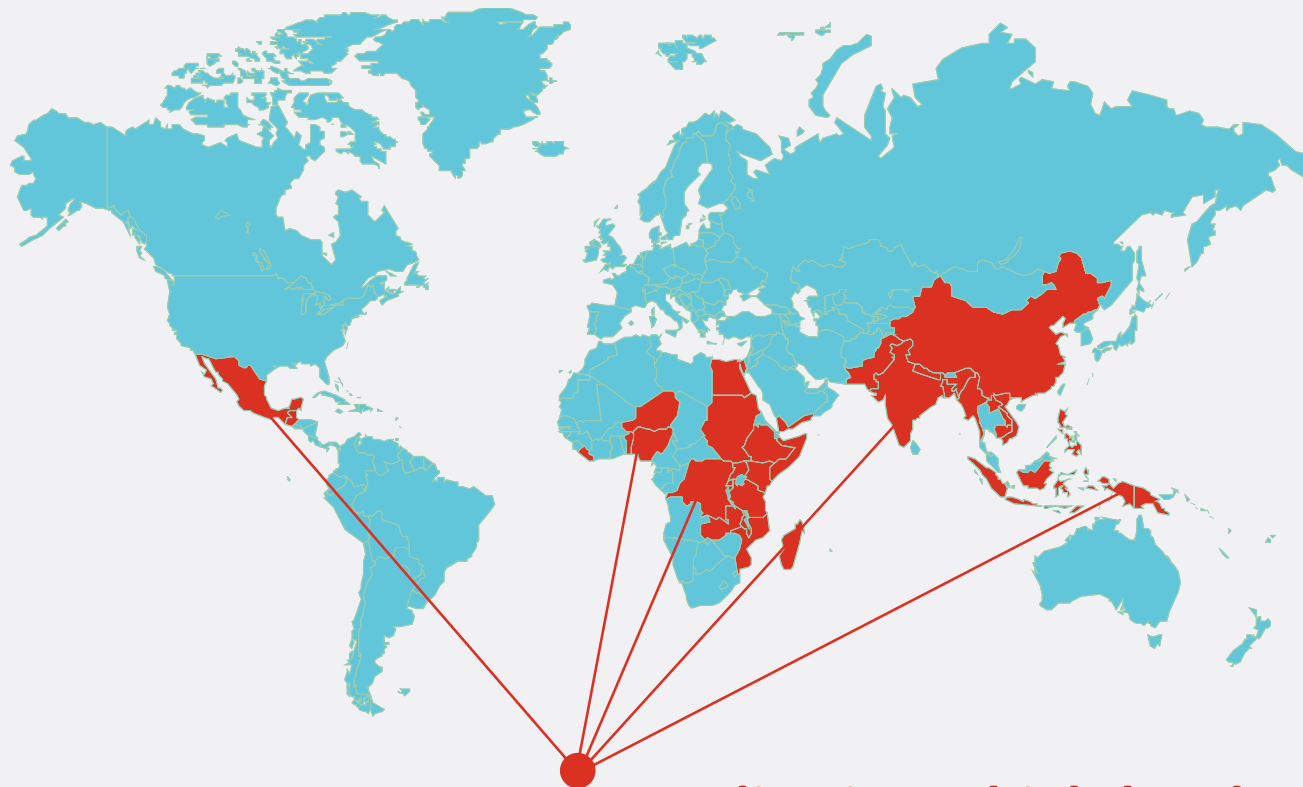
Meera Shekar

Global Lead, Nutrition
World Bank

December 2, 2016



THE PROBLEM



**159 MILLION
CHILDREN
UNDER 5
ARE STUNTED
WORLDWIDE**

85% live in 37 high-burden countries



WORLD BANK GROUP

INVESTMENTS IN NUTRITION BUILD HUMAN CAPITAL AND BOOST SHARED



SCHOOLING

Early nutrition programs can increase school completion by one year



EARNINGS

Early nutrition programs can raise adult wages by 5-50%



POVERTY

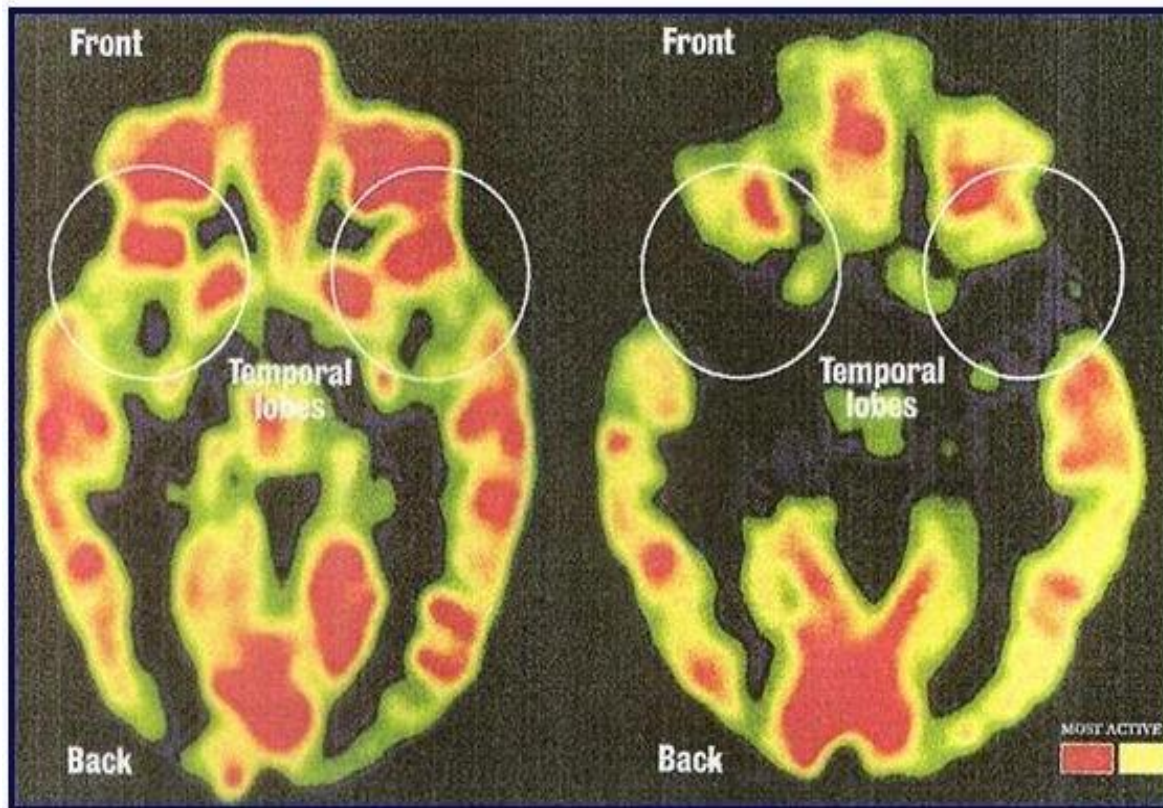
Children who escape stunting are 33% more likely to escape poverty as adults



ECONOMY

Reductions in stunting can increase GDP by 4-11% in Asia & Africa

THE CYCLE OF POVERTY AND LACK OF OPPORTUNITY BEGINS IN THE EARLY YEARS.



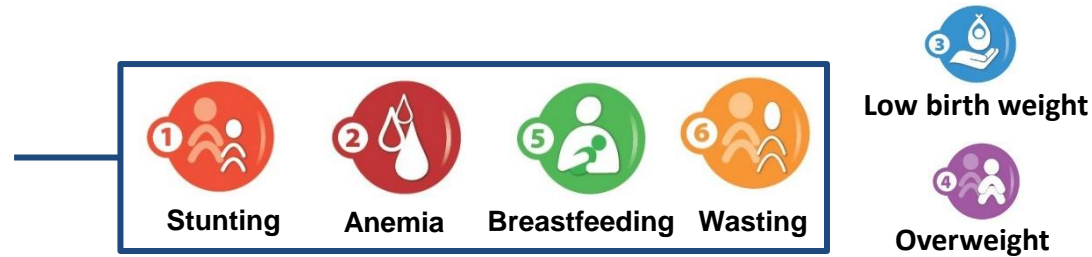
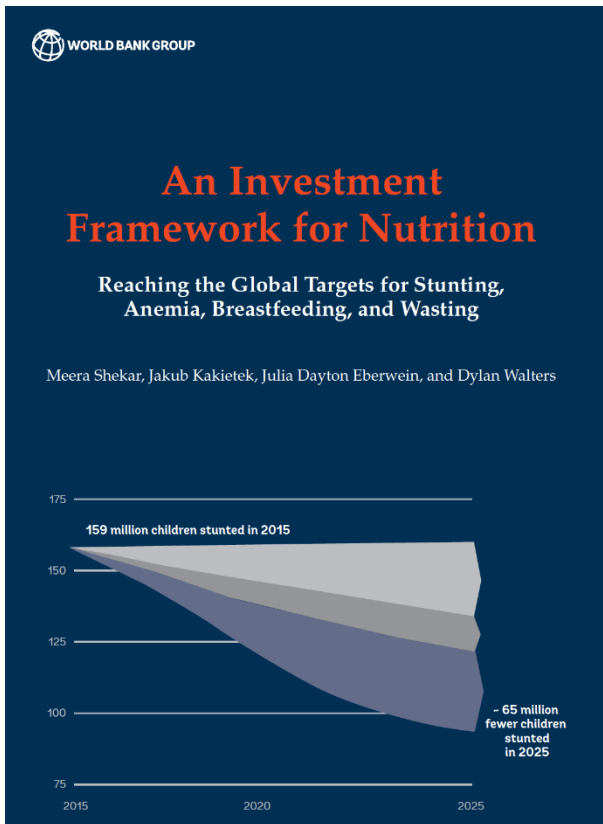
**Healthy, cared
for child**

**Child with stunted
brain development**

Source: Cordero E, D'Acuna E, Benveniste S et al. 1993





1. The early years set the life-long foundation for human capital
2. Adequate nutrition, early stimulation and caring environments in the 1000-day window is imperative for development, learning, and future earning
3. Socio-emotional skills predict future success and productivity
4. Economic growth alone is not enough to address stunting

Global Targets (WHA/SDGs)



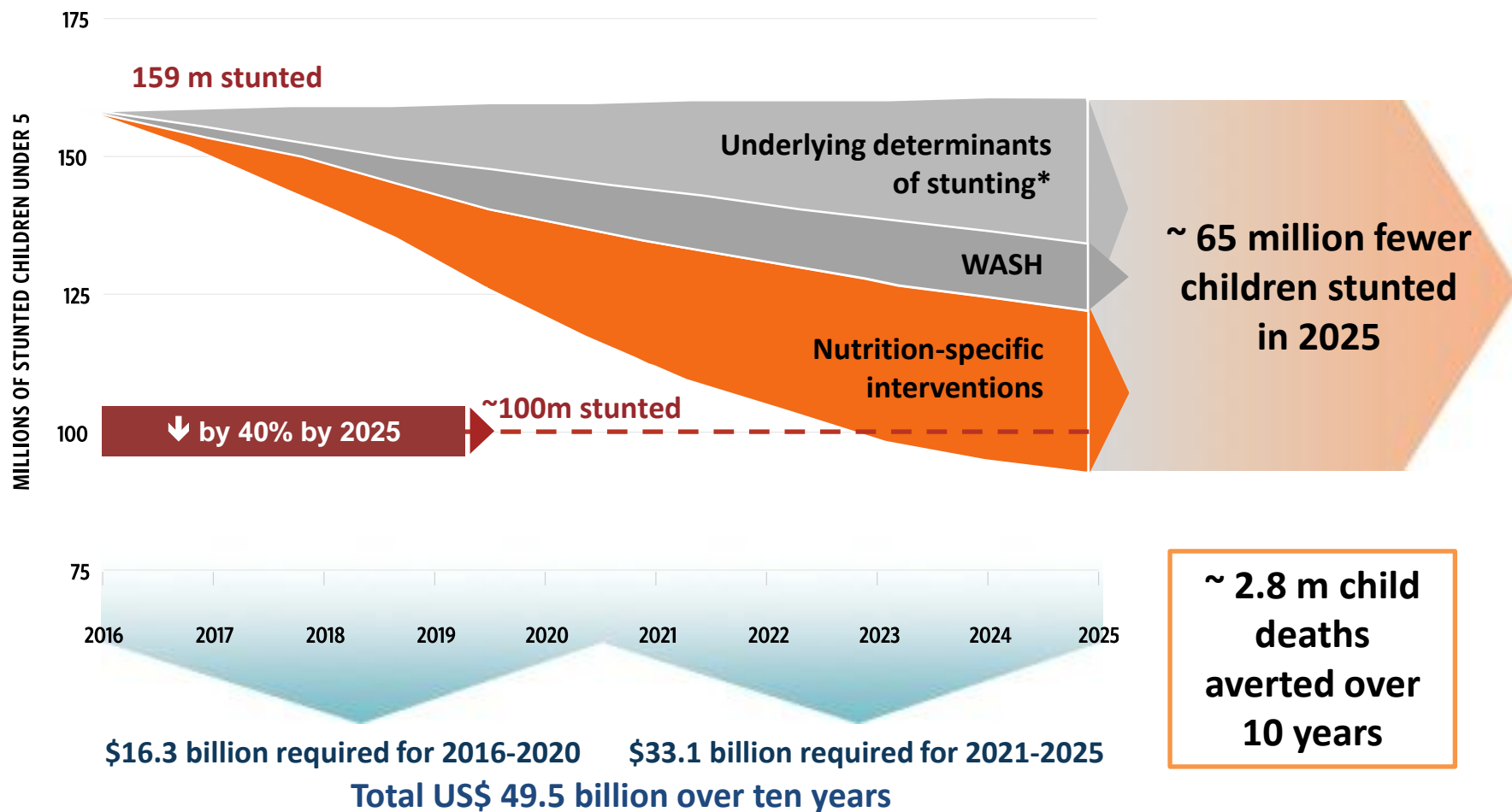
- How much it will cost?
- What will we buy with this investment?
 - Nutrition
 - Health/lives saved
 - Economy
- How can it be financed?

SCALING UP HIGH-IMPACT INTERVENTIONS TO ACHIEVE THE NUTRITION TARGETS

Target	Intervention to Achieve Targets
 <p>Stunting</p>	<ul style="list-style-type: none"> ✓ Vitamin A supplementation for children ✓ Infant and young child nutrition counseling ✓ Prophylactic zinc supplementation for children ✓ Antenatal micronutrient supplementation ✓ Balanced energy protein supplementation for pregnant women ✓ Intermittent presumptive treatment for malaria in pregnancy
 <p>Anemia</p>	<ul style="list-style-type: none"> ✓ Antenatal micronutrient supplementation ✓ IFA supplementation for non-pregnant women ✓ Staple food fortification
 <p>Breastfeeding</p>	<ul style="list-style-type: none"> ✓ Infant and young child nutrition counseling ✓ Pro-breastfeeding social policies ✓ National breastfeeding promotion campaigns
 <p>Wasting</p>	<ul style="list-style-type: none"> ✓ Treatment of severe acute malnutrition



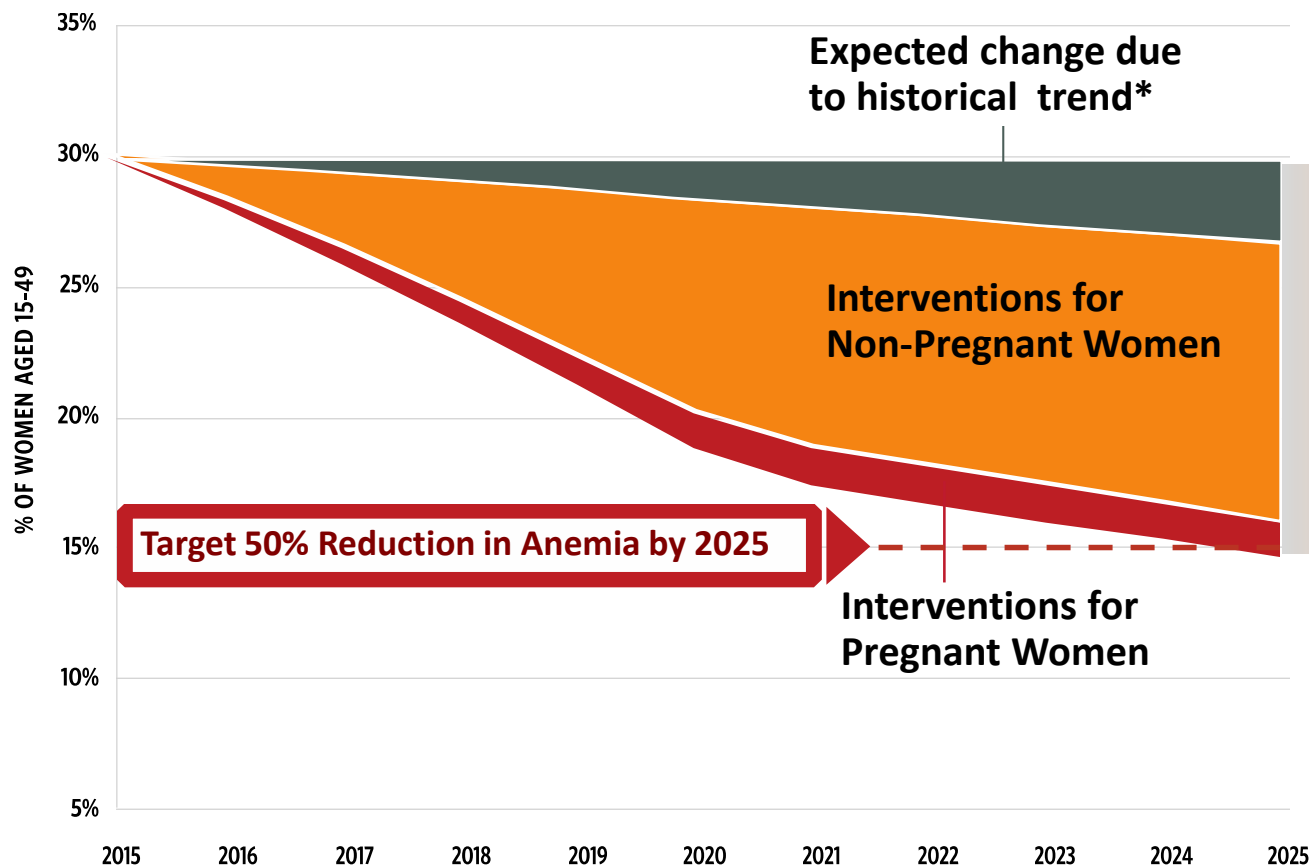
ADDITIONAL COSTS AND IMPACTS OF REACHING STUNTING TARGET



**Includes food availability and diversity, women's education, empowerment and health and water, sanitation and hygiene.*



ADDITIONAL COSTS AND IMPACTS TO ACHIEVE THE ANEMIA TARGET



799,000 child deaths averted over 10 years

➤ 265m cases of anemia prevented



Total Public/Donor Costs = US\$ 12.9b over 10 years

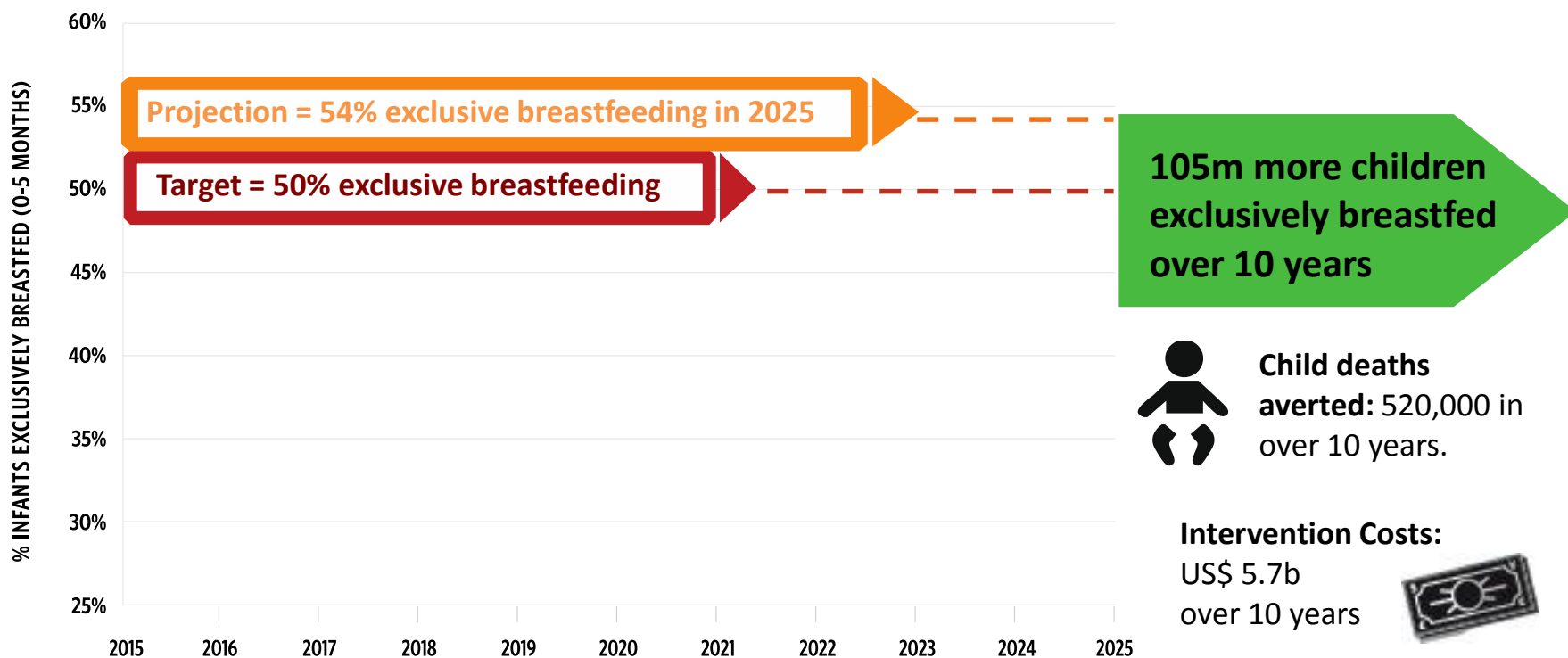


Total Household Costs = US\$ 19.6b over 10 years

* Represents extension of Average Annual Rate of Reduction (AARR) of Anemia rate without scale-up.



ADDITIONAL COSTS AND IMPACTS TO ACHIEVE BREASTFEEDING TARGET



Child deaths averted: 520,000 in over 10 years.

Intervention Costs:

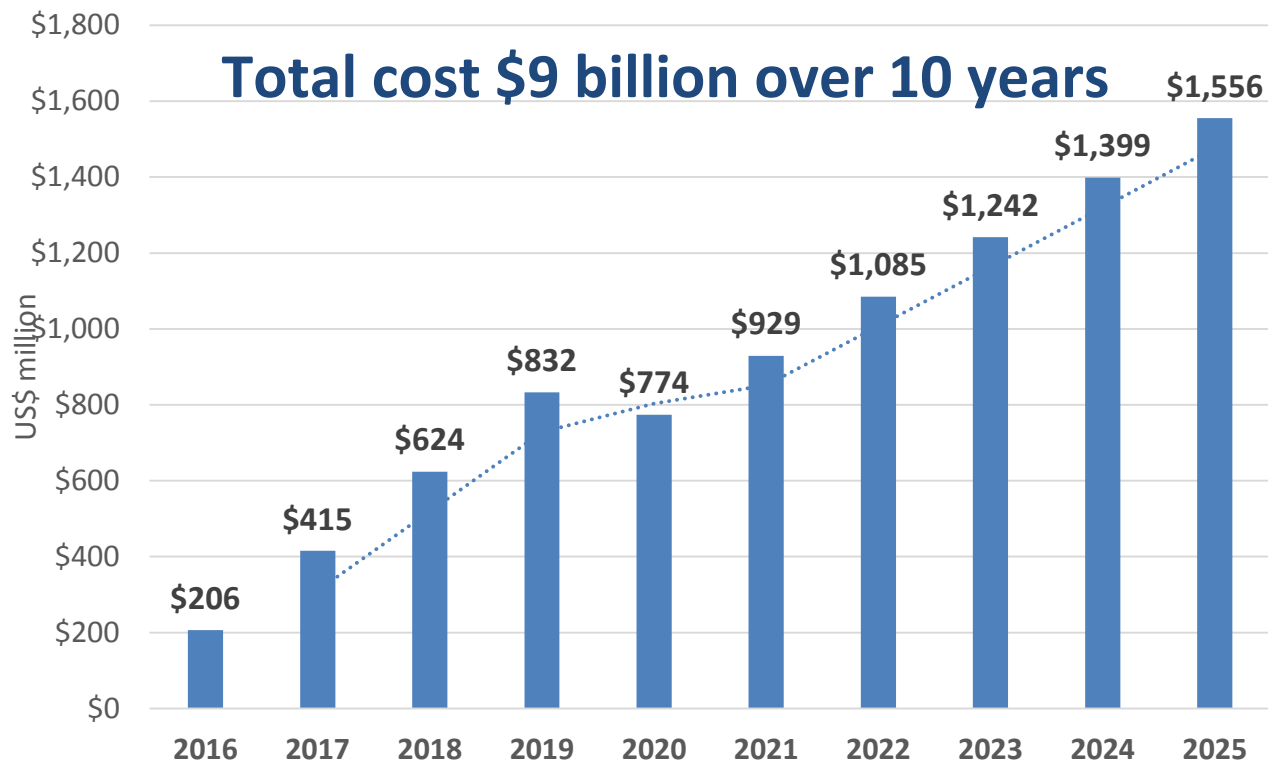
US\$ 5.7b over 10 years



Maternity leave cash benefits would add \$24.1b

**Maternity leave cash benefits would add US\$ 24.1b over 10 years*

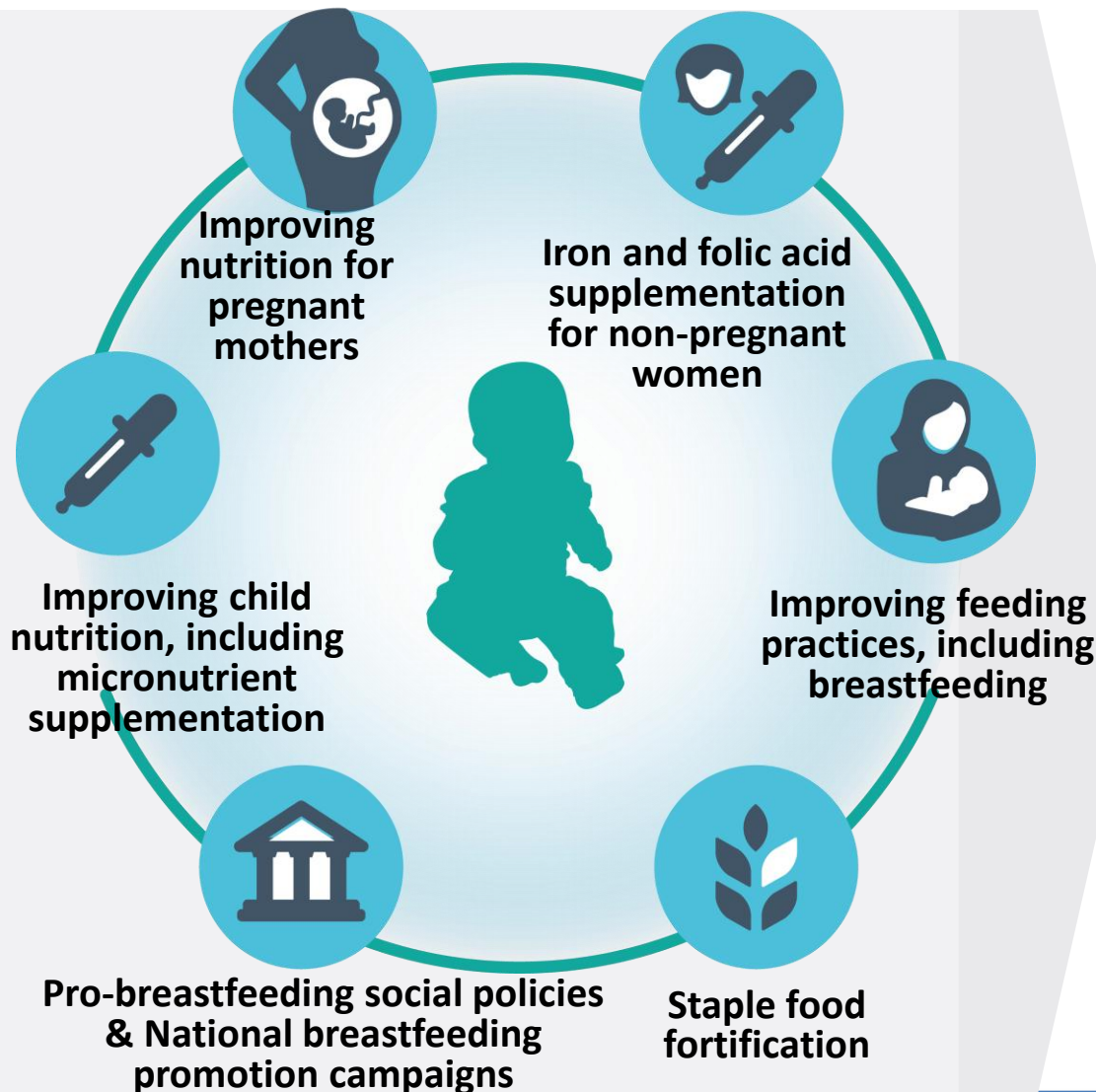
ADDITIONAL COSTS AND IMPACTS TO SCALING UP TREATMENT OF WASTING



~91m cases of severe acute malnutrition treated
~860,000 child deaths averted

Annual additional costs of severe wasting treatment

AN AFFORDABLE PACKAGE OF NUTRITION-SPECIFIC INTERVENTIONS TO ACHIEVE THE WHA TARGETS



**~\$10 per child annually
\$70B over 10 years**

in addition to current spending



**Continued improvements
in underlying factors:**



**Water and
sanitation**



**Women's
education,
health
and
empowerment**



**Food
availability
and
diversity**

BENEFITS OF ACHIEVING NUTRITION TARGETS IN 2025



STUNTING

65 million cases of stunting prevented

2.8 million child deaths averted



BREASTFEEDING

105 million additional babies exclusively breastfed

520,000 child deaths averted

ANEMIA

265 million cases of anemia in women prevented

799,000 child deaths averted



WASTING

91 million children treated for severe wasting

More than **860,000** child deaths averted



BENEFITS OF ACHIEVING ALL FOUR TARGETS

65 million cases of stunting prevented
At least 3.7 million child deaths prevented

Political Commitment for Nutrition is Rising... Human Capital Summit, Oct 2016

"...there's no credibility in talking about equality of opportunity if children start off their lives unable to participate, unable to compete in the economy of the future."

--World Bank President Jim Kim champions the cause at Annual Meetings, Oct 2016...



**7 Finance Ministers +
1 Prime Minister
respond...**

"...as a big country with 37 percent of population stunt[ed] you're actually losing the opportunity for the next generation to be able to not only enjoy the growth, to be part of the whole development process is becoming impossible" – **Sri Mulyani Indrawati, Finance Minister of Indonesia**

<http://live.worldbank.org/human-capital-summit>

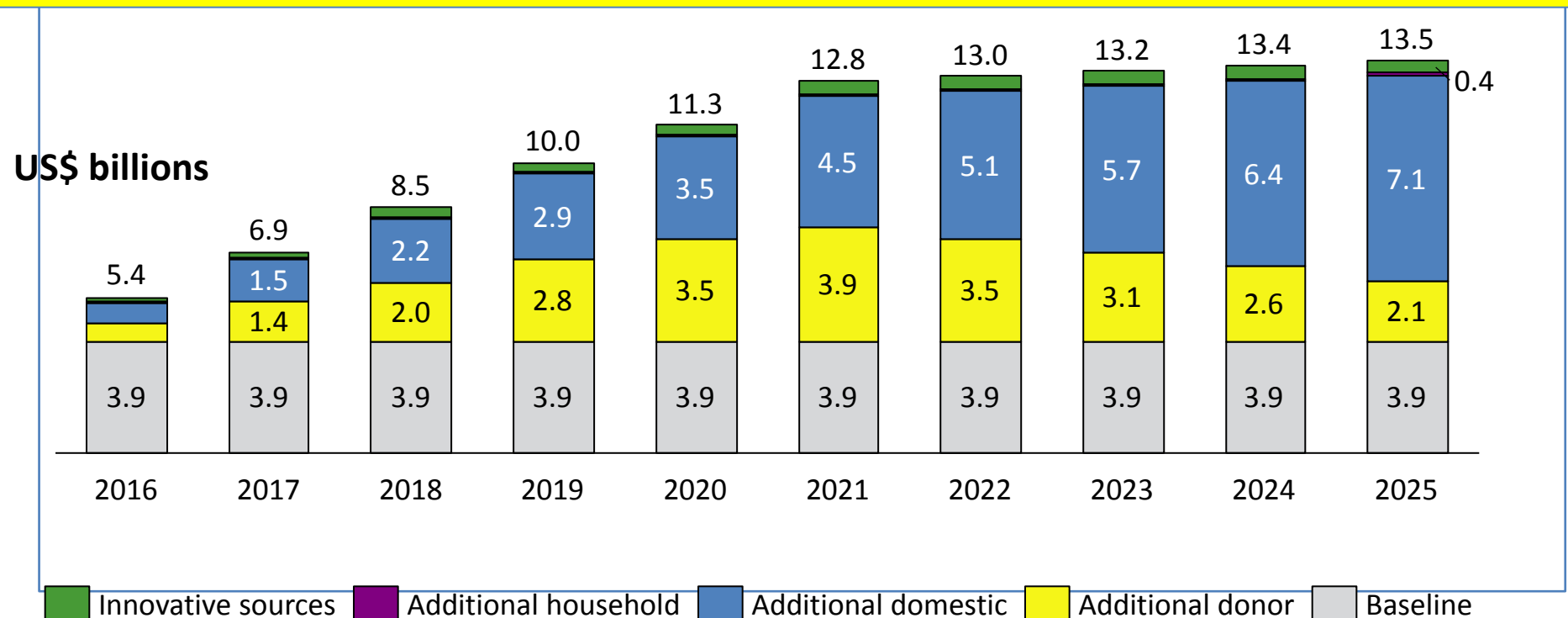


FINANCING THE NEEDS

Global Solidarity Scenario for Full Scale Up



- Annual investments have to increase 3.5-fold by 2025
- Governments contribute 4% of health budgets by 2025
- Donors contribute max 2.8% of total ODA 2021; taper to 1.8% by 2025



Does not include intermittent presumptive treatment of malaria in pregnancy costs (total cost = \$416 M), as it is currently being funded by other sources, including the President Malaria's Initiative, the Global Fund to Fight AIDS, TB and Malaria, and to some extent country governments.





**What if the world
cannot generate the
\$70 billion needed?**

**TWO OPTIONAL
SCENARIOS:**

- A PRIORITY PACKAGE**
- A SCENARIO FOR
CATALYZING PROGRESS**



CATALYZING PROGRESS: A TWO-TRACK SCALE-UP APPROACH

Target	Track 1: Full Scale-up of Priority Interventions	Track 2: Start to Scale-up Catalytic Interventions
 Stunting	<ul style="list-style-type: none"> ✓ Vitamin A supplementation ✓ Infant and young child nutrition counseling ✓ Antenatal supple ✓ IPTp 	<ul style="list-style-type: none"> ✓ Balanced energy protein suppl. ✓ Prophylactic zinc supplementation ✓ Public provision of complementary food
 Anemia	<ul style="list-style-type: none"> ✓ IFA ✓ pr ✓ sc ✓ FI 	<ul style="list-style-type: none"> ✓ IF ✓ F ✓ I
 Breastfeeding	<ul style="list-style-type: none"> ✓ Infa ✓ couns ✓ Pro-breast ✓ National breastfeeding promotion campaigns 	
 Wasting	<ul style="list-style-type: none"> ✓ Treatment of severe acute malnutrition 	

Total Cost
\$23 b/10
years

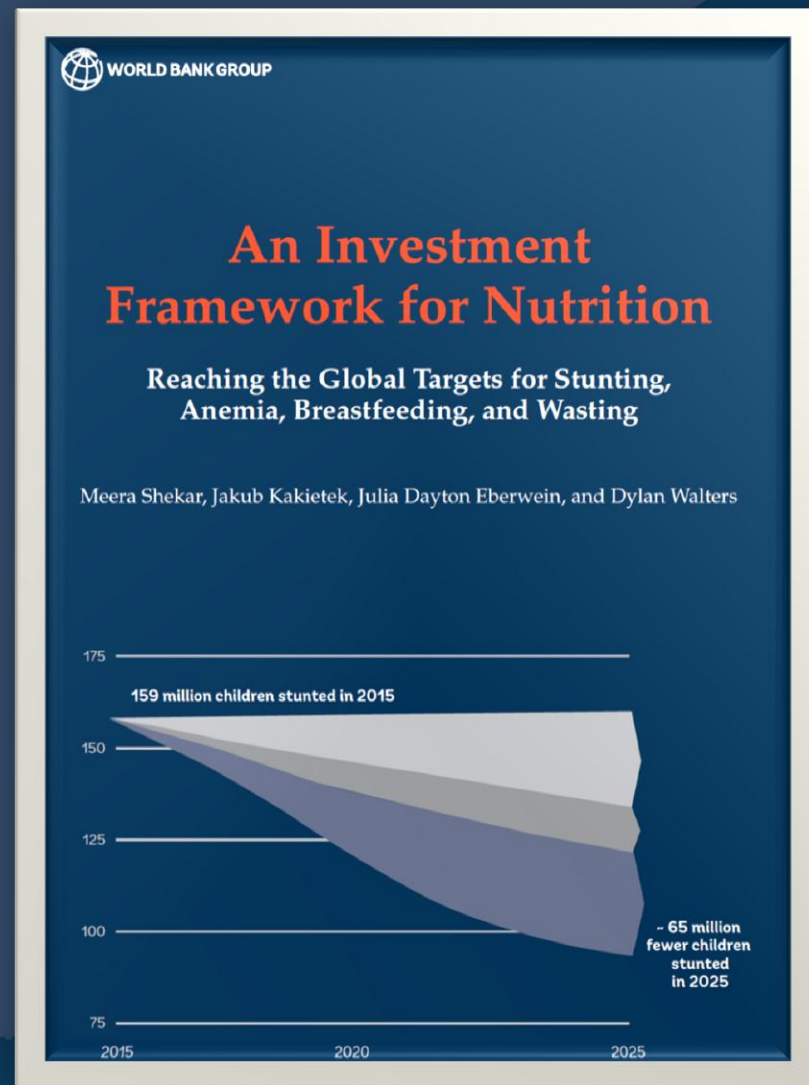
Total Cost
\$37 b/10
years

Pin
focus
bottlenecks to scaling-up
Scale up phase (2021-2025):
scale up to 60% coverage for
catalytic investments

KEY RECOMMENDATIONS

- 1. The world needs \$70 billion over 10 years** to invest in high-impact nutrition-specific interventions in order to reach the global targets.
- 2. This level of financing is feasible under a global solidarity scenario** (Domestic, ODA and innovative sources)
- 3. Recent experience from several countries (e.g. Peru, Senegal) suggests that meeting these targets is feasible.**
- 4. Specific future research needs to be prioritized:**
 - Research on scalable strategies for delivering high-impact
 - Assessment of allocative efficiency
 - Ways to improve the technical efficiency of nutrition spending
 - Strengthening the quality of surveillance data, unit cost data for interventions in different country contexts, and building stronger data collection systems for estimating current investments
 - effort to understanding which interventions prevent wasting
 - costs and impacts of nutrition-sensitive interventions

**Full Report
available at:**



<http://www.worldbank.org/en/topic/nutrition/publication/an-investment-framework-for-nutrition-reaching-the-global-targets-for-stunting-anemia-breastfeeding-wasting>