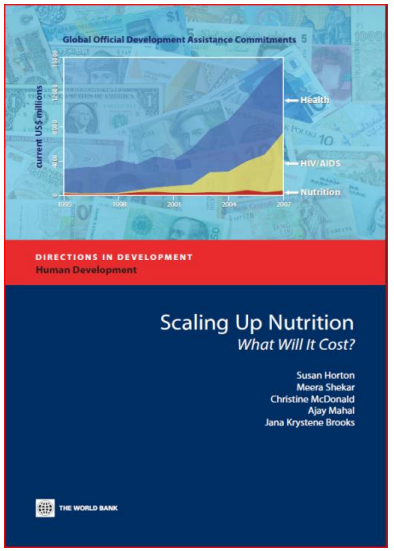
Scaling-up Nutrition – What will it cost?



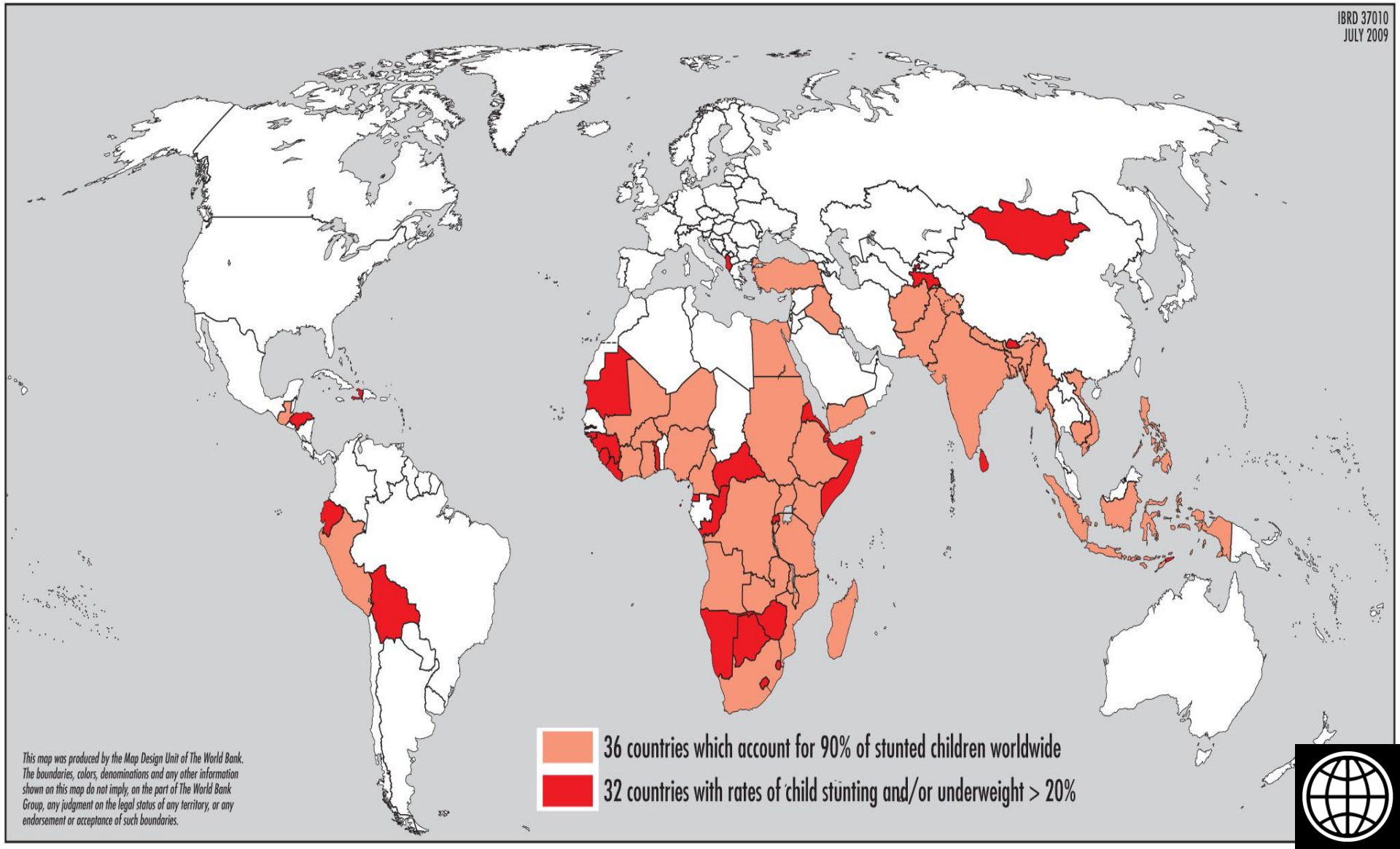
Part II…at country level:

Costed scale-up plans

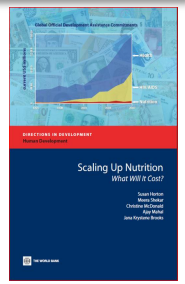
EC Meeting on SUN, Brussels, March 2013

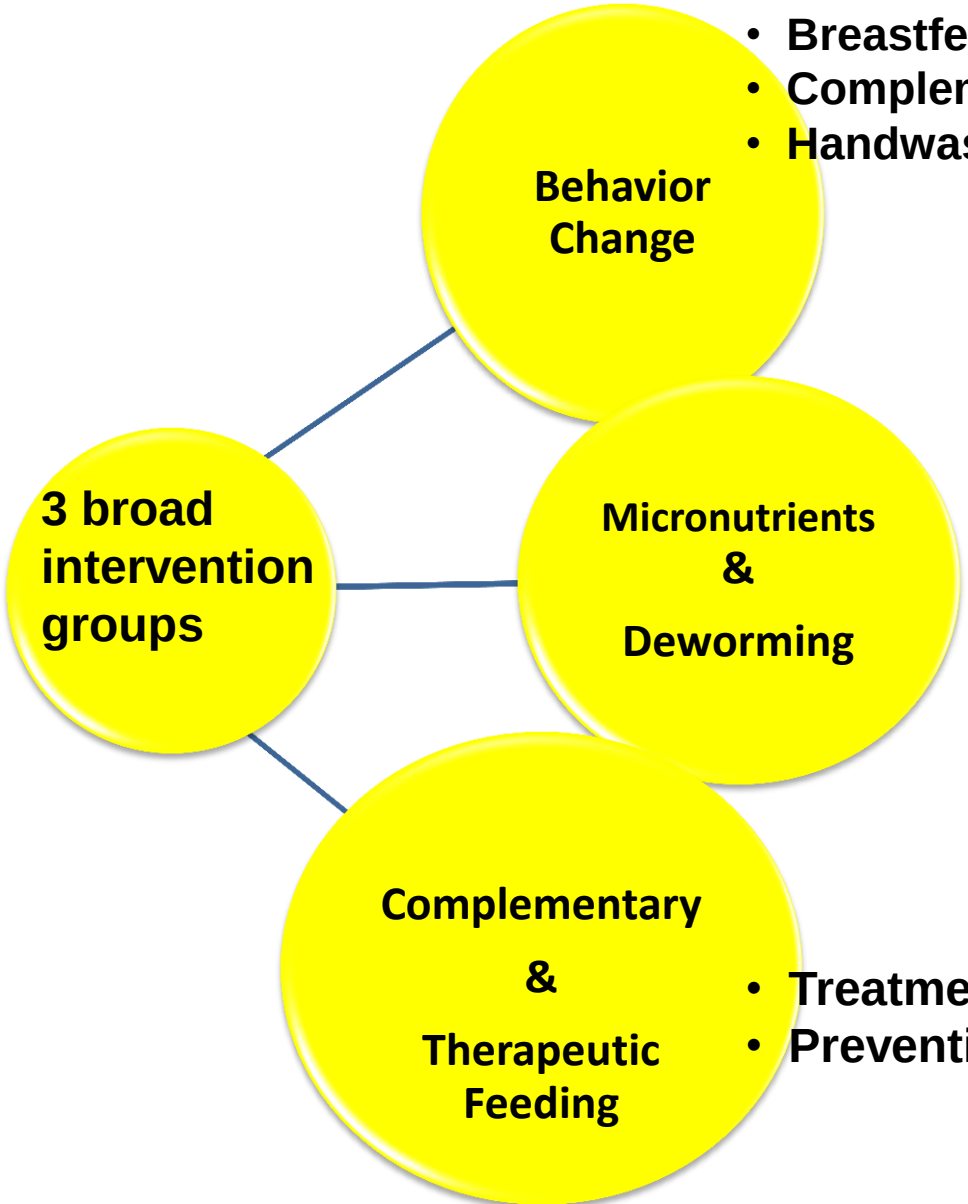
Meera Shekar
Lead Health & Nutrition Specialist, World Bank

SUN Costing Part I: 36 priority & 32 small countries



Focus on 13 nutrition-specific interventions
(subset of Lancet interventions)



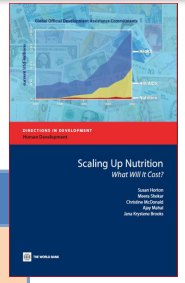


- **Breastfeeding**
- **Complementary feeding**
- **Handwashing**

- **Micronutrients for children:**
  Vitamin A, therapeutic Zinc, multiple micronutrient powders,& deworming
- **Supplements for pregnant women:**
  Iron-folic acid, iodized oil capsules (if needed)
- **Fortification for general population:**
  Salt iodization, iron fortification of staple foods

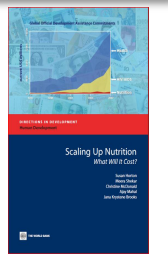
- **Treatment** of severe acute malnutrition
- **Prevention/treatment** of moderate malnutrition

Costing interventions…and identified delivery platforms…



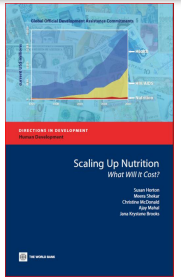
Micronutrient & deworming interventions			
Intervention	Target Group	Costed Delivery Platform	Cost
Vitamin A supplementation	Children 6-59 months of age	Child Health Days	US$1.20/child/year
Therapeutic zinc supplements	Children 6-59 months of age	Child Health Days	US$1/child/year
Multiple micronutrient powders	Children 6-23 months of age	Community Nutrition Programs	US$1.80/child 6-11 months/year; US$3.60/child 12-23 months/year
Deworming	Children 12-59 months of age	Child Health Days	US$0.25/round/year

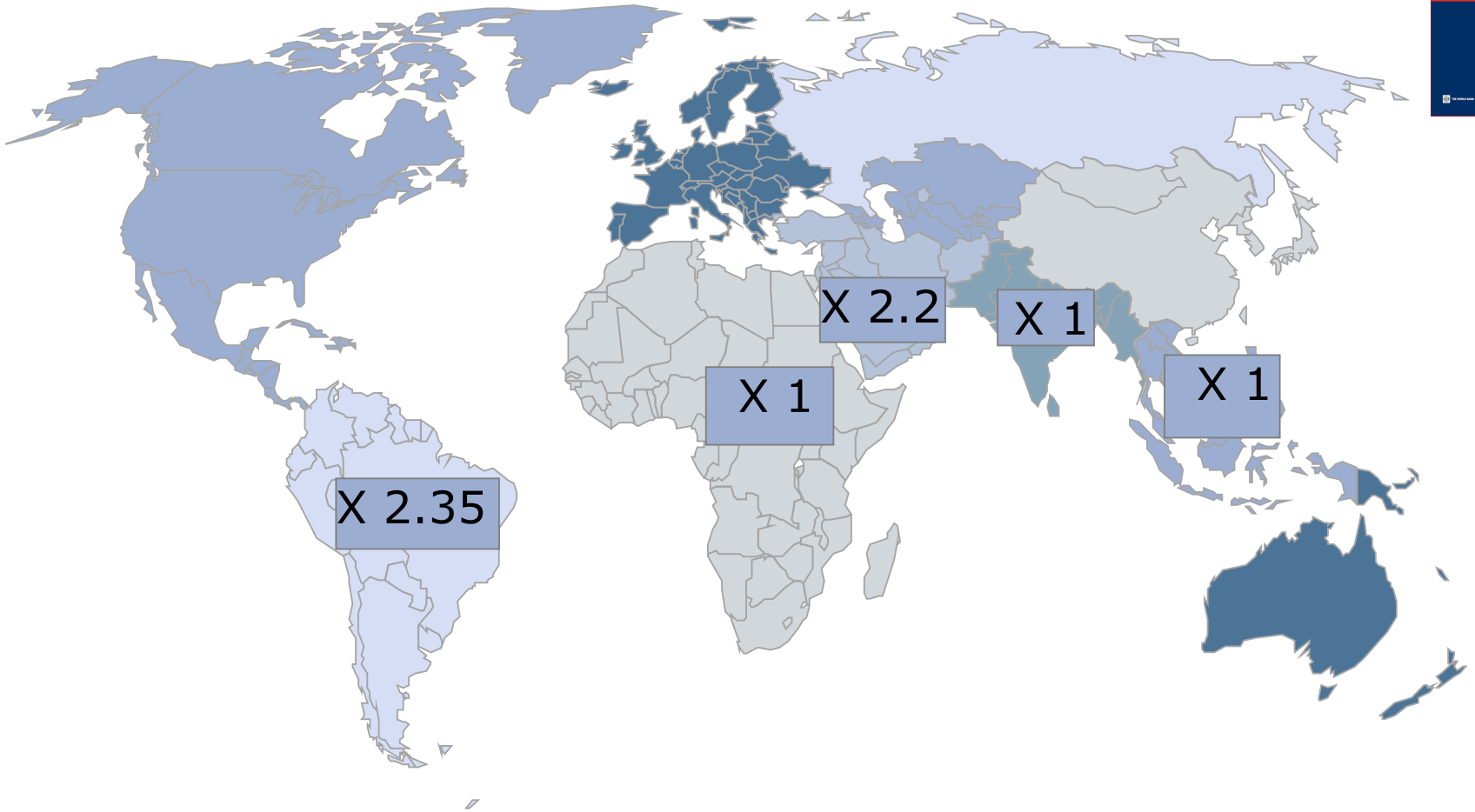
Costing methodology used



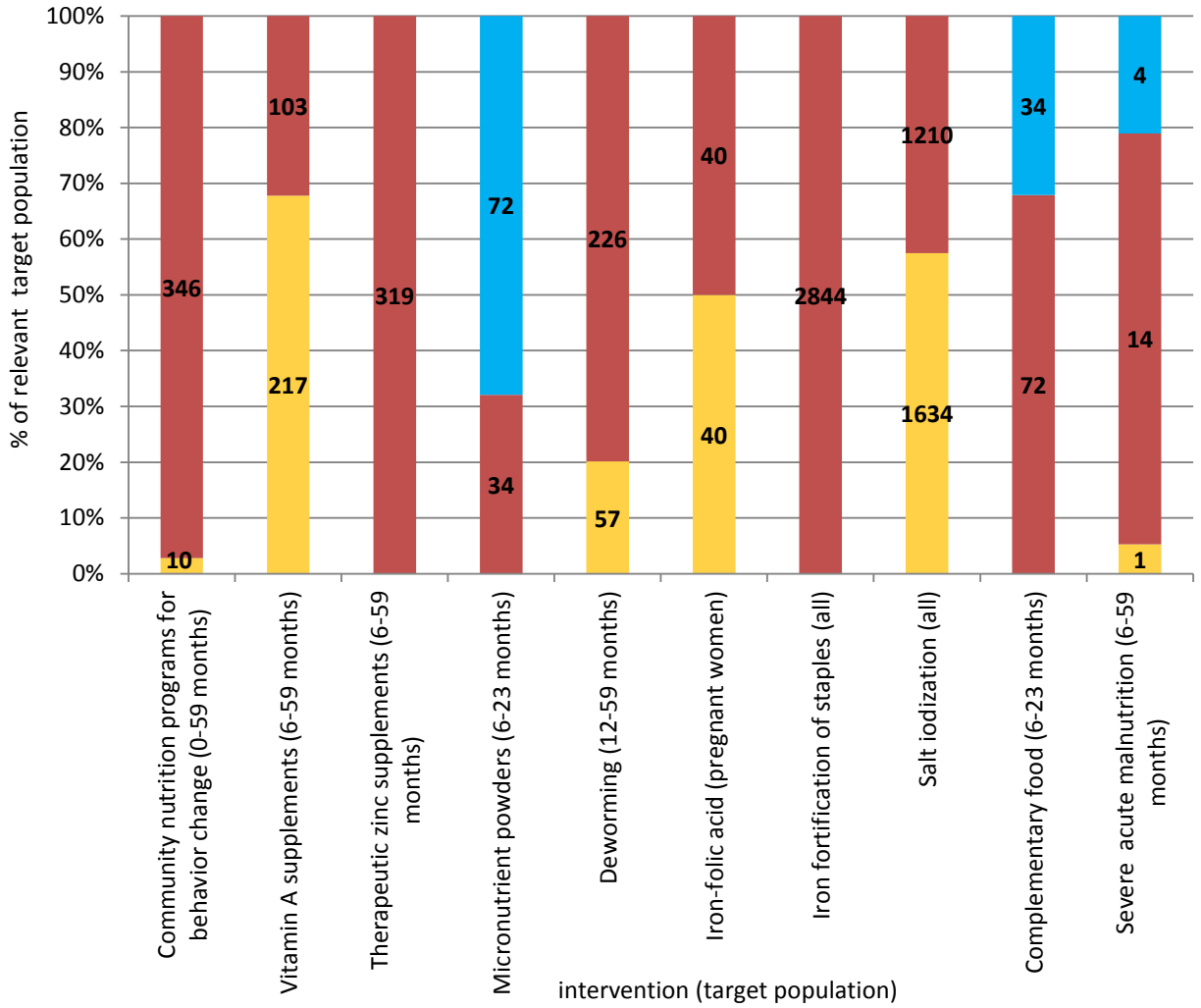
Program experience approach**	• Unit costs taken from field experience
Ingredients approach	• Unit costs from comprehensive source using median of field experience

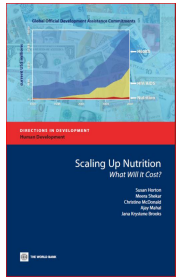
Regional cost multipliers used



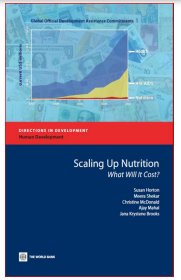


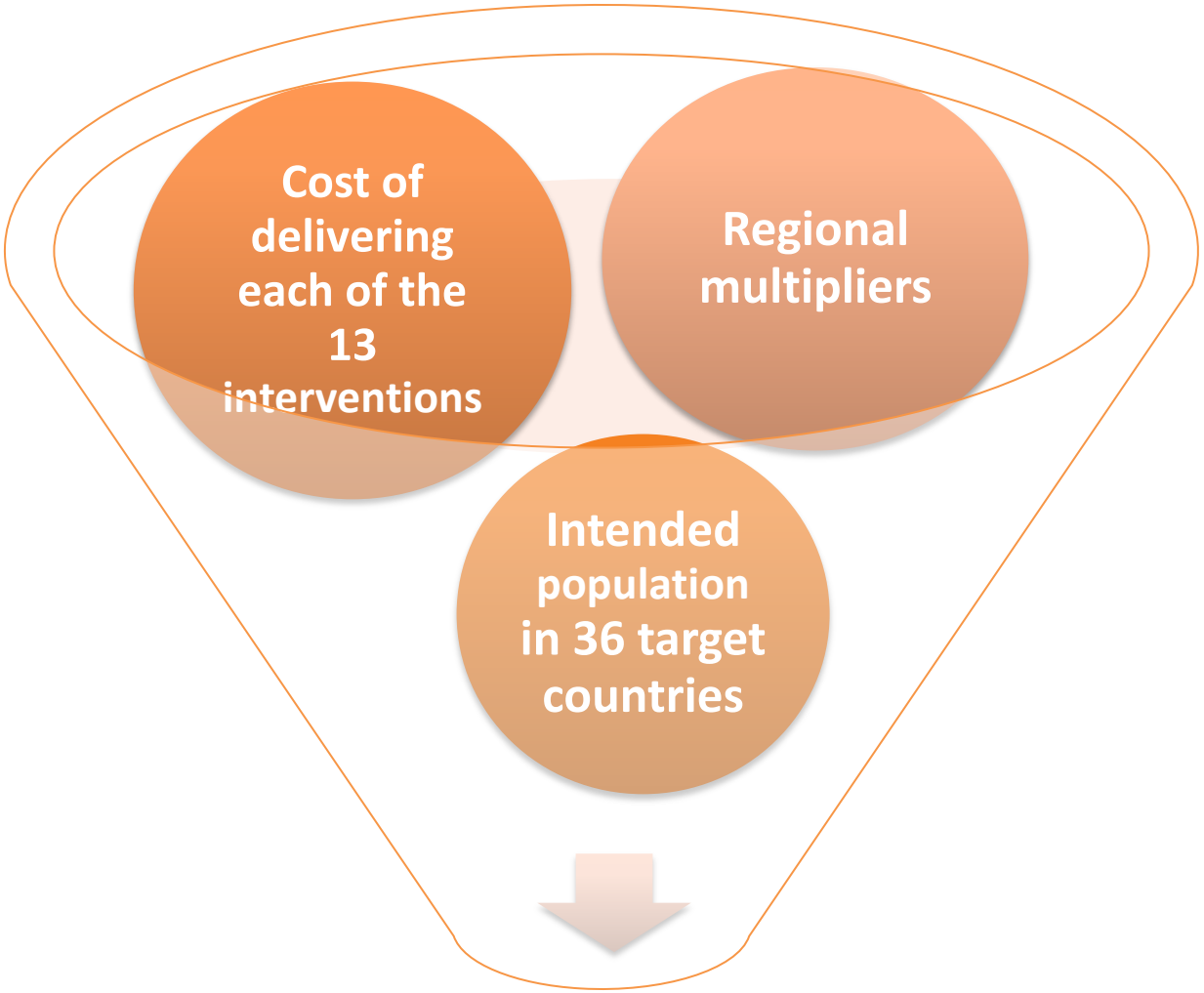
Population currently covered, and additional coverage needed





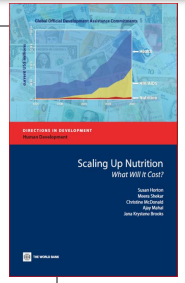
Calculating the total cost

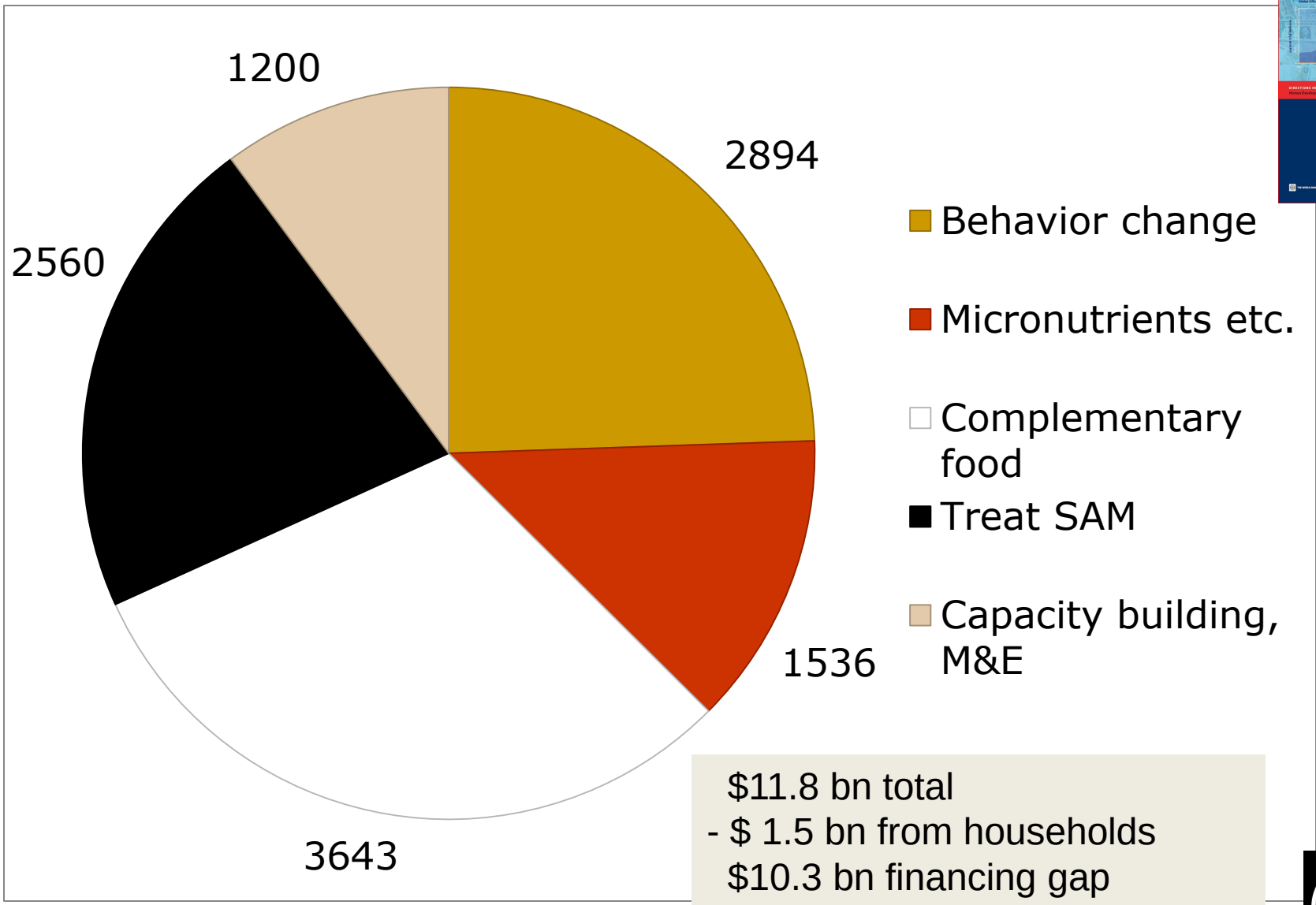




Total cost of intervention

Total annual cost - $11.8 billion





$11.8 bn total
- $ 1.5 bn from households
$10.3 bn financing gap

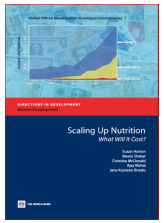
Scaling-up in two steps

Step 1: With an investment of US$5.5 billion*

- **US$2.9 billion**
  - Behavior change programs
- **US$1.5 billion***
  - Micronutrients
  - Deworming
- **US$1 billion**
  - Capacity development for program delivery
- **US$0.1 billion**
  - Monitoring and evaluation
  - Operations research and technical support for program delivery

Step 2: With an investment of an additional US$6.3 billion*

- **US$3.6 billion***
  - Complementary feeding to prevent and treat moderate malnutrition
- **US$ 2.6 billion**
  - Treatment of severe acute malnutrition
- **US$0.1 billion**
  - Monitoring and evaluation
  - Operations research and technical support for program delivery



$11.8 bn total
- $ 1.5 bn from households
$10.3 bn financing gap

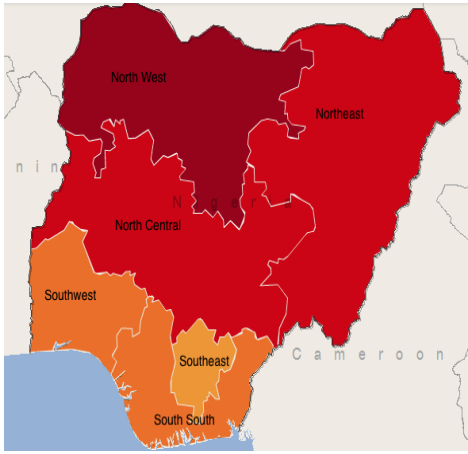
Phase II: Country level …

- What is new?
  - Customised to country context
  - Country needs primary consideration
  - In partnership with
    - country colleagues
    - BMGF
    - other partners at country level (CIFF, UNICEF, DFID, EC, USAID, CIDA, CSOs…)

Costed scale-up plans

- **Focus on selected countries** *(6-9, Final list TBD)*
  - Nigeria, Togo, Zambia… others…?
- **Tailored to specific country context**
  - Existing coverage of interventions
  - Changing burden of disease
  - Delivery platforms
  - Phasing of interventions
    - Geographic targeting/scale-up?
    - Scale-up plan based on interventions?
    - Cost considerations?
    - Capacity & commitment considerations –at national and regional levels?

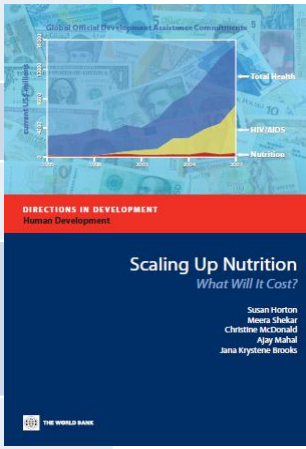
Saving One Million Lives (**SOML**) Initiative



- **Sustainability & ownership**
  - Build in-country capacities to do costing and develop scale-up plans

Nigeria -- Starting point:
Costs of Scaling Up 10 Key Nutrition-Specific Interventions (to be revised)

Intervention	Annual Cost (US$)
Community programs for growth promotion (breastfeeding, CF, hygiene)	$214,589,303
Vitamin A Supplementation	$2,775,840
Zinc Supplementation	$25,702,222
Micronutrient powders	$15,967,190
Deworming	$8,816,071
IFA Supplementation for Pregnant women	$7,500,759
Iron Fortification of Staples	$34,120,888
Salt Iodization	$255,907
Complementary Food for Prevention of Moderate Malnutrition	$389,257,139
CMAM for Severe Malnutrition	$287,864,881
TOTAL	**$986,850,200**

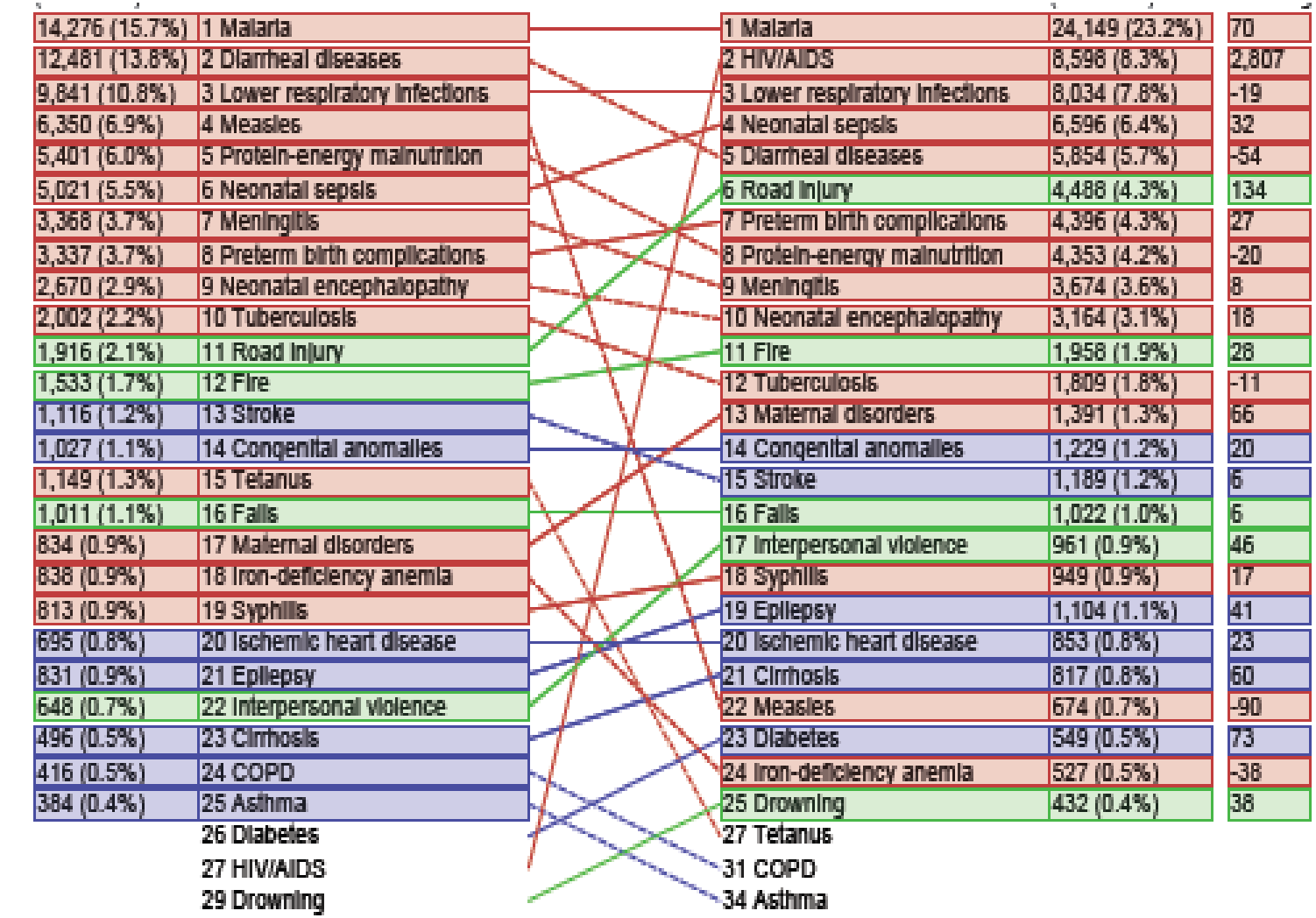


Country level: what else is new?

- **<u>Explore</u> costing for potential "nutrition-sensitive" interventions in Agriculture & Social protection in selected countries**
  - Bio-fortification (e.g cassava in Nigeria)
  - Agricultural technologies to reduce women's workloads
  - Zinc fertilisers
  - Aflatoxin control
  - Incorporating nutritional considerations in to agriculture extension (training , job descriptions, etc.)
  - CCTs (incremental cost of the Nutrition conditions)

Nigeria: Changing Burden of Disease

25 Causes of Years Life Lost (YLLs in 1000s) 1990-2010



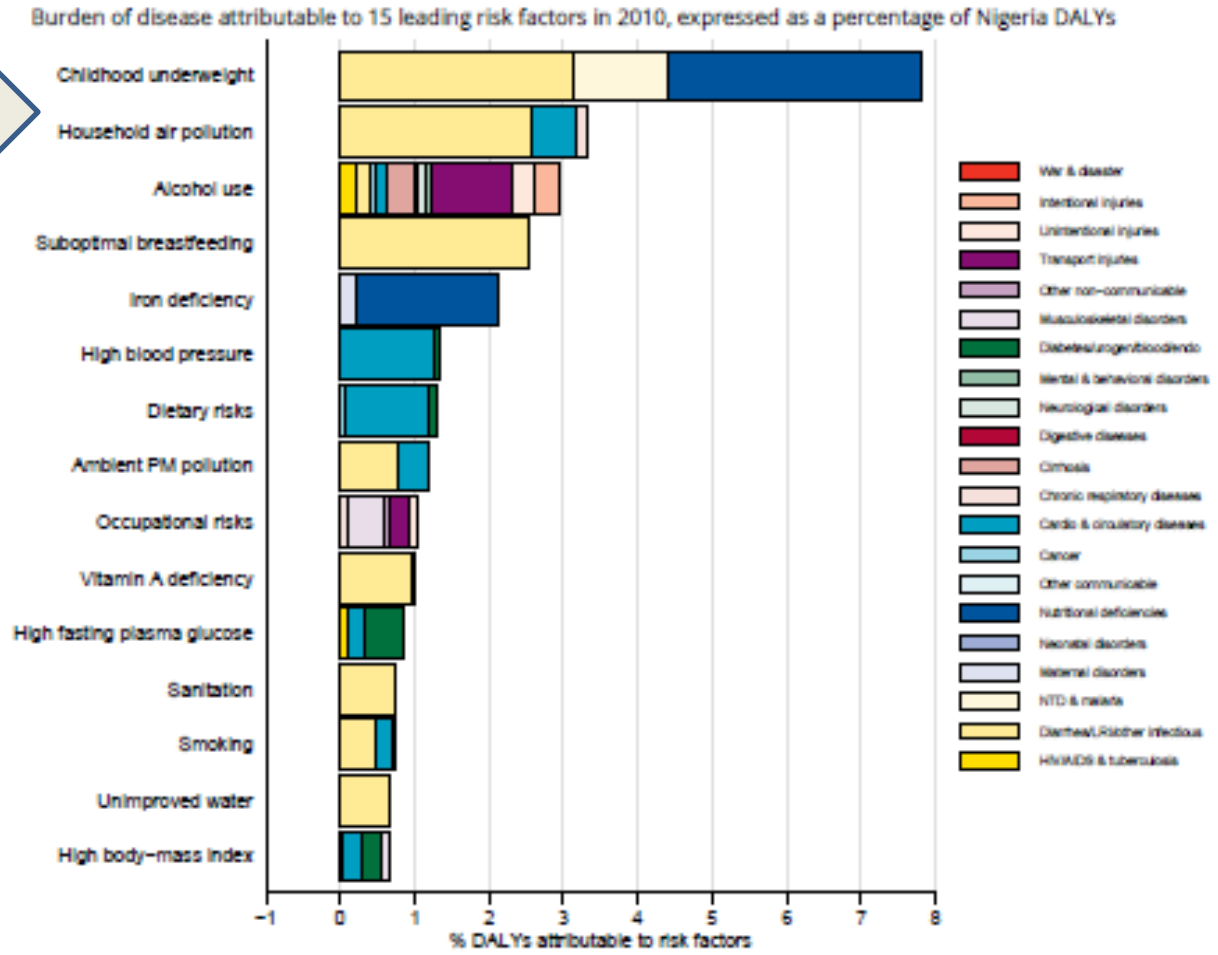
This chart shows the change in the top 25 causes of YLLs due to premature mortality from 1990 to 2010. Solid lines indicate a cause has moved up in rank or stayed the same. Broken lines indicate a cause has moved down in rank. The causes are color coded by blue for non-communicable diseases, green for injuries, and red for communicable, maternal, neonatal, and nutritional causes of death.

Source: Murray et al, 2013

Nigeria: Risk factors for the highest Burden of disease (Children under 5, + adults 15-49, 2010

3 Highest risk factors

The graph shows the top 15 risk factors for Nigeria. The colored portion of each bar represents the specific diseases attributable to that risk factor while bar size represents the percentage of DALYs linked to specific risk factors.



Source: Murray et al, 2013

Rank order of Leading Causes of DALYs in 2010:
Nigeria compared with other countries

Ranking of leading age-standardized rates of disability-adjusted life years (DALYs) relative to comparator countries in 2010

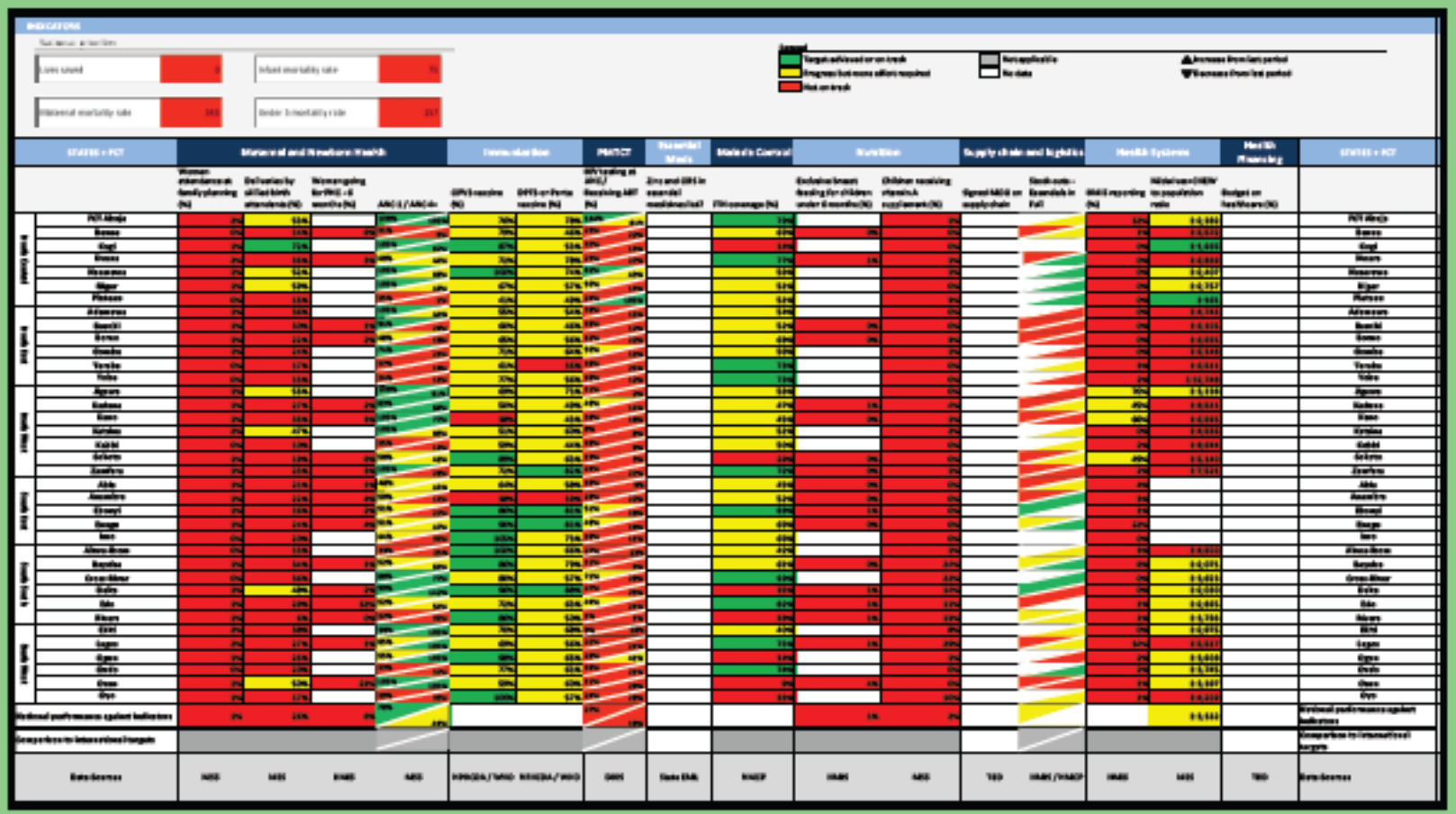
Country	Malaria	HIV/AIDS	Lower respiratory infections	Neonatal sepsis	Diarrheal diseases	Road injury	Protein-energy malnutrition	Preterm birth complications	Meningitis	Neonatal encephalopathy	Iron-deficiency anemia	Low back pain	Fire	Tuberculosis	Maternal disorders	Congenital anomalies	Falls	Stroke	Epilepsy	Sickle cell	Major depressive disorder	Interpersonal violence	Ischemic heart disease	Syphilis	Cirrhosis
Solomon Islands	5	1	2	5	5	4	6	1	6	1	1	11	7	13	5	2	8	15	3	6	1	11	11	12	10
Papua New Guinea	7	7	15	6	6	5	8	2	8	2	3	12	11	15	8	7	11	4	5	3	8	9	9	9	14
Djibouti	6	13	6	7	9	14	13	7	9	9	11	13	14	10	12	9	3	8	11	7	14	12	5	3	5
Laos	3	2	8	3	8	7	5	11	5	5	5	3	3	14	6	15	6	12	1	1	12	13	12	7	7
Kyrgyzstan	1	5	5	1	1	8	1	10	1	15	2	6	2	3	2	12	7	14	4	5	5	14	15	1	15
Sudan	8	10	3	8	10	9	11	5	7	8	10	15	9	4	7	3	1	1	8	8	15	2	1	15	1
Cameroon	12	15	12	11	13	13	12	8	14	10	7	9	12	5	14	8	14	5	15	14	3	4	8	14	12
Nigeria	**15**	**12**	**11**	**15**	**11**	**15**	**15**	**14**	**13**	**13**	**12**	**14**	**15**	**8**	**13**	**4**	**15**	**3**	**9**	**15**	**2**	**15**	**4**	**13**	**9**
Mauritania	9	8	10	12	12	11	9	12	11	11	15	8	10	7	15	6	9	6	13	9	7	6	6	11	8
Cambodia	4	4	4	4	2	6	4	13	2	6	9	2	1	11	3	13	2	11	2	2	6	8	13	5	3
Tajikistan	2	3	7	2	4	3	2	9	3	12	4	5	4	2	1	14	4	13	6	4	9	5	14	6	11
Senegal	11	6	9	10	14	1	3	4	10	3	14	1	5	9	9	1	10	2	12	10	4	1	2	4	4
São Tomé and Principe	10	9	1	9	3	2	7	3	4	4	6	7	6	1	4	5	5	7	7	11	13	3	3	2	2
Côte d'Ivoire	14	14	14	14	15	12	14	15	15	14	8	4	13	12	11	10	13	10	14	13	10	10	10	8	13
The Gambia	13	11	13	13	7	10	10	6	12	7	13	10	8	6	10	11	12	9	10	12	11	7	7	10	6

Ranking Legend	1 - 3	4 - 7	8 - 11	12 - 15

Source: Murray et al, 2013

Example: Nigeria SOML Scorecard

NIGERIA SOML SCORECARD



Nutrition Activities by Region

North Central Region		
State	**Partners Present**	**Activities**
Benue	SPRING UNICEF and HKI	IYCF MNDC; IYCF; CMAM
FCT- Abuja	SPRING	IYCF
Kogi	None	None
Kwara	None	None
Niger	UNICEF	IYCF; MNDC; NISS
Nasarawa	UNICEF IHVN	MCHW; IYCF RUTF Supply
Plateau	None	None

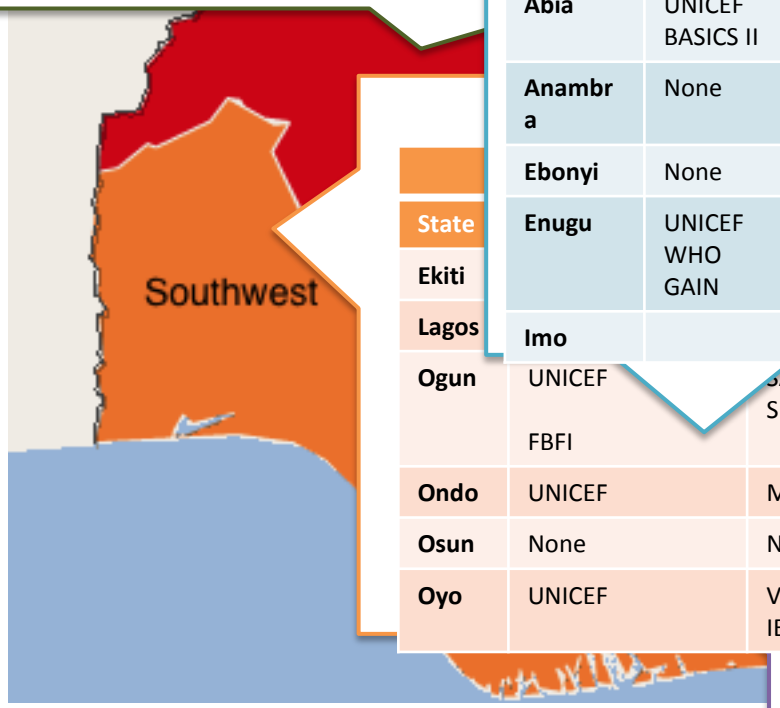
Northwest Region		
State	**Partners Present**	**Activities**
Jigawa	Save the Children ACF MSF UNICEF	WINN, EveryOne Advocacy WINN, CMAM CMAM WINN; MNCHW; Zinc supp; IYCF
Kaduna	None	None
Kano	UNICEF World Bank	MNCHW, CMAM, IYCF, MNDC RBM
		V, CMAM, IYCF, MNDC
		HW, CMAM, IYCF, MNDC
		M (cash transfers), FSL

Southeast Region		
State	**Partners Present**	**Activities**
Abia	UNICEF BASICS II	IYCF; MNDC IYCF; MNDC
Anambra	None	None
Ebonyi	None	None
Enugu	UNICEF WHO GAIN	IYCF; MNDC; Treatment of SAM MNDC
Imo		

State		
Ekiti		
Lagos		
Ogun	UNICEF FBFI	SAM treatment Support for IYC
Ondo	UNICEF	MNCHW
Osun	None	None
Oyo	UNICEF	Vit A, Zinc, IFA IEC materials, RUTF supplies, MNCHW

	esent	**Activities**
		CMAM; IYCF; MNDC
		None
	ildren	MNCHW EveryOne Advocacy CMAM; IYCF
Taraba	MITSOAH UNICEF	MNCHW; SAM
Yobe	Save the Children UNICEF ACF	

Vitamin A supp coverage (%)	55.8



Legend

- Up to 31.0
- 31.1 to 42.3
- 42.4 to 52.5
- 52.6 and hi

Work in-progress…

- Advice, inputs, suggestions welcome!