

Post Gu '11

## Presentation

August 16<sup>th</sup>, 2011

Integrated Nutrition Situation Analysis – Vetting Meeting

**Nutrition Situation Analytical Framework** 







unicef 🕑







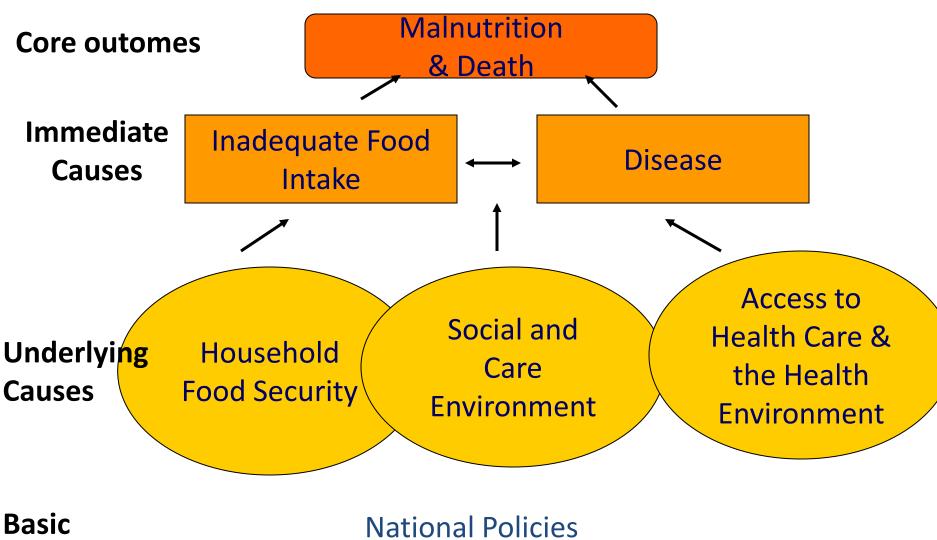








### UNICEF Conceptual Framework on The Causes of Malnutrition



Causes

National Policies Formal and Informal Structure Context and Potential Resources

#### DIVERSE

### **ESNAU** Nutrition Information & Sources Gu 2011 (June-July)

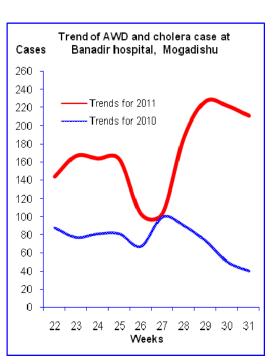
- Nutrition Surveys (based on WHZ, WHO): 45 detailed nutrition surveys (34 large sample, 3 small sample, 2 exhaustive) conducted to establish the situation from 6 months ago:
  - 18 in the Southern populations, including Afgooye & Mogadishu IDPs
  - 2 in Central rural LZ (Hawd, Addun)
  - 7 in northwest and northeast
  - 9 focused on NW/NE IDP populations (Hargeisa, Berbera, Burao, Galkayo, Bossaso, Garowe, Margaga, Qardho, Dusamareb).
  - 8 urban LZ surveys (5 in NW & 3 in NE). Mogadishu Urban done in April 2011
- **Rapid Nutrition assessments based on MUAC** 
  - Coastal Deeh (Central Regions)
  - Cowpea belt (Central Regions)
  - Kismayo IDPs
  - Bardera IDPs
  - Urban centers in over 20 sites in Central and South
- **Health Center Monitoring (HIS):** Collected from 100 health facilities from all regions
- Related Selective Feeding Centre Data
- **Gamma** Secondary Related Data (risk factors for deterioration)
  - Disease outbreaks:
    - Cholera in Shabelle, Central & Juba regions
    - AWD in L & Middle Shabelle, W. Golis, Measles in Hiran & Bakool ; Dengue fever (W.Galbeed). (Source-WHO & Somalia Health Sector Bulletins, Jun-Jul'11)
  - **Drought, food insecurity and displacements in most parts of S** (Source: FSNAU, OCHA and UNHCR bulletins)

Nutrition Survey Findings							
		GAM <-2 WHZ +/- oed	SAM <-3 WHZ +/- oed	Total At Risk (MUAC <12.5)	Severe Risk (MUAC<11.5)		
NW	Togdheer Agro-p	12.2	2.3	4.8	1		
	Awd/Galb Agrop	8.8	0.3	5.8	0.4		
	N. Valley Pastoral	7.9	0.1	2	1		
	W. Golis Pastoral	13.8	2.3	3.5	0.5		
	S Plateau Pastoral	7.0	0.6	2.5	0.5		
	East Golis Pastoral	9.3	0.1	2.5	1.5		
NE	N. Valley Pastoral	8.8	0.6	2.0	1.0		
	S Plateau Pastoral	5	0.6	2.0	0.0		
	Coastal Deeh	10.8	2.2	6.5	2.5		
	Golis/Kakaar Past	16.3	1.7	5.1	0.5		
Central	Hawd Pastoral	15.3	3.9	6.0	1.1		
	Afgoye IDP	15.1	1.7	7.2	0.5		





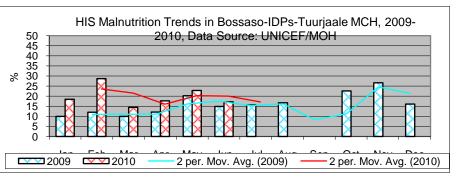




1200 1050 900 750 600 450 300 150 0	Data Source: UNICEF/MOH, JAN-MAY 2010 Total Admit. Stabilized/ Cured							
	Bossaso	Bargal & Iskush.	Garowe	Burtinle & Dang.		B/wayn , galdogob & Jeriiban	Sherbi, Waciye & Qardh	
	Bari		Bari Nugal		Sool	Mudug	Karkar	

OTP PERFORMANCE INDICATORS IN NE (Nos. of Children Admitted, Cured, Dead, Defaulted)





### **Nutrition Analytical Framework**

• The Nutrition Analytical Framework

FSNAU

- provides a contextual analysis of the nutrition situation, rather than focus on prevalence estimates & thresholds which is traditionally the case in nutrition analysis.
- based on international thresholds (WHO, Sphere and Fanta) where available, and contextually relevant analysis where these are not available.
- forms the basis for the nutrition situation classification, the *Estimated Nutrition Situation maps*, & the caseloads Estimates maps.
- developed through a consultative process,
- The July 2010 version accommodates current research developments, and the switch from NCHS 1997 to WHOGS 2006.
- The Nutrition Analytical Framework has three sections:
  - Core Outcome Indicators (mainly anthropometry related information, and mortality)
  - Immediate Causes
  - Driving/Underlying Factors

CORE REFERENCE INDICATORS	Acceptable	Alert	Serious	Critical	Very Critical
<b>Global Acute Malnutrition</b> (WHO Reference) Reliability (R) =1	<5%	5 to <10%; Usual range and stable	10 to<15% or where there is significant increase from baseline/ seasonal trends in last <u>&gt;</u> 2 yrs	15  to < 20%  or where there is significant increase from baseline/ seasonal trends in last $\ge 2$ yrs	>/=20% or where there is significant increase from baseline/ seasonal trends in last <u>&gt;</u> 2 yrs
Mean Weight-for-Height Z (WHZ) scores (R=1)	>-0.40	-0.40 to -0.69; Stable/Usual	-0.70 to -0.99; >usual/increasing		00; ncreasing
<b>SAM</b> (WHZ and oedema) (WHO to advice on thresholds) R=1)	<3.0%	3.0 - 4.4%	4.5 - 5.4%	5.5 – 6.9% (or where there is a significant increase from baseline/seasonal trends in <a>2</a> yrs	≥7.0% (Or where there is a very significant increase from baseline/ seasonal trends in ≥2 yrs
Crude death rate/ 10,000/day (R=1)	<0.5	0.5 to <1		information on the main	>5 or doubling of rate in preceding phase. Include main causes
Under five years death rates/10,000/day (R=1)	<1	1-1.99/	2-3.9/10,000/day Include main cause	4 to 9.9 <i>or doubling from</i> <i>previous phase.</i> Include main cause	>10 or doubling of rate from preceding phase. Include main cause
<b>MUAC</b> Children: (% <12.5cm): <i>Ref:</i> FSNAU Estimates (R=2)	<5%	<5% with increase from seasonal trends	5.0 - 9.9%	10.0-14.9%, or where there is significant increase from seasonal trends	>15%, Or where there is significant increase from seasonal trends
MUAC<11.5cm ( <i>R</i> =2)			≤1.0%	>1.0%	
Adult MUAC - Pregnant and Lactating(%<23.0cm,Sphere04)	<9.5%	9.5 - 14.9%	15 - 21.9%	22.0 -27.9%	<u>&gt;</u> 28%
Adult MUAC - Non-pregnant & non- lactating <18.5cm,Sphere04	<0.3%	0.3 - 0.49%	0.5 – 0.69%	0.7 - 1.99%	<u>&gt;</u> 2.0%
Non Pregnant Maternal Undernutrition BMI<18.5	<10%	10.0 to 19.9%	20.0 to 39.9%	>4	0%
Non Pregnant Maternal Overnutrition BMI>24.9	TBC	ТВС	ТВС	ТВС	
HIS Trends of Acutely Malnourished Children (Ref: HIS), (R=3)			<10%) but increasing proportion in the preceding 3mths relative to <u>&gt;</u> 2yr seasonal trends	proportion in the preceding 3mths relative	High ( $\geq$ 15%) and increasing proportion in the preceding 3mths relative to $\geq$ 2yr seasonal trends
<b>Sentinel Site Trends:</b> levels of children identified as acutely malnourished(WHZ), FSNAU'06 SSS	Very low (<5%) and stable levels	Low levels (5 to <10%)and one round indicating	Low (5 to < 10%) & increasing or moderate (10 to <15%) levels	malnourished children and	High levels ( $\geq 15\%$ ) and increasing with increasing trend (seasonally adjusted)
OVERAL NUTRITION SITUATION	Acceptable	Alert	<u>Serious</u>	Critical	Very Critical

### **Analytical Process: Key Points**

- To make a statement on the
  - Nutrition situation: A minimum of **two Core indicators** are recommended ensuring a reliable analysis
  - Projected trend: A minimum of two risk factors (immediate or underlying) are recommended ensuring a reliable analysis.
- The overall classification of the nutrition situation for a given area is done taking into account historical nutrition and contextual data. Triangulation of all indicators is also undertaken.
- It is not necessary for all the indicators to fall into one category in fact this will rarely happen, the idea is to look at the bigger picture in terms of where the indicators are currently, where they have come from and where they are likely to go to make the overall statement of the situation.
- Where possible nutrition information should be analyzed at livelihood level, & not at administrative, this is the case in Somalia.
- The references or cut offs used for GAM, SAM, CDR and Immunization coverage are consistent with the international ranges. However, for many of the other indicators, agreed international ranges/ thresholds for each categorization are lacking. As such, the various ranges have been developed following analysis of available nutrition data from Somalia.
- Other contexts needed to refine certain indicators such as dietary diversity & MUAC currently they are based on historical analysis from FSNAU
- Further inclusion of indicators relating to i). Displacement and ii). Population concentration for displacement is required.
- The age of the data needs to be considered and ideally should be from the current season. If the data is from an earlier season this needs to be considered in the overall analysis and may affect the results.
- This tool should only be used by nutrition experts who have the ability to critically evaluate and contextualize nutrition information

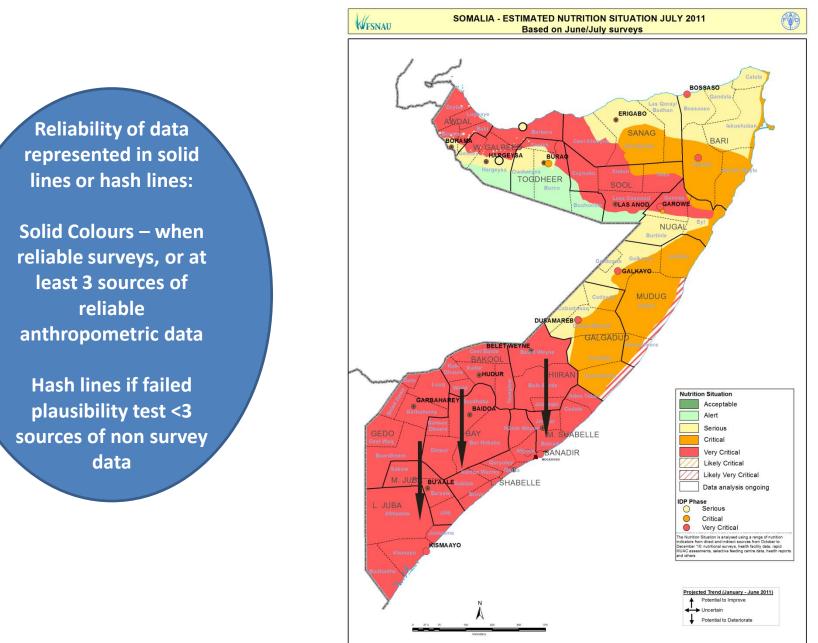
IMMEDIATE UNDERLYING CAUSESAcceptableAlertReference IndicatorsAlertPoor HH Dietary Diversity (% (%<5% TBC5 - 9.9% TBCConsuming < 4fdgps) Mean HH dietary diversity ScoreTBC		Alert	Serious	Critical	Very Critical
		10-24.9% TBC	25 – 49.9% TBC	<u>&gt;</u> 50% TBC	
<b>Disease Outbreaks:</b> (seasonally adjusted). Frequency of reported outbreaks of AWD &, malaria & measles	<ul><li>levels, &amp; seasonal trends,</li><li>Review</li></ul>	-AWD 1 case -Measles 1 case -Malaria-doubling of cases in 2 weeks in hyper endemic areas- using RDT	Outbreak not contained and/or in non endemic area – limited access to treatment: CFR for AWD >2% rural CFR for AWD >1% urban AWD – duration exceed >6 wks		o treatment: % rural % urban
Morbidity Patterns: Proportion of children reported ill in 2wks prior to survey (R=2) Health facility morbidity trends (R=3) /WHO surveillance (R=1)	TBC Very low proportion reportedly sick	TBC Low & stable proportion of reportedly sick based on seasonal trends	TBC Low proportion reportedly sick, from previous months but increasing in >2 months based on seasonal trends	TBC High levels and stable numbers in >2 months based on seasonal trends	Increase in

UNDERLYING FACTORS						
	Acceptable	Alert	Serious	Critical	Very Critical	
Reference Indicators						
Complementary feeding in addition to						
breastfeeding						
i. Introduction of complementary food		80-94%	60-79%	0-59%	0-59%	
at 6 months of age: %introduced	≥95% ≥95%	80-94%	80-94%	0-59%	0-59%	
ii. Meeting minimum recommended	≥95% ≥95%	80-94%	80-94%	0-59%	0-59%	
feeding frequency	295%	00-94%	00-94%	0-59%	0-39%	
iii. Dietary diversity score						
Breastfeeding (BF) Practices						
I. Exclusive BF for 6mths	<u>&gt;</u> 90%	50-89%	12-49%		0-11%	
ii).Continued BF at 1 yr	<u>&gt;</u> 90%	50-89%	12-49%		0-11%	
iii)Continued BF at 2yr reference	<u>&gt;</u> 90%	50-89%	12-49%		0-11%	
Measles immunization/Status	>95%	80-94.9%		<80%		
Vitamin A Supplementation	>95%	80-94.9%		<80%		
Coverage: 1 dose in last 6 months						
Population have access i). to a	100%	TBC	TBC	TBC	TBC	
sufficient quantity of water for	100%	TBC	TBC	TBC	TBC	
drinking, cooking, personal & domestic						
hygiene-min 15lts pp/ day						
ii).Sanitation facilities						
Affected pop with <b>access to</b>	Should not	Access to	Reduced access	Limited access	Negligible or no access	
formal/informal services: health	be necessary	humanitarian	to humanitarian	to humanitarian		
services			support for most			
			vulnerable	majority		
		vulnerable				
Selective Feeding Programs	Should not			None availat	ble	
Available: Coverage of TFP /SFP &	be necessary					
referral systems(Sphere04);		vulnerable				
-Admissions trends (R=3)				i		
	· · · ·	Borderline			Famine/Humanitarian	
status				Emergency	Catastrophe	
Civil Insecurity	Prevailing			Widespread,	Widespread, high	
	structural	disrupted	low intensity	high intensity	intensity	
	peace	tension				
3 MONTH NUTRITION SITUATION	Convergence	of evidence o	n immediate Caus	es/Driving factor	s vis-à-vis Projected	
OUTLOOK	trend in 3 mo					
	No change: S	Stable; Unce	rtain: Potential	to deteriorate	Potential to improve:	

#### Example of summary nutrition data and overall analysis, vis-à-vis seasonal trends

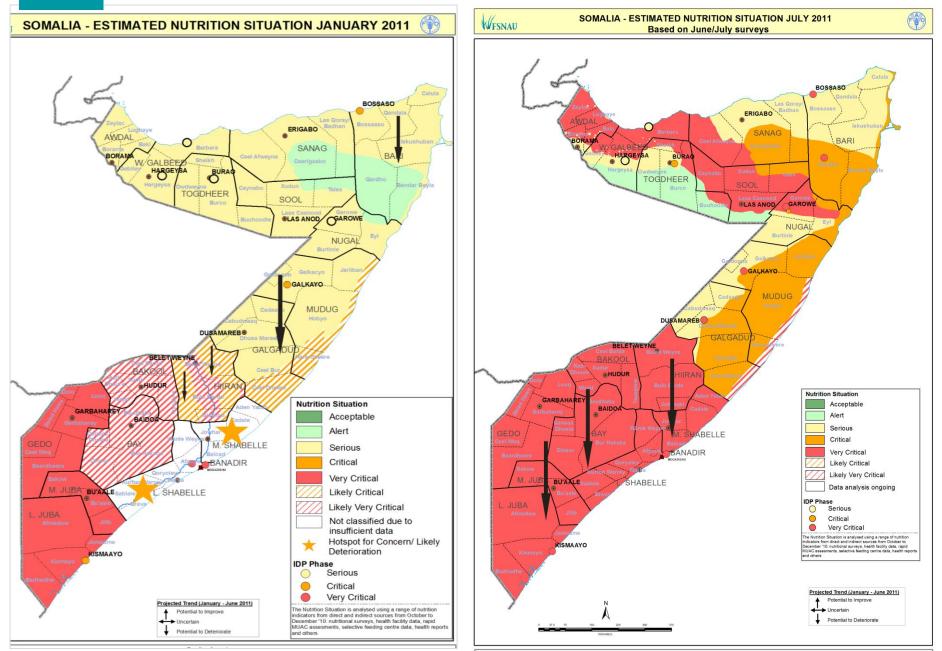
	EAST GOLIS/GEBBI VALLEY Livelihood Zone, Summary of Findings					
Outcome indicators	Gu'10, N=198	Deyr 2010/2011 N = 659	Gu'11 N=727			
Child Nutrition status						
• GAM (WHZ<-2 or oedema)	<mark>&gt;9.3%</mark>	<mark>11.1</mark> (8.0- <mark>15.1)</mark>	<mark>12.2(8.5-</mark> 16.9)			
• SAM (WHZ<-3 or oedema)	> 0.1%	2.1 (1.2-3.9)	1.1 (0.0-2.7)			
• Mean Weight-for height WHZ score	<mark>-0.84</mark>	-0.53	<mark>-0.81<u>+</u>1.03</mark>			
o Oedema	0	0.3	<mark>0.4</mark>			
• MUAC (<12.5 cm or oedema)	2.5% (0.3-4.6)	5.8% (3.8-8.6)	<mark>5.5%(3.9-7.0)</mark>			
• Severe MUAC (<11.5 cm)	1.5 (0-3.2)	0.3% (0.0-2.4)	1.2%(0.5-1.9)			
• HIS Nutrition Trends	Low (<10%) and stable trends	Low 10-15% and fluctuating	High (<10%) and decreasing			
• TFPs/SFPs Admission trends	High and stable numbers	Low and decreasing in Badhan	High and decreasing numbers			
Crude death Rate/10,000/day (90days)	N/A	0.13 (0.05-0.33)	0.98 (0.54-1.77)			
Under 5 death Rate/10,000/day (90days)	N/A	0.30 (0.07-1.20)	<mark>1.44</mark> (0.79-2.61)			
OVERALL NUTRITION SITUATION	Alert	<mark>Serious</mark>	<b>Serious</b>			
Child Morbidity, Immunization, IYCF						
<ul> <li>Disease Outbreaks:</li> </ul>	No outbreaks	No outbreaks	No out break disease:			
<ul> <li>Morbidity based on 2wk recall</li> </ul>	19.1	43.1; Diarrhoea- 17.8;	Morbidity, 41.2; Diarrhoea			
		Pneumonia 21.4	16.6;			
<ul> <li>Immunization status/Vit. A</li> </ul>	N/A	Vit A- 80.9; Measles- 77.1	Vitamin A; 77.7; Measles 81.8			
<ul> <li>Children eating from &lt;4 fdgps</li> </ul>	N/A	98	95.8			
• Children meeting min. feeding freq.	N/A	35.0	23.3			
Public Health Indicators; Gender	N/A	N= 420	N=536			
<ul> <li>Households (HH) accessing safe water</li> </ul>	N/A	49.8	15.2			
• HH accessing sanitation facilities	N/A	61.7	68.2			
• Relation between GAM & child sex	Insignificant	Insignificant	Insignificant			
<ul> <li>Relation between GAM &amp; sex of hh head</li> </ul>	N/A	Insignificant	Insignificant			
Proportion of hh consuming <4 fd gps	N/A	6.7	36.4			
Food Security Phase	BFI	BFI	AFLC			
Overall Risk to Deterioration	<u>STABLE</u>	POTENTIAL TO DETERIOATE	POTENTIAL TO DETERIOPRATE			

#### **Nutrition Situation Estimates - Maps**





### **Progression/Time Series - Maps**



# End

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