



feeding children

Scaling up Production of RUF

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Outline

- Reaching 2011 global target for RUF production
- National implementation and scale up
- Successes, opportunities and limiting factors



Background

- **The mandate of Nutriset** is to design specific nutritional products and increase their access and availability to improve the nutritional status of children and other vulnerable groups.
- **PlumpyField network** of local producers was established in 2004, in support of this mandate, to improve access to and availability of quality RUF through sustainable production system in host countries;
- **Today, a network of 5 local producers (industrial units):** PPB in Malawi, STA in Niger, Hilina Enriched Foods in Ethiopia, Vitaset in the Dominican Republic, and JAM in Mozambique.
- Ongoing evaluations in Ghana, Madagascar, Yemen, Cambodia, etc...
- Nutriset & Valid International agreement (license) reached in Dec. 07.
- UNICEF target for RUTF production by end of 2010 in Africa = **50 - 80,000 Mt/year** (as of Nov. 2007)

Reaching 2011 global target for RUF production

Nutriset Action Plan (2007-2010) to dramatically increase RUF production capacity (includes Plumpy'field Network)

	2 007	2 008	2 009	2 010
France	16 000 Mt	20 000 Mt	25 000 Mt	49 000 Mt
Dominican Republic	0	1 000 Mt	1 500 Mt	2 000 Mt
Ethiopia	1 000 Mt	1 500 Mt	2 000 Mt	3 000 Mt
Malawi	700 Mt	700 Mt	1 000 Mt	1 000 Mt
Niger	400 Mt	700 Mt	1 500 Mt	3 000 Mt
Ghana	0	200 Mt	500 Mt	500 Mt
Mozambique	0	150 Mt	300 Mt	300 Mt
Madagascar	0	0	500 Mt	1 000 Mt
Yemen	0	0	500 Mt	1 000 Mt
Senegal	0	0	500 Mt	1 000 Mt
Sudan	0	0	1 000 Mt	2 000 Mt
Total in MT	18 100 Mt	27 250 Mt	35 300 Mt	63 800 Mt

Presented to UNICEF in Nov. 07. Does not include Cambodia



National implementation and scale up

1st phase: Feasibility study and selection of the potential local partner

Feasibility study: Is it feasible to produce RUF in a given country?

Expected outcomes:

- **Short to long term needs identified**: Immediate Plumpy'nut® and alternative RUF needs at national level, long term regional needs, appropriate packaging, etc.
- **Industrial capacity** (potential producers in the food sector) and **economic environments** assessed
- Identification of potential **local suppliers** for raw and packaging materials
- Locally available capacity for **chemical and microbiological analysis (QC)**

Formal audits of potential producers identified during the first visit

Expected outcomes: partner selected, agreement discussed, potential funds identified.



National implementation and scale up

2nd phase: Adapting our production model to local needs

1. Machinery and production process for Plumpy'nut®



- Design
- Development & adjustment
- Setting up and trials at Nutriset
- Qualification and Validation

- Setting up and validation in the field
- Technological support



National implementation and scale up

2nd phase: Adapting our production model to local needs

2. Training



- ❑ At Nutriset, local partners' staff trained specifically on:
 - Quality Assurance
 - Quality Control
 - Process / machinery / maintenance
 - Logistics / procurement



- ❑ In the field:
 - By Nutriset's engineers (production, quality etc...)
 - By the local staff trained at Nutriset (Training of Trainers)

National implementation and scale up

2nd phase: Adapting our production model to local needs

3. Supply chain management



Traceability

Quality control

GOAL = Timely available quality raw material and packaging material



National implementation and scale up

2nd phase: Adapting our production model to local needs

4. Quality system



utriset / PlumpyField quality system is based on:

- HACCP norms and plan
- Procedures, recording, instructions
- International standards: particularly Codex Alimentarius & ISO 22000:2005
- Good Manufacturing Practices
- Analyses on raw materials and on finished product

• **Initial Nutriset Audits**

• **Followed by an Audit conducted by UNICEF and/or MSF (and/or MoH?)**

= compulsory condition for purchasing by

UNICEF/WFP/WHO/UNITAID/CHAI/MSF (Copenhagen, 2007)



National implementation and scale up

3rd phase: Follow up (and scale up)

1. Production

Quality:

- Implementation of corrective actions / continuous improvement
- Traceability software (batch files)
- Regular audits

2. Research and Development

- Process upgrading (new machinery) and optimization (improve homogeneity and quality)
- Stability studies on locally produced Plumpy'nut®
- Adaptation of production for alternative RUF
(Plumpy'doz, Supplementary Plumpy,
Nutributter, LNS...)



RUTF scale up: Strengths & Opportunities

Strengths	Opportunities
<p>Feasibility studies</p> <p>- Stronger involvement of the international nutrition community (researchers, NGOs, governments, UNICEF, FANTA, USAID, Valid, CHAI...various local and international NGOs and associations)</p>	<ul style="list-style-type: none">- International community to use identical indicators (coverage of CTC/CMAM, estimation of needs, protocols, CMAM guidelines...)?- Estimation of Plumpy'nut® needs for CMAM programmes in the medium to long term (UNICEF? NGOs? MoH?)- Standardization of methods used in QC labs in host countries.- Development of longer term contracts would stimulate investment (and scaling up).

RUTF scale up: Strengths & Opportunities

Strengths	Opportunities
<p>Local partner selection (audit)</p> <ul style="list-style-type: none"><li>- Adequate competencies found in host countries for production of Plumpy'nut<li>- Good knowledge of the industrial environment (beyond food processing)<li>- Involvement in the humanitarian sector	<ul style="list-style-type: none"><li>- Number of sites to audit: development of a pre-selection system<li>- Need to continue to use objectively verifiable indicators



RUTF scale up: Strengths & Opportunities

Strengths	Opportunities
<p>Adapt production model to local needs / participatory approach</p> <ul style="list-style-type: none"><li>- Machinery qualification and validation at Nutriset with local staff leads to more efficient local implementation<li>- Replication of already existing model enables shorter time between machinery installation and the first audit	<ul style="list-style-type: none"><li>- Support to hire and train key staff<li>- Business plan development<li>- Support to overcome administrative barriers (clearance, taxes,...)



RUTF scale up: Strengths & Opportunities

Strengths	Opportunities
<p>Follow up and scale up</p> <ul style="list-style-type: none">- Local partners have set up this activity with a long-term / sustainable approach.- Sharing supply opportunities among local producers and with Nutriset (better control of raw material cost and availability)- No major quality issue reported and not controlled (as of today)- Continuous quality improvement with good implementation of corrective actions after audits by Unicef (and MSF)- Quick implementation of sachets lines (Ethiopia, planned for both Niger and Malawi)	<ul style="list-style-type: none">- New technological improvements tested and validated at Nutriset to be used locally- Facilitation of funding of facilities in order to produce bigger volumes- Facilitation of procedures to get supplies in country (where needed)

Way forward

- Close and frequent coordination between all stakeholders, including host governments (evaluation of Plumpy'nut and related RUF needs, demand, indicators, funding) for planning / implementation of CMAM (IMAM?) and of local production – **reduction of nb of supply issues**;
- Support of local producers for import (taxes suppression?), development of business plans, supply chain management – **optimizing production and cost**
- Enforce application of existing international norms for QA/QC - **ensure local production of quality Plumpy'nut® and other RUF ('the devil is in the detail')**;
“Providing quality products and services is all about meeting customer requirements” (ISO 9001:2000 Website, 20 April 2008);
- Transfer of know-how and technology for local production of other RUF, RUSF - **Prevention of SAM, treatment / prevention of stunting, support to PLWHA...**
- Access to preventive products (directly by the beneficiary himself/herself) - **social marketing of RUF & local production (eg. Niger)**





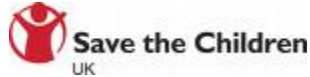
Thank you for your attention!



Annex 1: Our Partners in the field



OMS



JOHNS HOPKINS
MEDICINE



Academy for Educational Development
Connecting People > Creating Change



FANTA



Annex 2: Nutriset products range (as of April 2008)



Note: does not include ReSoMal, F-75, F-100, or Grandibien ,and research products.

