Introduction

ENN was set up in 1996 to improve practice and strengthen the institutional memory of agencies involved in the emergency food and nutrition sectors. ENN is governed by a board of trustees and steered by four Technical Directors. ENN’s operations are supported by an Oxford based team and a sub-office in London. A strong global network of ENN Associates extends ENN’s capacity to implement a wide range of projects while keeping overhead costs to a minimum. ENN partners with and/or is financially supported by many bilateral (government) agencies, United Nations (UN) agencies and non-governmental organisations (NGOs) and works closely with academic institutions and expert individuals.

ENN’s Mission
ENN’s purpose is to strengthen the evidence regarding effective nutrition interventions and to use this evidence to inform policy and programming. ENN does this by enabling nutrition networking and learning amongst practitioners, policy makers and researchers to build the evidence base for nutrition programming. More specifically, we capture and exchange experiences of practitioners through our regular, established publications and online technical forum; we undertake research and reviews where evidence is weak; we broker technical discussion where agreement is lacking, and we support global level leadership and stewardship in nutrition.

ENN implements activities according to three major workstreams:

**Workstream 1: Experience sharing, knowledge management and learning**
This includes ENN’s core products: Field Exchange, Nutrition Exchange and en-net, as well as embedded knowledge management (KM) within two key global nutrition fora (the Scaling Up Nutrition Movement (SUN) and the Global Nutrition Cluster (GNC)).

**Workstream 2: Information and evidence on under-researched nutrition issues**
This comprises ENN’s research and review work on filling gaps in the evidence base for improved nutrition policy and programming.

**Workstream 3: Discussion, cooperation and agreement**
This is made up of a range of activities for discussing and building agreement and consensus on key nutrition issues. It includes ENN’s participation in and hosting of meetings, its activities as facilitator of the Infant Feeding in Emergencies Core Group and its participation in the development of training materials and guidance, including normative guidance.

<table>
<thead>
<tr>
<th>Independent and impartial</th>
<th>Driven by network</th>
<th>Based on experiential learning and evidence</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENN is not bound by the views or positions of any particular institution. Any opinions expressed are based on the available evidence and the experience of the network.</td>
<td>ENN’s network is made up of practitioners, decision-makers and academics working on nutrition and associated fields all over the world. By supporting their learning and sharing their knowledge, ENN is able to make a unique contribution to turning knowledge into practice.</td>
<td>ENN believes that policy and practice can, and should be, informed by evidence and experience. Where this exists, ENN seeks to share the learning from this evidence and experience; where it is missing, ENN advocates for it to be developed or directly supports its development.</td>
</tr>
</tbody>
</table>

ENN’s Outputs and Activities

**Workstream 1**

**Field Exchange**
(www.ennonline.net/fex)

Field Exchange (FEX) is ENN’s flagship publication that is an established online and print technical publication on nutrition and food security in emergencies and high burden contexts. The editorial team actively support authors to ‘unpack’ and document detailed learning that is then shared worldwide. Two routine editions were published this year.

**Issue 53** (November 2016) featured experiences from Yemen, Somalia, South Sudan, Northern Kenya, Burundi and Afghanistan in a range of articles, from resilience programming during conflict to World Health Organisation’s (WHO) emergency nutrition response to the intergenerational cycle of acute malnutrition amongst internally displaced people. In addition to a broad selection of detailed research summaries, a ‘research snapshot’ section was introduced, featuring very short summaries of relevant research with an online link to full content where available. A selection of content was also translated into French and posted online.
Content for Issue 54 was also developed; publication was delayed to February 2017 to allow last minute key articles to feature, such as the key discussions and presentations from a one day meeting by Action Against Hunger in November 2016 on malnutrition research uptake and challenges, which will feature as a special section in issue 54.

Through July to October 2016, the Field Exchange editorial team provided strong support to Nutrition Cluster Country Coordinators in Somalia, Sudan and for the Whole of Syria response (Turkey, Jordan, Syria), to identify and present key learning at the GNC annual meeting in October 2016. Topics were accountability to affected populations (Somalia), multi-sectoral programming (Sudan) and coordination developments (Whole of Syria). These presentations will be further developed into Field Exchange field articles in 2017.

It was agreed this year that Field Exchange would be a primary outlet for sharing technical, programmatic and policy related issues generated by the No Wasted Lives Initiative, which is the result of efforts by UNICEF, Action Against Hunger, the Children’s Investment Fund Foundation and European Civil Protection And Humanitarian Aid Operations (ECHO) to accelerate the treatment of SAM around the world.

Nutrition Exchange (www.ennonline.net/nex)

Nutrition Exchange is a bi-annual ENN publication that contains short, easy-to-read articles on nutrition programme experiences and learning, from countries with a high burden of malnutrition and those that are prone to crisis, geared towards a national and sub-national audience. Most content is written by national actors engaged in nutrition specific and sensitive programming, supported by ENN’s regional and global staff. Nutrition Exchange does not assume prior technical knowledge of nutrition but aims to provide useful content for all those involved in nutrition policy and programming.

Issue 6 was published in English (May), French (June) and Arabic (July) this year. Issue 6 was translated into Spanish for the first time with funding from the UNICEF Latin America and Caribbean Regional Office, and published online in July 2016. This issue had greater emphasis on SUN Movement related material including two one-on-one interviews with key country-based stakeholders closely involved in the SUN Movement. It also covered a lot of non-SUN related material.

Issue 7 was published in four languages (English, French, Spanish and Arabic) simultaneously in January 2017. As it was largely financed through the Department for International Development (DFID) funded KM project for the SUN Movement (detailed below), many of the articles explored the SUN processes and learning. For example, an article from Tanzania described the advocacy work by Regional Knowledge Management Specialists (RKMS) have been very engaged with en-net and have encouraged actors in SUN countries to also engage. En-net continues to benefit from the visibility of the SUN Movement website which points to the en-net site and encourages uptake.

French mirror site: In efforts to increase reach and use of en-net amongst Francophone countries, ENN launched a French mirror site for en-net in April 2016 (fr.en-net.org), funded by DFID. A pilot period provided automated and simultaneous English-French, French-English translation using Google Translate with users able to request manual translation review for low quality translations. A review of this process and translation quality led ENN to increase manual translation capacity; all Google-translated posts are now reviewed and corrected by a French translator within 48 hours. The number of sessions by French speakers has increased by 46% this year.

In March 2015 ENN began work on a five-year project to support KM for the SUN Movement funded by DFID’s Technical Assistance for Nutrition (TAN) programme. The programme is designed to support countries to seize the opportunity presented by the favourable political environment that has been created for nutrition globally, and to maximise the benefits of membership of the SUN Movement. Nutrition International (formally The Micronutrient Initiative) and PATH (under the name Maximising the Quality of SUN Plus, MOSUN+) are also funded under the TAN, with a focus on delivering technical assistance support at both country and global levels. The fourth TAN partner is the SUN Movement Secretariat based in Geneva. With the SUN Movement now in its second phase (2016-2020), TAN partners are providing technical and KM support to actors involved in scaling up nutrition with a focus on implementation.

ENN’s Online Technical Forum – En-net (http://www.en-net.org/)

En-net is an online technical forum hosted and moderated by ENN. Established in 2009, it provides remote field practitioners who work in the emergency food, nutrition and health sectors with rapid access to technical support from expert moderators.

Over the course of the year, en-net attracted 44,896 users (an increase from 37,315 in 2015), of whom 39% were returning visitors. A total of 370 questions and vacancies/notices were posted on en-net in 2016 (vs. 467 in 2015), eliciting 622 responses (vs. 859 in 2015). En-net was accessed by people from 196 countries/territories, with the highest proportion based in the United States (13%). In response to requests from practitioners, two new forum areas on ‘Prevention and Management of Stunting’ and ‘Partnerships for Research’ were launched in February 2016, along with a closed forum for the ENN-led wasting and stunting technical interest group to facilitate technical exchange between members.

SUN specific en-net: The SUN specific area of en-net site set up in 2015 was reviewed in August 2016, and it was decided to incorporate the SUN en-net forum into the main en-net page so it forms part of the core site: the three forum areas modelled on the SUN communities of practise were amalgamated into one SUN forum area for ease of use. About half of the total number of subscribers to en-net subscribe to the SUN forum area. ENN’s three
Following an intensive scoping phase that concluded earlier this year, ENN agreed a 4-year work plan with DFID in June 2016 and three RKMS based in Kenya, India and Senegal joined the ENN SUN KM team, supported by the ENN SUN KM Global Coordinator. The RKMS are establishing a growing network of SUN and nutrition sector contacts in their respective sub-regions and are crucial for identifying, synthesising and communicating key themes and experiences from their regions. In November 2016 the whole ENN SUN KM team met in London for an intensive ten days of training and planning meetings. This included meeting with DFID as well as with other sector stakeholders.

Over the course of the year the ENN SUN KM team have reached out and engaged with other KM providers both in the UK and internationally, including sharing information about events and activities and looking at opportunities to collabo rate on KM.

ENN also began the task of designing and building two new digital platforms: a Media Hub (launched January 2017) for sharing blogs, audio and video content and an interactive online community, due for launch in mid-2017. The demand for such platforms came directly from the varied nutrition actors ENN met with during scoping visits to Africa and Asia early in 2016. ENN recruited a dedicated Digital Content Producer to lead on the production of content for the Media Hub. ENN’s existing KM products (Field Exchange, Nutrition Exchange and en-net) continue to be deployed for the benefit of this project.

**Workstream 2**

Research on Food Assistance for Nutritional Impact (REFANI)
The REFANI consortium is a group comprised of Action Against Hunger, Concern Worldwide, ENN and University College of London (UCL). It is a three-year project funded by UK aid from DFID and co-financed through humanitarian aid from ECHO. The purpose of the consortium is to examine the impact of food assistance (cash, vouchers and/or direct food transfers) on nutrition outcomes. REFANI’s primary activities centre on three country studies where programmes are currently being implemented; Pakistan, Niger and Somalia. ENN’s focus has been on a randomised control trial (RCT) in Pakistan (with UCL managing the studies in Niger and Somalia).

ENN completed all quantitative and qualitative data collection and most analysis related to the Pakistan RCT in 2016. The first paper, the study protocol, was published in BMC Public Health and the second paper, the Impact Evaluation, was submitted to PloS Med, with publication expected in 2017. Work also began on the third paper, the Process and Mediation Analysis, which will be submitted later in 2017 for peer review publication.

The REFANI consortium entered into an intensive reporting period as the REFANI project drew to a close, and ENN attended a number of international meetings during which results and conclusions were presented and discussed. The REFANI project will conclude mid-2017 for ENN.

**Review of Linkages Between Wasting and Stunting**

This review was borne out of previous work carried out by ENN, which illustrated the divide at programme, policy and financing level between wasting and stunting. This divide has profound implications for how undernourished children across the world receive nutrition interventions and services and may well contribute to the lack of nutritional impact seen in programmes that only address one part of the undernutrition problem.

The Research Prioritisation paper, which established research priorities in the relationships between wasting and stunting to guide future research investments, was published in PloS One in May 2016. The analysis of Demographic Health Surveys (DHS) and Multiple Indicator Cluster Surveys datasets from 85 countries looking at concurrence of wasting and stunting was shared with and referenced in the 2016 Global Nutrition Report. Considerable work continued on a full peer review paper on the analysis, which will be submitted in early 2017 to the WHO Bulletin.

ENN continued coordinating the wasting and stunting technical interest group, a group of international experts in child health. During the latter half of 2016, the group focused on re-analysis of data from the Medical Research Council’s Gambia longitudinal data set and re-analysis of cross sectional data from global datasets from SMART surveys. The focus of the technical interest group going into 2017 will be on questions such as whether enough attention is being given to the heightened nutrition vulnerability amongst young males and whether we can intervene to avert the high mortality risk associated with being concurrently wasted and stunted.

**Management of Acute Malnutrition in Infants**

Since 2009, ENN has played a key role in gathering experts in the field to investigate the problem of managing acute management in infants (MAMI) less than six months in NGO-supported humanitarian operations, and is the coordinating agency for the MAMI interest group, an informal network of researchers and practitioners involved in the care of nutritionally vulnerable infants under 6 months and their carers. The interest group acts to facilitate and capture MAMI related learning, identify constraints in programming, support evidence development (through informed research agendas, research and reviews) and help fill gaps in policy and guidance.

Following on from the need, as identified during the January 2016 MAMI interest group meeting, to examine anthropometric assessment criteria to identify nutritionally vulnerable infants less than six months, ENN has initiated two related pieces of work this year. First, a review of clinical and anthropometric methods for detecting SAM and their ability to reflect both mortality risk and nutritional status and second, a secondary data analysis to investigate how weight-for-age compares with weight-for-length in identifying nutritionally at-risk infants using DHS data. Both will be finalised in 2017. A review of national guidelines content on inpatient and community based treatment of SAM infants less than six months old is being updated to capture developments in new country guidance and will be submitted for publication in 2017.

During this period, ENN was technical advisor on Save the Children led research in Bangladesh to examine prevalence of acute malnutrition in infants less than six months and outcomes at six months of age. Two papers for peer review publication, co-authored by ENN, are being finalised. Follow-up research in Myanmar and Bangladesh is planned for 2017/18, again with ENN in a technical advisory capacity.

In 2016, a secondary data analysis of admission profile and discharge outcomes for infants aged less than six months admitted to inpatient therapeutic care in ten countries was published in Maternal and Child Nutrition, co-authored by ENN. ENN also co-authored (with Marko Kerac, London School of Hygiene and Tropical Medicine) a chapter on MAMI for a book entitled ‘The Biology Behind the First 1,000 Days of Life’. The chapter will be published late 2017.

**Stunting in Emergencies**

ENN built on the scoping review undertaken in 2015 which looked at the implications of operating in situations of protracted crisis where levels of stunting may be high or more of a concern than wasting. This year, in partnership with UNICEF, ENN completed work on a detailed technical paper examining the high burden of stunting (and associated mortality) seen in fragile and conflict affected states and the nutrition community’s response to it; questioning why stunting is very seldom an area of focus (particularly in protracted emergency contexts) yet lowering stunting is the major driver of efforts in more stable contexts through multi-sectoral approaches. Added to this, maternal nutrition concerns are also rarely a feature of humanitarian response although the evidence tells us that a significant proportion of stunting (20%) and wasting has in utero origins. ENN is currently seeking funding to host a roundtable meeting to discuss the findings of the paper.
Infant Feeding in Emergencies
Since 1999, ENN has been an active member of an interagency collaboration, the Infant Feeding in Emergencies (IFE) Core Group, an expert advocacy and resource group on infant and young child feeding in emergencies. Since 2004, ENN has been the coordinating agency and institutional ‘home’ of the IFE Core Group. The group’s work to date has centred on development of policy guidance and capacity building tools, capturing and learning from what happens in emergency response regarding infant and young child feeding and promoting policy and practice change in the context of preparedness and response.

A key policy guidance managed by ENN/IFE Core Group is the World Health Assembly endorsed Operational Guidance on Infant and Young Child Feeding in Emergencies (OG-IFE). Following consensus in 2015 to update the OG-IFE, this formed the core of ENN’s IFE work during 2016. This extensive revision, co-led with UNICEF, has involved consultation with technical leads of UN agencies, NGOs and experts, across sectors including water, sanitation and hygiene (WASH) and child protection. The update will feed directly into the 2017 Sphere Standards revision. Version three of the OG-IFE is due for completion mid-2017.

In September 2016, ENN collaborated with UNICEF and WHO on a WHO-hosted meeting to examine how to apply the latest WHO guidance on HIV and infant feeding to an emergency context. An implementation guidance on HIV and IFE, the key output of the meeting, is being finalised, led by WHO. Consensus from the meeting has directly informed the OG-IFE update.

In December 2016, ENN hosted a public showing in Oxford of the film ‘MILK’ (www.milkhood.com), in which ENN participated, to help profile challenges regarding IFE, followed by panel discussion.

Other areas of collaboration

Adolescent Nutrition
Work was completed on the book chapter for ‘The Biology Behind the First Thousand Days’ in November 2016. The book will be published later in 2017 and will be launched at the 21st International Congress for Nutrition in Buenos Aires in October 2017.

Engagement in the Global Nutrition Cluster
ENN’s Carmel Dolan was elected as a member of the GNC strategic advisory group until April 2018. This role entails monthly calls with other advisory group members to support the cluster process and their engagement with donors, other actors and in setting strategic priorities, workplans and budgets. It also involves setting the agenda and facilitating sessions at the GNC work planning and annual meetings, of which there were two this year, in Geneva and Jordan.

ENN continues to be the lead agency on KM in the GNC and supports active documentation of cluster learning and experiences which are shared in case study format at the annual meetings.

Review of Nutrition Sensitive Programming
Emanating from SUN KM project perspectives, and issues identified in the special issue of Field Exchange on nutrition sensitive programming (January 2016), ENN began to explore the need and appetite for a wide ranging review of nutrition sensitive programming to strengthen the evidence base for scale up of programming. Following early positive discussions with a range of organisations, ENN will convene a small meeting in February 2017 to examine more closely the need, scope and funding avenues for such a review.

Attendance at Major Meetings
ENN participated in many major meetings during 2016, including:
- **April:** One of ENN’s RKMS attended the launch of the SUN Business Network in Nigeria.
- **April:** ENN attended the Workshop on Public Finance for Nutrition in Asia in Bangkok.
- **May:** ENN was invited by Irish Aid to answer a panel question at a high-level side meeting on Zero Hunger at the World Humanitarian Summit in Istanbul. Lola Gostelow (representing ENN) highlighted ENN findings around a lack of coherent nutrition programming in many humanitarian and fragile and conflict affected contexts, and the main causes for this. These findings were first presented at a high-level roundtable meeting in Dublin in January and were also presented by Irish Aid at the UN executive board meeting in June. A summary of this work was also requested by the Chief of the Coordination and Response Division in the Office for the Coordination of Humanitarian Affairs (OCHA) who is responsible for taking the recommendations from the Zero Hunger meeting forward. These initiatives represent advocacy at a very high level in the humanitarian system.
- **July:** ENN attended a Nutrition Innovation Lab Symposium in Nepal.
- **August:** During a WaterAid week in Stockholm, ENN co-convened a WASH and nutrition session with the Sustainable Sanitation Alliance, presenting on ENN’s IFE work.
- **August:** During a SUN workshop on Public Financing and Managing Results for Nutrition in Nairobi, ENN presented on ENN KM opportunities, including en-net.
- **September:** ENN co-led, with WHO and UNICEF, a two-day meeting on HIV and IFE in Geneva.
- **October:** ENN attended the GNC annual meeting in Jordan.
- **October:** During the inaugural meeting of the Council for Research & Technical Advice on SAM (CORTASAM) in Brussels, ENN presented on REFANI and MAMI at the first Action Against Hunger research conference held in Paris.
- **October:** ENN attended the final two-day Nutrition Research Steering Committee for REFANI.
- **November:** The SUN Secretariat convened a meeting in Geneva, for agencies supporting the SUN Movement. ENN were able to use this meeting to strengthen connections with a number of global level actors and begin a process of knowledge capture with these actors.
- **November:** ENN attended an Action Against Hunger-hosted conference on nutrition research challenges related to SAM treatment.
- **December:** ENN co-organised a session at the World Breastfeeding Conference in South Africa on IFE.
- **December:** the ENN SUN KM team attended the DFID-hosted TAN partners meeting in London.

Inputs to Wider Groups, Academia and Literature
- **ENN** is a member of a Europe migrant crisis technical coordination group, co-led by UNICEF and Save the Children.
- **ENN (Marie McGrath) was elected to CORTASAM (Advisory Board to the No Wasted Lives Initiative).**
- **ENN (Carmel Dolan) was elected a member of the GNC strategic advisory group.**
- **ENN (Emily Mates) joined the Committee for Food Security Open Ended Working Group as a member, and also participated in the SUSANA forum.**
- **ENN continues to be a member of the Cash Learning Partnership Technical Advisory Group.**
- **ENN co-authored a number of academic papers as follows:**
**ENN Income & Expenditure Statement For the Year to 31st January 2017**

<table>
<thead>
<tr>
<th>Income</th>
<th>GBP</th>
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<tbody>
<tr>
<td>OFDA</td>
<td>224,639</td>
</tr>
<tr>
<td>DFID</td>
<td>468,810</td>
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<tr>
<td>Irish Aid</td>
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<td>ACF USA</td>
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<tr>
<td>Other donors</td>
<td>198,662</td>
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<tr>
<td>Investments</td>
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<tr>
<td><strong>Total Income</strong></td>
<td><strong>1,225,956</strong></td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Expenditure</th>
<th>GBP</th>
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<tbody>
<tr>
<td>Support Costs</td>
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<tr>
<td>Staff costs</td>
<td>60,130</td>
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<tr>
<td>Operating lease charges</td>
<td>48,505</td>
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<td>Exchange rate losses</td>
<td>29,397</td>
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<tr>
<td>Consultancy fees</td>
<td>47,520</td>
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<tr>
<td>Travel &amp; subsistence</td>
<td>3,653</td>
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<td>Office costs</td>
<td>27,721</td>
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<tr>
<td>Bad debt</td>
<td>-75</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>216,851</strong></td>
</tr>
</tbody>
</table>

| Governance costs              |         |
| Staff costs                   | 29,623  |
| Audit fees                    | 6,000   |
| Legal & professional services | 1,980   |
| Consultancy fees              | 85,677  |
| **Total**                     | **123,280** |

| Charitable activities         |         |
| Staff costs                   | 320,994 |
| Consultancy fees              | 351,323 |
| Fundraising & publicity       | 117,552 |
| Travel & subsistence          | 76,481  |
| Other charitable expenditure  | 12,546  |
| **Total**                     | **878,896** |

**Total Expenditure** 1,219,027