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Equity in A4NH research

A review of current work and future opportunities

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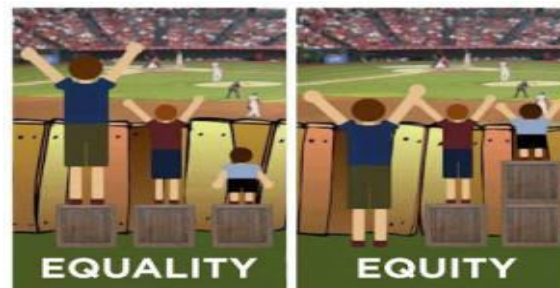
Summary

Background

The 2015 external evaluation of A4NH found that A4NH has focused on gender, and on income disparity, but not consistently on other dimensions of social equity. Equity is important in A4NH research: apart from the moral issues of large disparities in nutrition and health outcomes based largely on the chance circumstances of birth, these disparities also exert a brake on the conversion of economic growth to human development outcomes. Language in the A4NH results framework already includes aspects of equity, but the aim of this review is to guide A4NH in understanding how to address equity in a more comprehensive and strategic manner.

In researching agriculture for nutrition and health outcomes in low- and middle-income countries, the closely-related but philosophically-distinct concepts of equity and equality are both important. Both equity and equality are ethical concepts, grounded in principles of moral equality: that all people count, and should be treated as equals. Equality and equity are not the same, but are not mutually exclusive; in this report, **equality** is defined as being concerned with the sameness of an **outcome**, and therefore the final distribution of a good; while **equity** is concerned with the fairness of a **process**, and therefore the just distribution of a good. A well-known illustration, **Figure A**, shows the essential difference between the two closely-related concepts of equity and equality.

Figure A: Equity and equality in practice



A key feature of inequity is that it is multidimensional, with causes of marginalization tending to cluster together and reinforce each other, making some groups very vulnerable to poor outcomes. Examples include the intergenerational transmission of disadvantage within populations, such as child stunting as the intergenerational transmission of poverty, hunger and ill health. Equity is necessarily about power relations, with inequity and marginalization ultimately caused by power imbalances between different groups.

In practice, inequity refers to differences which are unnecessary and avoidable, but are also considered unfair and unjust in the context of what is going on in the rest of society. Despite clear tests of avoidability and fairness, equity approaches are difficult to operationalize. Nonetheless, it is possible to work towards equitable policy; with an equity lens, five areas of policy come more sharply into focus:

1. The role of universal access to public services in better including the marginalized;
2. The role of targeted action for disadvantaged groups in actively addressing issues facing the marginalized;
3. The role of social protection in ensuring that the marginalized do not drop below a minimum level of welfare;

4. The role of redistribution through different policies in improving equity by reducing financial inequality; and
5. The role of embedded power imbalances in causing and sustaining inequity, and challenges to these.

Researching equity

Each of these key policy responses to inequity is researchable in a number of ways in the context of agriculture-nutrition-health policies and programs. What is required in terms of a research focus on both equality and equity will depend on the particular project in question, and involves taking these issues into account in initial theories of change and subsequent research plans. There is a spectrum of approaches available to researchers, from work that is equity-blind, to work completely focused on equity.

- Work that is blind to both equity and equality, failing to identify unequal outcomes or address potential inequitable processes in the particular research context.
- Work that pays attention to inequality in outcomes for different groups, for instance undertaking disaggregated analyses of data. A key point for research of this type is that it requires comparison, for instance between women and men, or groups marginalized along different axes, comparing most to least marginalized. In particular, disaggregated analyses of different interacting dimensions are useful to look at the intersectionality of multiple aspects of marginalization. This type of policy research might also look at the impacts of targeting, and weighting of cost-benefit analyses by need.
- Work looking at the ways that inequity affects the processes leading to unequal outcomes, understanding social exclusion, marginalization, discrimination and power, and looking at structural bottlenecks to equity. This can include political economy work looking at change and how it happens, to understand the process; and power analyses looking at the winners and losers from change, to understand how to mitigate marginalization.
- Work completely focused on equity or the transformation of marginalization in agriculture for nutrition and health. This can include participatory research, to understand experiences of inequity, and understanding what different goods and services mean to different people, and so the relevance of distributional justice to them.

Aims and methods

The aim of this work was to identify opportunities for A4NH research to consider equity more comprehensively; to go beyond gender to include other sources of inequity that contribute to inequitable nutrition and health outcomes. In order to do this, we looked at three factors:

1. How equity issues have historically been and are currently integrated into the work of the different A4NH flagships;
2. What the broader development studies literature and thinking on equity says could be done on equity in development research; and
3. Therefore, what the gaps are between current and potential work that A4NH could look to fill, and how it might start to do this.

The overall approach included understanding the potential of an equity-focused approach through a review of the literature and discussions with equity experts; interviews with those involved in A4NH

research; review of A4NH strategies, workplans, and deliverables¹; and assessment of the gaps between the potential and the actual in A4NH research. The review was carried out at a time when A4NH had just launched its second phase. The review therefore covers all relevant project documentation from the closed Phase I (2012 – 2016), and project planning documents from Phase II (2017-).

Document analysis was carried out using NVIVO for keyword searches relating to key concepts identified through the literature review and expert consultation. In addition, interview and email transcripts were read and synthesized for common themes. Initial findings were triangulated through further contact with Flagship Program leaders. Recommendations came from assessment of gaps between current or planned A4NH work and the broader equity literature, and from suggestions made by those close to the A4NH program in interviews.

Findings

Within the literature review, interviews, and document review, specific aspects of marginalization emerged as particularly important in the operationalization of equity in agriculture for nutrition and health research. These were: Gender; income and poverty; life stage; youth (as a separate life stage of particular interest to A4NH); geography; ethnicity; and disability. These are further explored in the main report, and these equity themes are used to organize the findings.

Equity issues are seen as a priority within A4NH, particularly within internal planning documents, and by flagship program leaders interviewed. The equity issues included in A4NH work predominantly focus on gender, with some work being done on income and geographic inequities, a little on youth and ethnicity, and very little on disability. Intersectionalities between these different aspects of marginalization are rarely acknowledged.

Despite prioritization of equity in planning documents, there is a disconnect between internal planning aspirations, and externally facing deliverables: the former discuss issues of equity, while the latter uses the language of equality instead. Further, much of what is discussed in A4NH plans and protocols relates to issues of equity, but without using the word itself. A4NH needs to make sure terminology, and therefore aims, are clearer going forward; much of the work carried out could be relatively easily re-framed with an equity lens, and there are clear ways forward for further focus on equity issues discussed below.

Conclusions and recommendations

Taking into account the findings of this assessment on historic focus on equity over phase 1 in A4NH, the current portfolio, plans for phase 2, and what the theoretical literature from broader development studies says could be undertaken to look at equity in development research, this study finds several research gaps that A4NH could seek to fill. These can be divided into quick wins, largely using existing data and requiring an equity lens to plan analyses and supervised RA time to undertake analyses; medium-term options, largely based on survey work and requiring designing survey modules with an equity lens and thinking about who is interviewed, so requiring up-front equity planning capacity then supervised RA time for analysis of new data; and longer-term options, requiring integration of strong multi-method research and participatory work to understand political

¹ CRP Phase II proposal and Annexes, the A4NH Annual Reports from Phase I - 2012, 2013, 2014, 2015, and 2016, Work and Budget plans for Phase I - 2013, 2014, 2015, 2016 - and Phase II - 2017, The GEE Gender Strategy from 2016, and MARLO Impact Pathways 2017. 101 Project deliverables from Phase I, 505 Peer Reviewed Journal Articles from Phase I

and social context and power relations as underpinning complex drivers of marginalization. All of these options require explicit acknowledgement both within A4NH and within research partners that issues beyond gender and income define marginalization and equitable development processes, and that these vulnerabilities overlap and intersect to produce complex social processes that often require complex research approaches. Recommendations are summarized below, with more detail in the main report:

Quick wins:

- Undertaking a review of literature within ANH research that addresses equity in different ways
- Using existing data to compare across categories (e.g. wealth, land access, gender)
- ‘Process evaluation’ understanding marginalization in program participation
- Revisiting theories of change with an equity lens, beyond women and the poor

Medium-term:

- Including a comparator along equity dimensions in surveys: Men vs women; richest vs poorest...
- Looking at unintended consequences for different groups (e.g. time allocation, food cost)
- Creating and integrating indicators of service access, social relationships and social norms into surveys, either at household level or at community level
- Cost analyses of programmes reaching marginalized groups

Long-term

- Understanding context (political, social, cultural), including perspectives of the marginalized
- Undertaking multi-method research with a focus on power relations as underpinning equity
- Multi-country analysis and indicators of intersectional inequity

In our interviews, flagship program leaders reported being keen to try to address many of these recommendations in their work, but reported that constraints needing to be addressed fell under issues of time, people, skills, and money. A primary consideration to address people and skills gaps is capacity: In addition to skilled RA time funded in projects, there will be a need for both technical capacity (facilitating understanding of equity issues within flagships, and how these can be approached in research) and strategic capacity (oversight of equity work within A4NH in order to create a coherent body of work overall). No flagship was able to provide a specific amount of funding that would be required to support equity research, the amount depending on what was being asked of them. Capacity and resource gaps to be filled are summarized below, with further detail in the main report:

Human capacity

- Technical capacity including quantitative and qualitative research skills
- Strategic capacity including oversight of the A4NH portfolio with an equity lens
- Planning capacity including guidelines and screening of projects
- Must also be expert in agriculture, nutrition and/or health to be relevant

Financial resources

- Funded analysis time for RAs and students to undertake equity analyses
- Potential for equity grants to flagships for specific analyses
- A well-resourced GEE able to respond to flagship requirements

- Advocacy with other donors for equity assessments to be prioritized

Strategy

- An updated GEE strategy; Flagship Program leader opinion split on the need to combine gender and equity
- Need for monitoring of equity work, and accountability to the strategy

Organization of the Gender, Equity and Empowerment Unit

- Clear positives and challenges from the Gender Unit to be taken forward into new GEE Unit
- Oriented more to flagship support than to independent equity research
- Incorporating more training and outreach
- Considerations about GEE location and funding structures for collaborations

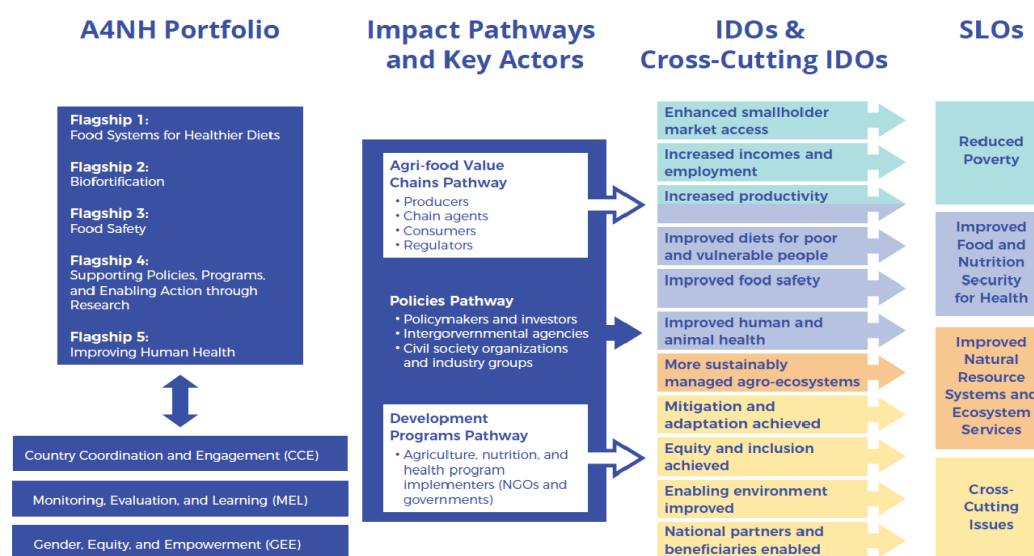
While gender strategies exist at multiple levels (CGIAR, A4NH, individual centers, and for certain bilaterally funded projects), we are not aware of an equity strategy at any of these levels. It is our recommendation that an equity strategy be created once an equity expert is in place at A4NH. The former Gender Unit was in general appreciated by interview respondents. Changes that different respondents would make to the current functioning of the unit involved orienting it more to flagship support than to independent equity research, with funding perhaps allocated through flagships to fund pieces of equity expert time to encourage this, and experts perhaps more dispersed than at present; including one or more senior equity advisors for strategic oversight; incorporating more training from the Unit to flagships on equity issues; and strengthening collaboration with external experts and organizations on equity research and technical support.

Background

Introduction to A4NH and its equity approach

The CGIAR Research Program on Agriculture for Nutrition and Health (A4NH) aims to bridge the gap between agriculture and improved nutrition outcomes by adapting agricultural practices, interventions and policies. It is doing this through five areas of research called flagships (**Figure 1**). All are aimed at improving the lives of people who live in poverty through access to better nutrition, health and farming practices.

Figure 1 A4NH results framework



Gender issues have been a key focus of A4NH over its lifetime, and throughout the A4NH portfolio researchers take into account the role gender plays in determining the impact agriculture can have on nutrition and health outcomes. The A4NH gender strategy², last updated in 2016, aims to facilitate the achievement of nutrition and health objectives through greater attention to gender issues along the A4NH impact pathways above.

The 2015 external evaluation of A4NH³ found that A4NH has focused on gender, and on income disparity, but not consistently on other dimensions of social equity (**Box 1**). As a result of the evaluation, the Gender Unit has expanded its remit to become the Gender, Equity and Empowerment (GEE) Unit for the second phase of A4NH (2017-22). The GEE Unit is now consulting on how best to take a broader focus on equity in A4NH research.

² A4NH gender strategy for phase II, 2016. <http://a4nh.cgiar.org/files/2014/03/A4NH-Gender-Strategy-Updated-August-2015.pdf>

³ Compton et al 2015. Independent CRP-Commissioned External Evaluation of the CGIAR Research Program on Agriculture for Nutrition and Health (A4NH) <http://iea.cgiar.org/evaluating/crp-commissioned-external-evaluation-ccee-agriculture-for-nutrition-and-health-a4nh/>

Box 1: Findings from the external evaluation: Equity in A4NH

“We find that social equity has not been adequately addressed in A4NH, although it is crucial for ANH outcomes.

Gender has been a prime focus of A4NH, but it cannot be addressed in isolation while ignoring the way that gender interacts with other social differences.

Although many A4NH programs target ‘the poor’, social analysis and disaggregated data are often lacking.

Social equity is an issue that ANH can and should take forward even without the rest of the CGIAR: although equity is important everywhere, it is arguably most urgent in ANH.”

Excerpts from the A4NH external evaluation, 2015

Equity is important in A4NH research: apart from the moral issues of large disparities in nutrition and health outcomes based largely on the chance circumstances of birth, these disparities also limit the conversion of economic growth to human development outcomes (Haddad 2015). There is much evidence that coverage of health and nutrition services, and agricultural markets, are not equitably distributed across populations, and malnutrition and child mortality are generally greatest in the lowest income quintiles within a country (Haddad 2015). Therefore, attention to equity is integral to the issues that A4NH addresses.

Language in the A4NH results framework already contains objectives such as achieving equity and inclusion; working with vulnerable people; and processes such as enabling beneficiaries, enhancing market access, and increasing incomes. Each of these objectives speak to aspects of equity, but the aim of this review is to guide A4NH in understanding how to address equity in a more comprehensive and strategic manner.

This external review builds on separate consultations over the past year or so⁴ to this end. The review aims to bring in ideas and literature from more general development studies not generally considered in agriculture-nutrition-health (AHN) research, and use these concepts to assess gaps in A4NH equity work that the program could seek to fill.

Equity concepts

In researching agriculture for nutrition and health outcomes in low- and middle-income countries, the closely-related but philosophically-distinct concepts of equity and equality are both important. Both equity and equality are ethical concepts, generally seen as grounded in principles of moral equality: that all people count, and should be treated as equals. Both are therefore normative concepts, based on how we think the world *should* be; but no more so than aiming for economic growth, or human rights, which are also choices based on value systems.

Equality is generally seen as founded upon aggregative principles, the same efficiency and utility principles underpinning much of development economics. This approach requires that goods be

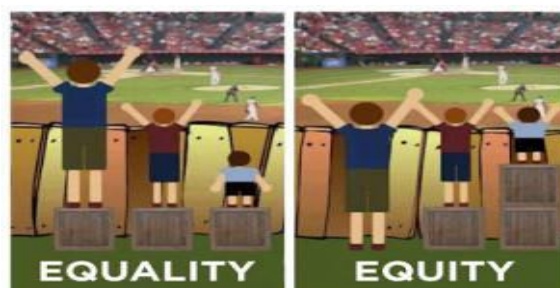
⁴ Consultations including the 2015 external review: Compton et al 2015. Independent CRP-Commissioned External Evaluation of the CGIAR Research Program on Agriculture for Nutrition and Health (A4NH) <http://iea.cgiar.org/evaluating/crp-commissioned-external-evaluation-ccee-agriculture-for-nutrition-and-health-a4nh/>; a 2016 online survey; and a 2016 consultation workshop.

distributed to achieve highest average levels of a good (such as farming education or access to health services, or nutrition and health outcomes).

Equity on the other hand is founded upon distributive justice (the socially just allocation of goods). This approach is not about final distribution, rather about how distribution is done. Equity requires fair distribution according to need, or to features of people to whom the distribution goes, such as populations marginalized through different personal or geographic attributes, or those most vulnerable to poor health or nutrition.

A well-known illustration, **Figure 2**, shows the essential difference between the two closely-related concepts of equity and equality, where equality is concerned with the sameness of an outcome, and therefore the final distribution of a good; while equity is concerned with the fairness of a process, and therefore the just distribution of a good. Equity and equality are not the same, therefore, but are not mutually exclusive; one chooses to focus on outcome, and the other on process. Synonyms for equity therefore include fair process, equal life chances, and equality of opportunity.

Figure 2: Equity and equality in practice



A key feature of inequity is that it is multidimensional, with causes of marginalization tending to cluster together, intersecting and reinforcing each other, making some groups very vulnerable to poor outcomes. Examples include the intergenerational transmission of disadvantage within populations, such as child stunting as the intergenerational transmission of poverty, hunger and ill health; institutional disadvantage, including detrimental norms around gender roles; geographical disadvantage, where marginalized groups tend to be further from both political and economic power and important services, including access to health and agricultural extension services; and chronic poverty, where many of these disadvantages come together and accrue into self-sustaining patterns of inequity and inequality (Jones 2009). Underpinning this understanding of equity is a necessary concern with power relations, as inequity and marginalization are ultimately caused by power imbalances.

Drawing from this conceptual overview, it is clear that there are several different literatures that would be relevant in underpinning work on equity in A4NH research, including (depending on the specific project) bodies of work on agri-food and gender, youth and agriculture, nutrition and caste, health service access, or power and development – even if these do not explicitly mention equity or equality as defining concepts.

Equity responses

If A4NH is choosing to focus on equity, there is a need to understand what this means operationally as well as conceptually, and what practically could be done about inequity in terms of policy and program responses that are researchable. The A4NH definition of equity is taken from Jones (2009): *based on the idea of moral equality i.e. the principle that people should be treated as equals and that*

despite many differences, all people share a common humanity or human dignity. The three principles of equity are: equal life chances [no transmission of disadvantage], equal concern for people's needs [which will differ between groups and individuals], and meritocracy [fair access to opportunities]. This speaks to the Sustainable Development Goals concept of 'no-one left behind'⁵, and the avoidance of systematic marginalization through structural approaches to tackling inequity.

In practice, inequity refers to differences which are unnecessary and avoidable, but are also considered unfair and unjust in the context of what is going on in the rest of society. The test of whether differences are avoidable requires looking at whether disadvantages systematically accrue to certain groups and not to others, where there is systematic exclusion or marginalization (Braveman and Gruskin 2003). The test of whether differences are considered unfair depends on whether people chose the situation which caused the poor outcome, or whether it was mainly out of their direct control (Whitehead 1991).

Despite these clear tests of avoidability and fairness, equity approaches are difficult to operationalize because they tend to work against established power structures and interests; are complex and context-specific to diagnose; it is easy to miss marginalized people, with targeting errors common; and it is hard not to create unintended further exclusions through targeting (Jones 2009). Nonetheless, it is possible to work towards equitable policy, which tends to sacrifice equity for universality in the short term, and aim for an equitable approach to changing power relations over the long term. Jones (2009) suggests that with an equity lens, five areas of policy come more sharply into focus:

1. The role of universal access to public services in better including the marginalized;
2. The role of targeted action for disadvantaged groups in actively addressing issues facing the marginalized;
3. The role of social protection in ensuring that the marginalized do not drop below a minimum level of welfare;
4. The role of redistribution through different policies in improving equity by reducing financial inequality; and
5. The role of embedded power imbalances in causing and sustaining inequity, and challenges to these.

For each of these there will also be cost implications: it has been found for instance that with the same level of investment, disproportionately higher effects are possible by prioritizing the poorest and most marginalized populations, for averting both child mortality and stunting (Carrera, Azrack et al. 2012).

Equity research

Each of these key policy responses to inequity is researchable in a number of ways in the context of agriculture-nutrition-health policies and programs. What is required in terms of a research focus on both equality and equity will depend on the particular project in question, and involves taking these issues into account in initial theories of change and subsequent assessment plans. There is a spectrum of approaches available to researchers, from work that is equity-blind, to work completely focused on equity (Braveman and Gruskin 2003, Jones 2009, Bamberger and Segone 2011, Bamberger, Segone et al. 2013):

- Work that is blind to both equity and equality, failing to identify unequal outcomes or address potential inequities in the particular research context.

⁵ 'No-one left behind' as an ethical imperative of the new development agenda:
<http://www.un.org/apps/news/story.asp?NewsID=52992#.WfmInGiOM2w>

- Work that pays attention to inequality in outcomes for different groups, for instance undertaking disaggregated analyses of data. A key point for research of this type is that it requires comparison, for instance between women and men or groups marginalized along different axes, comparing most to least marginalized. In particular, disaggregated analyses of different interacting dimensions are useful to look at the intersectionality of multiple aspects of marginalization. This type of policy research might also look at the impacts of targeting, and weighting of cost-benefit analyses by need.
- Work looking at the ways that inequity affects the processes leading to unequal outcomes, understanding social exclusion, marginalization, discrimination and power, and looking at structural bottlenecks to equity. This can include political economy work looking at change and how it happens, to understand the process; and power analyses looking at the winners and losers from change, to understand how to mitigate marginalization.
- Work completely focused on equity or the transformation of marginalization in agriculture for nutrition and health. This can include participatory research, to understand experiences of inequity, and understanding what different goods and services mean to different people, and so the relevance of distributional justice to them.

All of this work - if it aims not to be blind to equity - requires understanding of social, political and economic contexts; causal chains; and dimensions of wellbeing, and the interactions between these. At a minimum, an understanding of dimensions of marginalization within the research context is required, recognizing which groups are marginalized on different issues in different contexts. All types of research undertaken by A4NH can use an equity lens, including research into how different policies or programs affect marginalized groups, and how different groups are marginalized for key services and markets. Tailoring this work to equity issues might involve separate qualitative research into the aspects defined above, but might equally involve a reading of available literature from anthropology or political science in order to understand a new research context more fully.

Mirroring this spectrum, in gender studies paradigms include an approach to 'gender differences' (sometimes called 'practical gender needs') which addresses current differences in male and female roles and relationships; and an approach to 'transformational' aspirations to promote changes in gender equity (sometimes called 'strategic gender needs') (Cole, Kantor et al. 2014). An example of these different layers of equity research is given in **Box 2**, in relation to gender equity.

Box 2: From women's empowerment to gender equity

Adapted from Morgan (2014)

Although some agricultural programs aim to achieve advances in gender *equality or equity*, they tend to only measure outcomes and impacts on women's *empowerment*. Many programs strive for women's *individual* self-improvement, leaving unchallenged a range of structural and socially-defined constraints that limit the ability of these 'improved' women to exert agency.

Capturing achievements in gender *equality and equity* requires taking into account processes of change that include but go beyond the individual or household level (i.e. changes to larger social relations, rules, norms and practices); beyond the tangible or easily measurable (i.e. changes to the relationships, perceptions, attitudes, values, beliefs); and beyond only women (i.e. changes to men and relationships between and among men and women).

On indicators, we tend to use a narrow set of quantitative indicators that measure material or tangible *empowerment* changes for individual women, from either a baseline or relative to their husbands. Because gender is constructed socially, we need to also attempt to measure changes in interpersonal relationships for *equality*, and changes in the larger societal rules and norms that produce *inequity*. Examples include:

Individual:

- changing knowledge or awareness
- individual behavioral change
- changes in attitudes, values, beliefs and expectations about gender

Relationships:

- an increase in spousal/family communication
- an increase in joint decision-making among partners
- more equitable treatment of children
- expansion of social networks
- increased rate of participation in community organizations

Norms and structures:

- changes to formal structures of society (laws, policies and formal rules)
- informal, implicit rules that govern what a person can do in the pursuit of daily life
- longer-term and larger-scale

What generally lacks in much (though not all) ANH work is assessment of the larger structural drivers of change in an issue such as gender equity, which requires a different kind of data collection (either qualitative, or as a community-level indicator). As these changes are societal, they may need to be looked at longer-term and at larger scale than a standard project cycle.

Aims and approach

Aims and approach of the study

The aim of this work was to identify opportunities for A4NH research to consider equity better, to go beyond gender to include other sources of inequity that contribute to inequitable nutrition and health outcomes. Specific questions commissioned for the review, to be answered where information was available, were:

1. Where and how are equity issues important in the Flagship Programs (Flagship Programs)?
2. What work are the Flagship Programs currently planning/doing on equity issues, and what can be done to strengthen this work and make it more visible?
3. Where the Flagship Programs are not currently working on equity issues, do they have the data for additional equity-related analysis and what would it take to do the analysis?
4. Where the Flagship Programs do not currently have the data, what resources would be required and what are the priority areas, costs, and key partnership opportunities to do so?

In answering these questions, the overall approach taken in this review included understanding the potential of an equity-focused approach through interrogation of the development studies literature, which has a long history in this area; interviews with those involved in A4NH research; and review of A4NH strategies, workplans, and deliverables. In total, we aimed to assess the gaps between the potential and the actual in A4NH research. In order to do this, we looked at three factors:

1. How equity issues have historically been and are currently integrated into the work of the different A4NH flagships;
2. What the broader development studies literature and thinking on equity says could be done on equity in development research; and
3. Therefore, what the gaps are between current and potential work that A4NH could look to fill, and how it might start to do this (in the conclusions and recommendations sections below).

Methods

Data Collection:

Literature review

We held discussions with several experts on power and equity research at IDS, and they highlighted some of the most relevant literature on equity and development. The outcomes of the discussions and the insights from the literature provided a clear indication of what was possible to do with equity research, which we then compared to what A4NH is currently doing to form our analysis.

Semi-structured interviews

Eight semi-structured interviews were carried out with all five Flagship Program Leaders, the A4NH Director, and additional interviews with other flagship team members from Flagship Program 4 and Flagship Program 5. Further contributions were sought via email and skype from eight people within A4NH. Informal interviews were carried out with A4NH Project Management Unit members during the 2017 ANH Academy Week Conference.

Two interviews have been carried out with external organizations who work on similar topics to A4NH. These organizations were identified in collaboration with A4NH. They were asked about existing work they are doing on equity in relation to agriculture and nutrition.

Project document review

Relevant project documents were reviewed. From Phase I - A4NH Annual Reports - 2012, 2013, 2014, 2015, and 2016, Work and Budget plans 2013, 2014, 2015, and 2016, The GEE Gender Strategy from 2016. 101 Deliverables from Phase I were randomly selected from an internal database and 505 of the peer-reviewed articles published in ISI journals and reported to CGIAR during Phase I were included (this accounts for all but a handful of journal articles, those not included were not available for download). From Phase II, the review included the CRP Phase II full proposal and annexes, the flagship's impact pathways (or causal links between deliverables and outcomes), the 2017 Plan of Work and Budget, and the Gender Strategy for Phase II that was revised as part of the Phase II proposal.

The documents from Phase I that are reviewed are from the planning perspective, as well as project reports, publications and outputs written after work had been carried out. The documents from Phase II are only written from a planning perspective, as the work has only recently started.

For a full list of interviews and documents reviewed please see Annex 2.

Equity experts engaged

Interviews and email discussions were carried out with equity experts from within IDS. They were engaged to gain a better understanding and insight into the key issues, arguments and discourse within these areas. The experts provided input into and review of the key concepts, the initial presentation of results, the final write up of results, and recommendations.

Analysis

Document analysis was carried out using NVIVO for keyword searches relating to key concepts identified through the literature review and expert consultation. In addition, interview and email transcripts were read and synthesized for common themes. Further detailed analysis was carried out by searching for each individual mention of 'equity' and which areas of equity this related to specifically, within the annual reports, work plans, gender strategy and Phase II proposal. This was not undertaken with the deliverables and peer reviewed journals as this was beyond the scope of the study, but these documents were included within the keyword and concept searches.

Initial findings were triangulated through further informal discussions with A4NH, through discussions with equity experts within IDS, and through discussions within the IDS team, as well as through further contact with Flagship Program leaders. Recommendations were formulated through assessment of gaps between current or planned A4NH work and the broader equity literature, and from suggestions made by those close to the A4NH program in interviews.

Limitations

No comprehensive list of the datasets associated with A4NH. This makes analyzing if further analysis is possible with existing data extremely difficult. However, despite this lack the flagship leaders were aware that there are datasets available that can have additional analysis carried out on them to look at equity issues. There was also enthusiasm for ensuring future data collection made equity analysis possible. The area of focus will vary within each context, but Jody will talk in broad brush strokes in a minute about some of the areas.

Contact with relevant external organizations was relatively limited. Many organizations were contacted but few responding to requests for interviews. This was also not seen as the most important area of enquiry for the research, and so resources were not used to try to rectify this situation.

Disentangling the concept of 'equity' from other related issues, including vulnerability, marginality and equality is complex. Recognizing vulnerabilities, marginalization and inequality is important to be able to try to achieve equitable outcomes, but these concepts are not the same as equity itself, and so have deliberately not been included in the following discussion. To say that, for example, A4NH does not discuss equity in relation to disability does not mean that A4NH is not working on disability, just that at this point in time it has not linked equity to disability work explicitly.

We sampled approximately 20 deliverables from each flagship in Phase I. We acknowledge that this is an unequal proportion of sampling, however, we defend our choice to select a certain number rather than proportion – giving an equal sample to each flagship, rather than having a skewed sample towards the flagships that produced the most deliverables. We do not feel that different sampling would change the recommendations.

Finally, 2017 is the first year of A4NH's second phase and annual reporting had not yet begun at the time of this review. The review focused on research products (deliverables) from Phase I. Furthermore, the initial random selection of Phase I deliverables did not exclude deliverables from CGIAR Centers that are no longer reporting work to A4NH in Phase II (e.g., CIP, ICRAF, ICRISAT, WorldFish and some divisions with IFPRI). For the ISI journal publications reviewed, the review also did not exclude publications from CGIAR Centers and/or IFPRI divisions that are no longer reporting work to A4NH. Therefore, the deliverables reviewed may not be an accurate reflection of A4NH's current portfolio and plans for Phase II.

Findings

Within the literature review, interviews and documents review, specific aspects of marginalization emerged as particularly important in the operationalization of equity in agriculture for nutrition and health research. These aspects are summarized below, and are then used in the analysis below to organize the findings.

- **Gender:** It is well established that the differences in the roles and experiences of men and women in agriculture condition nutrition and health outcomes. A4NH research already integrates different gender analyses in much of its research, hence gender being included here as a key lens through which to research equity.
- **Income:** The role of income, and poverty more generally, is acknowledged as a key equity issue in much A4NH research already, with inequality conditioning both current equity and the inter-generational transmission of inequity. Income and poverty were therefore included here as a key lens through which to research equity.
- **Life-stage/age:** Equity in the life cycle implies relative power between people depending on their position defined by age, marriage, household position (head/widow etc) and which intersects with other facets of identity, most notably gender. For some projects, it will make sense to focus on certain life stages as conditioning different forms of marginalization. In agriculture for nutrition and health it may well be that, for instance, the experiences of unmarried first-time mothers are important to understand, or of the elderly in farming households. Therefore, with an equity lens, depending on the project, different life stages will be important.
- **Youth:** We separated youth from other life stages in the review because it was talked about specifically by several flagship leaders during interviews, as a previous requirement under CGIAR programming. Specifically, for many nutrition-focused projects it will be usual to address the status of the under-5s and adolescent girls in particular, as groups most vulnerable to poor nutrition outcomes, and youth working in agriculture, as a marginalized group.
- **Geography:** Geographical inequities are discussed using language around access to land, roads, markets, and comparisons between areas such as rural and urban, or highlands and lowlands. Inequity in terms of access to markets and to services is therefore captured as part of a focus on geography.
- **Ethnicity/ caste:** Ethnicity (and in some contexts, caste) is acknowledged as an important aspect of marginalization in some contexts, and was noted by several flagship leaders as important to their work. In addition, it is important to note that as ethnicities tend to cluster in the same geographic locations, focus on ethnicity may be underestimated if geographical focus is implicitly addressing this aspect of marginalization, though it would be important to make this explicit in research in order to tease out the different aspects of marginalization at play.
- **Disability:** Disability, whether physical or mental, was rarely mentioned in relation to A4NH research, but is a final aspect of marginalization that emerged from the literature as important to understand in the context of agriculture for nutrition and health research. Further, the leader of Flagship 2 requested that this element be included within the review, as a result of possible funding opportunities.

The sections below seek to summarize findings from the interviews and review of documents under the initial four research questions specified in the terms of reference for this review:

1. Where and how are equity issues important in the Flagship Programs?
2. What work are the Flagship Programs currently planning/doing on equity issues, and what can be done to strengthen this work and make it more visible?
3. Where the Flagship Programs are not currently working on equity issues, do they have the data for additional equity-related analysis and what would it take to do the analysis?

4. Where the Flagship Programs do not currently have the data, what resources would be required and what are the priority areas, costs, and key partnership opportunities to do so?

1. Where and how are the below equity issues important in the Flagship programs, as reflected in the CRP Phase 2 proposal and related materials, and 2017 work plans?

Reaching and benefitting marginalized groups. *There is often high correlation between poor nutrition outcomes and other factors like income, caste/ethnicity, age/life-stage. Even though our main target outcome is nutrition, we need to understand these other aspects of social differentiation and exclusion if we want to reach our target audience. We need to understand them to know what types of programs will work, how these programs can be targeted, who might be excluded, etc.*

The importance of empowering marginalized groups to achieve outcomes. *Even though we target individuals, we do not want to lose sight of collective processes and achievements. Understanding and designing interventions with outcomes at the group or community level can be important and may require specific focus and skills.*

Avoid unintended negative consequences of interventions on poor or other socially excluded groups. *Several examples where this could happen were discussed.*

To answer this question, we have focused on material gathered from interviews with flagship leaders, the PMU, and Phase II internal documents⁶. In places, we have also included Phase I internal documents and deliverables⁷ within our review, in order to provide a broader view of existing areas of work within A4NH on equity.

In our interviews with flagship leaders, everyone was aware of the term equity, but few used the term in practice, or talked explicitly about power. However, people talked about reaching and benefitting marginalized groups, about disadvantage, about inclusivity, and about working with different groups defined by different issues and contexts. Some people mentioned unintended consequences of interventions on aspects of marginalization, such as safer foods being more expensive. There was also some discussion about the empowerment of marginalized groups, but this featured less prominently.

No flagship expressed awareness that A4NH has a working definition of equity – encompassing equal life chances, equal concern for people’s needs, and meritocracy, taken from Jones 2009. But several flagships expressed a will to get better at undertaking equity analyses.

The CRP Phase II proposal places an emphasis on gender equity (21 mentions), but also includes economic equity (5 mentions, and 13 further mentions of poverty), and one mention of equity linked to youth (**Figure 2**). Inequities relating to disability, and ethnicity/caste were not mentioned at all. There is also a more general discussion of the need to integrate equity issues into A4NH’s work more broadly, but that discussion lacks specifics.




The CRP Annexes offer a little more specific information on work regarding equity. Gender equity is discussed eight times, equity is linked to youth three times, but youth inequity is also linked to other






















⁶ CRP Phase II proposal and Annexes, Work and Budget Phase II - 2017, The GEE Gender Strategy from 2016, and MARLO Impact Pathways 2017

⁷ A4NH Annual Reports from Phase I - 2012, 2013, 2014, 2015, and 2016, Work and Budget plans for Phase I - 2013, 2014, 2015, 2016. 101 Deliverables from Phase I, 505 Peer Reviewed Journal Articles from Phase I

areas of vulnerability, such as ethnicity (acknowledging the intersectionality of equity issues). Inequity is linked to ethnicity, explicitly, only once, though as noted in the introduction to this section, geographic focus may be including implicit focus on marginalized ethnicities. Socio-economic inequities are discussed using the language of poverty and income as a comparative issue between richer and poorer people. Age is discussed in reference to targeting the most vulnerable groups.

Figure 2 A4NH Phase II Internal Document Review of Areas of Equity Discussion

	Focus of part of work
	Implicit/addressed but not focus
	Not included in work

Phase II Document Review	Gender	Youth	Disability	Income	Ethnicity/Caste	Life-stage/age	Geography
CRP Phase II							
Gender Strategy							
CRP Phase II Annexes							

Discussion of reaching or empowering ‘marginalized’ groups (specifically using that language - as reflected in the question above) is very limited. It is mentioned once within the CRP Phase II Annexes, and once within the Gender Strategy 2016. As a result of this we expanded our search to Phase I documents, and we found similar results. It is not mentioned at all in A4NH Phase I Work Plans, and looking at the Annual Reviews from A4NH Phase I, marginalized groups are mentioned once, in 2014. However, the term ‘vulnerable’ in reference to reaching groups, people, or populations is much more widely used throughout both planning and reporting documents (in both Phase I and Phase II) (though not always specifying vulnerable to what), perhaps suggesting that some basic definitions and language around equity work might be useful for the program as a whole. Discussion of *empowering* vulnerable groups however is limited and only used as part of the Flagship Program 4 overview ‘empowering women and vulnerable groups’.

Ensuring that unintended consequences are avoided is discussed widely within the CRP Phase II proposal, predominantly as part of a discussion about gender research, and also within the Gender Strategy. There are often cross-overs between these documents, and this is one of the areas where the discussions are almost identical.

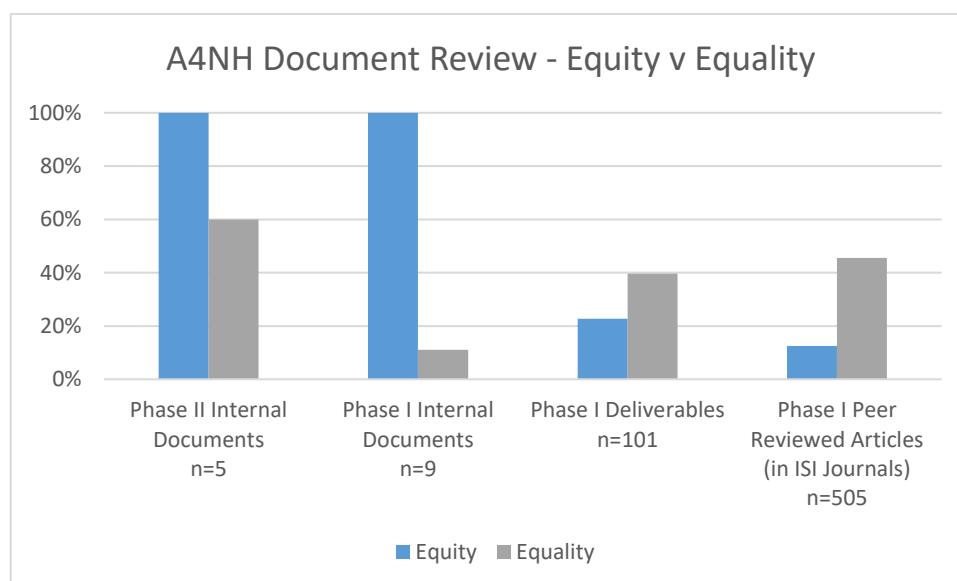
Internal Phase II A4NH documents emphasize the importance of ‘equity’ in general, often linked to gender and empowerment, with 100% of internal project documents discussing the concept. The result remains the same when we expand the search to include Phase I planning documents. However, deliverables and peer reviewed journal articles (from Phase I) did not include the same level of emphasis, only 12% of peer reviewed journal articles and 23% of deliverables mention equity at all.

When performing the same review, but looking instead at ‘equality’ there is a shift in findings. While all Phase II documents mention the concept, it is considerably fewer times than equity (For example, the CRP Phase II proposal mentions equity 48 times, but equality only 7; the Annexes mention equity 49 times, but equality only 6). And expanding the search to include Phase I documents shows us that they do not mention equality at all, with one exception within the Work Plan for 2014. When looked at together, only 29% of internal A4NH documents mention equality (compared to 100% for equity) – but 46% of peer reviewed journal articles and 40% of deliverables discuss equality (compared to 12% and 23% respectively for equity) (**Figure 3**).

Other relevant internal A4NH documents (including annual work plans and annual reports) also include a large amount of discussion about **gender** inequity (100% of both Phase II and Phase I documents included this topic). There is also a small amount of discussion about income inequities, but almost none on **disability** or **ethnicity** (the results are almost identical for both Phase I and Phase II documents). **Youth** inequities are discussed within the CRP Phase II documents, which is a change from Phase I.

During their interviews all the flagship leaders recognized the importance of equity within their work for A4NH. However, there was a lack of clarity and consistency regarding a definition of equity and a lack of expert knowledge about how to operationalize equity research or equitable outcomes. However, all flagship leaders were very enthusiastic about including equity issues within their work moving forward, assuming there was a level of resource to assist with this.

Figure 3 Review of Phase I and Phase II A4NH Documents – discussion of equity and equality









































2. What work is the Flagship Program currently planning/doing on equity issues, and what can be done to strengthen this work and make it more visible?

The data in **Figure 4** is self-reported current and planned work by Flagship Leaders. This does mean that it is possible that flagships are working on issues that relate to the seven equity areas, for example gender, but are not actually working on equity in relation to gender. It was found that all Flagship Programs are working on equity issues relating to gender, all but one having explicit gender related research. Income was also widely covered, but this may be because information about economic status is routinely collected as part of surveys, rather than because explicit income

inequity work is carried out. Information on ethnicity or caste, and age is also often routinely collected, but may not be used to look specifically at related inequities. Geographical inequities are looked at in a variety of ways by three flagships, topics include access to markets, the differences between highland and lowland populations, and particularly remote communities. Only one flagship is explicitly working on youth inequities and there is no work being carried out that explicitly looks at inequities relating to disability.

Figure 4 Areas of Equity Work for each Flagship Program⁸

	Focus of part of Flagship Program research
	Implicit/addressed but not focus
	Not included in Flagship Program research

	Gender	Youth	Disability	Income	Ethnicity/ Caste	Life-stage/ Age	Geography
Flagship Program1							
Flagship Program2 ⁹							
Flagship Program3							
Flagship Program4							
Flagship Program5							

The flagship leaders interviewed also provided their assessment of potential future work likely to be carried out under each flagship, summarized below.

Flagship Program1

Flagship 1 are addressing ethnicity/caste inequities through finding ‘the most vulnerable groups’ regarding diet, usually influenced by ethnicity/caste. They are looking at age/stage through a focus on women, children and adolescent girls as a gateway to good nutrition. There is also a focus on NCDs which necessitates consideration of the elderly population. Areas for future work could include food innovations, and a focus on groups that could be empowered through innovations.

Flagship Program2

The work carried out by Flagship 2 focusses on biofortification of staple foods for the whole population, and this will continue within future work plans. This staple food change

⁸ The table looks at each flagship as a whole and not individual projects. All information is self reported by the flagship leaders.

⁹ FP2 - doesn’t use equity language – ‘inclusivity’ instead

disproportionately positively affects the most vulnerable populations, but this is not done through a targeted equity approach. Further thought is needed to consider how best to create a space for 'equity' within this work. In this flagship marginalized people are defined as people who are not sufficient in their intake of nutrients, and 'inclusive' is used as a term, rather than 'equitable'. Areas for future work include, better monitoring and evaluation of the people the flagship reaches, collecting more data to better understand who benefits, and strengthening qualitative work to see what barriers exist to people accessing the technology. All of these areas could benefit from an equity lens.

Flagship Program3

Flagship 3 has a large amount of equity related work ongoing under the 'evidence that counts' project. For example, they are looking at risk assessments, understanding risks and applying a gender and equity lens to that work; looking at who is exposed to risk and who does what in relation to livelihoods. They are also researching how countries prioritize, and have found that most countries that they operate within have a 'weak' ability to prioritize the needs of the most at risk. This can be caused by misconceptions around risk. This means that equity issues are not being taken into account. Finally, they also look at the management of risk. Using technology and a multi-pronged approach to better manage risk for the most marginalized groups. Trying to develop ways that incentivize behaviors and enable change.

Flagship Program4

The activities in Flagship 4 will include to developing new methods, tools, and indicators for measuring the impacts of nutrition-sensitive agricultural programs which will include the measurement of impacts on gender equity and women's empowerment.

Flagship Program5

All of the work done within Flagship 5 will be carried out in a way that is mindful of potential unintended consequences, and the possibility that these consequences often disproportionately affect the most marginalized populations. For example, ensuring systems are not overly formalized and only aimed at rich farmers. Informality must be recognized.

Further discussion of what it would take to increase this work and its visibility is in the recommendations section.

3. Where the Flagship Program is not currently working on the equity issues, do they have the data and information on which additional equity-related analysis could be conducted, if so, what would it take to do the analysis?

There is no centralized list of existing datasets associated with A4NH much less for each flagship; often datasets are linked to bilateral projects and managed by the CGIAR Center or institution and their relationship to A4NH is not always reported, so it was not possible within the remit of this review to access datasets or data collection tools. However, all flagship leaders felt that they did have access to some existing datasets on which it would be possible to carry out additional equity-related analysis given adequate support.

Some examples of existing datasets (both from A4NH projects, and publically available) on which additional equity-related analysis could be conducted include¹⁰:

Flagship 1 – dietary data, the national food consumption surveys, LSMS.

Flagship 2 – M&E data, food consumption data, DHS, NCES

¹⁰ This list is not intended to be exhaustive.

Flagship 3 – A variety of project datasets¹¹, study on FBD data, DHS, LSMS, IHME

Flagship 4 – A variety of project datasets¹²

Flagship 5 – World Bank and FAO surveys of livestock and health, DHS.

Further discussion of what it would take to do these analyses is in the recommendations section.

4. Where the Flagship Program does not currently have the data and information necessary to undertake appropriate equity analyses, what resources would be required to begin to systematically collect them and where are the priority areas to do so?

The sections below summarize what flagship leaders, and other flagship programme staff, themselves suggested as resources required to undertake further equity work. The next section, conclusions and recommendations, provides a longer discussion of options and resources based on the full range of findings presented above.

Resources:

The flagship leaders suggested three categories of support required to undertake further equity research:

- Expert knowledge about what data are needed in order for meaningful analysis to take place
- Expert knowledge to help design research that allows equity analysis
- Research assistant time to carry out said analysis.

Priority areas:

Flagship leaders expressed a desire for central A4NH leadership on equity priority areas - in the same way that there has been centralised leadership and support around gender work. There are some areas that it is clear are already being worked on (to varying extents). There are different gaps within each flagship. It is also worth investigating whether there are equity priorities amongst the CGIAR System Council (and bilateral funders) for A4NH's work, as this will inevitably inform future research priorities.

Summary of findings

Equity issues have expanded beyond gender equity in A4NH during Phase II, as evidenced by internal planning documents for Phase II and interviews with flagship leaders. The equity issues discussed predominantly focus on gender, with some work being done on income and geographic inequities, a little on youth and ethnicity and very little on disability. Intersectionalities between these different aspects of marginalization are rarely acknowledged. There is a focus on 'vulnerable' groups, but very little discussion of 'marginalized' groups; this may be an issue of semantics.

¹¹ Datasets submitted to the Environmental Information Data Centre, UK: <http://eidc.ceh.ac.uk/> Focus group discussion data, Livestock data on Rift Valley fever serology, Mosquito data, Human Rift Valley fever serological data. Datasets to be posted on the ILRI Data Portal: <http://data.ilri.org> - Brucellosis seroprevalence data, Leptospirosis seroprevalence data, Q fever seroprevalence, West Nile virus/dengue seroprevalence, Animal and vector data, Rodents dataset. Nutrition Knowledge Bank: <http://www.cabi.org/nutritionkb>

¹² Including Jigi, mNutrition, PRADAN, Pro-WEAI, SeLever, Suaahara, TRAIN

Despite this nominal prioritization of equity (within Phase I and Phase II planning documents), there is a disconnect between these internal planning aspirations, and externally facing deliverables (as evidenced in Phase I deliverables); the former discussing issues of equity, while the later uses the language of equality instead. There is a clear change in Phase I from what was planned, to what is written up. Further, much of what is discussed in A4NH plans and protocols relates to issues of equity, but without using the word itself. For example, the desire to reach vulnerable people, to empower women, and to strengthen capacity, all speak to an equity agenda – but without explicitly acknowledging this paradigm. Again, this may be semantics, but A4NH needs to make sure terminology, and therefore aims, are clear; much of the work carried out could be relatively easily re-framed with an equity lens. There is an opportunity here to ensure that the planned work on equity for Phase II is carried out in such a way that it can be written up using an ‘equity’ rather than ‘equality’ lens.

All flagship leaders were enthusiastic about further incorporating equity into future work, providing there was suitable support from A4NH. They also confirmed that there are existing datasets available within the flagships that could benefit from appropriate equity analysis. However, there are currently no lists or database of existing datasets.

Conclusions and recommendations

A4NH research needed on equity

Taking into account the findings of this assessment on the current focus of equity in A4NH (from the combination of document review and interviews), and what the theoretical literature from the development studies literature says could be undertaken to look at equity in development research, this study finds several research gaps that A4NH could seek to fill. These can be divided into quick wins, largely using existing data and requiring an equity lens to plan analyses and supervised RA time to undertake analyses; medium-term options, largely based on survey work and requiring designing survey modules with an equity lens and thinking about who is interviewed, so requiring up-front equity planning capacity then supervised RA time for analysis of new data; and longer-term options, requiring integration of strong multi-method research and participatory work to understand political and social context and power relations as underpinning complex drivers of marginalization.

Not every recommendation will be relevant to every flagship, depending on the scope of work, but most will be applicable to a majority of A4NH work. Going forward, the 'youth' category could be combined into the life-stages concept. This was separated out in the report because youth was already an issue the CG had wanted to highlight, and so came up separately in interviews and documents.

Box 3: Research opportunities for A4NH

Quick wins:

- Using existing data to compare across categories (wealth, land access, gender)
- 'Process evaluation' understanding program participation and attrition relating to aspects of marginalization
- Revisiting theories of change with an equity lens, beyond women and the poor
- Undertaking a review of literature within ANH research that addresses equity in different ways

Medium-term:

- Including a comparator in surveys: Men vs women; richest vs poorest...
- Looking at unintended consequences for different groups (eg. Time allocation, food cost)
- Integrating indicators of service access, social relationships and social norms into surveys, either at household level or at community level.
- Cost analyses of programmes reaching marginalized groups

Long-term

- Understanding context (political, social, cultural), including perspectives of the marginalized
- Undertaking political or social research with a focus on power relations as underpinning equity
- Multi-country analysis and indicators of intersectional inequity

All of these options require explicit acknowledgement both within A4NH and within research partners that issues beyond gender and income define marginalization and equitable development processes, and that these vulnerabilities overlap and intersect to produce complex social processes that require complex research approaches. In addition, for ongoing sustainability of this research, these inter-disciplinary, multi-issue research approaches need to demonstrate that their insights are leading us to be able to create more equitable nutrition and health outcomes than business as usual, so strategic planning will be necessary to create a coherent portfolio of research that can do this.

Quick wins:

Interviews with flagship leaders and members of the GEE unit confirmed that there are cases where data have been collected which would allow comparison across categories to reveal something about outcomes in groups experiencing greater or lesser marginalization. This was largely data on men as compared to women; richer and poorer households in a given context; and the landless and those with land. Where this data exists, comparisons can be made across categories to start to say something about equity. This assessment was not able to collect information on datasets or survey instruments currently held by A4NH projects, as no central repository or database exists.

Related to this available data, research projects evaluating ANH programs might be able to say something about program participation and attrition and how this relates to the access of marginalized groups to projects and services, and further to nutrition and health outcomes, where either process evaluation or disaggregated evaluation data is available.

Another short-term opportunity is to revisit ANH project theories of change with an equity lens. This exercise has already been undertaken in many cases for gender and poverty, but revisiting theories of change to look at equity issues beyond women and the poor would reveal the most relevant equity analyses to be undertaken for a specific project.

Revisiting theories of change at a larger scale, for the overall A4NH model, might be less useful, as the multiple overlapping and intersectional inequities would likely be too complex to provide a useful framework at this level of abstraction. Rather, the list of potential equity issues that emerged in our findings could be provided to projects, and steps in undertaking equity-focused research can be followed (see Key Readings, and the role of the GEE Unit, below).

Finally, building on this review, a larger paper looking at how the different relevant literatures (development studies, health, agriculture, and ANH more specifically) work on equity would be interesting and important in understanding how different literatures approach researching equity, and therefore what different approaches A4NH could take.

Medium-term:

Going beyond existing data, in the medium term, data collection through existing methods (largely surveys) can be adapted with relatively minor changes to allow a focus on equity issues identified as most pertinent to the specific project, within a strategic portfolio of A4NH equity work. In particular, including a key comparator group in surveys for the equity issues of most relevance to the project would allow for comparison of access to ANH services and programs, capabilities of individuals, and nutrition and health outcomes for different groups. While the changes to survey instruments would likely be relatively minor, projects would need to be aware of additional time (and therefore cost) implications of these changes, and explicit hypotheses and sample size calculations undertaken to ensure that analyses were worthwhile.

Related to this approach would be explicit attention to any negative unintended consequences of ANH programs for different groups (such as impacts on time allocation, or food cost), and thinking this through with an equity lens and including appropriate questions and indicators. This might

include cost analyses of programs reaching marginalized groups, to see what it would take to explicitly address inequity in service access in different contexts.

Finally, novel metrics of service access, social relationships and social norms can be integrated into surveys, either at household level or at community level. These could include categories of communities that are influential on outcomes but also condition impact of programs, with contextualized analyses used to create these indicators for different projects.

Long-term:

In the longer term, there is a need for research that aims to understand and explore better the political, social and cultural contexts in which ANH work is undertaken, and so the deeper drivers of inequity and marginalization in agriculture that affect nutrition and health outcomes, including power relations. This kind of work might be qualitative or participatory in nature, including the perspectives of the marginalized themselves. Given the current staffing of flagships, it is likely that partnerships would be needed to bring on methodological and subject expertise (see Capacity, below).

Building on equity data collected by different projects, minimum data requirements or indicators could be combined or collated so that where certain indicators are included for certain groups, these would be available for eventual meta-analysis of equity issues across the A4NH portfolio. Similarly, multi-country analysis on equity issues, to look at similar equity issues across different contexts, would yield larger results than individual projects alone. Finally, including indicators of intersectional inequity, where multiple aspects of marginalization come together, would provide a more realistic picture of the multiple inequities operating in agriculture that impact nutrition and health outcomes.

A4NH capacity and resources needed for equity work

The specific recommendations above speak to research opportunities for individual flagships or projects within A4NH. In our interviews, flagship leaders reported being happy to try to address these recommendations in their work, but reported that constraints needing to be addressed fell under issues of time, people, skills, and money.

- On time, this relates in part to the needs of A4NH vs. the priorities of funders of individual projects (where equity often isn't a priority), and therefore thinking about equity feeling like an additional time burden. It also relates in part of RA time for undertaking these 'additional' analyses, and time for writing equity-focused papers.
- On people, this is both senior researchers and RAs with knowledge and skills relevant to equity research.
- On skills, flagship leaders say they need support in both planning (proposals, survey design) and analysis (if these are the non-standard, non-primary analyses) for equity research.
- On money, the level of resources required will depend on decisions made on the issues above.

These issues are summarized in **Box 5**, and discussed below as relating to human capacity, financial resources, and the overall strategy and organization A4NH relating to equity.

Human capacity

A primary consideration to address people and skills gaps is capacity: In addition to skilled RA time funded in projects, there will be a need for both technical capacity (facilitating understanding of equity issues within flagships, and how these can be approached in research) and strategic capacity (oversight of equity work within A4NH in order to create a coherent body of work overall). Gaining equity capacity can be approached in two ways: Hiring appropriate staff, and contracting or partnering with institutions that already have this expertise. Each of these options will require funds, but in addition are considerations around ability to hire the right people: Background papers to the

A4NH evaluation¹³ cited a continuing lack of social scientists beyond economists in the CGIAR (Rubin, Manfre et al. 2009), and subsequently there may be difficulty creating a critical mass of researchers with mutually supportive research in areas such as equity. Anthropological and sociological expertise was mentioned explicitly in interviews. Potentially, a combination of in-house coordination for strategic issues and partnering on technical issues may work best given the current makeup of A4NH researchers.

In terms of technical research skills, as noted above researching equity is likely to require both quantitative and qualitative research skills if the full range of possible research is to be pursued. In addition, both technical and strategic capacity support require human resources with the appropriate knowledge and skills on equity issues, but also an understanding of agriculture, nutrition and health in order to be relevant to A4NH aims and flagship priorities.

On planning capacity, it was felt by flagship leaders that their flagships don't have the time and often the skillsets to do the strategic thinking around equity issues, so this should be a central A4NH role with more experts brought on board. In terms of strategic capacity, a role or roles would be needed whereby an equity expert could have oversight of the A4NH portfolio, with specific tasks potentially including:

- Creating updated reporting templates so that the GEE Unit is aware of the different equity analyses undertaken.
- Creating guidelines for researching equity in A4NH projects, including clarifying concepts and definitions relevant for A4NH; choosing key indicators or broader research designs; and providing flagships with minimum data requirements when looking at specific equity issues. Broad equity guidelines do exist¹⁴, but could be adapted to an agricultural context.
- Co-writing or screening of proposals for opportunities to integrate equity issues.
- Promoting specific analytical strategies that allow for consistent reporting of equity issues, such as the Reach, Benefit, Empower framework¹.
- Undertaking specific equity research projects to learn about equity issues in ANH research, as the GAAP Project did for gender – though flagship leaders have noted that what they require from A4NH is project-based support, which could be undermined if equity experts were engaged in their own projects.
- Disseminating relevant equity research papers.

¹³ <http://a4nh.cgiar.org/files/2015/01/Background-papers-for-the-A4NH-evaluation.pdf>

¹⁴ Bamberger 2013: <https://www.evalpartners.org/sites/default/files/documents/evalgender/EN-Evaluating-SDG-web.pdf>

Bamberger 2011: https://evalpartners.org/sites/default/files/EWP5_Equity_focused_evaluations.pdf

Box 5: Capacity and resource requirements for A4NH

Human capacity

- Technical capacity including quantitative and qualitative research skills
- Strategic capacity including oversight of the A4NH portfolio with an equity lens
- Planning capacity including guidelines and screening of projects
- Must also be expert in agriculture, nutrition and/or health to be relevant

Financial resources

- Funded analysis time for RAs and students to undertake equity analyses
- Potential for equity grants to flagships for specific analyses
- A well-resourced GEE able to respond to flagship requirements
- Advocacy with other donors for equity assessments to be prioritized

Strategy

- An updated GEE strategy; opinion split on the need to combine gender and equity
- Need for monitoring of equity work, and accountability to the strategy

Organization of the GEE Unit

- Clear positives and challenges from the Gender Unit to be taken forward
- Oriented more to flagship support than to independent equity research
- Incorporating more training and outreach
- Considerations about GEE location and funding structures for collaborations

Financial resources

While no flagship was able to provide a specific amount of funding that would be required to support equity research, the amount depending on what was being asked of them, and what was provided centrally, there were several points that emerged as important to consider:

A major limitation of flagships' ability to undertake equity analyses, particularly of the 'quick wins' type noted above, is lack of funded RA time. Funded time of RAs with the analysis skills and equity knowledge would be welcomed, but links to postgraduate students with equity knowledge looking for datasets to work on for equity-focused research was also suggested. The potential of the GEE in providing small grants to flagships to cover specific equity analyses, as has been the case for gender, was suggested.

The 2015 A4NH external evaluation noted that while funds have been allocated since 2013 to support the implementation of the Gender Strategy, there have been cuts in recent years linked to broader CGIAR processes, and the time of researchers working on gender is financed from a number of sources, including relevant bilateral projects with relevant overlapping objectives. A4NH gender researchers and the Gender Unit have been based at IFPRI. This model has provided a central source of gender capacity for A4NH that is greatly appreciated, but interview respondents noted that if expanding the gender model to equity, expertise might be more easily accessible if equity experts were funded centrally to work on flagship projects rather than on separate equity projects, and if they were not all based at IFPRI.

Finally, it was clear that the more bilateral project funding rather than A4NH 'core' money, the less flagships were in charge of their research agendas and able to bring out themes such as equity. A tension was noted between the requirements of donors for project reporting, and the focus of A4NH

on equity issues. This was identified a possible bottleneck to including equity work in all A4NH research going forward, making it hard to lead the research agenda. It was suggested that A4NH could engage with other donors on equity issues, to encourage them to prioritize equity in their own funding and so remove this tension.

Strategy

Relating to strategy, while gender strategies exist at multiple levels (CGIAR, A4NH, individual centers, and for certain bilateral projects), we are not aware of an equity strategy at any of these levels. It is our recommendation that an equity strategy be created once an A4NH equity strategy hire is in place. In terms of whether an equity strategy would be separate to the gender strategy, it was broadly the view of interview respondents that these should be combined, either building on the gender strategy or revising it so that it better fits with a broader view of equity. Given that the gender strategy was revised so recently, a separate equity strategy could be created that incorporates the gender strategy as it stands, with both being revised together at the next opportune juncture. An important point that was raised in interviews was the monitoring of equity-focused research under A4NH and the related issue of accountability of flagships to an equity strategy, which would need to be reviewed based on existing processes for gender.

Organization of the GEE unit

The former Gender Unit was in general appreciated by interview respondents, and there were some good practices which could be taken forward into the future GEE unit including substantive assistance provided on specific papers; training workshops; and general availability for feedback and guidance on gender issues. There were also some clear challenges which could be addressed in the future GEE Unit, including difficulty engaging with the IFPRI-based team for those housed elsewhere; and tension between the Unit as supporting flagships vs. being a separate research group.

On administrative setup, most felt that if equity capacity was to be provided as a central A4NH resource, integrating it into the GEE Unit was the obvious solution. Changes that different respondents would make to the current functioning of the unit involved orienting it more to flagship support than to independent equity research, with funding perhaps allocated through flagships to fund pieces of equity expert time to encourage this, and experts perhaps more dispersed than at present; including one or more senior equity advisors for strategic oversight; incorporating more training from the Unit to flagships on equity issues; and strengthening collaboration with external experts and organizations on equity research and technical support.

Many different ideas were generated on specific activities that could be undertaken by the GEE Unit in support of equity research within A4NH:

- Individual in-depth technical advice on gender for programmes and projects
- Screening of proposals for equity opportunities
- Development of a platform for flagships to regularly present a research idea or product on GEE
- Development of a set of minimum criteria for GEE inclusion
- Support on viewing theories of change with an equity lens
- A list of GEE experts to consult with/contract
- Equity-ANH methods workshops
- Training young researchers, eg. Gender network.
- Presentations on the equity strategy and tools by GEE staff
- A monthly blog in the style of the Gender Nutrition Information Exchange blog
- Sharing a list of gold standard/seminal papers and tools on the topic; summaries of best practice research.

- Micro-grants from GEE unit to researchers within flagships who want to elaborate on equity work; providing some small seed funds to write papers on equity using existing data sets within A4NH
- Organizing a workshop where A4NH equity papers can be presented to build a cadre of equity researchers (possibly have a gender/equity workshop that brings all these themes together)
- Encouraging A4NH researchers to think out of the box in addressing equity issues

Finally, it is important to note that inequity in a given context makes it less likely that pro-equity policy will be made in that context, given the lack of political and economic voice that the marginalized have (Jones 2009). Donors and researchers can therefore play an external role in national policy processes, avoiding this reflexivity issue in promoting pro-equity policy to respond more strategically to addressing nutrition and health outcomes in agricultural policy processes.

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Annexes

Annex 1 – Full ‘traffic light’ tables on equity work

	Focus of part of work
	Implicit/addressed but not focus
	Not included in work

Phase II Document Review	Gender	Youth	Disability	Income	Ethnicity/Caste	Life-stage/age (not including youth)	Geography	Other marginalised
CRP Phase II Proposal Total 48 mentions of equity	GEE Equity linked to gender = 21 times	Equity linked to youth = 1 - Integrate equity, gender, youth and vulnerability issues Youth is only mentioned alongside equity once – but it is	Equity linked to disability = 0 Disability is only mentioned once – and it is not in relation to equity: - Disability-adjusted life years (DALYs) – referring to zoonotic disease	Equity linked to economic status = 3 - Food is safe equitable for the poor - Gender-equitable control of productive assets - Economic, trade and	No mention of ethnicity/ race/ caste/ tribes in document.	Flagship Program3 will target the young, old, pregnant women, malnourished and immune suppressed that are most at risk of FBD		General ‘equity’ = 23 - Integrate equity, gender, youth and vulnerability issues

		mentioned a further 32 times in this document as an area of importance.		equity impacts - Livelihood, market access and equity outcomes Poverty is mentioned a further 13 times in this document.				
Gender Strategy	Gender equity = 10	Equity linked to youth = 0 Youth is mentioned as a vulnerability but not a source of inequity.	Equity linked to disability = 0 Disability is not mentioned.	Equity linked to income/ opportunities = 2	Equality linked to caste			
CRP Phase II Annexes 49 mentions of equity	Gender equity = 8 mentions (17 mentions in reference to the GEE)	Equity linked to youth = 3 As well as linking youth inequity to other issues such as ethnicity	Equity linked to disability = 0	Equity explicitly linked to socio-economic status = 0 However poverty is discussed 36 times. Income	Equity linked to ethnicity = 1 Ethnicity/caste – mentioned in reference to intersectional inequities including youth	Equity explicitly linked to age = 0 However implicitly it is clear this is an issue that is taken into account.		General equity = 11

				as a comparative issues amongst populations is a clear issue.		Eg, age will be used to define target groups, age-sensitive approaches will be used.		
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	Gender	Youth	Disability	Income	Ethnicity/Caste	Life-stage/age (not including youth)	Geography	Other marginalised
Flagship Programme Interviews								
Flagship Program1	Vulnerable groups – women and children	Involving young researchers in projects in-country. Not a focus of research.		Socio-economic class – low income/ poor resource group	Implicit	NCDs Elderly pop taken into account but not a focus. Women of reproductive age. Children in first 1000 days.	Urban/rural	
Flagship Program2 (doesn't use equity language)	Men/ women		Disabled		Ethnicities	Elderly	Geography	Religion/ Politics/ All marginalised groups

– ‘inclusivity’ instead)								
Flagship Program3	Big focus/ widows/ men/ pregnant women		Disability caused by zoonotic and FBD	Very poor	Tribes/castes	Age		Sex workers/ occupational groups/ any group considered marginalised
Flagship Program4	Gender	Adolescents (esp girls) and young pregnant women.		Data collected				
Flagship Program5	Gender work implicit		Disease/ sequelae	Economically marginalised	Data collected		Geography	Religion/ Neglected populations/ marginalised by the state

Annex 2 – Full list of documents consulted

Internal A4NH Documents

CRP Phase II proposal and all Annexes,

A4NH Annual Performance Monitoring Reports from Phase I 2016, 2015, 2014, 2013, 2012

Plan for Work and Budget for Phase I - 2013, 2014, 2015, 2016

Plan for Work and Budget for Phase II - 2017

The GEE Gender Strategy from 2016

Flagship's impact pathways from MARLO 2017

101 Project document deliverables from Phase I (see below)

505 Peer Reviewed Journal Articles from Phase I (see below)

101 Deliverables from Phase I¹⁵

Flagship Program ¹⁶	Research Cluster	Lead Partner	Project Title	Description of Deliverables	No. of Deliverables	Year Completed	Current Status	Delay?	Year Delayed From	Outcome	Output	Category	Sub-Category	Gender Focus
1	VCN-asse ssme nts	ILRI	Investigation of the relationship between livestock value chains and nutritional status of women and children: a pilot study in Kenya	Final assessment report of nutrition and ASF value chains	1	2016	Completed	Yes	2013	1.1	1.1.1	Publications;#4	Project /Technical Report ;#4	Significant
1	VCN-asse ssme nts	ICRAF	Fruiting Africa, second tranche	Donor report, including fruit tree diversity data of 300 farms, fruit consumption, and	1	2014	Completed	Yes	2013	1.1	1.1.1	Publications;#4	Project /Technical Report ;#4	Some

¹⁵ Flagship 3 has now split into Flagships 3 and 5 for Phase II.

¹⁶ This table shows administrative units from A4NH Phase I (2012-16) – including flagship programs, research clusters, and project titles – that have changed for Phase II.

				fruit availability in Kenya and Mali										
1	VCN-asse ssme nts	ICRAF	Fruiting Africa, second tranche	Report: Value chain analysis for one neglected indigenous fruit species in Kenya	1	2014	Compl eted	No	n/a	1.1	1.1.2	Publica tions;# 29	Miscell aneous - Publica tions ;#29	Signific ant
1	VCN-asse ssme nts	ICRAF	Fruiting Africa, second tranche	Report: New post-harvest and value-adding techniques along the fruit value chain	1	2016	In progre ss (report comple ted and availab le for review)	Yes	2014	1.1	1.1.2			Some
1	VCN-asse ssme nts	ICRAF	Improving fruit production, marketing and consumption for enhanced livelihoods in	MSc thesis: Data on fruit tree diversity on 60	1	2012	Compl eted	No	n/a	1.1	1.1.1	Publica tions;# 29;#Pu blicatio ns;#18	Miscell aneous - Publica tions ;#29;#	Some

			sub-Saharan Africa	farms and fruit consumption by farmers' families in Western Kenya									Conference Proceedings/ Paper; #18	
1	VCN- assessments	ICRAF	Improving fruit production, marketing and consumption for enhanced livelihoods in sub-Saharan Africa	Report: consumption patterns and nutrition indicators of 90 farmer families (mothers and young children) in Western Kenya	1	2013	Completed	Yes	2012	1.1	1.1.1	Publications;# 4	Project /Technical Report ;#4	Some
1	VCN- assessments	ICRAF	Improving fruit production, marketing and consumption for enhanced livelihoods in sub-Saharan Africa	Report: developing a method for vitamin analysis in mango by using infrared	1	2014	Completed	Yes	2012	1.1	1.1.1	Publications;# 4	Project /Technical Report ;#4	None

				spectroscopy (for selection of best varieties and environments)										
1	VCN-assessments	ICRAF	Improving fruit production, marketing and consumption for enhanced livelihoods in sub-Saharan Africa	Report (brief): Market availability and sources of baobab fruits in Eastern and Central Kenya	1	2014	Completed	Yes	2012	1.1	1.1.1	Publications;#4	Project/Technical Report;#4	Some
1	VCN-assessments	ICRAF	Improving fruit production, marketing and consumption for enhanced livelihoods in sub-Saharan Africa	1 summary report on results of 6 workshops performed in ICRAF's 6 regions on strategy development for research	1	2014	Completed	Yes	2012	1.1	1.1.1	Publications;#31	Workshop/Training Report;#31	Some

				on fruits, agroforestry systems, nutrition and health with regions and key partners										
1	VCN-asse ssme nts	ICRAF	Improving fruit production, marketing and consumption for enhanced livelihoods in sub-Saharan Africa	Position paper: Contribution of agroforestry practices, particularly fruit and medicinal tree growing, to health and nutrition	1	2013	Completed	No	n/a	1.1	1.1.1	Publications;#3;#Publications;#2	Brief;#3;#Journal article;#2	Some
1	VCN-asse ssme nts	ICRAF	Improving fruit production, marketing and consumption for enhanced livelihoods in sub-Saharan Africa	Reports: Fruit tree diversity and consumption in humid Cameroon	2	2015	Completed	Yes	2014	1.1	1.1.1	Publications;#4	Project /Technical Report ;#4	Significant

				and Ivory Coast										
1	VCN-asse ssme nts	ICRAF	Improving fruit production, marketing and consumption for enhanced livelihoods in sub-Saharan Africa	Report: Importanc e of the Hmong Apple and its processing for rural livelihoods in Vietnam	1	2015	Compl eted	Yes	2014	1.1	1.1.1	Publica tions;# 4	Project /Techn ical Report ;#4	Some
1	VCN-asse ssme nts	ICRAF	Improving fruit production, marketing and consumption for enhanced livelihoods in sub-Saharan Africa	Maps: Species suitability maps for priority fruit species in Kenya	1	2014	Compl eted	No	n/a	1.1	1.1.1	Knowle dge Produc ts ;#21	Tool;# 21	None
1	VCN-asse ssme nts	ICRAF	Leveraging fruit value chains for sustainable and healthier diets in Kenya and Peru	Report: baseline survey results assessing on-farm fruit tree diversity; fruit production	1	2014	Compl eted	No	n/a	1.1	1.1.1	Publica tions;# 4;#Mul timedi a;#16	Project /Techn ical Report ;#4;#Pr esenta tion;#1 6	Signific ant

				as well as bottleneck s; formal and informal tree fruit value chains, diversity and availability in markets; trends in the patterns and determina nts of fruit consumpti on; and influence of fruit tree diversity and consumpti on on health and nutrition indicators of farmers'												
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				families in Western Kenya										
1	VCN-asse ssme nts	ICRAF	Leveraging fruit value chains for sustainable and healthier diets in Kenya and Peru	Paper: An observatio nal study of fruit and vegetable in the diet of women and children in peri-urban Lima	1	2016	Compl eted	Yes	2013	1.1	1.1.1	Publica tions;# 2	Journal article; #2	Signific ant
2	Biof ortifi catio n-deliv ery	IFPRI-Harves tPlus	Biofortification /HarvestPlus	Final report - sensory evaluation of high iron beans in Rwanda	1	2014	Transfe rred (report comple ted and availab le for review)	Yes	2013	2.3	2.3.1	Publica tions;# 4	Project /Techn ical Report ;#4	Some
2	Biof ortifi catio n-	IITA	Scaling Gender Equitable Impact of Cassava Biofortification	Draft handbook on standard methods	1	2016	Compl eted	No	n/a	2.1	2.1.2			None

	breeding		to Cameroon and Ghana: Phenotyping and gender responsive assessment of cassava varieties for beta carotene, Fe and Zn	and protocols appropriate for Cameroon and Ghana for measuring the Fe, Zn and beta-carotene levels in leaves and roots of cassava										
2	Biofortification-delivery	IFPRI-HarvestPlus	Biofortification /HarvestPlus	Final working paper-consumer acceptance of biofortified organic sweet potato in Uganda	1	2014	Completed	Yes	2013	2.3	2.3.1	Publications;#29	Miscellaneous - Publications;#29	Some
2	Biofortification-	CIP	NQAEN: Nutritional Quality Assurance and	Report and peer-reviewed publication about	1	2016	Completed	No	n/a	2.2	2.2.1	Publications;#2	Journal article; #2	None

	breeding		Enhancement Network	changes in bioavailability of Fe in sweet potato and potato variety mixtures and co-consumption with other crops										
2	Biofortification-breeding	IFPRI-HarvestPlus	Biofortification/HarvestPlus	Final report - LAC Coordination	1	2013	Completed	No	n/a	2.1	2.1.2	Multimedia;#17;#Publications;#31	Websites;#17;#Workshop/Training Report;#31	None
2	Biofortification-breeding	CIP	NQAEN: Nutritional Quality Assurance and Enhancement Network	Reports and peer-reviewed publication : Methods for bioaccessibility of carotenoids and	1	2012	Completed	No	n/a	2.1	2.1.2	Publications;#4	Project/Technical Report;#4	None

				phenolics developed.										
2	Biofortification-breeding	CIP	NQAEN: Nutritional Quality Assurance and Enhancement Network	Training reports about strengthening of platforms for Nutritional Quality Assurance in Root and Tuber Crops in Latin-America, Asia and Africa.	1	2016	Completed	No	n/a	2.1	2.1.1	Publications;#31	Workshop/Training Report ;#31	None
2	Biofortification-nutrition	IFPRI-HarvestPlus	Biofortification /HarvestPlus	Final report - effect of daily consumption of B-carotene biofortified maize on milk retinol	1	2015	Completed	Yes	2014	2.2	2.2.1	Publications;#4	Project /Technical Report ;#4	Significant

				concentrat ion										
2	Biof ortifi catio n- bre eding	IITA	Development and testing of innovations (seed and roots) for improving nutrition	Report on total carotenoid and pVAC content of 3 plantain varieties representi ng the wide variability (French, False Horn and Horn varieties) and optimal moment of sampling during maturation .	1	2014	Compl eted	No	n/a	2.1	2.1.1	Publica tions;# 4	Project /Techn ical Report ;#4	None
2	Biof ortifi catio n- bre eding	IFPRI- Harves tPlus	Biofortification /HarvestPlus	Final report - maize carotenoid retention	1	2013	Compl eted	No	n/a	2.1	2.1.1	Publica tions;# 2	Journal article; #2	None

2	Biofortification-breeding	CIP	NQAEN: Nutritional Quality Assurance and Enhancement Network	Training reports about strengthening of platforms for Nutritional Quality Assurance in Root and Tuber Crops in Latin-America, Asia and Africa.	2	2014	Completed	No	n/a	2.1	2.1.1	Publications;#31	Workshop/Training Report;#31	None
2	Biofortification-breeding	CIP	NQAEN: Nutritional Quality Assurance and Enhancement Network	Manuals and training reports about sample preparation and micronutrient analysis as initiation of platforms	1	2012	Completed	No	n/a	2.1	2.1.2	Knowledge Products;#13;#Publications;#31	Handbook/Manual/Guide;#13;#Workshop/Training Report;#31	None

				for Nutritional Quality Assurance in Root and Tuber Crops in Latin- America, Asia and Africa.										
2	Biof ortifi catio n- bre eding	IFPRI- Harves tPlus	Biofortification /HarvestPlus	Final report - high zinc wheat crop developme nt	1	2016	Compl eted	No	n/a	2.1	2.1.1	Knowle dge Produc ts;#8	Breedi ng progre ss;#8	Some
2	Biof ortifi catio n- deliv ery	IFPRI- Harves tPlus	Biofortification /HarvestPlus	Progress report - developme nt of biofortified food products	1	2014	Compl eted	No	n/a	2.3	2.3.2	Publica tions;# 4	Project /Techn ical Report ;#4	None
2	Biof ortifi catio n- deliv ery	CIP	Rwanda Super Foods	Report on consumer acceptanc e submitted	1	2012	Compl eted	No	n/a	2.3	2.3.2	Publica tions;# 4	Project /Techn ical Report ;#4	None

				to major donor										
3		ILRI	Emerging Infectious Disease - Project Funds	Paper on differences between satellite and observed climate data in RVF prediction (lead author: David Gikungu)	1	2016	Completed	No	n/a			Publications;# 2	Journal article; #2	None
3	AAD-disease risks	ILRI	Neglected Zoonoses - Project Funds	A report on NTDs post the WHO Strategic Advisory Conference	1	2015	Completed	No	n/a	3.3	3.3.2	Publications;# 4	Project/Technical Report ;#4	Some
3	AAD-disease risks	ILRI	Pathogen Detection Platform	Short-term trainings (pathogen detection platform) for field	10	2013	Completed	No	n/a	3.2	3.2.2	Publications;# 31	Workshop/Training Report ;#31	None

				staff, collaborators, and regional scientists										
3	AAD-disease risks	ILRI	Neglected Zoonoses - Project Funds	One Health workshop report	1	2015	Completed	No	n/a	3.3	3.3.2	Publications;#31	Workshop/Training Report ;#31	Some
3	AAD-food safety, peris hables	IFPRI-DSGD	Research and capacity strengthening on food and nutrition security, and value chains from nutrition and food safety perspectives in Central Asia	Identification and assessment of potential for a greater role for third party certification of compliance with food safety and sanitation practices and milk quality	1	2016	Completed	Yes	2014	3.3	3.3.1	Publications;#29	Miscellaneous - Publications ;#29	Some

3	AAD- food safet y, aflat oxins	IITA	Mycotoxin contamination in Rwanda: quantifying the problem in maize and cassava in households and markets, and sensitization of targeted stakeholders based on a cost-benefit analysis	Results from cost- benefit analysis to identify interventio n methods (e.g., biocontrol, drying, storage and low- cost diagnostics) with the best returns in reducing the levels of aflatoxins in the value chains of maize and cassava in Rwanda presented at stakeholde r workshop	1	2016	Compl eted	Yes	2014	3.2	3.2.2	Publica tions;# 4	Project /Techn ical Report ;#4	None
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3	AAD-dise ase risks	ILRI	CowKiller: What is killing my cow? Re-assessing diseases in smallholder dairy in Tanzania	MSc intern report and theses on Q fever, including observations from Kenya	1	2016	Completed	Yes	2013	3.2	3.2.1	Publications;#29	Miscellaneous - Publications ;#29	Some
3	AAD-food safet y, aflat oxins	ILRI	CAAREA: BecA Capacity and action for aflatoxin reduction in East Africa	Mycotoxin and wider nutritional analysis platform established	1	2015	Completed	No	n/a	3.1	3.1.1	Knowledge Products;#27	Miscellaneous - Knowledge Products;#27	None
3	AAD-dise ase risks	ILRI	Healthy Futures	MsC thesis on vulnerability to RVF in Garissa, Kenya	1	2014	Completed	No	n/a			Publications;#29	Miscellaneous - Publications ;#29	Some
3	AAD-food safet y, aflat oxins	ILRI	My Dairy: Improving food security in West and East Africa through capacity building in research and information	Publication in AJFAND based on map for aflatoxin risk factors in Kenya (based on 2014 maps)	1	2016	Completed	Yes	2015	3.1	3.1.1	Publications;#2	Journal article; #2	None

			dissemination (FoodAfrica)											
3	AAD- food safet y, aflat oxins	ILRI	My Dairy: Improving food security in West and East Africa through capacity building in research and information dissemination (FoodAfrica)	Review paper on biocontrol of aflatoxins	1	2016	Compl eted	Yes	2015	3.1	3.1.1	Publica tions;# 2	Journal article; #2	Some
3	AAD- food safet y, aflat oxins	ILRI	Aflatoxin coordination across the CGIAR	Reports on CGIAR aflatoxin stakeholde r meetings	1	2014	Compl eted	No	n/a	3.3	3.3.2	Publica tions;# 31	Works hop/Tr aining Report ;#31	None
3	AAD- dise ase risks	ILRI	EcoZD: Ecosystem approaches to the better management of zoonotic emerging infectious	PhD thesis (Suwit Chotinum)	1	2015	Compl eted	No	n/a	3.2	3.2.2	Publica tions;# 29	Miscell aneous - Publica tions ;#29	Some

			diseases in Southeast Asia											
3	AAD-diseases risks	ILRI	LTS-EA: Developing livestock traceability system for domestic and export market in pastoral areas of East Africa	On-line database for capturing animal movements along marketing chains	1	2015	Completed	No	n/a	3.3	3.3.1	Knowledge Products;#27	Miscellaneous - Knowledge Products;#27	None
3	AAD-food safety, aflatoxins	ILRI	Food Safety - Project Funds	Chapter on aflatoxins	1	2016	Completed	No	n/a	3.3	3.3.1	Publications;#1	Book;#1	None
4	IPP-nutrition-sensitive development	IFPRI-PHND	POSHAN: Partnerships and opportunities for strengthening harmonizing actions for nutrition in India	Finalized protocols of research studies to be rolled-out. Multiple reports on study results on key thematic	4	2013	Completed	No	n/a	4.3	4.3.1	Publications;#4	Project/Technical Report ;#4	None

				areas (intersectoral convergence, delivering direct interventions, strengthening data systems) (journal manuscripts, policy notes, working papers)										
4	IPP-nutrition-sensitive development	IFPRI-PHND	SPRING: Strengthening partnerships, results, and innovations in nutrition globally	Paper describing fortification current status of 3 key staple foods in each country (BD, NG, UG)	1	2014	Completed	No	n/a	4.3	4.3.1	Publications;# 2	Journal article; #2	None

4	IPP-cross - sectoral policies	Bioversity International	IFAD-A4NH Partnership in Nutrition-Sensitive Agriculture and Rural Development - II	Outreach through participation in Rome-based agencies' working group on Sustainable Value Chains for Nutrition	1	2016	Completed	No	n/a	4.3	4.3.1			None
4	IPP-cross - sectoral policies	IFPRI-PHND	LANSA: Leveraging Agriculture for Nutrition in South Asia	Kadiyala, S, Harris, J., Headey, D., Yosef, S. and Gillespie, S (2014) Agriculture and Nutrition in India: Mapping Evidence to Pathways. New York Annals of Science	1	2014	Completed	No	n/a	4.2	4.2.2	Publications;# 2	Journal article; #2	Significant

				(forthcoming)										
4	IPP-nutrition-sensitive development	IFPRI-PHND	SPRING: Strengthening partnerships, results, and innovations in nutrition globally	Both reports completed and presented at the capacity building Anemia PAG in Kampala	1	2013	Completed	No	n/a	4.3	4.3.1	Multimedia;#16;#Publications;#4	Presentation; #16;#Project/Technical Report;#4	Significant
4	IPP-cross-sectoral policies	IFPRI-PHND	LANSA: Leveraging Agriculture for Nutrition in South Asia	The Other Asian Enigma: Explaining the rapid reduction of malnutrition in Bangladesh - published as IFPRI Discussion Paper	1	2014	Completed	Yes	2013	4.2	4.2.1	Publications;#29	Miscellaneous - Publications;#29	Some

4	IPP-nutrition-sensitive development	IFPRI-PHND	A&T: Alive & Thrive Phase 1 and 2	Manuscripts on stunting or other issues	4	2016	Completed	No	n/a	4.1	4.1.1	Publications;#2	Journal article; #2	Some
4	IPP-cross-sectoral policies	IFPRI-PHND	LANSA: Leveraging Agriculture for Nutrition in South Asia	Responsive window "call for proposals" opened to fund policy-relevant research that identifies options for promoting an enabling policy and institutional landscape for nutrition-sensitive agriculture	1	2014	Completed	No	n/a	4.2	4.2.1	Publications;#19	Concept Note/Proposal;#19	Some

				in South Asia. (Results from funded studies to be expected starting in 2016-17).										
4	IPP-cross - sectoral policies	Bioversity International	Advancing through Sustainable Diets	Methodology to select indicators for measuring sustainable diets developed	1	2013	Completed	No	n/a	4.1	4.1.1	Publications;# 4	Project /Technical Report ;#4	Some
4	IPP-nutrition-sensitive agriculture	CIP	Mama SASHA under SASHA project	Report on cost-effectiveness of linking orange-fleshed sweet potato to ante-natal care services	1	2014	Completed	No	n/a	4.1	4.1.1	Publications;# 10	Evaluations and Impact Assessment;# 10	Some

				for pregnant women										
4	IPP-nutrition-sensitive development	IFPRI-PHND	POSHAN: Partnerships and opportunities for strengthening harmonizing actions for nutrition in India	A review of knowledge systems and networks relating to nutrition in India	1	2012	Completed	No	n/a	4.3	4.3.1	Publications;# 3	Brief;# 3	None
4	IPP-cross-sectoral policies	Bioversity International	BFN: Mainstreaming biodiversity conservation and sustainable use for improved human nutrition and well-being - Biodiversity for Food and Nutrition Project	One peer reviewed publication describing the enabling environment, including knowledge base, for mainstreaming biodiversity for improved	1	2016	Completed	No	n/a	4.2	4.2.2	Publications;# 2	Journal article; #2	Some

				nutrition and sustainable, healthy food systems										
4	IPP-cross - sectoral policies	IFPRI-PHND	INDDEx: International Dietary Data Expansion Project	1 country-specific report (based on existing Household Consumption and Expenditures Survey data) on key methodological issues-specific topics to be selected from those proposed	1	2016	Completed	No	n/a	4.1	4.1.1	Publications;# 29	Miscellaneous - Publications ;#29	None
4	IPP-cross - sector	Bioversity International	Advancing through Sustainable Diets	Manuscripts for peer review publication	3	2014	Completed	No	n/a	4.2	4.2.2	Publications;# 2	Journal article; #2	None

	oral policies			submitted. One on the proposed framework to derive the suite of indicators and/or the composite index to measure sustainable diets, one paper on the process, results and outcomes of the Delphi method and one paper										
CC	IPP-nutrition-sensitive agric	IFPRI-PHND	GAAP2: Gender, Agriculture, and Assets Project, Phase 2	Draft pro-WEAI survey instrument and develop new	1	2016	Completed	No	n/a	5.2	5.2.1	Data;#6	Questionnaire/Interview Guide; #6	Significant

	ulture			modules based on experience with WEAI and input from staff and partners of at least 12 development projects										
CC		IFPRI-PHND	Gender Strategy: Implementation of the Gender Strategy within A4NH	Report: Reports on capacity building activities related to gender research and analysis in other CRPs that collaborate closely with A4NH. Reports will include: 1) a	2	2014	Completed	No	n/a	5.1		Publications;#31	Workshop/Training Report ;#31	Significant

				workshop summary and 2) results from the post-workshop assessment. (Total reports = 2)										
CC		IFPRI-PHND	Gender Strategy: Implementation of the Gender Strategy within A4NH	Report: Reports on capacity building activities related to gender research and analysis in other CRPs that collaborate closely with A4NH. Reports will include: 1) a	2	2016	Completed	No	n/a	5.2	5.2.2	Publications;#31	Workshop/Training Report ;#31	Significant

				workshop summary and 2) results from the post-workshop assessment. (Total reports = 2 annually)										
CC		IFPRI-PHND	Gender Strategy: Implementation of the Gender Strategy within A4NH	Commissioned research paper in "frontier" areas and/or case studies. Research will be jointly undertaken by Hitomi Komatsu (lead author) and Hazel Malapit.	1	2015	Completed	No	n/a	5.1		Publications;#29	Miscellaneous - Publications;#29	Significant

				Cross-country papers on women's time use and nutrition using WEAI data.										
CC		IFPRI-PHND	Gender Strategy: Implementation of the Gender Strategy within A4NH	Papers: Literature reviews on gender and selected impact pathways. Priority topics include: (1) biofortification, (2) food safety and aflatoxins, and (3) other topics TBD. (Total reviews=2)	1	2015	Completed	Yes	2014	5.1		Publications;#29	Miscellaneous - Publications;#29	Significant

CC		IFPRI-PHND	Gender Strategy: Implementation of the Gender Strategy within A4NH	Strategic research paper in "frontier" areas and/or case studies, conducted by Hazel Malapit and Agnes Quisumbing: "Women's empowerment mitigates the negative effects of low production diversity on maternal and child nutrition in Nepal "	1	2015	Completed	No	n/a	5.1		Publications;# 2	Journal article; #2	Significant
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CC		IFPRI-PHND	Gender Strategy: Implementation of the Gender Strategy within A4NH	Commissioned research papers in "frontier" areas and/or case studies: paper by Amber Peterman et al: "Measuring women's decision making: Indicator choice and survey design experiments from transfer evaluations in Ecuador, Uganda and Yemen"	1	2015	Completed	Yes	2014	5.1		Publications;# 18	Conference Proceedings/ Paper; #18	Significant
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CC		IFPRI-PHND	IFAD-A4NH Partnership in Nutrition-Sensitive Agriculture and Rural Development	Technical assistance to projects and country strategies: Madagascar Country Strategy (COSOP) submitted to the Executive Board (2014) and IFAD-India project design report for integrating nutrition into project activities (2014)	2	2014	Completed	No	n/a			Publications;#4	Project/Technical Report;#4	None
CC		IFPRI-PHND	HCES: Using HCES data to measure and track IDO indicators	Prepare paper on recall period for UN Statistical	1	2015	Completed	No	n/a			Multimedia;#16;#Publications;#4	Presentation;#16;#Project/Technical	Some

				Commission Meeting									Report ;#4	
CC		IFPRI-PHND	Gender Strategy: Implementation of the Gender Strategy within A4NH	Short-term training: gender training event to build capacity for gender research and analysis in other CRPs that collaborate closely with A4NH. Training will be designed to respond to the capacity building needs identified in the "Inventory	28	2013	Completed	No	n/a	5.1		Publications;# 31	Workshop/Training Report ;#31	Significant

				of Gender Research in A4NH".										
CC		IFPRI-PHND	IFAD-A4NH Partnership in Nutrition-Sensitive Agriculture and Rural Development	Briefing on Nutrition at IFAD for IFAD10 Replenishment Committee	1	2014	Completed	No	n/a			Multimedia;#16	Presentation; #16	None
CC		IFPRI-PHND	IFAD-A4NH Partnership in Nutrition-Sensitive Agriculture and Rural Development	Training workshop on Design of Nutrition-Sensitive Agriculture Projects (training materials and report prepared) with IFAD nutrition team and FAO /Investment Center	1	2014	Completed	No	n/a			Publications;#31	Workshop/Training Report ;#31	None

CC		IFPRI-PHND	HCES: Using HCES data to measure and track IDO indicators	Final report describing nutrition status and nutrition programs in Bangladesh including (1) Analysis of the adequacy of energy, vitamin A, iron and zinc intakes. (2) Assessment of dietary diversity. (3) Identification of key food sources of energy, vitamin A, iron and zinc. All	1	2016	Completed	Yes	2015			Publications;# 2	Journal article; #2	Some
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				analyses done at national, regional, urban-rural and by gender - analysis based on Bangladesh HCES										
CC		IFPRI-PHND	HCES: Using HCES data to measure and track IDO indicators	Final report describing ex ante analysis of a mola (small indigenous fish) promotion project to improve vitamin A intakes - analysis based on HCES modeling of production	1	2016	Completed	Yes	2015					Some

				and consumption, including women and children's nutrient adequacy, dietary diversity, and vitamin A attributable burden of disease estimates										
CC		IFPRI-PHND	Gender Strategy: Implementation of the Gender Strategy within A4NH	Gender-Nutrition Idea Exchange monthly blog posts providing resources and advice on addressing gender in agriculture , nutrition,	12	2016	Completed	No	n/a	5.2	5.2.2	Multimedia;#17	Websites;#17	Significant

				and health programs. (Total blog posts = 12 max per year)										
CC		IFPRI-PHND	IFAD-A4NH Partnership in Nutrition-Sensitive Agriculture and Rural Development	Technical assistance on working multisectorally / policy engagement in Laos [2014: 3 reports (overview of progress on working multisectorally, improving cross-sectoral coordination, capacity needs and TA for National Nutrition	3	2014	Completed	No	n/a			Publications;#31;#Publications;#4	Workshop/Training Report ;#31;# Project /Technical Report ;#4	None

				Secretariat); 2015 activities are to be determine d, but will include ongoing technical advisory support and case studies of lessons learned (at least 1)].										
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505 Peer Reviewed Journal Articles from ISI journals reported to CGIAR in Phase I

Flagship Program	PUBLICATION DATE	CENTER	FULL CITATION
1	2014	WORLD FISH	Belton, B., I. J. Mariana van Asseldonk, and S. H. Thilsted. 2014. "Faltering Fisheries and Ascendant Aquaculture: Implications for Food and Nutrition Security in Bangladesh." <i>Food Policy</i> 44 (February): 77–87.
1	2015	MTID	Birthal, P. S., D. Roy, and D. S. Negi. 2015. "Assessing the Impact of Crop Diversification on Farm Poverty in India." <i>World Development</i> 72: 70–92.
1	2014	Bioversity	Boedecker, J., C. Termote, A. E. Assogbadjo, P. Van Damme, and C. Lachat. 2014. "Dietary Contribution of Wild Edible Plants to Women's Diets in the Buffer Zone around the Lama Forest, Benin – an Underutilized Potential." <i>Food Security</i> 6 (6): 833–49.
1	2015	WORLD FISH	Bogard, J. R., S. H. Thilsted, G. C. Marks, M. Abdul Wahab, A.R. Hossain, and Jette Jakobsen. 2015. "Nutrient Composition of Important Fish Species in Bangladesh and Potential Contribution to Recommended Nutrient Intakes." <i>Journal of Food Composition and Analysis</i> 42 (April): 120–33.
1	2015	HP/MTID	de Brauw, A. "Gender, Control, and Crop Choice in Northern Mozambique." <i>Agricultural Economics</i> 46 (3): 435–448.
1	2015	MTID	de Brauw, A., and M. H. Suryanarayana. 2015. "Linkages between Poverty, Food Security and Undernutrition: Evidence from China and India." <i>China Agricultural Economic Review</i> 7 (4): 655–67.
1	2014	MTID	de Brauw, A., and P. Eozenou. 2014. "Measuring Risk Attitudes among Mozambican Farmers." <i>Journal of Development Economics</i> 111 (November): 61–74.
1	2013	Bioversity	Delisle, H., G. Ntandou, R. Sodjinou, C. Couillard, and J. Després. 2013. "At-Risk Serum Cholesterol Profile at Both Ends of the Nutrition Spectrum in West African Adults? The Benin Study." <i>Nutrients</i> 5 (4): 1366–83.
1	2012	Bioversity	Delisle, H., G. Ntandou-Bouzitou, V. Agueh, R. Sodjinou, and B. Fayomi. 2012. "Urbanisation, Nutrition Transition and Cardiometabolic Risk: The Benin Study." <i>British Journal of Nutrition</i> 107 (10): 1534–44.
1	2014	NDO/PMU	Dubé, L., S. Jha, A. Faber, J. Struben, T. London, A. Mohapatra, N. Drager, C. Lannon, P. K. Joshi, and J. McDermott. 2014. "Convergent Innovation for Sustainable Economic Growth and Affordable Universal Health Care: Innovating the Way We Innovate." <i>Annals of the New York Academy of Sciences</i> 1331 (December): 119–41.
1	2012	MTID	Iannotti, L. L., M. Robles, H. Pachon, and C. Chiarella. 2012. "Food Prices and Poverty Negatively Affect Micronutrient Intakes in Guatemala." <i>Journal of Nutrition</i> 142 (8): 1568–76.
1	2014	NDO/PMU	Jha, S. K., J. McDermott, G. Bacon, C. Lannon, P. K. Joshi, and L. Dubé. 2014. "Convergent Innovation for Affordable Nutrition, Health, and Health Care: The Global Pulse Roadmap." <i>Annals of the New York Academy of Sciences</i> 1331 (December): 142–56.
1	2015	ICRAF	Joshi, N., M. Siwakoti, and K. Kehlenbeck. 2015. "Wild Vegetable Species in Makawanpur District, Central Nepal: Developing a Priority Setting Approach for Domestication to Improve Food Security." <i>Economic Botany</i> 69 (2): 161–70.

1	2013	Bioversity	Kahane, R., T. Hodgkin, H. Jaenicke, C. Hoogendoorn, M. Hermann, J. D. H. (Dyno) Keatinge, J. d'Arros Hughes, S. Padulosi, and N. Looney. 2013. "Agrobiodiversity for Food Security, Health and Income." <i>Agronomy for Sustainable Development</i> 33 (4): 671–93.
1	2013	Bioversity	Keding, G. B., K. Schneider, and I. Jordan. 2013. "Production and Processing of Foods as Core Aspects of Nutrition-Sensitive Agriculture and Sustainable Diets." <i>Food Security</i> 5 (6): 825–46.
1	2015	MTID	Mu, R. and A. de Brauw. 2015. "Migration and Young Child Nutrition: Evidence from Rural China." <i>Journal of Population Economics</i> 28 (3): 631–57.
1	2015	Bioversity/ICRAF	Ng'endo, Mary, Gudrun B. Keding, Shonil Bhagwat, and Katja Kehlenbeck. 2015. "Variability of On-Farm Food Plant Diversity and Its Contribution to Food Security: A Case Study of Smallholder Farming Households in Western Kenya." <i>Agroecology and Sustainable Food Systems</i> 39 (10): 1071-1103.
1	2015	Bioversity	Padulosi, S., B. Mal, O. I. King, and E. Gotor. 2015. "Minor Millets as a Central Element for Sustainably Enhanced Incomes, Empowerment, and Nutrition in Rural India." <i>Sustainability</i> 7 (7): 8904-8933.
1	2015	Bioversity	Powell, B., S. H. Thilsted, A. Ickowitz, C. Termote, T. Sunderland, and A. Herforth. 2015. "Improving Diets with Wild and Cultivated Biodiversity from across the Landscape." <i>Food Security</i> 7 (3): 535–54.
1	2015	Bioversity	Remans, R., F. A. J. DeClerck, G. Kennedy, and J. Fanzo. 2015. "Expanding the View on the Production and Dietary Diversity Link: Scale, Function, and Change over Time." <i>Proceedings of the National Academy of Sciences</i> 112 (45): E6082–E6082.
1	2013	ICRAF	Sennhenn, A., K. Prinz, J. Gebauer, A. Whitbread, R. Jamnadass, and K. Kehlenbeck. 2013. "Identification of Mango (<i>Mangifera Indica</i> L.) Landraces from Eastern and Central Kenya Using a Morphological and Molecular Approach." <i>Genetic Resources and Crop Evolution</i> 61 (1): 7–22.
1	2014	Bioversity	Termote, C., J. Raneri, A. Deptford, and B. Cogill. 2014. "Assessing the Potential of Wild Foods to Reduce the Cost of a Nutritionally Adequate Diet: An Example from Eastern Baringo District, Kenya." <i>Food & Nutrition Bulletin</i> 35 (4): 458–79.
1	2015	Bioversity	Waswa, L. M., I. Jordan, J. Herrmann, M. B. Krawinkel, and G. B. Keding. 2015. "Community-Based Educational Intervention Improved the Diversity of Complementary Diets in Western Kenya: Results From a Randomized Controlled Trial." <i>Public Health Nutrition</i> 18(18): 3406-3419.
1	2014	ICRAF	Wiehle, M., K. Prinz, K. Kehlenbeck, S. Goenster, S. A. Mohamed, A. Buerkert, and J. Gebauer. 2014. "The Role of Homegardens and Forest Ecosystems for Domestication and Conservation of <i>Ziziphus Spina-Christi</i> (L.) Willd. in the Nuba Mountains, Sudan." <i>Genetic Resources and Crop Evolution</i> 61 (8): 1491–1506.
1	2014	ICRAF	Wiehle, M., K. Prinz, K. Kehlenbeck, S. Goenster, S. A. Mohamed, R. Finkeldey, A. Buerkert, and J. Gebauer. 2014. "The African Baobab (<i>Adansonia Digitata</i> , Malvaceae): Genetic Resources in Neglected Populations of the Nuba Mountains, Sudan." <i>American Journal of Botany</i> 101 (9): 1498–1507.

1	2014	ICRAF	Wiehle, M., S. Goenster, J. Gebauer, S. A. Mohamed, A. Buerkert, and K. Kehlenbeck. 2014. "Effects of Transformation Processes on Plant Species Richness and Diversity in Homegardens of the Nuba Mountains, Sudan." <i>Agroforestry Systems</i> 88 (3): 539–62.
1	2016	IITA	Alamu, E. O., B. Maziya-Dixon, R. Ferede-Menkir, I. Popoola, R. Asiedu, and T. Gondwe. 2016. "Characterization and Classification of the Provitamin A Carotenoids of Deep Yellow-Fleshed Bitter Yam (<i>Dioscorea Dumetorum</i>) Varieties." <i>Journal of Food and Nutrition Research</i> 4 (10): 640–45. doi:10.12691/jfnr-4-10-2.
1	2016	IITA	Alamu, E. O., B. Maziya-Dixon, I. Popoola, T. Gondwe, and D. Chikoye. 2016. "Nutritional Evaluation and Consumer Preference of Legume Fortified Maize-Meal Porridge." <i>Journal of Food and Nutrition Research</i> 4 (10): 664–70. doi:10.12691/jfnr-4-10-6.
1	2016	Bioversity	Allen, T., and P. Prosperi. 2016. "Modeling Sustainable Food Systems." <i>Environmental Management</i> 57 (5): 956–75. doi:10.1007/s00267-016-0664-8.
1	2016	IITA	Awoyale, W., B. Maziya-Dixon, O. E. Alamu, and A. Menkir. 2016. "Effect of Packaging Materials and Storage Conditions on the Degradation of Xanthophylls in Yellow-Maize Ogi Powder." <i>Journal of Food and Nutrition Research</i> 4 (8): 522–27. doi:10.12691/JFNR-4-8-6.
1	2016	IITA	Awoyale, W., B. Maziya-Dixon, and A. Menkir. 2016. "Retention of Pro-Vitamin A Carotenoids in Ogi Powder as Affected by Packaging Materials and Storage Conditions." <i>Journal of Food and Nutrition Research</i> 4 (2): 88–93. doi:10.12691/JFNR-4-2-4.
1	2016	Bioversity	Bellon, M. R., Gervais D. Ntandou-Bouzitou, F. Caracciolo, G. Kennedy, A. J. Wyatt, and M. Banziger. 2016. "On-Farm Diversity and Market Participation Are Positively Associated with Dietary Diversity of Rural Mothers in Southern Benin, West Africa." Edited by Jacobus van Wouwe. <i>PLOS ONE</i> 11 (9). IFPRI: e0162535. doi:10.1371/journal.pone.0162535.
1	2016	Bioversity	Biehl, E., R. D. W. Klemm, S. Manohar, P. Webb, D. Gauchan, and K. P. West Jr. 2016. "What Does It Cost to Improve Household Diets in Nepal? Using the Cost of the Diet Method to Model Lowest Cost Dietary Changes." <i>Food and Nutrition Bulletin</i> 37 (3): 247–60. doi:10.1177/0379572116657267.
1	2016	IFPRI-PHND	Fernandes, M., R. Galloway, A. Gelli, D. Mumuni, S. Hamdani, J. Kiamba, K. Quarshie, et al. 2016. "Enhancing Linkages Between Healthy Diets, Local Agriculture, and Sustainable Food Systems: The School Meals Planner Package in Ghana." <i>Food and Nutrition Bulletin</i> 37 (4): 571–84. doi:10.1177/0379572116659156.
1	2016	Bioversity	Flavien, N. B., W. Vanhove, C. Termote, and P. Van Damme. 2016. "Importance of Traditional Protected Areas for the Collection of Medicinal Plants, Kongo-Central (DRC)." <i>African Journal of Ecology</i> 54 (4): 479–87. doi:10.1111/aje.12307.
1	2016	IFPRI-PHND	Gelli, A., E. Masset, G. Folson, A. Kusi, D. K. Arhinful, F. Asante, I. Ayi, et al. 2016. "Evaluation of Alternative School Feeding Models on Nutrition, Education, Agriculture and Other Social Outcomes in Ghana: Rationale, Randomised Design and Baseline Data." <i>Trials</i> 17 (1): 37. doi:10.1186/s13063-015-1116-0.
1	2016	IITA	Manda, J., C. Gardebroek, M. G. Khonje, A. D. Alene, M. Mutenje, and M. Kassie. 2016. "Determinants of Child Nutritional Status in the Eastern Province of Zambia: The Role of Improved Maize Varieties." <i>Food Security</i> 8 (1): 239–53. doi:10.1007/s12571-015-0541-y.

1	2016	Biodiversity	Ng'endo, M., S. Bhagwat, and G. B. Keding. 2016. "Influence of Seasonal On-Farm Diversity on Dietary Diversity: A Case Study of Smallholder Farming Households in Western Kenya." <i>Ecology of Food and Nutrition</i> 55 (5): 403–27. doi:10.1080/03670244.2016.1200037.
1	2016	Biodiversity	Pawera, L., V. Verner, C. Termote, I. Sodobekov, A. Kandakov, N. Karabaev, and Z. Polesny. 2016. "Medical Ethnobotany of Herbal Practitioners in the Turkestan Range, Southwestern Kyrgyzstan." <i>Acta Societatis Botanicorum Poloniae</i> 85 (1). doi:https://dx.doi.org/10.5586/asbp.3483.
1	2016	Biodiversity	Penafiel, D., C. Termote, C. Lachat, R. Espinel, P. Kolsteren, and P. Van Damme. 2016. "Barriers to Eating Traditional Foods Vary by Age Group in Ecuador With Biodiversity Loss as a Key Issue." <i>Journal of Nutrition Education and Behavior</i> 48 (4): 258–268.e1. doi:10.1016/j.jneb.2015.12.003.
1	2016	IFPRI-MTID	Saak, A. E. 2016. "Optimal Provision of Information about Consumption Choices in the Presence of a Cognitive Constraint." <i>Economics Letters</i> 145 (August): 25–28. doi:10.1016/j.econlet.2016.05.010.
2	2014	HP	Aciksoz, S. B., L. Ozturk, A. Yazici, and I. Cakmak. 2014. "Inclusion of Urea in a 59FeEDTA Solution Stimulated Leaf Penetration and Translocation of 59Fe within Wheat Plants." <i>Physiologia Plantarum</i> 151 (3): 348–57.
2	2015	HP	Ajiboye, B., I. Cakmak, D. Paterson, M. D. de Jonge, D. L. Howard, S. P. Stacey, A. A. Torun, N. Aydin, and M. J. McLaughlin. 2015. "X-Ray Fluorescence Microscopy of Zinc Localization in Wheat Grains Biofortified through Foliar Zinc Applications at Different Growth Stages under Field Conditions." <i>Plant and Soil</i> 392 (1-2): 357–70.
2	2015	CIP	Andre, C. M., D. Evers, J. Ziebel, C. Guignard, J.-F. Hausman, M. Bonierbale, T. zum Felde, and G. Burgos. 2015. "In Vitro Bioaccessibility and Bioavailability of Iron from Potatoes with Varying Vitamin C, Carotenoid, and Phenolic Concentrations." <i>Journal of Agricultural and Food Chemistry</i> 63 (41): 9012–21.
2	2013	HP	Armah, S. M., A. Carriquiry, D. Sullivan, J. D. Cook, and M. B. Reddy. 2013. "A Complete Diet-Based Algorithm for Predicting Nonheme Iron Absorption in Adults." <i>The Journal of Nutrition</i> 143 (7): 1136–40.
2	2012	HP	Armah, S. M., A. Carriquiry, J. D. Cook, and M. B. Reddy. 2012. "A Complete Meal Based Algorithm for Predicting Nonheme Iron Absorption." <i>FASEB J</i> 26 (1_MeetingAbstracts): 365.7 – .
2	2015	HP	Armah, S. M., E. Boy, D. Chen, and P. Candal. 2015. "Regular Consumption of a High-Phytate Diet Reduces the Inhibitory Effect of Phytate on Nonheme-Iron Absorption in Women with Suboptimal Iron Stores." <i>The Journal of Nutrition</i> 145 (8): 1735-1739.
2	2013	HP	Arsenault, J. E., E. A. Yakes, M. M. Islam, M. B. Hossain, T. Ahmed, C. Hotz, B. Lewis, A. S. Rahman, K. M. Jamil, and K. H. Brown. 2013. "Very Low Adequacy of Micronutrient Intakes by Young Children and Women in Rural Bangladesh Is Primarily Explained by Low Food Intake and Limited Diversity." <i>The Journal of Nutrition</i> 143 (2): 197–203.
2	2013	HP	Babu, R., N. P. Rojas, S. Gao, J. Yan, and K. Pixley. 2013. "Validation of the Effects of Molecular Marker Polymorphisms in LcyE and CrtRB1 on Provitamin A Concentrations for 26 Tropical Maize Populations." <i>TAG. Theoretical and Applied Genetics. Theoretische Und Angewandte Genetik</i> 126 (2): 389–99.
2	2013	HP	Blair, M. W. 2013. "Mineral Biofortification Strategies for Food Staples: The Example of Common Bean." <i>Journal of Agricultural and Food Chemistry</i> 61 (35): 8287–94.

2	2015	HP	Bechoff, A., U. Chijioke, K. I. Tomlins, P. Govinden, P. Ilona, A. Westby, and E. Boy. 2015. "Carotenoid Stability during Storage of Yellow Gari Made from Biofortified Cassava or with Palm Oil." <i>Journal of Food Composition and Analysis</i> 44: 36–44.
2	2015	HP	Berni, P., C. Chitchumroonchokchai, S. G. Canniatti-Brazaca, F. F. De Moura, and M. L. Failla. 2015. "Comparison of Content and In Vitro Bioaccessibility of Provitamin A Carotenoids in Home Cooked and Commercially Processed Orange Fleshed Sweet Potato (<i>Ipomea Batatas</i> Lam)." <i>Plant Foods for Human Nutrition</i> 70 (1): 1–8.
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