

Measuring Integration

Developing Common Metrics for Integrated Agriculture-Nutrition Interventions

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Valerie Rhoe Davis, Senior Technical Advisor, Catholic Relief Services

William A. Masters, Professor, Friedman School of Nutrition Science & Policy, Tufts University
Feed the Future Innovation Lab for Collaborative Research on Nutrition
www.nutrition.tufts.edu | sites.tufts.edu/willmasters

faith. action. results.

Measuring integration in ag.-nutr. interventions

motivation | context | approach | results | implications

Motivation

- Agriculture is a major influence on nutrition



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Motivation

- Agricultural interventions can help hit nutrition targets



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Motivation

- Ag. interventions are now integrated in nutrition projects



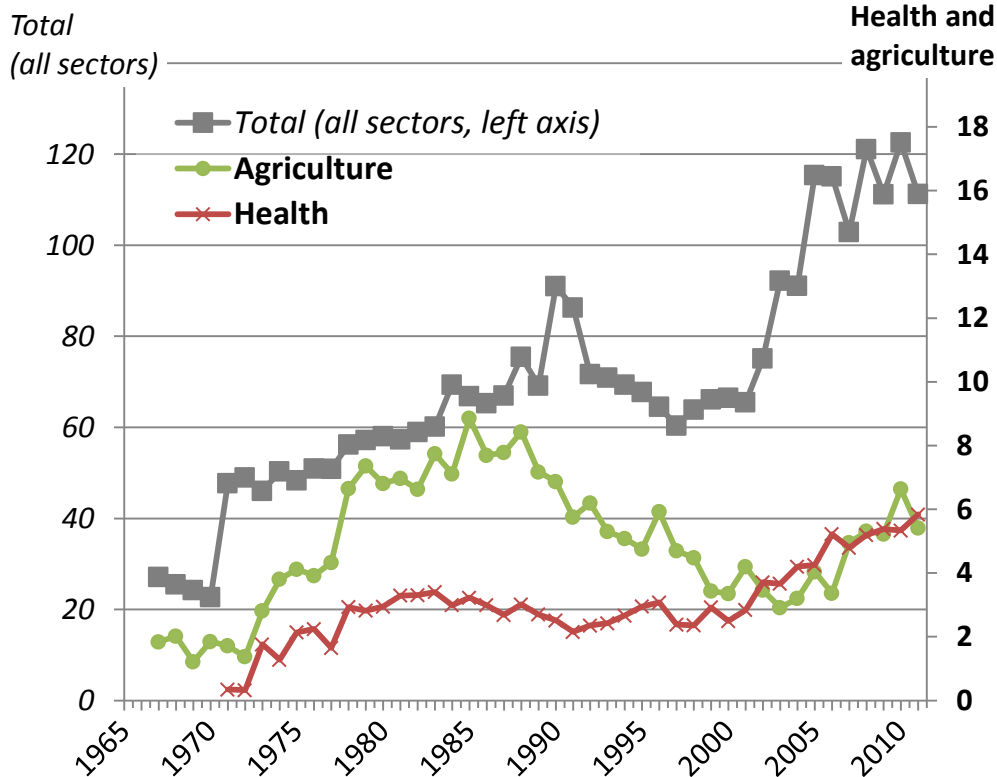
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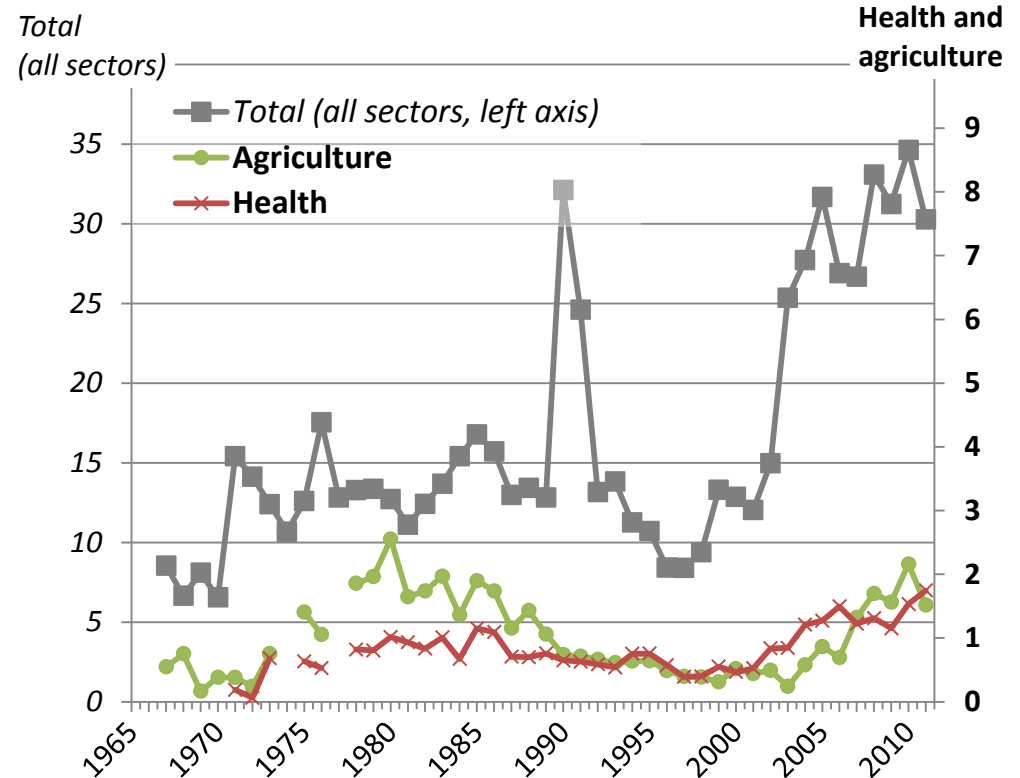
Context

- Agricultural assistance is now similar size as aid for health

All DAC donors



United States



Note: Health includes nutrition. Agriculture includes forestry and fisheries. Values are billions of constant US dollars at 2012 prices (both axes).

Source: Calculated from OECD (2014), Official Bilateral Commitments by Sector, downloaded 4 Oct. 2014 (<http://stats.oecd.org/qwids>)

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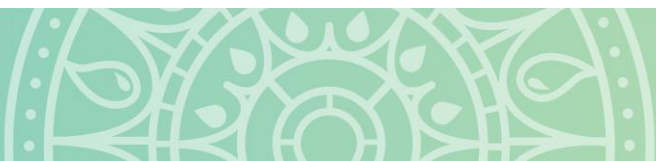
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Context

- Agriculture and nutrition are very different

Some stylized differences between agriculture and nutrition

	Agriculture (food production)	Nutrition (food utilization)
Typical intermediate results and primary outcomes	Productivity, income & ending poverty	Diets, disease & ending malnutrition
Typical assessment and evaluation methods	RCTs on stations & farms, then economics of adoption and impact	RCTs in communities, then epidemiology of prevalence and status
Typical targeting of interventions	Public investment for specific locations	Service delivery to specific beneficiaries



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Approach

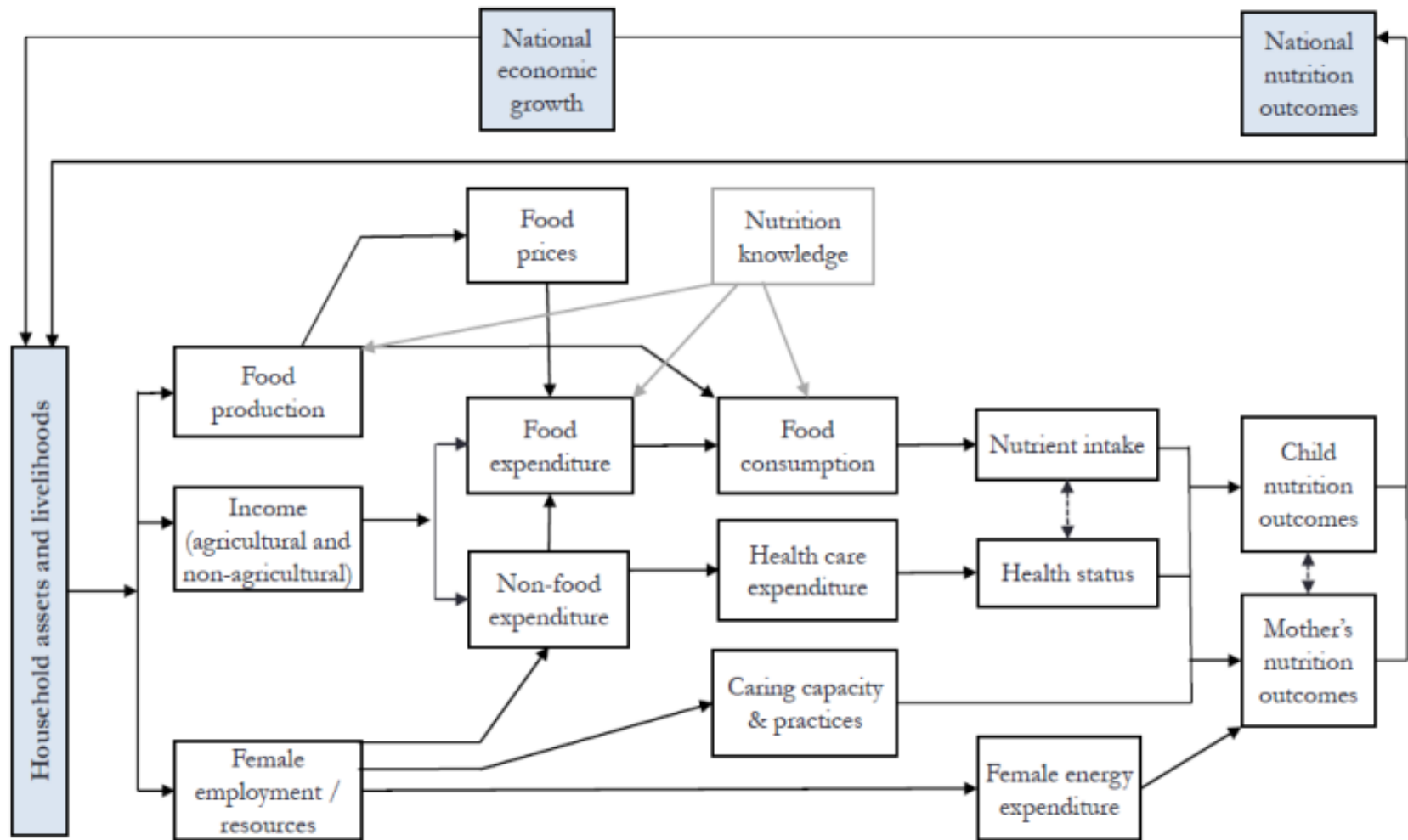
- Programs must take account of *both* ag. and nutrition



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Here is SPRING's simplest ag-nutrition causal framework

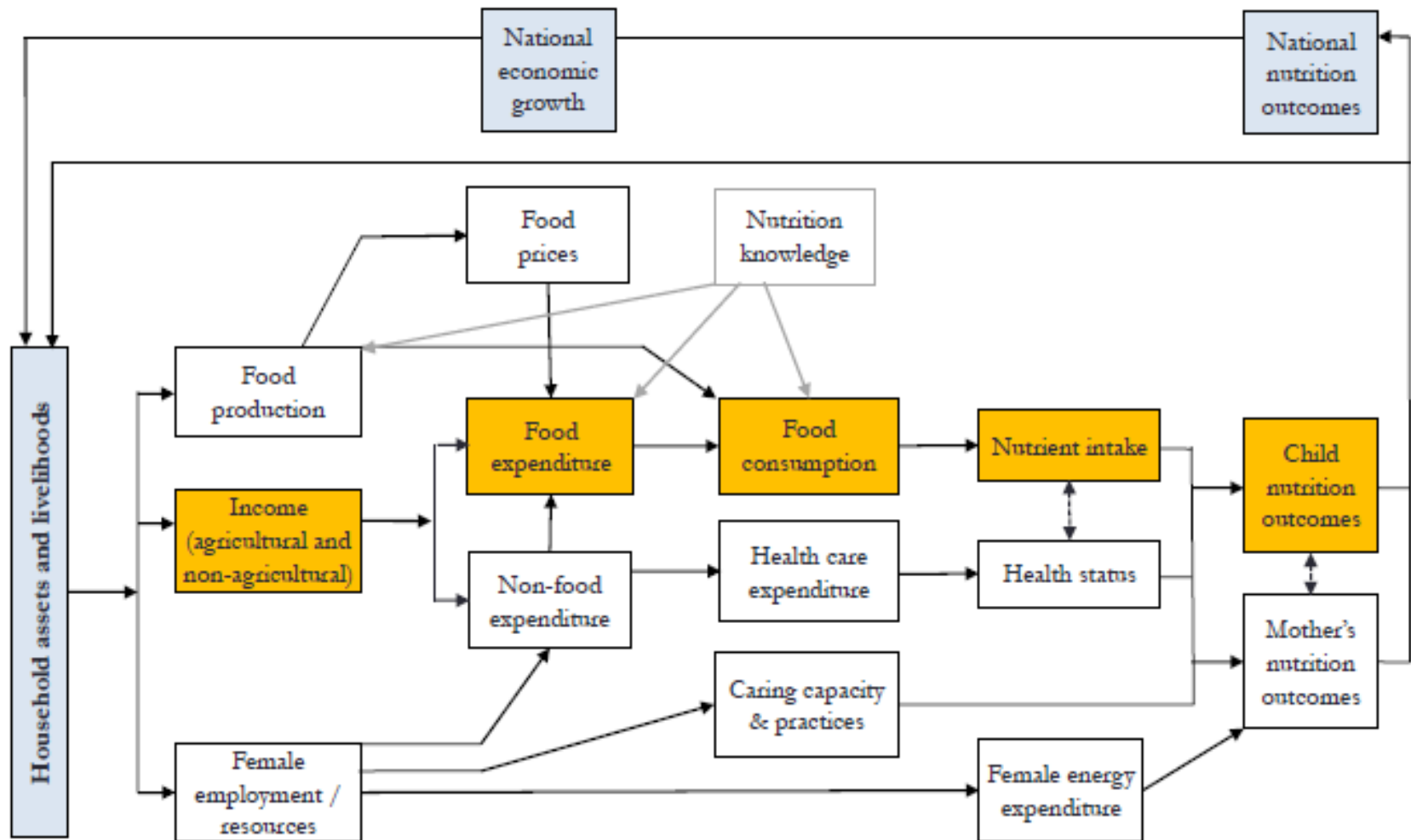


Source: Agriculture-Nutrition causal pathways framework, derived from Gillespie et al. by Anna Herforth and Jody Harris with SPRING, 2014

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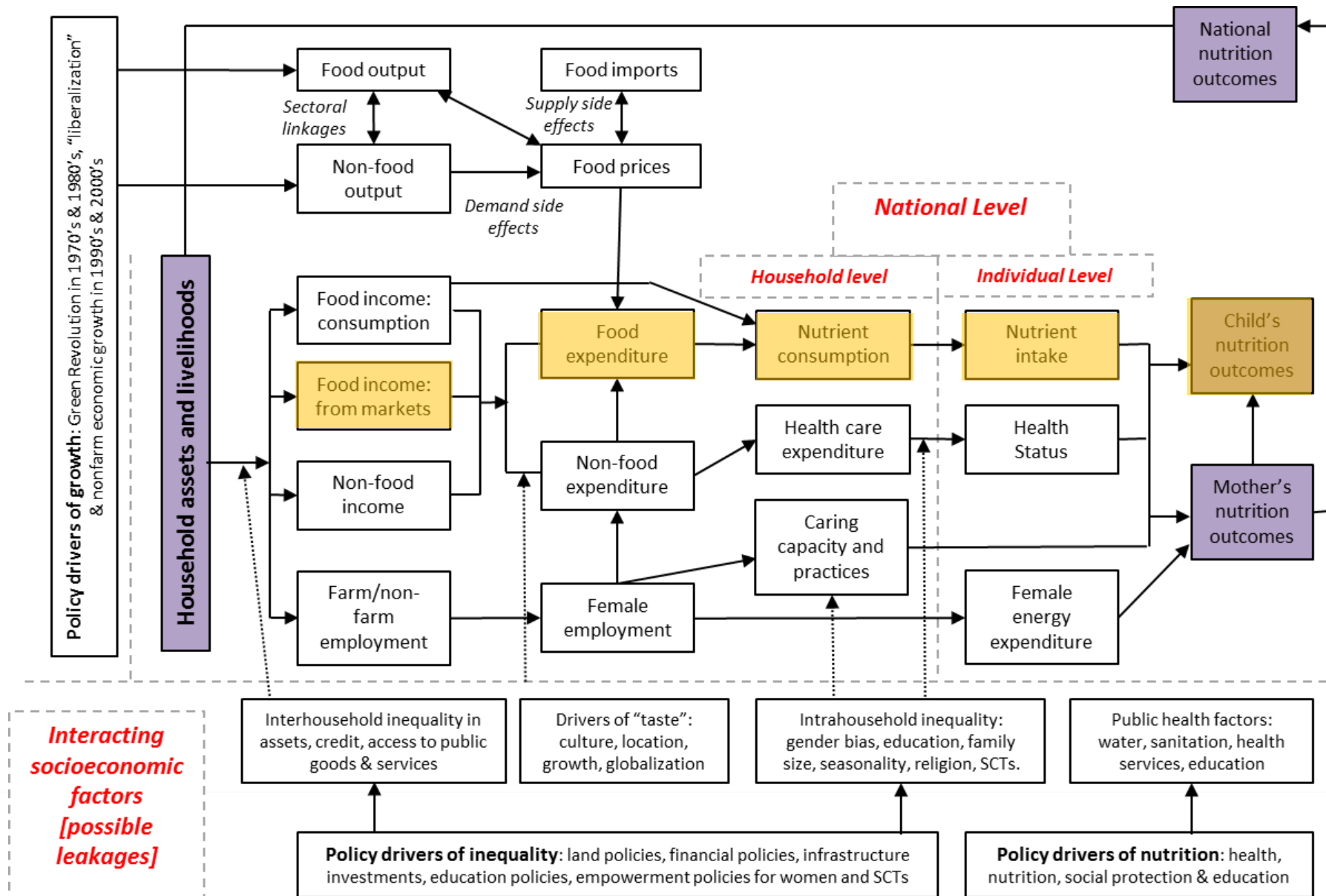
For example, a value chain project can affect child nutrition



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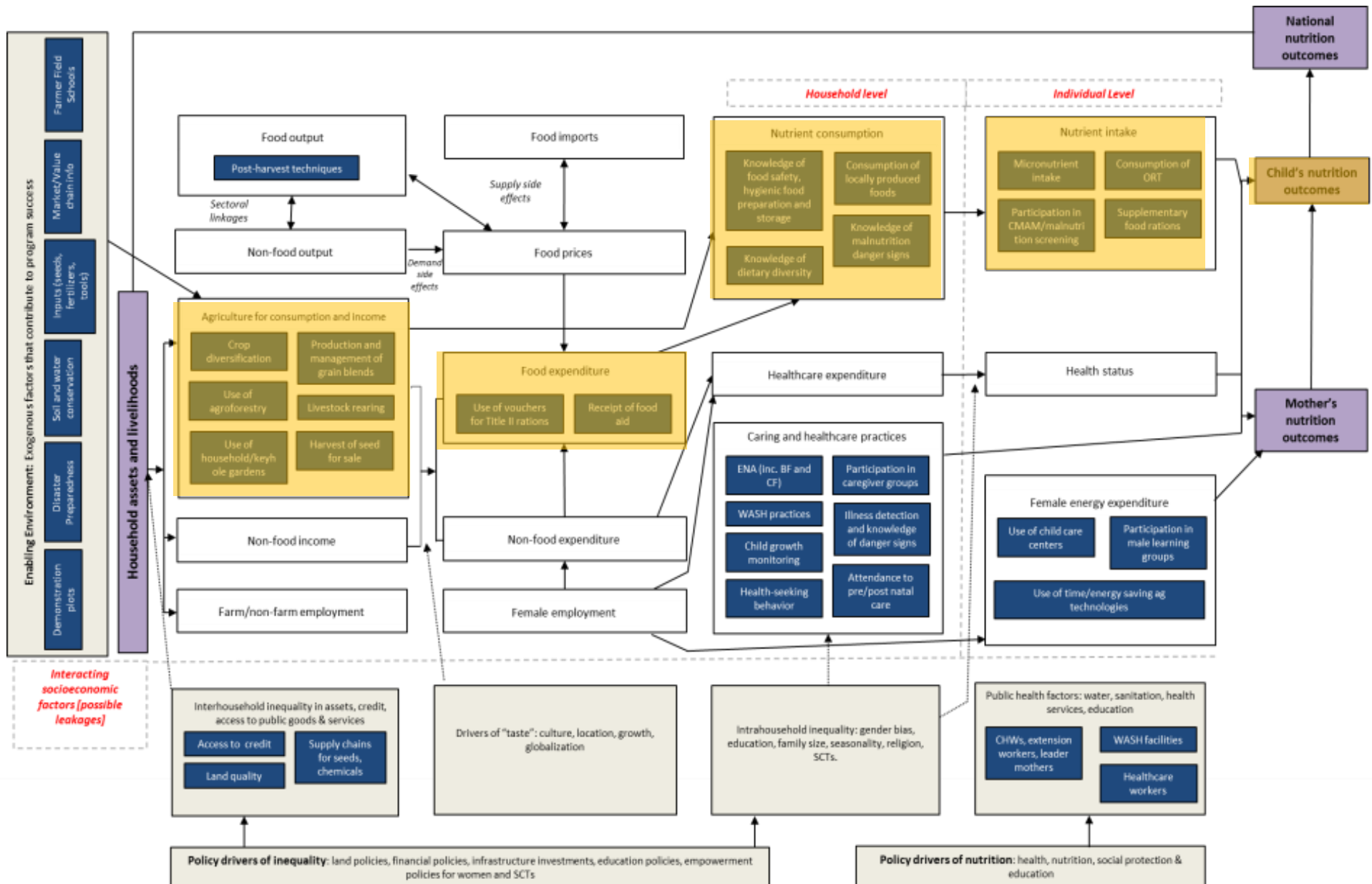
Similarly, in Stuart Gillespie's more complex framework



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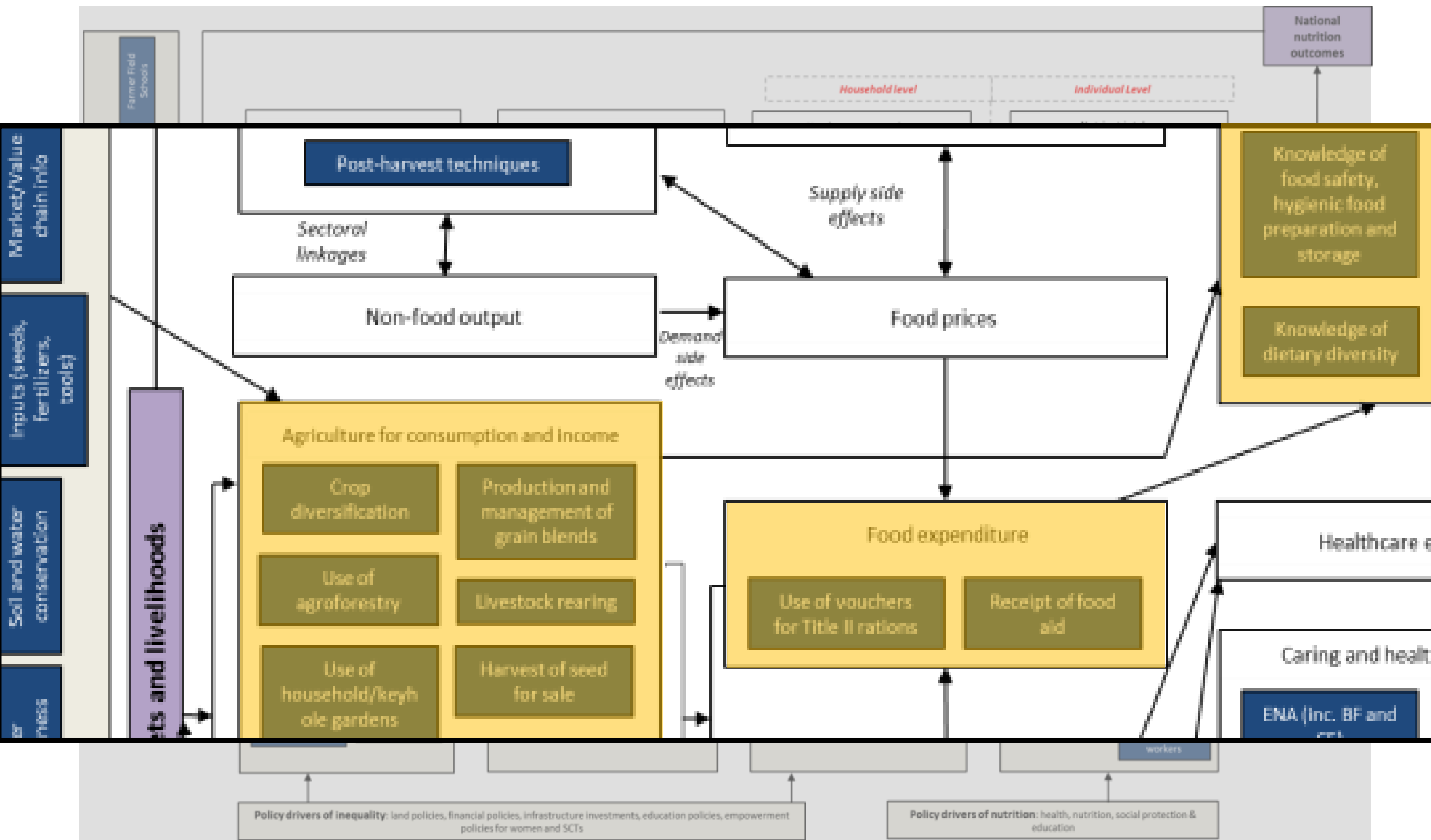
Here is the full CRS program framework, with more detail



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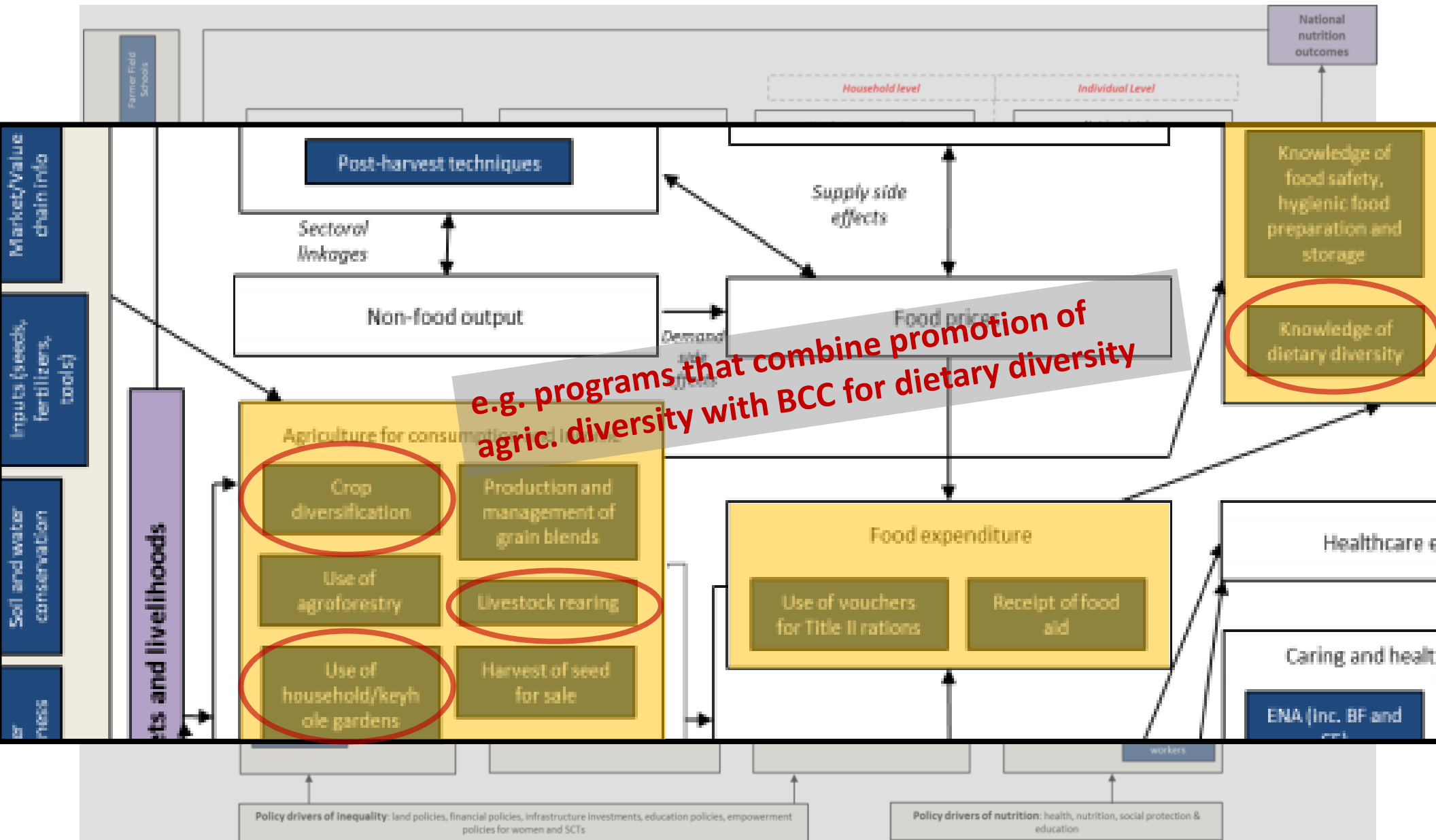
Zooming in, we can see specific CRS ag.-nutrition interventions



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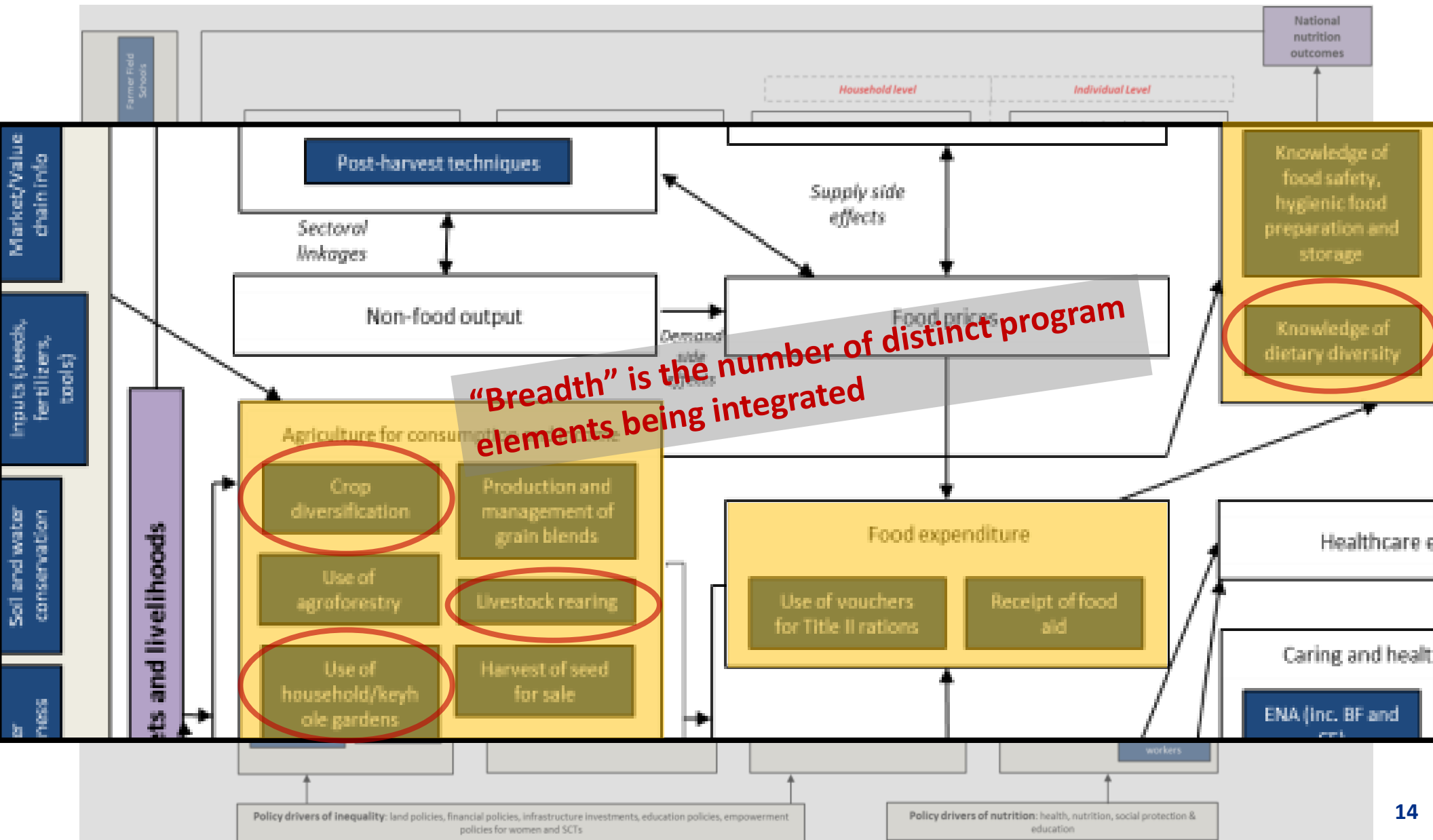
Our goal is to measure integration between program elements



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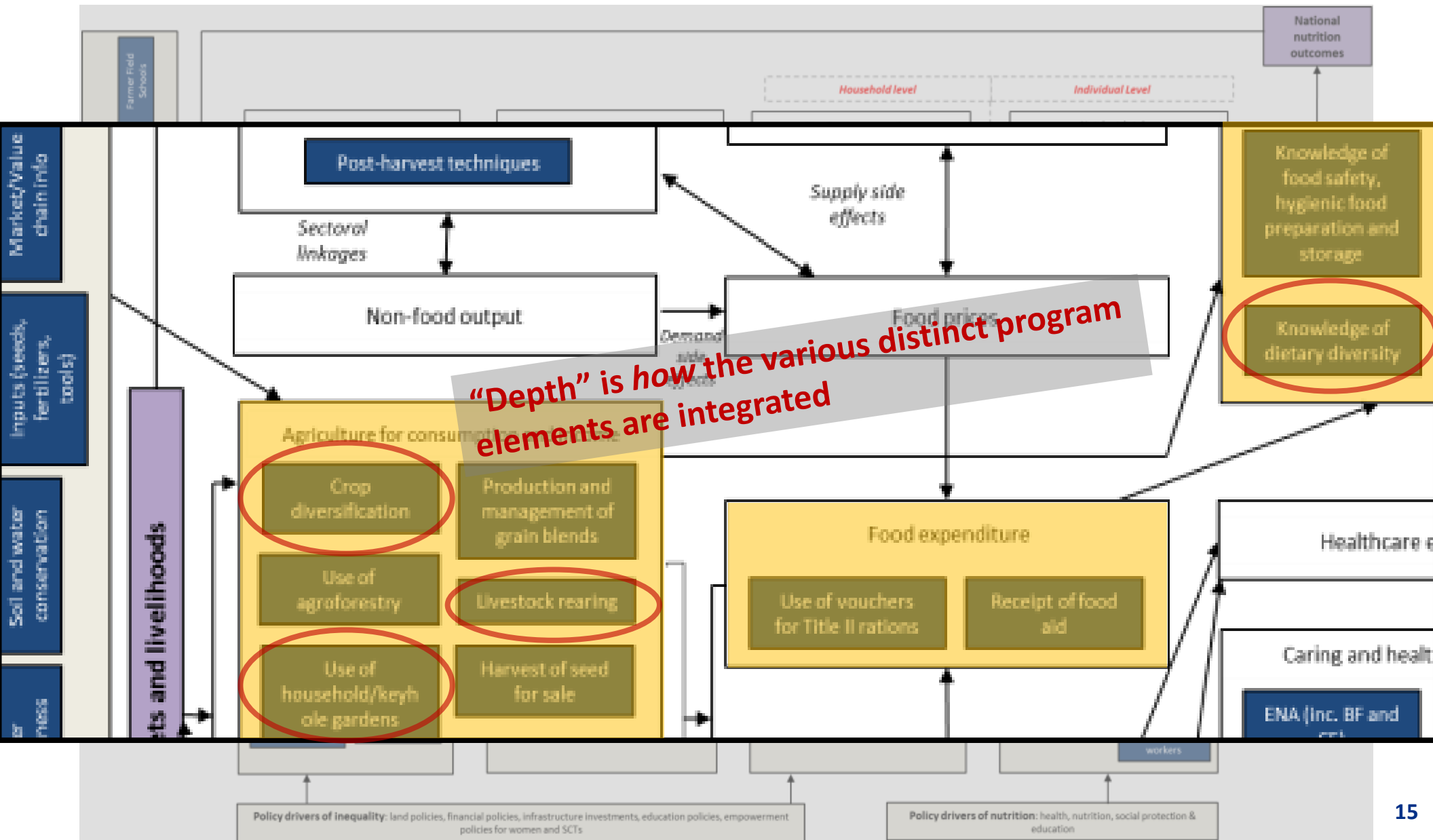
What dimensions of program integration can we measure?



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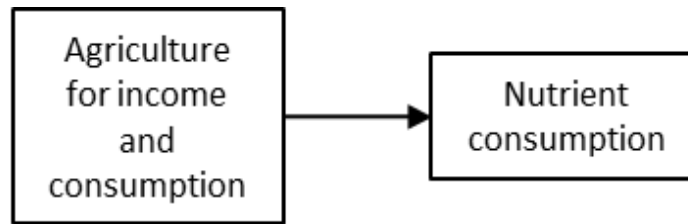


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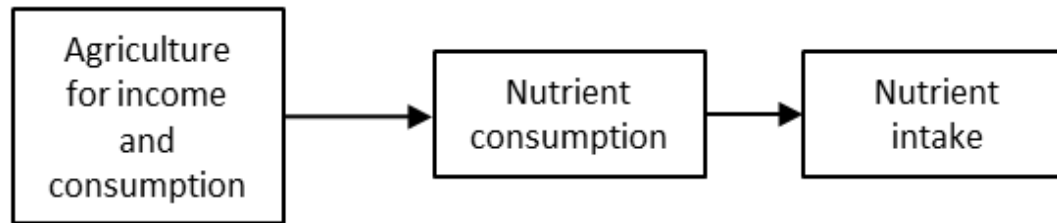
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“Breadth of integration” is the range of program elements being coordinated

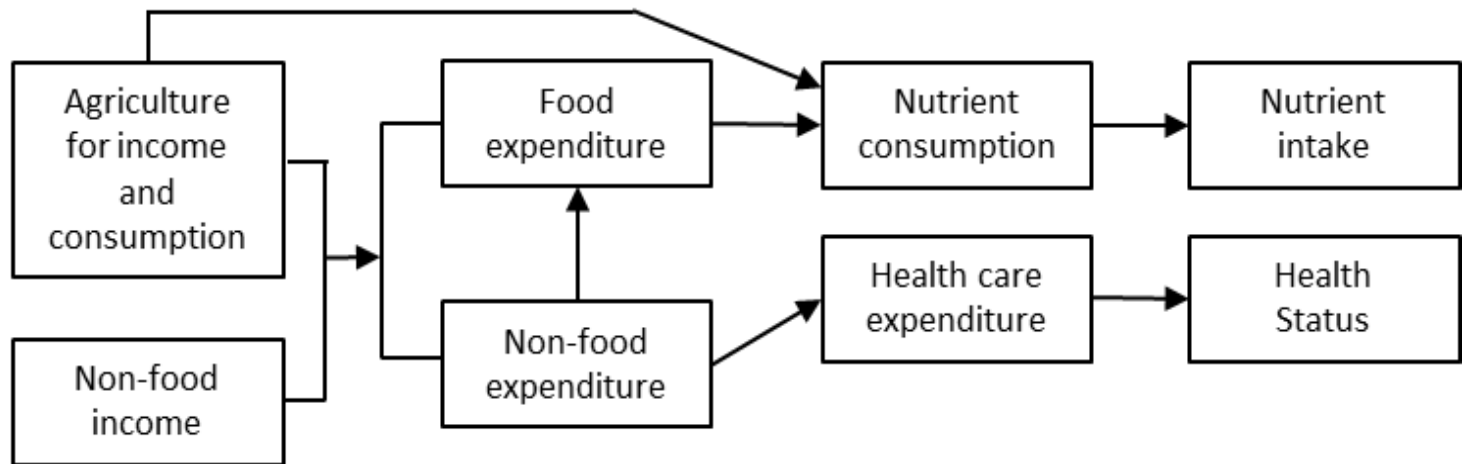
First degree



Second degree



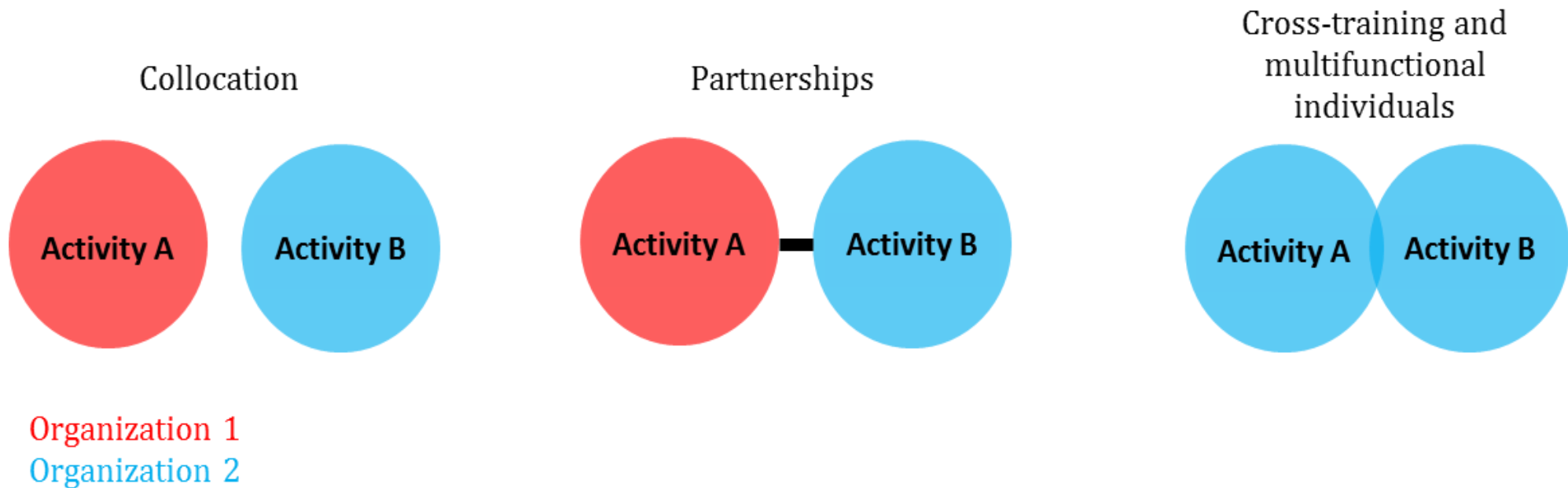
Third degree



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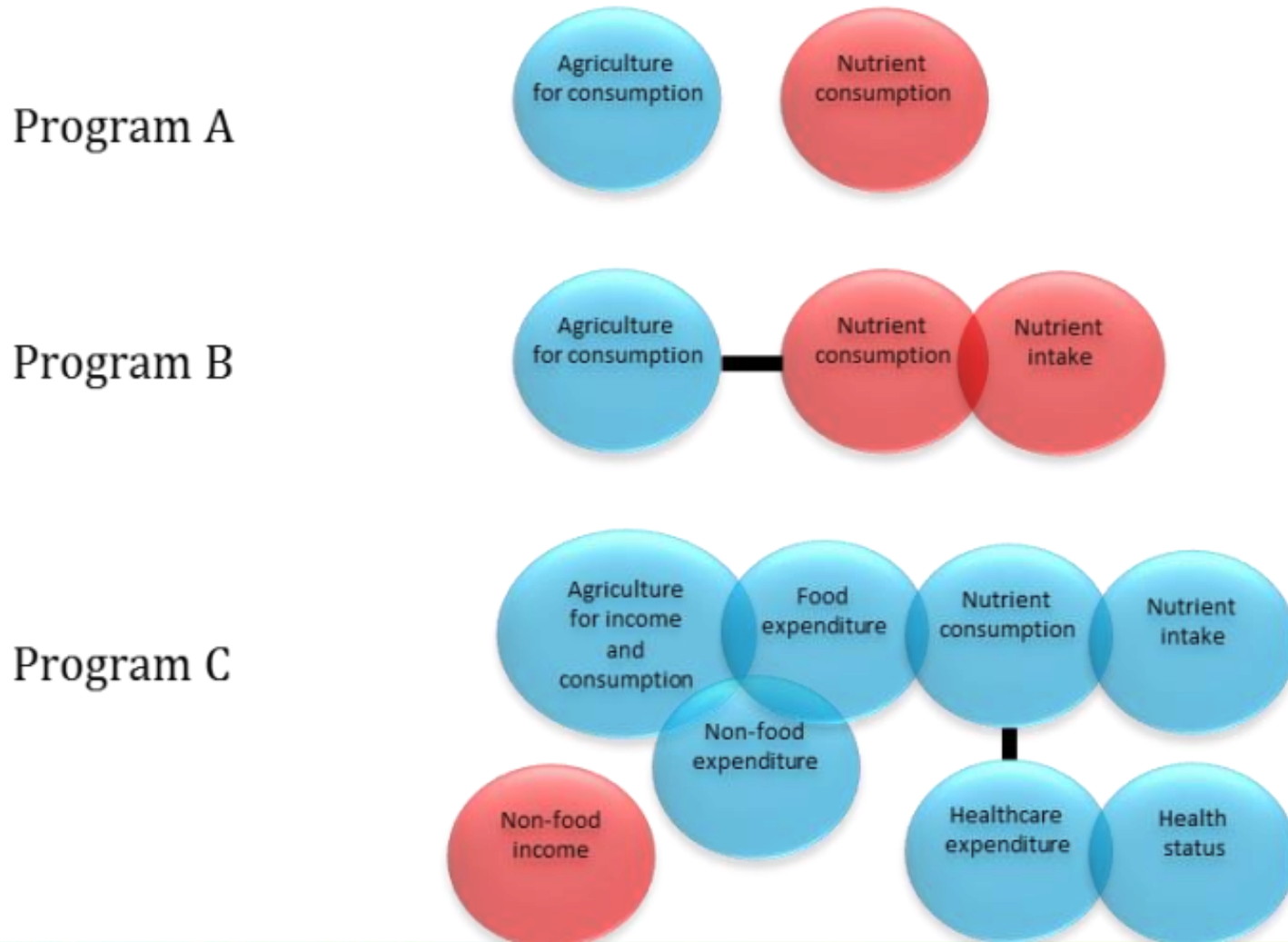
“Depth of integration” is how the various program elements are coordinated by the implementing organization(s)



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For example, these three programs differ in both depth & breadth of integration



The CRS pilot study: Objectives and Methods

- **Objectives: Could these metrics be useful for real projects?**
 - Can they classify and describe projects in a meaningful way?
 - Can program managers use these measures to guide their work?
- **Methods: How could one implement these new metrics?**
 - We examined all CRS projects funded between 2008 and 2013 whose proposals explicitly involve “integrated” or “integration” between agriculture and nutrition
 - Found 17 projects implemented in Africa, Asia and Latin America
 - Two consultants independently classify each project’s design using the CRS framework with identified interventions from these 17 projects, in terms of “breadth” and “depth”
 - The consultants generally reported identical scores; in a few cases, ambiguities were clarified by field staff

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The CRS pilot study: Numerical findings

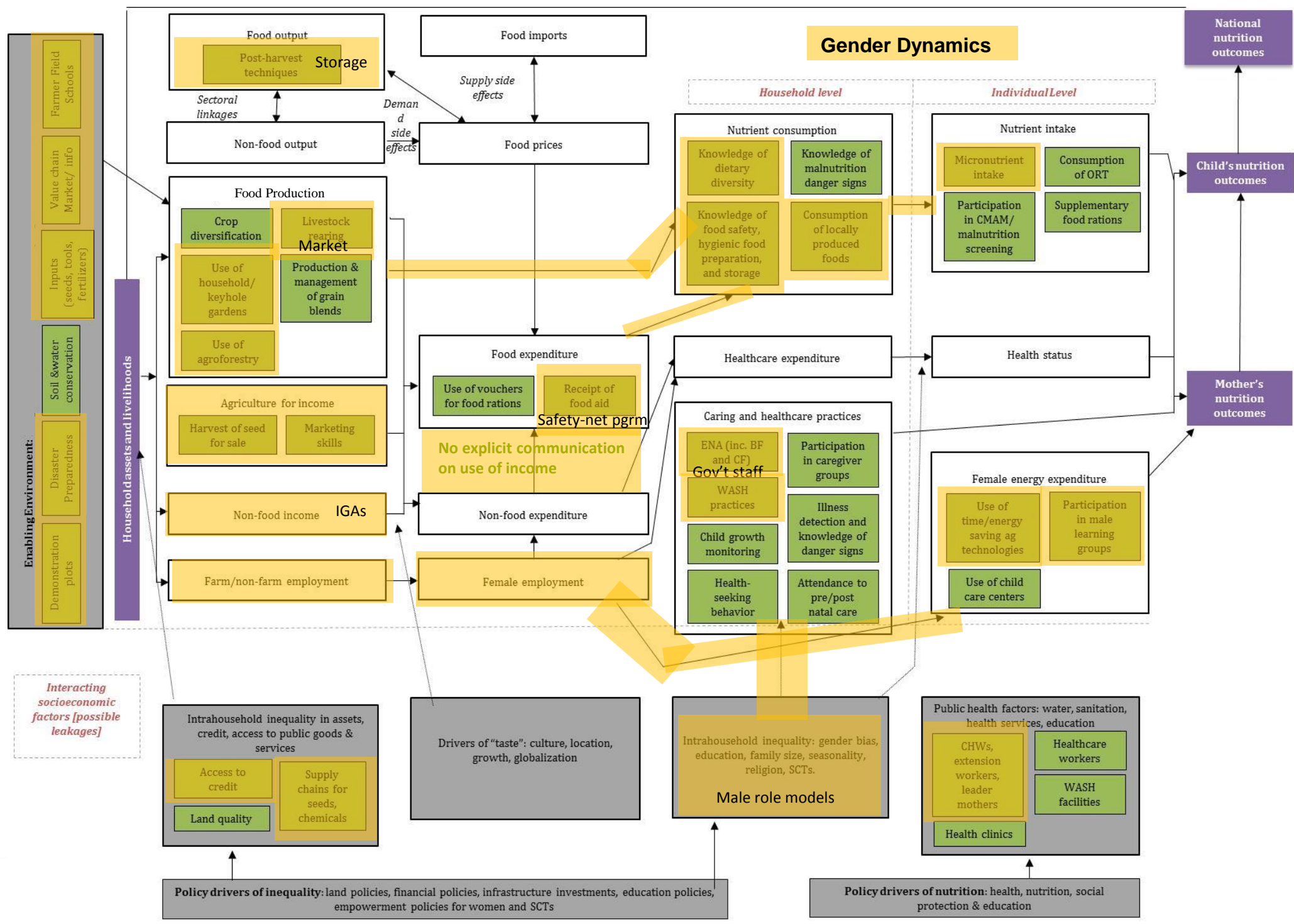
Breadth and depth of integration in a sample of 17 CRS programs

Breadth of program (number of elements)	1-2	3-5	6+
<i>Depth of integration between elements</i>			
1. Co-location of program elements	0	0	2
2. Partnership among organizations	1	1	8
3. Cross-training and multifunctionality	1	1	3

Source: CRS file data, as reported in W.A. Masters et al. 2014, "Agriculture, nutrition, and health in global development: Typology and metrics for integrated interventions and research. *Annals of the New York Academy of Sciences*, vol. 1331: 258–269.

Applying the Pathways to CRS Programs

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The CRS pilot study: Implications

- **Grounding the Ag-Nut Pathways:** Explicit interventions within each elements helps CRS teams to better understand the pathway's elements
- **Linking across the pathways:** The grounding allows our teams to ask how our interventions are linked, are their breaks within the pathway, and who is receiving the different elements
- **Implementing integrated programs:** Depth & Breadth scores provides the foundation on how well integrated at the higher-levels; need to dig down to better understand the level of integration on the ground
- **Understanding impact:** Next step is to better understand if more integration leads to better impacts. If integration by same implementer or across implementers vary in impact

Thank You

