



How to promote Multisector Action through IFNA

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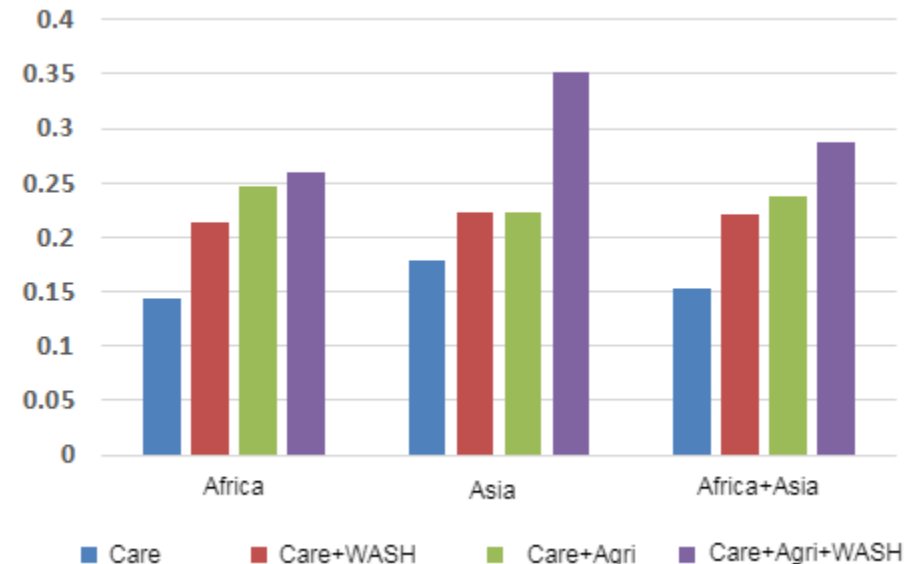
Japan International
Cooperation Agency

Health sector plays primary role in stunting reduction, enhanced by nutrition sensitive Actions

Impact of MSA over stunting reduction (based on 24 country data from Asia and Africa)

<Confirmed situation>

- **Only Maternal & Child care** showed significant impact when implemented stand alone
- By overlapping Agriculture / WASH, the impact of Maternal & Child Care further improved



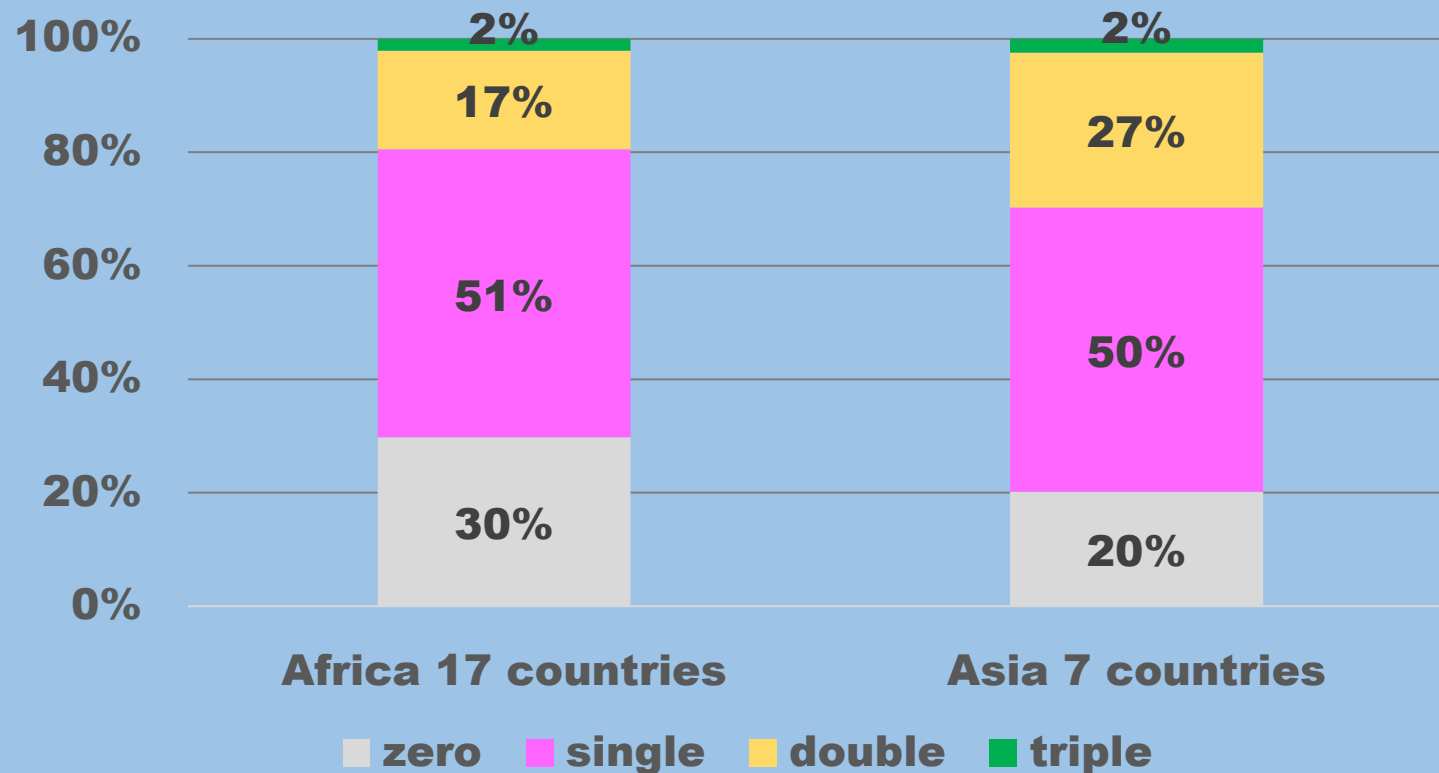
<Implication>

Reverse way of programming in “Agriculture sector” is required

How to add nutrition sensitive action (including agriculture) on top of nutrition specific action (health)

Easy to agree, difficult to implement...

Service coverage in multisector nutrition action is as much as 2% in Asia and Africa



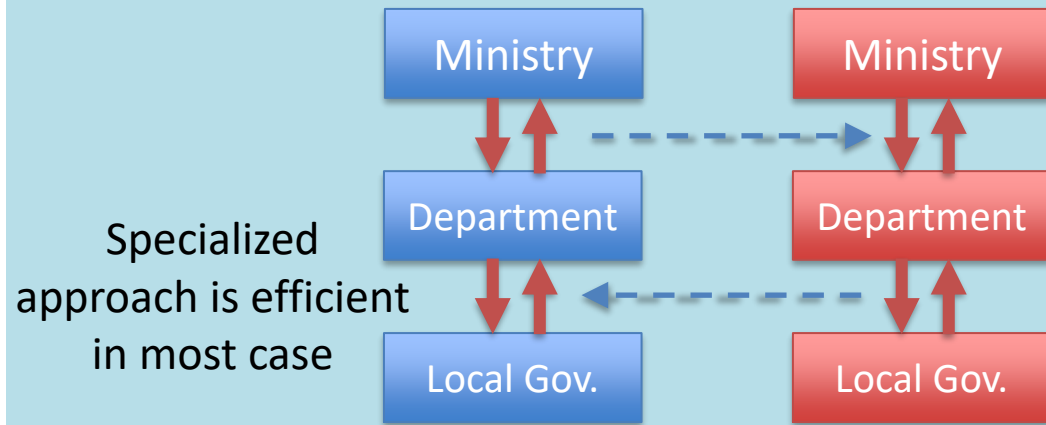
- Using DHS dataset (2010-2018), service coverage of three key nutrition action was measured for Africa (17 countries) and Asia (7 countries)
- Only 2% of household in each region benefit from triple coverage

Three key nutrition action

- Agriculture: minimum acceptable diet
- WASH: access to water and sanitation
- Health: set of prenatal/postnatal health service

Why MSA is difficult to implement?

Hinder implementation efficiency



Mismatch in target selection criteria

- Agriculture:
 - Based on agro-ecology, area based, male focus
 - Preference: better environment, market access
 - Avoidance: vulnerable area, population
- Health
 - Based on individual
 - People with limited access to health service
 - Mother & child (case of undernutrition)

Conflict with autonomy

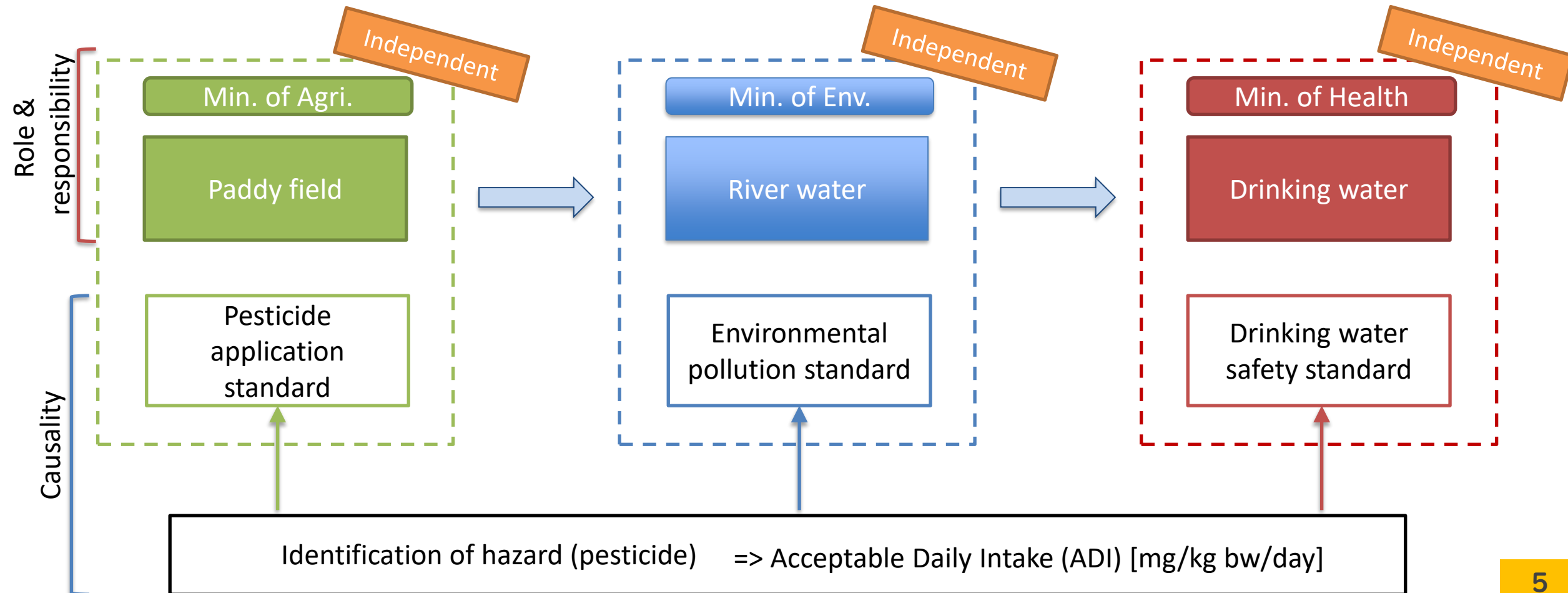


Monitoring challenge



Case of multisector: Drinking water safety

- Multisector in safety management of drinking water
- Work is done through single sector but outcome is multisector, why?

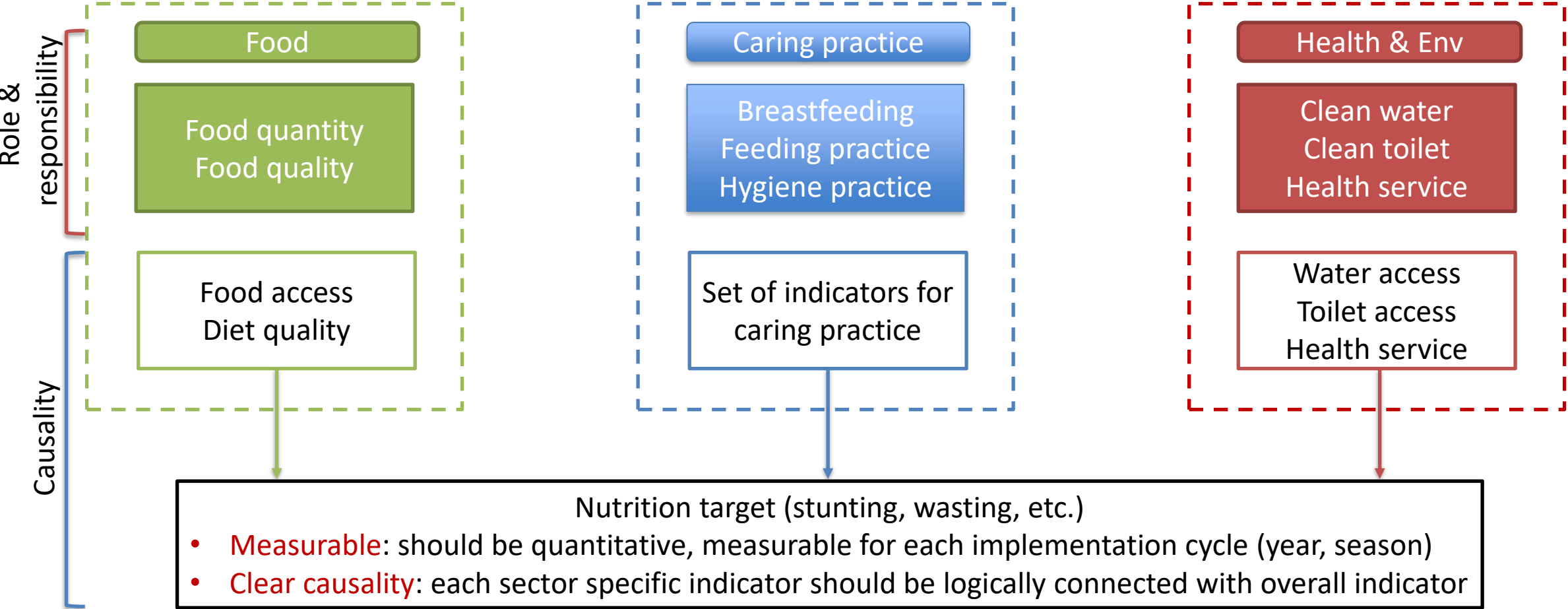


Case of multisector: Nutrition improvement?

- Multisector in action for nutrition action
- Can we apply similar approach?

Challenges in case of nutrition

- Same target beneficiary
- Same target location
- Complex causality especially in Food System



Recommendation

1. To have common beneficiary
2. To have common target
3. To introduce common result framework
4. To have sector specific target (quantitative, measurable)
5. Plan multisector, **implement single sector**, review multisector





Nutrition Focused Approach from IFNA

Shunichi NAKADA
Senior advisor

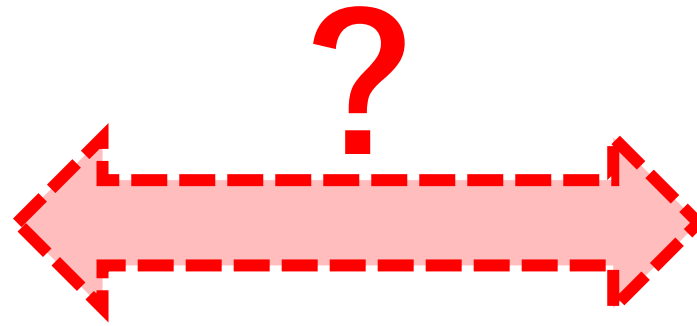
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Promising area of collaboration

Health Sector
- Expertise in guiding local people for better diet.



Let's eat a balanced diet!



Improved knowledge, but lack of access to nutritious food makes it difficult to practice.

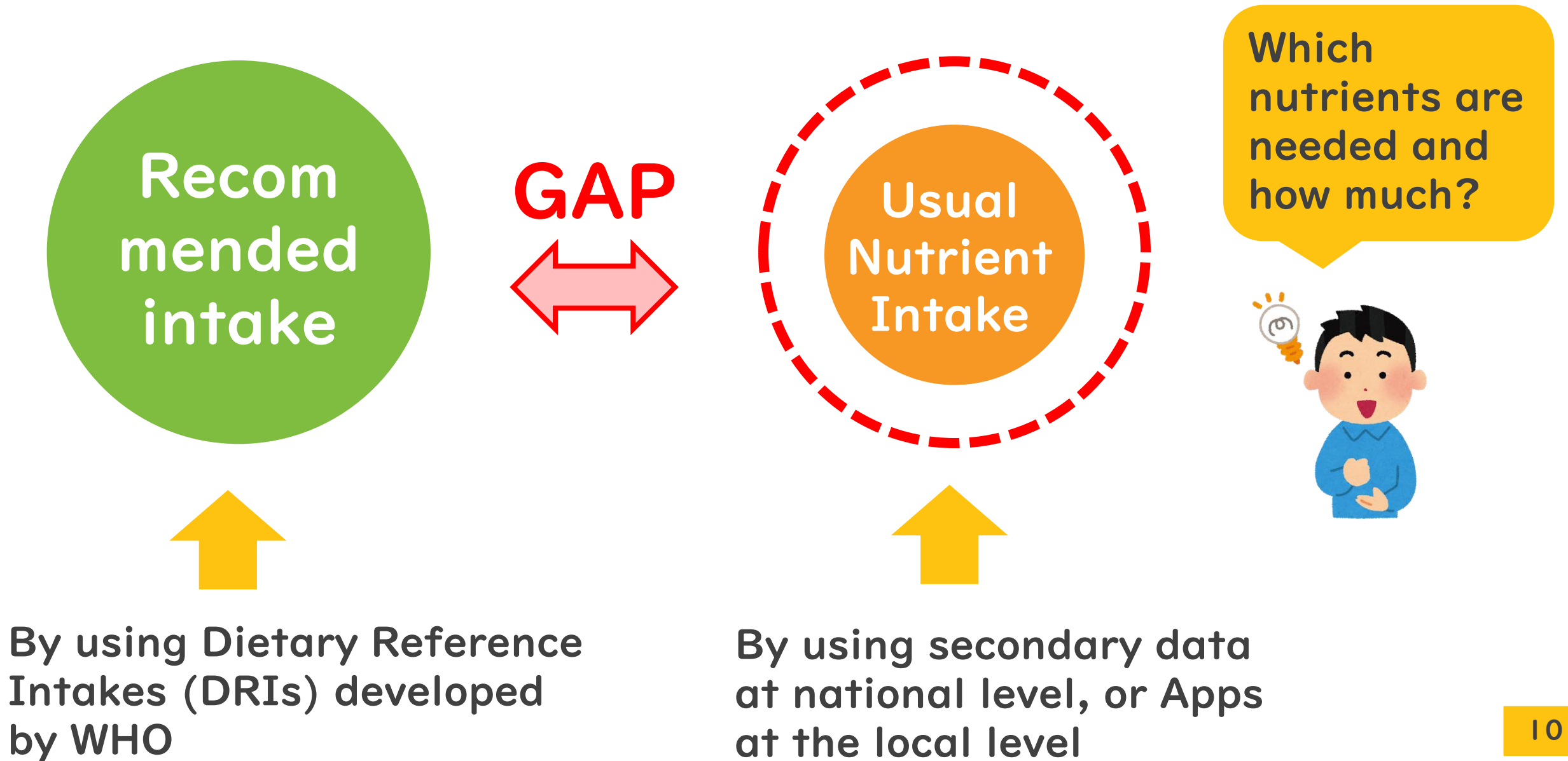


Agriculture Sector
- Limited access to nutritious food due to failure in food system.



Nutrition sensitive approach has not been fully integrated.

What is NFA (Nutrition Focused Approach)? ①

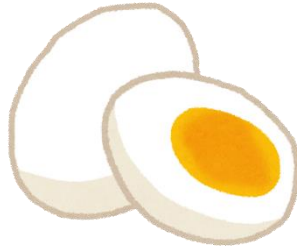


What is NFA (Nutrition Focused Approach)? ②

Iron



Local Food



Egg

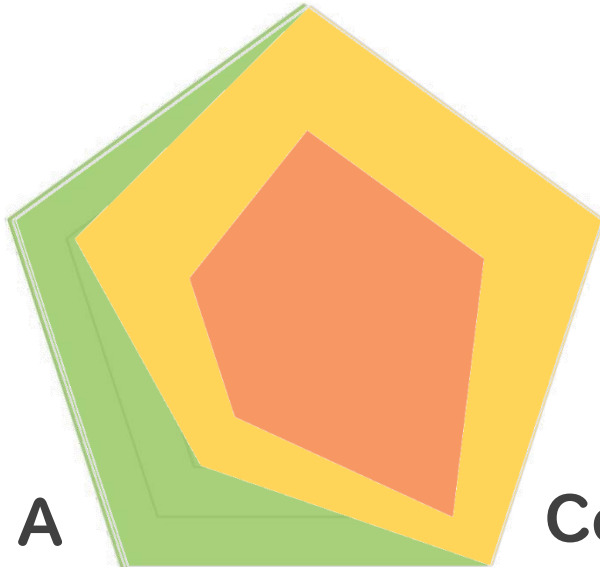


Broccoli

Better access through improved food system

Protein

Iron



Fat

3

4

5



Vitamin A

Carbohydrate

Dietary diversity score (DDS)

Nutritional requirements per meal

NFA implementation flow

Adequate knowledge of nutrition, but no nutritious foods to practice.



① Assess local nutrition gaps and identify agricultural interventions based on the NFA concept.



IFNA handbook & NFA App



Health & extension workers



② Produce nutritious food.

③ Create synergy between the health and the agricultural sectors.

Eat nutritious foods!
Stay healthy and happy!



Function Overview for the Nutrients App

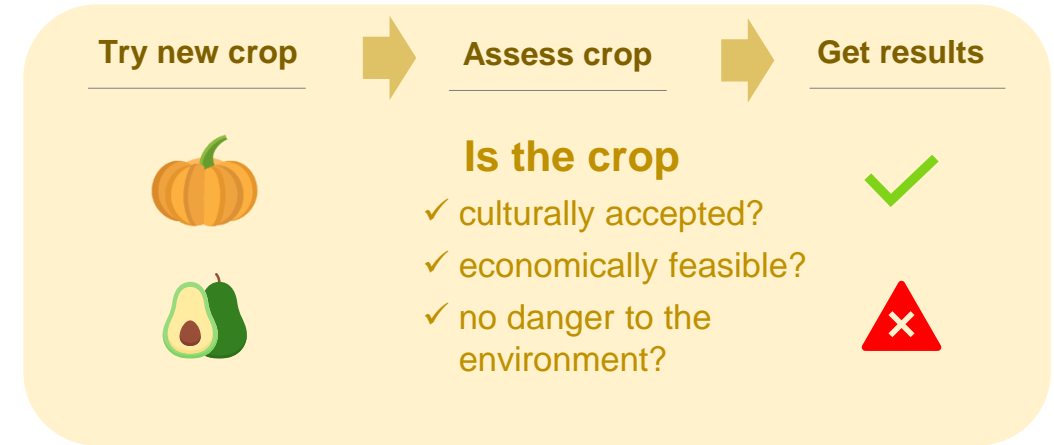
Function 1

Analyze which **nutrient is lacking** from a household's dish



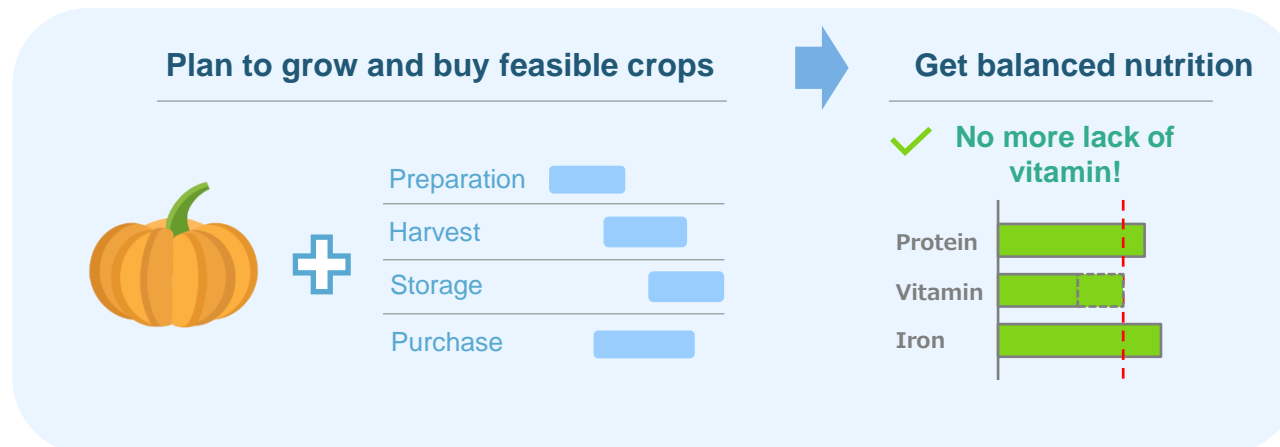
Function 2

Find the **best possible crop** to supplement the lacking nutrition



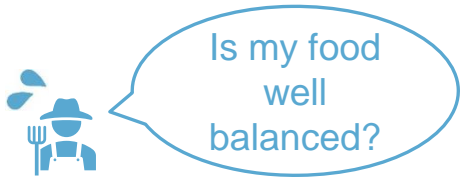
Function 3

Plan to grow and buy the crops necessary for a balanced diet

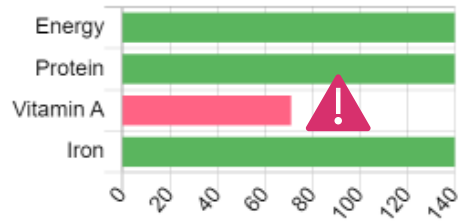


Improving nutrition by utilizing the apps

1 Nutrition balance unknown



2 Analyze diet to find deficient nutrients

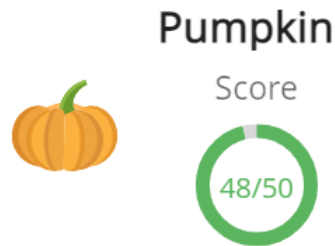
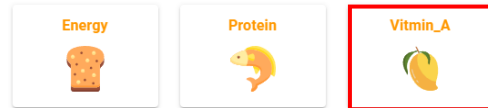


Lack of Vitamin!

3 Identify foods to fill nutrient gap



Click for Nutrition Group for Sort ⊗ Clear



4 Plan for grow & buy foods



Grow crops

OWN PRODUCTION MARKET PURCHASES

Pumpkin, squash, raw

1 ha	Yield	Consumption	Sal
100 RWF/kg	1 t/ha	90 %	10,00€

Prep Harvest Storage

Apr 2021 Jul

Purchase crops

OWN PRODUCTION MARKET PURCHASES

Pumpkin, squash, raw

2021-02	2021-03
100 kg	50 kg

5 Dissemination In community



Extension Worker



Farmer Community



Diet Analysis – Function 1

Identify lacking nutrients in a household's diet

1 Enter ingredients of dish

Energy Protein Vitamin A Iron

Enter the amount of food (g)

Food Name	Game meat, dried
Energy [kcal]	1390
Protein [g]	66.7
Vitamin A [µg]	0
Iron [mg]	9.9

Weight in gram
300

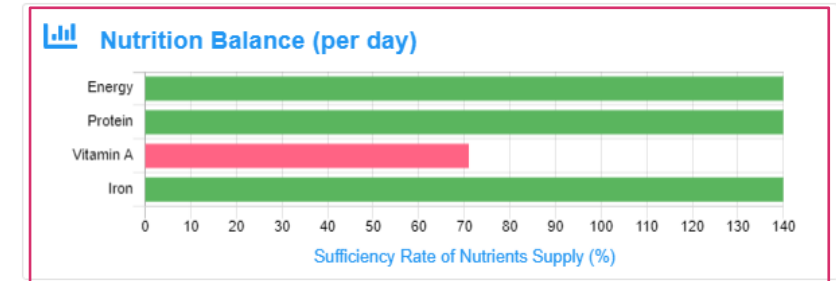
REGISTER CANCEL

Add Ingredients

Icon	Food Name	Energy [kcal]	Protein [g]
	Ant flying, dried	2490	38.8
	Maize, white, flour refined	1500	7.6
	Cumin, seed	1780	17.8
	Bay leaf, dried	1480	7.6
	Mole cricket, blanched	544	15.4

Rows per page: 5 1-5 of 471

2 Visualize lacking nutrients and diversity



Household Nutrition

Family Members	12
energy	15176 kcal
protein	174 g
vitaA	5100 µg
iron	76 mg

Dietary Diversity

- Breast milk
- Grains, roots and tubers
- Legumes and nuts
- Flesh foods
- Dairy products
- Other fruits and vegetables
- Eggs
- Vitamin A rich fruits and Vegetable

Ingredients Combination

Icon	Food Name	Energy [kcal]	Protein [g]	Vitamin A [µg]	Iron [mg]
	Beef liver, boiled* (without salt)	845	29.4	6020	12.6
	Mole cricket, blanched	544	15.4	0	41.7
	Maize, white, flour refined	1500	7.6	0	1.2

Rows per page: 5 1-3 of 4

Crop Feasibility – Function 2

Assess crops based on cultural & economic fit to better decide what crops to grow & buy

1 Choose crop and answer cultural, economic & environmental questions

Icon	Nutrition Group	Food Group	Food Name
	protein,iron	Vegetables and their products	Cowpea leaves, dried
	iron	Vegetables and their products	Tamarind, leaves, dried
	protein,iron,vitamin_a	Vegetables and their products	Pumpkin leaves, dried

Questions

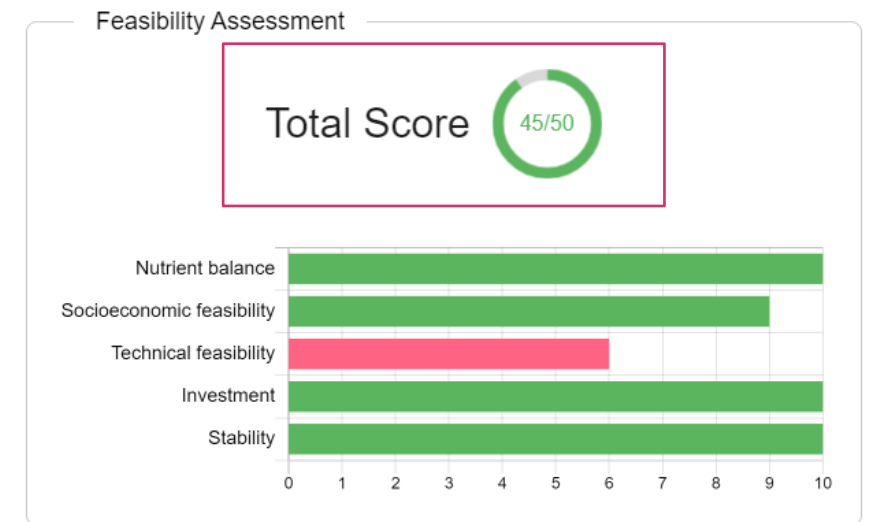
Q2: Is there any social barrier to consume this commodity in general?
Answer

Q3: Is there any social barrier to consume this commodity for women?
Answer

Q4: Is there any social barrier to consume this commodity for child?
Answer

Q5: Is this commodity affordable in the market for ordinary population?
Answer

2 The score shows you if it is feasible for you to grow or buy the crop



Crop Planner – Function 3

Plan the growing & purchase of your crops on a yearly basis to ensure a balanced nutrition

1 Register a crop and set its field size, future yield and harvest plan

2 Visualize & plan the monthly and yearly nutrition rate for your family

The interface shows two crop entries under 'OWN PRODUCTION':

- Eggplant leaves, raw:** 0.3 ha, 100 RWF/kg, Yield 0.3 t/ha, Consumption 60%, Sales 3,600 RWF. Harvest plan shows Prep in Feb 2021, Harvest in Mar, and Storage in Mar.
- Pumpkin leaves, dried:** 0.3 ha, 100 RWF/kg, Yield 0.2 t/ha, Consumption 60%, Sales 2,400 RWF. Harvest plan shows Prep in Feb 2021, Harvest in Mar, and Storage in Apr.

Below the crop list are three calendar views for 2021:

- Food Preparation:** 2 selected (Feb, Mar)
- Harvest:** 2 selected (Mar, Apr)
- Storage:** 2 selected (May, Jun)

Farmer Jan's Page
 12 family, 0 ha land, 2 fields, 1 purchases
 Total Sales at the Market: 42,400 RWF

Household Sufficiency Rate of Nutrients Supply
 for selected period

Nutrient	Own Production (%)	Market Purchase (%)
Energy	~30	~30
Protein	~60	~40
Vitamin A	~100	~10
Iron	~120	~0

Monthly Family Nutrition Intake

Date	Unused Land	Sales	Energy	Protein	Vitamin A	Iron
2021-01	-1.3	0	136%	149%	45%	9%
2021-02	-1	20,000	260%	402%	625%	578%
2021-03	-1.3	21,200	302%	522%	664%	725%
2021-04	-0.3	1,200	42%	119%	38%	149%
2021-05	0	0	0%	0%	0%	0%

Please try to use application, give us a feedback

- Application link

<https://ifna-nutrients-app.herokuapp.com/>



- Documentation & Feedback

<https://ifna.africa/our-approach/>

