Gender, Agriculture & Assets Project

Led by IFPRI

The project-level Women's Empowerment in Agriculture Index How we are developing a new index

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CGIAR Collaborative Platform for Gender Research
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Starting point: Women's Empowerment in Agriculture Index (WEAI)

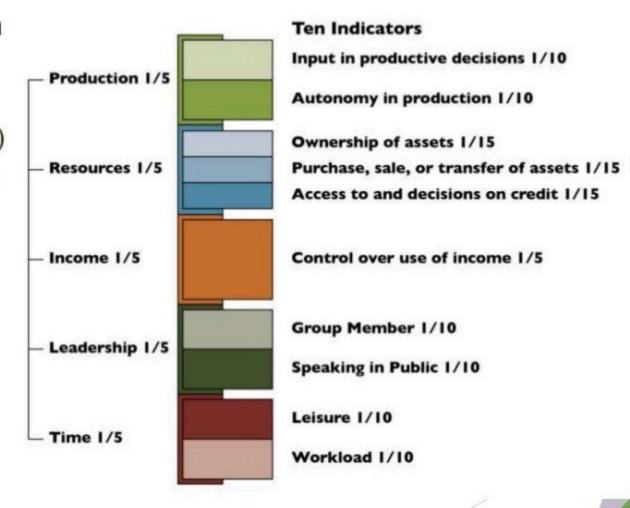
- Survey-based index
- Developed by IFPRI, USAID, & OPHI
- ▶ Launched in 2012
- Measures inclusion of women in the agricultural sector





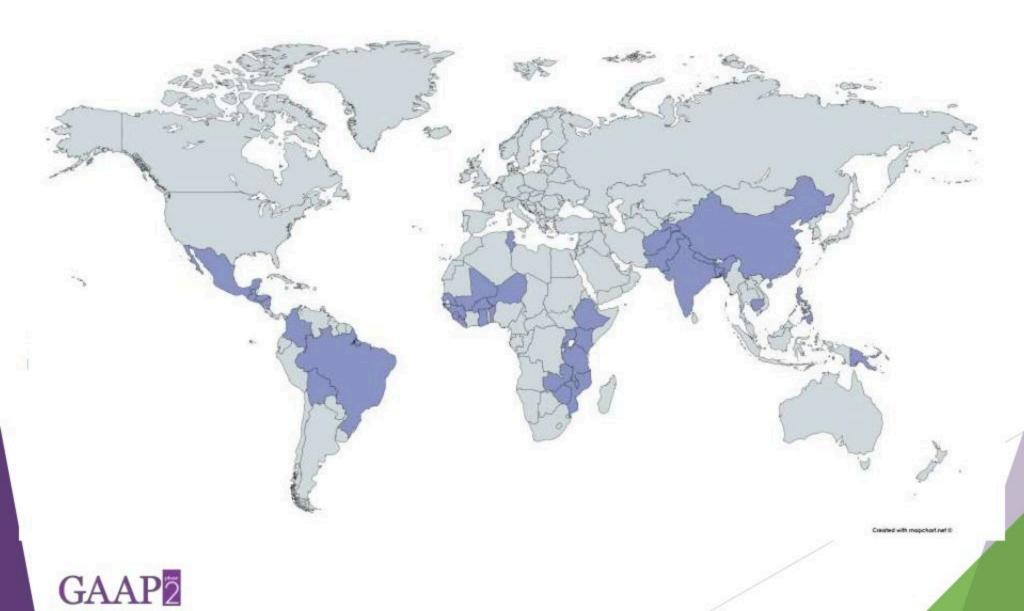
How is the index constructed?

- An aggregate index in two parts:
 - Five Domains of Empowerment (5DE)
 - Gender Parity Index (GPI)
- Constructed using interviews of the primary male and primary female adults in the same household





50 countries, 75 organizations



Pro-WEAL

Comparable metrics for empowerment:

Core set of pro-WEAI empowerment modules

- Quantitative survey
- Qualitative protocols



Standardized add-ons depending on project needs

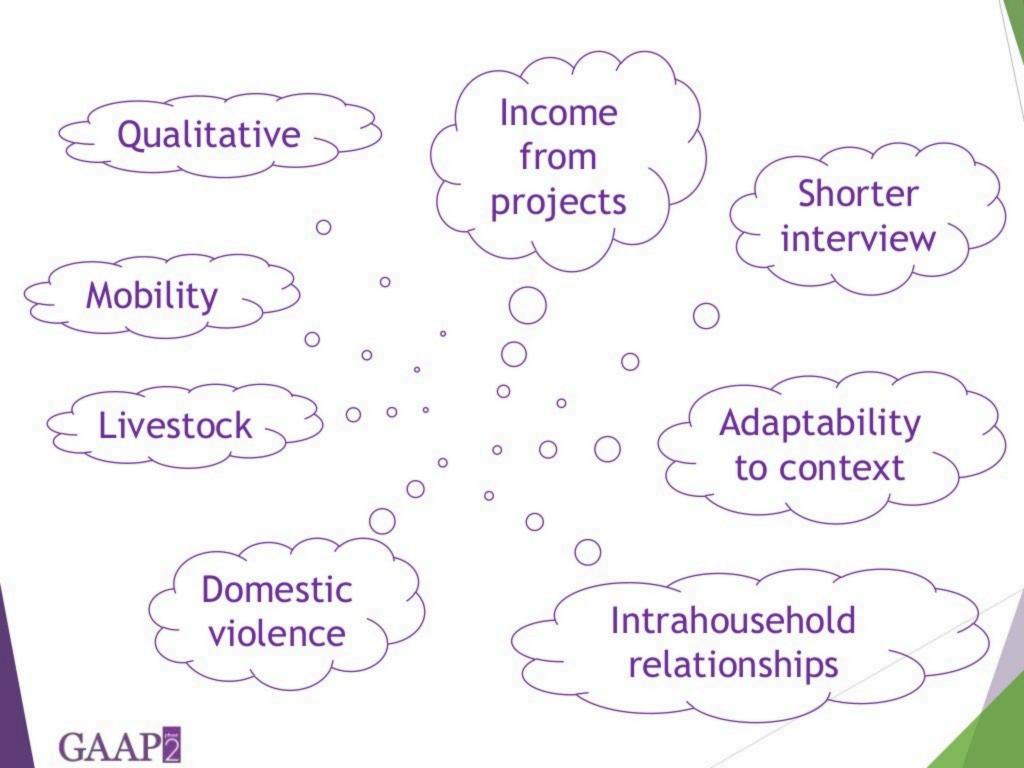
- Nutrition and health
- Livestock-enhanced



GAAP2 for pro-WEAI: A portfolio approach to measuring empowerment



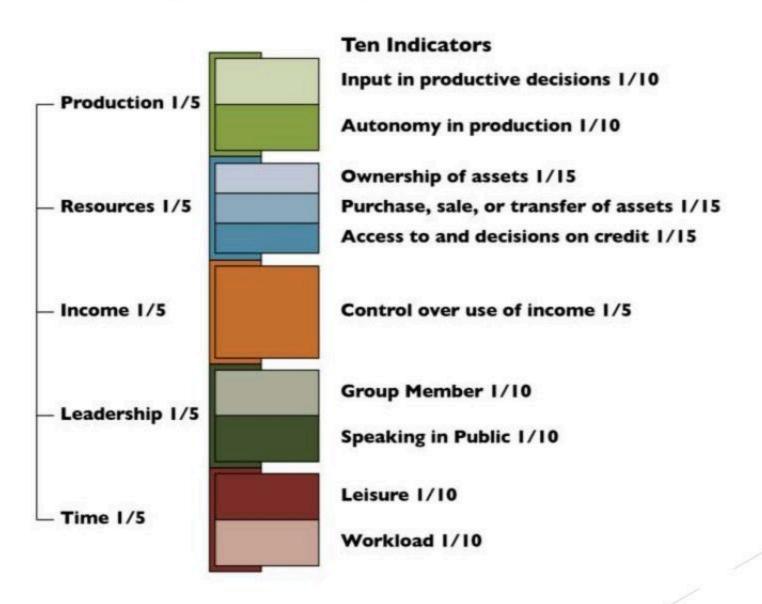




IDENTIFYING DOMAINS OF EMPOWERMENT



Original WEAI: 5 domains





How WE(AI) define empowerment





Three types of agency measured in all versions of the WEAI

Power within (intrinsic agency)

Power to (instrumental agency)

Power with (collective agency)



Three domains of empowerment

Power within (intrinsic agency)

Power to (instrumental agency)

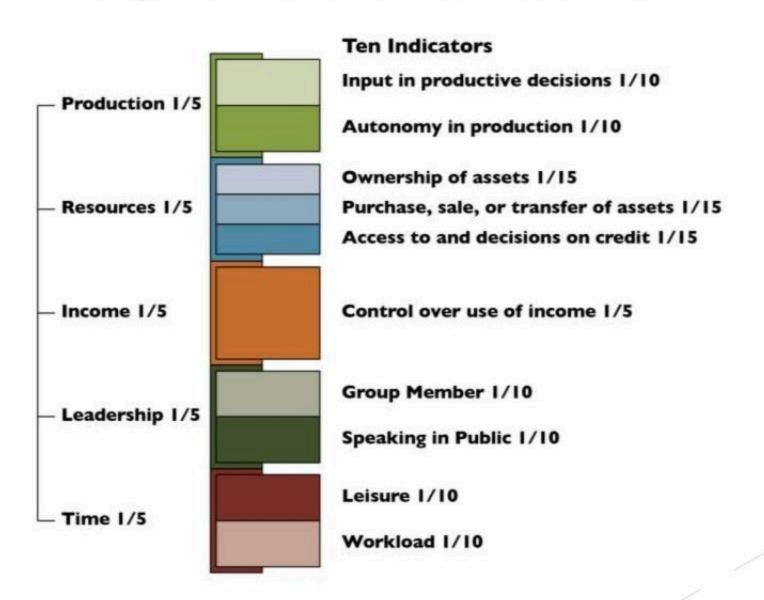
Power with (collective agency)



DEVELOPING INDICATORS OF EMPOWERMENT



Original WEAI: 10 indicators





Draft indicators

A-WEAI indicators

Input in productive decisions

Ownership of assets

Access to and decisions on credit

Control over use of income

Group membership

Workload



Draft indicators

New indicators
Access to information
Autonomy in production
Autonomy in income
Decision-making over land
Responsibility for repayment
Access to a financial account
Input in decisions about outputs
Input in group decision-making
Membership in influential groups
Ability to visit important locations
Respect among household members
Attitudes about domestic violence



Pilot data from the GAAP2 projects

Project	Country	# of women	# of men
ANGeL	Bangladesh	3,917	3,606
AVC	Bangladesh	501	499
FAARM	Bangladesh	287	284
Grameen	Burkina Faso	380	380
Heifer	Nepal	879	844
iDE	Ghana	671	442
JP-RWEE	Ethiopia	751	631
SE LEVER	Burkina Faso	1,777	1,565
TRAIN	Bangladesh	5,040	4,783
Trias	Tanzania	790	228
WINGS	India	1,837	1,368
WorldVeg	Mali	714	694
TC	TAL	17,544	15,324



Choosing indicators and assessing indicator thresholds

- Compare several potential indicator thresholds using pilot data
- Check percentage of missing data for each indicator
- Look at correlations and redundancy between indicators
- Discuss dilemmas with GAAP2 team, projects, and partners
- REPEAT



How much decision-making power about income gives someone adequate "control over use of income"?

Should we include control over agricultural outputs?



At least some input in	Income (%)		
decisions	Female	Male	
Staple grain	82	95	
Horticultural/high value crops	78	89	
Large livestock	79	92	
Small livestock	84	93	
Poultry/small animals	87	84	
Fishpond	64	89	
Non-farm economic activities	88	96	
Wage and salary employment	89	99	



At least some input in	Income (%)		Output (%)	
decisions	Female	Male	Female	Male
Staple grain	82	95	86	98
Horticultural/high value crops	78	89	85	97
Large livestock	79	92	84	95
Small livestock	84	93	87	94
Poultry/small animals	87	84	91	87
Fishpond	64	89	79	97
Non-farm economic activities	88	96	N/A	N/A
Wage and salary employment	89	99	N/A	N/A



	% adequate		
Potential indicator definitions	Women	Men	
At least some input in decisions about INCOME from at least ONE activity	91	99	
At least some input in decisions about INCOME and OUTPUTS from at least ONE activity	91	99	



	% adequate		
Potential indicator definitions	Women	Men	
At least some input in decisions about INCOME from at least ONE activity	91	99	
At least some input in decisions about INCOME and OUTPUTS from at least ONE activity	91	99	
At least some input in decisions about INCOME from at least TWO activities	72	86	
At least some input in decisions about INCOME and OUTPUTS from at least TWO activities	71	86	



	% adequate		
Potential indicator definitions	Women	Men	
At least some input in decisions about INCOME from at least ONE activity	91	99	
At least some input in decisions about INCOME and OUTPUTS from at least ONE activity	91	99	
At least some input in decisions about INCOME from at least TWO activities	72	86	
At least some input in decisions about INCOME and OUTPUTS from at least TWO activities	71	86	
At least some input in decisions about income from ALL ACTIVITIES in which they participate	72	82	

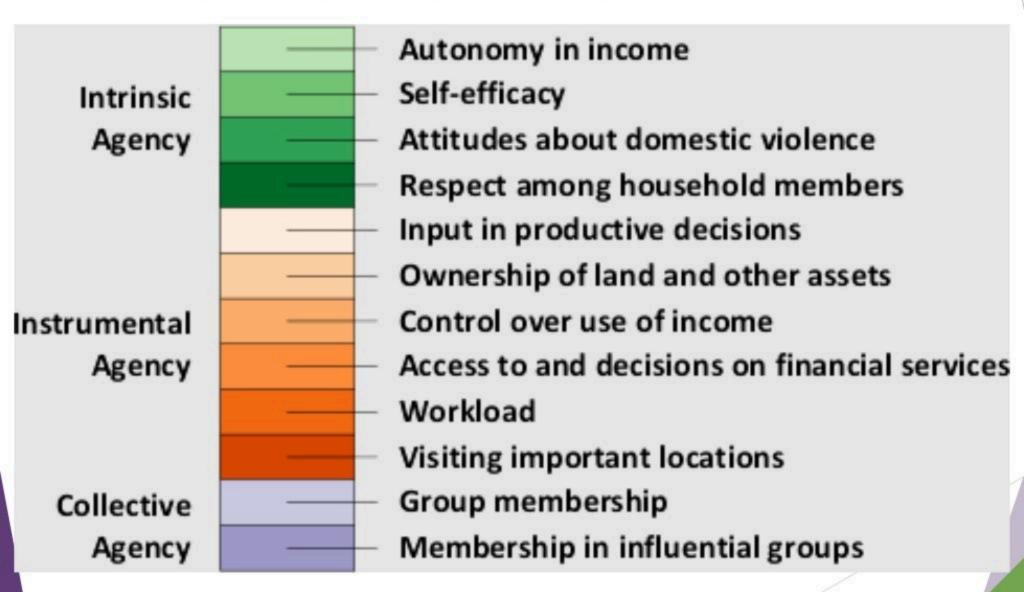


[Updated] draft indicators

A-WEAI indicators	New indicators
Input in productive decisions	Access to information
Ownership of assets	Autonomy in production
Access to and decisions on credit financial services	Autonomy in income
Control over use of income	Decision-making over land
Group membership	Responsibility for repayment
Work load balance	Access to a financial account
	Input in decisions about outputs
	Input in group decision-making
	Membership in influential groups
	Ability to visit important locations
	Respect among household members
	Attitudes about domestic violence
	Self-efficacy



12 indicators of empowerment

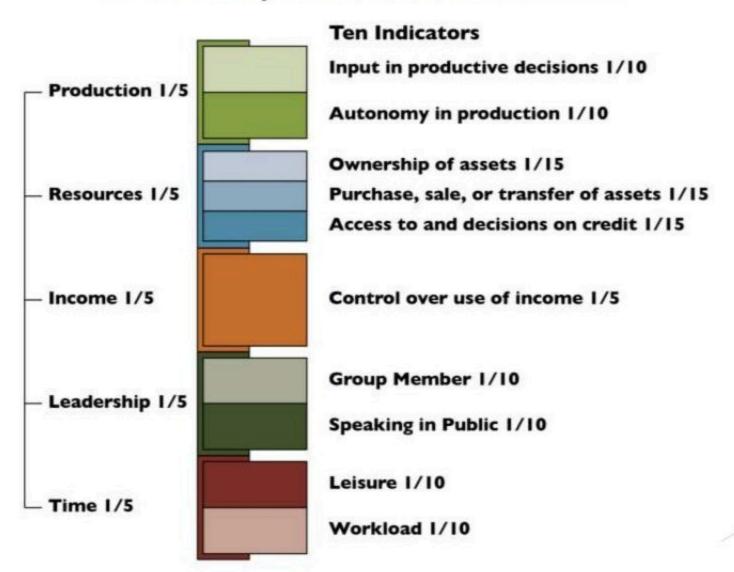




SELECTING CUTOFFS AND WEIGHTS

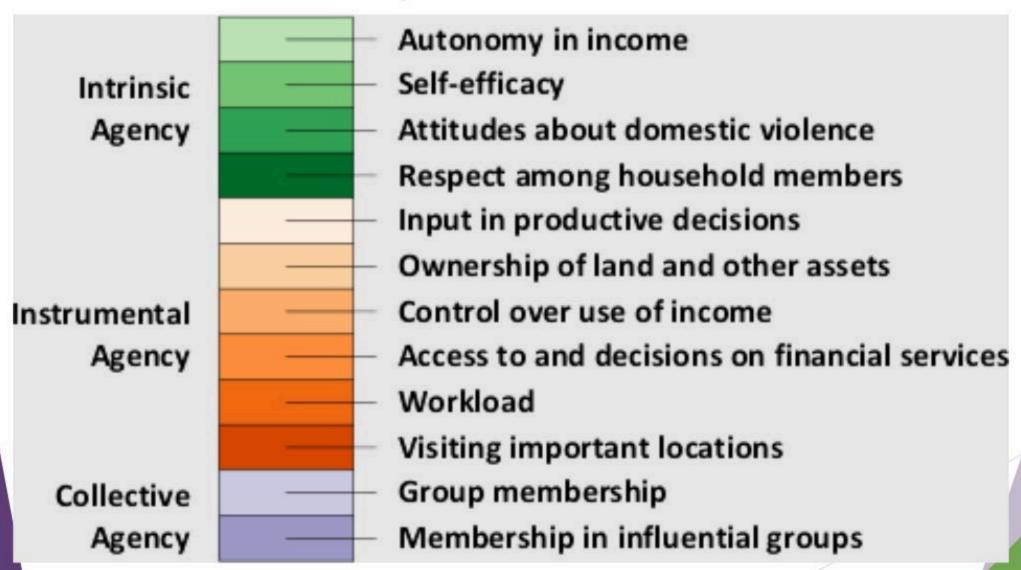


Original WEAI: Equal weights by domain, 80% empowerment cutoff





Pro-WEAI: Equal weights (1/12), 75% empowerment cutoff





Rank robustness testing

	Three domains of empowerment score (3DE) at each empowerment cutoff					
Project	75%	70%	65%	60%	55%	50%
WorldVeg/Female	0.50	0.50	0.53	0.53	0.61	0.71
AVC/Female	0.52	0.52	0.56	0.56	0.64	0.71
SE LEVER/Female	0.53	0.53	0.56	0.56	0.64	0.76
TRAIN/Female	0.60	0.60	0.66	0.66	0.73	0.81
ANGeL/Female	0.65	0.65	0.72	0.72	0.80	0.88
AVC/Male	0.70	0.70	0.78	0.78	0.87	0.93
SE LEVER/Male	0.74	0.74	0.82	0.82	0.89	0.95
TRAIN/Male	0.75	0.75	0.84	0.84	0.92	0.97
ANGeL/Male	0.76	0.76	0.85	0.85	0.93	0.97
WorldVeg/Male	0.83	0.83	0.91	0.91	0.97	0.99



Rank robustness testing

	Rank of projects' 3DE score at each empowerment cutoff					
Project	75%	70%	65%	60%	55%	50%
WorldVeg/Female	1	1	1	1	1	1
AVC/Female	2	2	2	2	2	2
SE LEVER/Female	3	3	3	3	3	3
TRAIN/Female	4	4	4	4	4	4
ANGeL/Female	5	5	5	5	5	5
AVC/Male	6	6	6	6	6	6
SE LEVER/Male	7	7	7	7	7	7
TRAIN/Male	8	8	8	8	8	8
ANGeL/Male	9	9	9	9	9	9
WorldVeg/Male	10	10	10	10	10	10



A WORK IN PROGRESS



What is next for the index?

IMPROVING THE DRAFT INDICATORS

Cognitive testing

New Survey items



Psychometric analysis



TESTING PRO-WEAI FOR IMPACT EVALUATION



Mobility

Current indicator:

Visits a family members, markets, or urban areas at least once per week OR visited health centers or community meetings at least once per month





Thank you!

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GAAP2 collaborators: International Food Policy Research Institute

Oxford Poverty and Human Development Initiative 13 agricultural development projects in the GAAP2

portfolio

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