

Table 4. Top-ranked actor entities in the pre-policy synthesized evidence network based on weighted degree (2013–2018). Actor entities were ranked in descending order of weighted degree, representing the cumulative strength of their documented interactions in the synthesized evidence network. The table presents the top 15 rank positions, with all actor entities sharing a rank retained, resulting in 35 actor entities with weighted-degree values ranging from 59 to 8. The Helix column identifies the QHF category: Government, University, Industry, or Community, to which each actor entity was assigned. The full node-level network attributes for all 170 nodes are provided in Supplementary Information S2.

Rank*	Actor Entity	Helix	Weighted degree
1	University of the Philippines Diliman	University	59
2	Smallholder vegetable farmers	Community	30
3	Municipal and Barangay Councils of Sarangani Bay	Government	21
4	Food and Drug Administration (Philippines)	Government	20
5	Tourism and hospitality students	Community	19
6	Community-Based Organizations in Sarangani Bay (e.g. CAFIFAMCOMCMFO)	Community	18
7	Farmer clusters (29)	Community	16
	Philippine Normal University	University	16
	14 Other State Universities and Colleges / Higher Educational Institutes	University	16
8	Philippine Council for Agriculture, Aquatic, Forestry, and Natural Resources Research and Development	Government	15
	Students (AFNR Programs, 2nd-5th year)	Community	15
	Department of Science and Technology - Philippine Council for Industry, Energy and Emerging Technology Research and Development	Government	15
9	CSU Phil-LiDAR 1 Project	University	14
10	Lyceum of the Philippines University	University	13
	Department of Science and Technology	Government	13
11	Government Port Authorities (10 Major Ports)	Government	12
	BSBT Pre-Service Teachers	Community	12
	LEGATO Consortium of 21 Research Institutions	University	12
12	Bureau of Fisheries and Aquatic Resources	Government	11
13	Commission on Higher Education	Government	10
	Fifteen (15) State Universities and Colleges / HEIs	University	10
	National Governments (Indonesia, Thailand, Bangladesh, Sri Lanka, India)	Government	10
	Barangay Fisheries and Aquatic Resources Management Council Members (30)	Community	10
	Municipal Governments of Lavezares, Rosario, Laoang, and Pambujan	Government	10
14	University of the Philippines Mindanao	University	9
	Philippine Council for Industry, Energy, and Emerging Technology Research and Development	Government	9

	Philippine National REDD+ Strategy	Government	9
	Research Team	University	9
	Smallholder Mudcrab Growers (60 participants)	Community	9
	De La Salle University (Philippines)	University	9
15	Western Mindanao State University	University	8
	Department of Environment and Natural Resources	Government	8
	National University of Singapore	University	8
	University of the Philippines	University	8
	Non-Governmental Organizations	Community	8

**Actor entities were ranked in descending order of weighted degree. The top-15 cutoff was defined by rank position, with all actor entities sharing a rank retained, resulting in 35 actor entities.*