

APPENDIX III – DETAILED ANALYSIS OF RESEARCH FOCI IN ASEAN+3

Table 1. Marine plastics research foci within the ASEAN+3 member states, where a total of 10 clusters of research foci have been identified. Legend: Red = 0 articles; Yellow = 1-9 articles; Light-green = 10-20 articles; Dark-green = >20 articles.

Clustered Research Focus	BRN	KHM	IDN	MYS	MMR	PHL	SGP	THA	VNM	CHN	ROK	JPN	Total
Methodology for marine plastic clean-up + Methodology for monitoring + Survey and monitoring	1	2	48	29	3	8	7	7	3	79	32	20	239
Ecological and environmental impact	1	0	12	9	1	12	9	7	3	38	11	14	117
Contaminants associated with marine plastics	0	0	0	1	0	0	1	0	1	40	17	12	72
Movement of plastics in water bodies + Accumulation zones and hotspots + Contribution from rivers + Source differentiation	1	0	14	5	1	2	0	1	3	11	5	17	60
Socio-economic impact	1	0	8	6	0	9	0	3	2	14	5	1	49
Research framework, coordination + Laws, administrative measures + Guidelines and standards	0	1	6	2	1	4	0	3	1	1	6	1	27
Upstream research/waste management	0	0	2	2	0	2	0	0	0	5	4	1	16
Contribution from ALDFG + Discharge from offshore structures (incl. aquaculture)	0	0	2	1	0	0	0	1	0	1	8	3	16
Social perception + Public outreach/beach clean-up	0	0	8	2	0	2	0	0	0	0	2	3	17
Fragmentation and degradation	0	0	1	0	0	2	0	0	1	3	6	2	15
Number of clustered research foci per country	4	2	9	9	4	8	3	6	7	9	10	10	10

Table 2. A further examination of Table 1 above in presenting the percentages (rounded to the nearest 3.s.f) of articles in each clustered research out of total papers published in the country. Highlighting of numbers done for countries with more than 10 papers including Indonesia, Malaysia, Philippines, China, RO Korea and Japan. Legend: Light-green = research foci constitutes for <50% of all research done in the country; Dark-green = research foci constitutes for >50% of all research done in the country.

Clustered Research Focus	BRN	KHM	IDN	MYS	MMR	PHL	SGP	THA	VNM	CHN	ROK	JPN
Methodology for marine plastic clean-up + Methodology for monitoring + Survey and monitoring	100	66.7	78.7	80.6	60.0	57.1	77.8	87.5	75.0	60.9	47.8	66.7
Ecological and environmental impact	100	0.00	19.7	25.0	20.0	85.7	100	87.5	75.0	29.7	16.4	46.7
Contaminants associated with marine plastics	0.00	0.00	0.00	2.78	0.00	0.00	11.1	0.00	25.0	31.3	25.4	40.0
Movement of plastics in water bodies + Accumulation zones and hotspots + Contribution from rivers + Source differentiation	100	0.00	21.3	13.9	20.0	14.3	0.00	12.5	75.0	8.59	7.46	56.7
Socio-economic impact	100	0.00	13.1	16.7	0.00	64.3	0.00	37.5	50.0	10.9	7.46	3.33
Research framework, coordination + Laws, administrative measures + Guidelines and standards	0.00	33.3	9.84	5.56	20.0	21.4	0.00	25.0	25.0	0.78	8.96	3.33
Upstream research/waste management	0.00	0.00	3.28	5.56	0.00	14.3	0.00	0.00	0.00	3.91	5.97	3.33
Contribution from fisheries/ALDFG + Discharge from offshore infrastructures (incl. aquaculture)	0.00	0.00	3.28	2.78	0.00	0.00	0.00	12.5	0.00	0.78	11.9	10.0
Social perception + Public outreach/beach clean-up	0.00	0.00	9.84	5.56	0.00	14.3	0.00	0.00	0.00	0.00	2.99	10.0
Fragmentation and degradation	0.00	0.00	1.64	0.00	0.00	14.3	0.00	0.00	25.0	2.34	8.96	6.67
Excluded from analysis												
Port reception facilities	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Fibreglass-reinforced plastic vessels	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.49	0.00
Hull scraping and marine coating	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Language and cultural barriers/data accessibility	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00