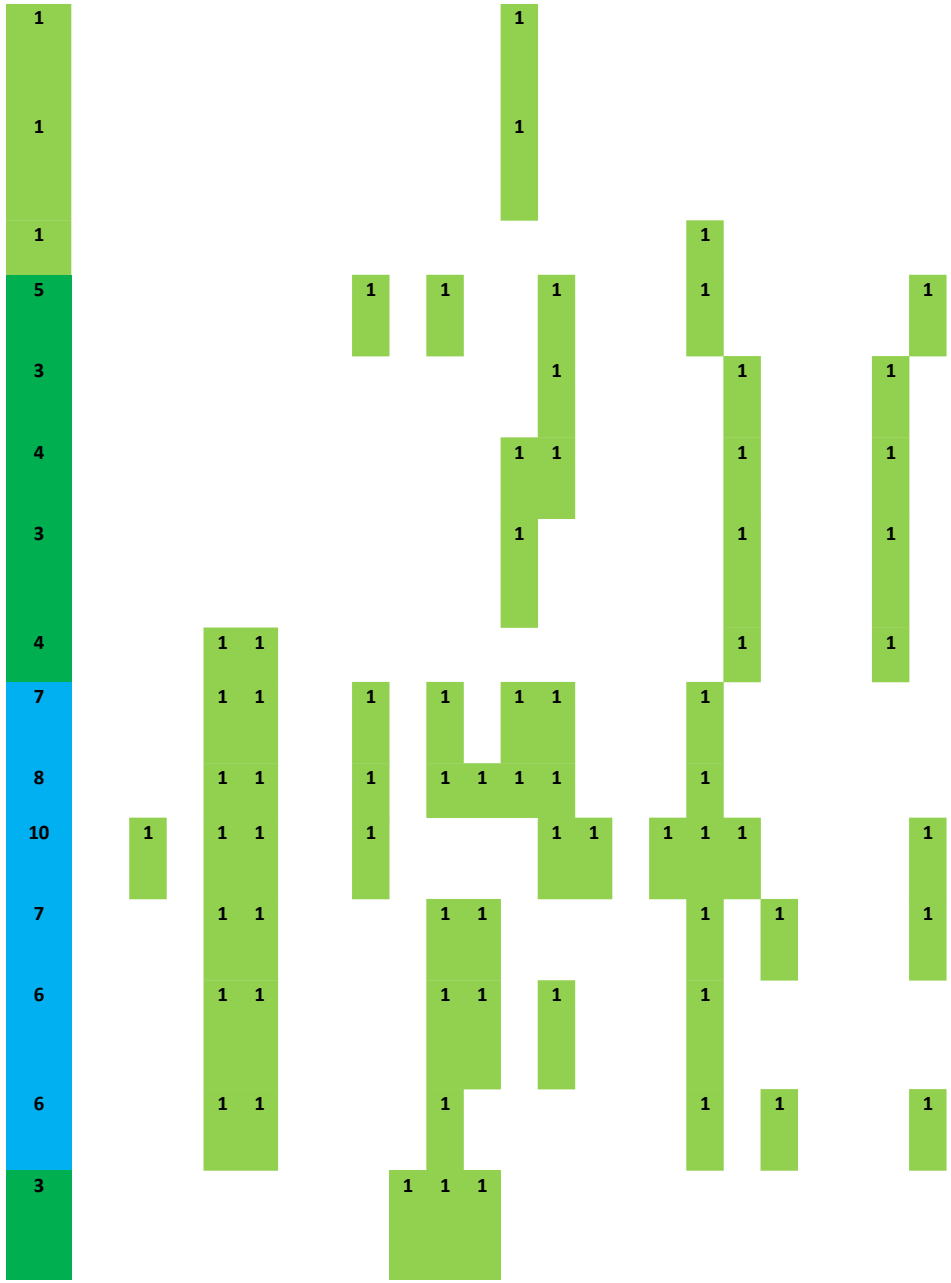
ID	THEME	Subtheme	QUESTION	WPs Total	A1	A2	A3	A4	A5	A6	B1	B2	B3	B4	B5	B6	C1	C2	C3	C4	C5	D1	D2	D3	D4	D5
Na1	Nature	Offshore wind and nature	What are suitable and unsuitable locations for offshore wind farms from an ecological perspective (after 2030)?	6							1	1	1	1		1										1
Na2	Nature	Offshore wind and nature	Can a choice for offshore wind farms in areas with valuable benthos lead to ecological benefits if these areas are closed for fisheries?	4									1	1		1										1
Na3	Nature	Offshore wind and nature	Can an offshore wind farm be located in a nature reserve? Where, and under what conditions, and where is that not possible?	7							1		1	1	1					1		1				1
Na4	Nature	Offshore wind and nature	For which species and habitats the increase of offshore wind until 2030 will run into boundaries?	2											1					1						
Na5	Nature	Offshore wind and nature	Which measures can be taken nationally and internationally to effectively maintain, restore and / or strengthen these species and habitats?	5									1		1	1				1		1				
Na6	Nature	Offshore wind and nature	What role can building with nature fulfil in strengthening nature and compensating the negative effects of offshore wind? What are the costs and benefits of various possibilities?	5								1		1	1	1						1				
Na7	Nature	Offshore wind and nature	Which compensation options can be developed?	4								1	1							1		1				
Na8	Nature	Offshore wind and nature	Which innovations can ensure that more power can be installed on the North Sea? What are the costs and benefits of this?	4	1		1	1															1			
Na9	Nature	Offshore wind and nature	Where does the combination of mitigation and population recovery take us? For successful population recovery, research is needed into the possibilities of tackling the greatest threats in the entire life cycle of vulnerable species (in breeding, foraging, migration and wintering areas).	3									1	1								1				
Na10	Nature	Offshore wind and nature	Which other activities on the North Sea have, besides offshore wind, an impact on vulnerable species? Can these activities be more easily mitigated? Can accumulation records be used to keep track of activities that exert pressure on the same vulnerable species?	3											1	1				1						
Na11	Nature	Offshore wind and nature	How can nature enhancement be included and weighed in the conditions for tenders for offshore wind plots?	2	1								1													
Na12	Nature	Offshore wind and nature	What are the consequences, for the ecosystem and the hydromorphological system of the North Sea, of a large-scale increase of offshore wind? How can the positive and / or negative effects be made qualitative, quantitative and possibly monetized? And how can this information be evaluated? What are promising mitigating measures? And is mitigation (cost) effective and efficient?	8			1	1			1	1	1		1					1						1
Na13	Nature	Offshore wind and nature	What is the carrying capacity of the North Sea for the offshore wind function? When is the effect on wind fields limiting?	3			1	1			1															
Na14	Nature	Offshore wind and nature	What is the effect of offshore wind farms on the carrying capacity of the ecological system (primary, secondary and tertiary production)	9			1	1			1	1	1	1	1	1				1						

Na15	Nature	Offshore wind and nature	In the case of a large-scale increase, also areas in the Northern North Sea have to be studied: are all vulnerable species on the radar, or are there new species for which the ecological limits are approaching?	1
Na16	Nature	Offshore wind and nature	Does the large-scale increase of offshore wind increase the exchange between populations of indigenous species? And what does scaling up mean for the distribution/dispersion of invasive species?	1
Na17	Nature	Cumulative effects of pressures	Which methodologies to assess cumulative effects are suitable to integrate in policy making?	1
Na18	Nature	Cumulative effects of pressures	Which species and habitats are under pressure from the accumulation of anthropogenic pressure factors, including climate change, in the (medium and) long term?	5
Na19	Nature	Cumulative effects of pressures	Is it possible to develop a natural capital accounting methodology for the North Sea that enables to provide an overview of the supply of ecosystem services by the marine environment?	3
Na20	Nature	Cumulative effects of pressures	With such a system, can a better balance be achieved between the use of the North Sea by economic sectors and the value of ecosystem services of the North Sea?	4
Na21	Nature	Cumulative effects of pressures	Natural capital accounts establish a link between ecological and economic information. How can natural capital accounts make a concrete contribution to answer the questions about cumulative effects?	3
Na22	Nature	Cumulative effects of pressures	What socio-economic impact has the accumulation of pressure factors on the sectors and other users of the sea?	4
Na23	Nature	Future knowledge needs	What are the effects of the energy, food and nature transitions on the North Sea for the lower trophic levels of the food web of the North Sea? What are the effects of other activities?	7
Na24	Nature	Future knowledge needs	How do impacts on the lower trophic levels pass through to the higher trophic levels; which knowledge gaps can be identified?	8
Na25	Nature	Future knowledge needs	What is the carrying capacity of the North Sea for the activities and spatial uses that are associated with the energy and food transition?	10
Na26	Nature	Future knowledge needs	How and where can reference areas be set up and can this coincide with the designated marine protected areas, which conditions should then be met?	7
Na27	Nature	Future knowledge needs	Is there a real risk of such a change in biophysical processes in the North Sea that a tipping point or an irreversible situation will be reached? Can it be indicated when such a moment comes into view?	6
Na28	Nature	Future knowledge needs	How can the concept of resilience of the North Sea be operationalized? Is the system itself able to adapt and absorb changes. Can its resilience be increased? And if so, how?	6
Na29	Nature	Opportunities for restoration and development of nature	Prepare a map with opportunities for measures and pilots for nature restoration and development up to 2030. Also include search areas for new nature after 2030.	3



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	n	%
Total number of questions	115	100
Number of questions for which WPs deliver knowledge	101	88
Number of questions for which at least 3 WPs deliver knowledge	57	50
Number of questions for which at least 6 WPs deliver knowledge	18	16