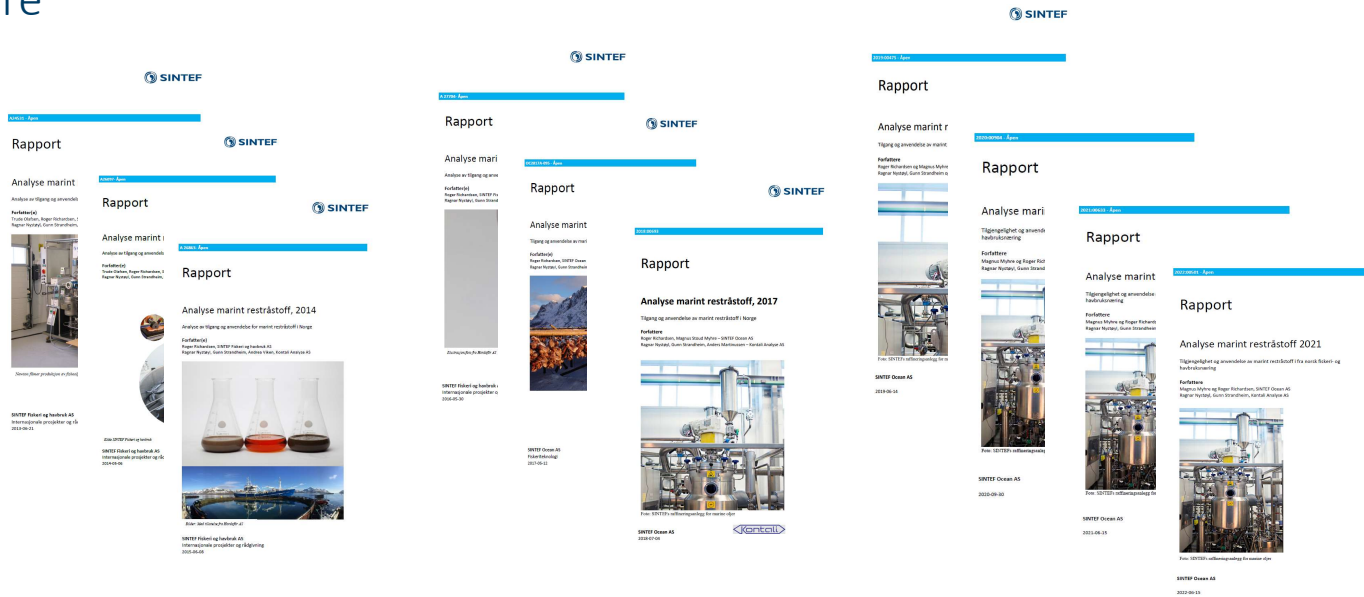




10 years mapping of marine rest raw material

Magnus Stoud Myhre
WEFTA, Rotterdam
20.10.2022





Utilization - historical development

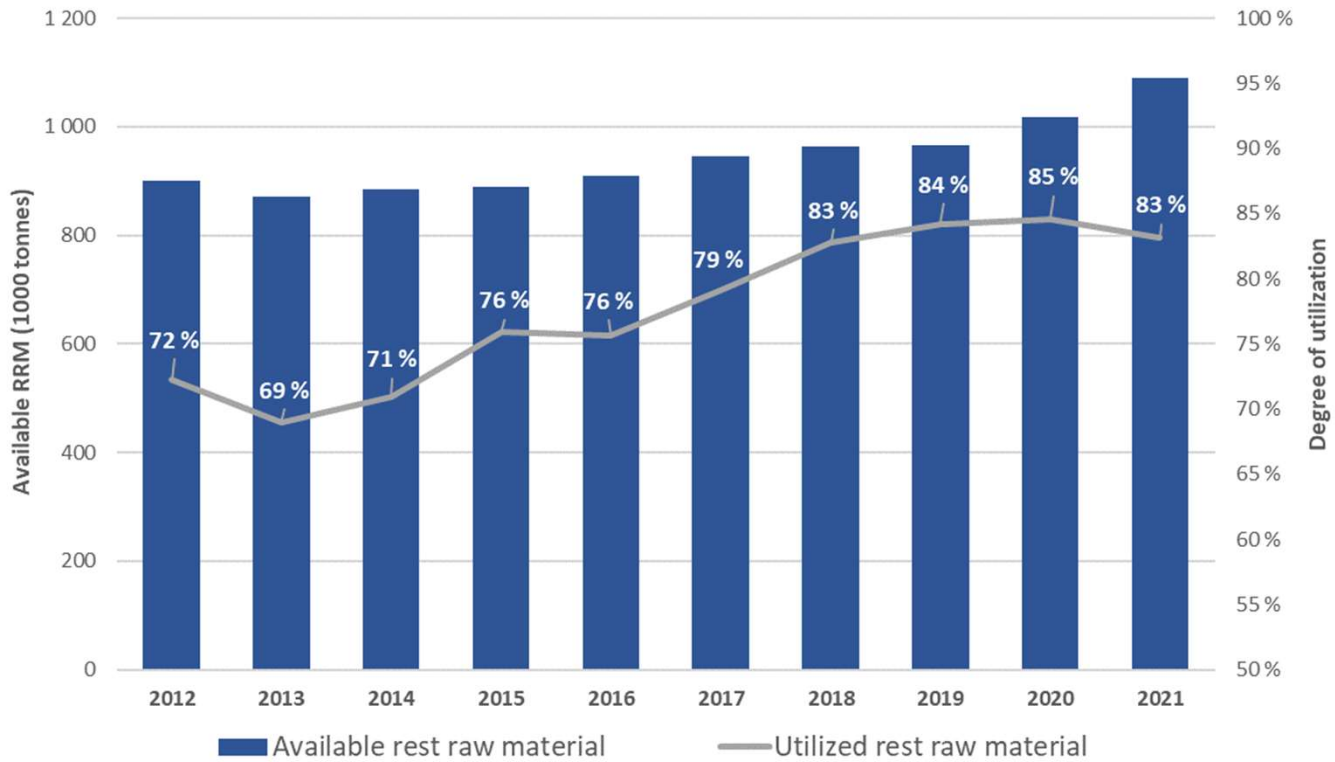


Photo: SINTEF Ocean / Magnus Myhre



Utilization demersal fish

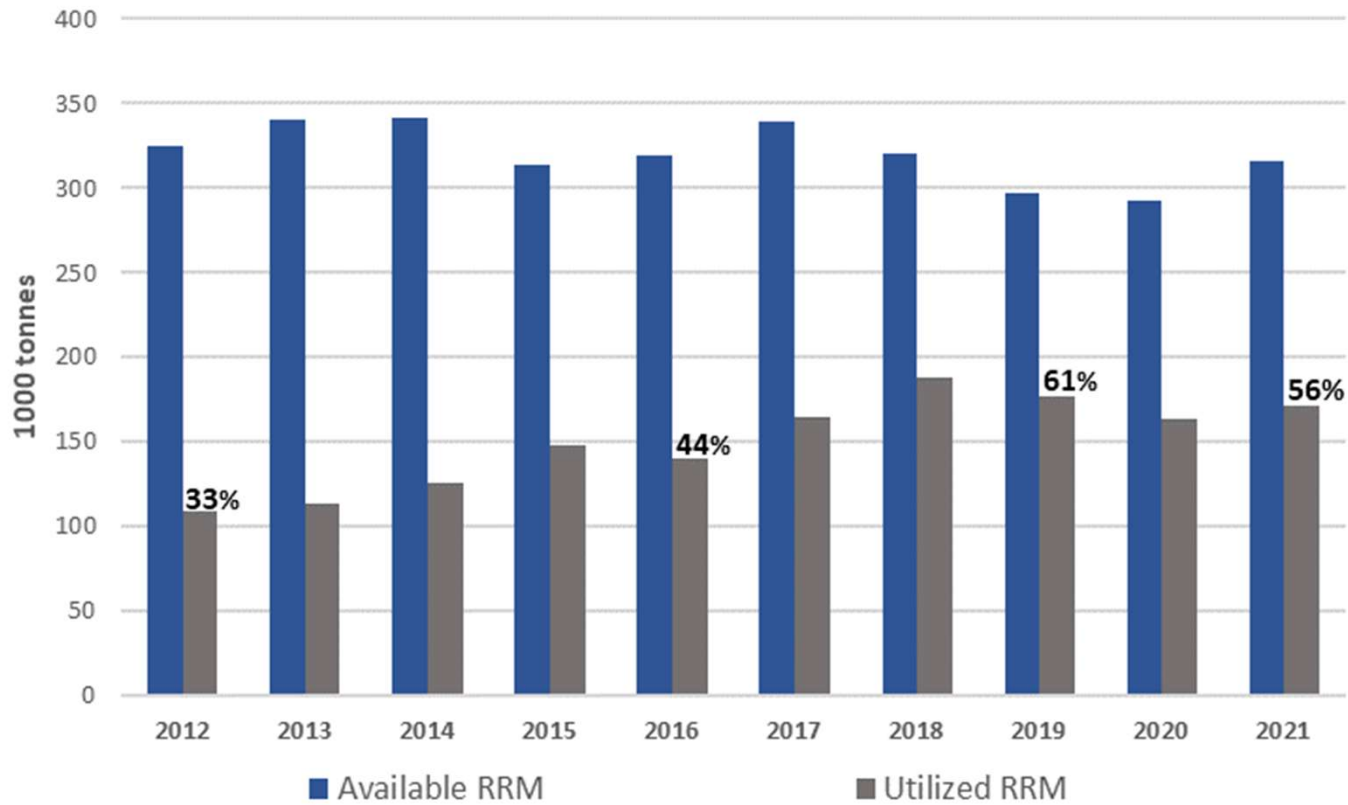
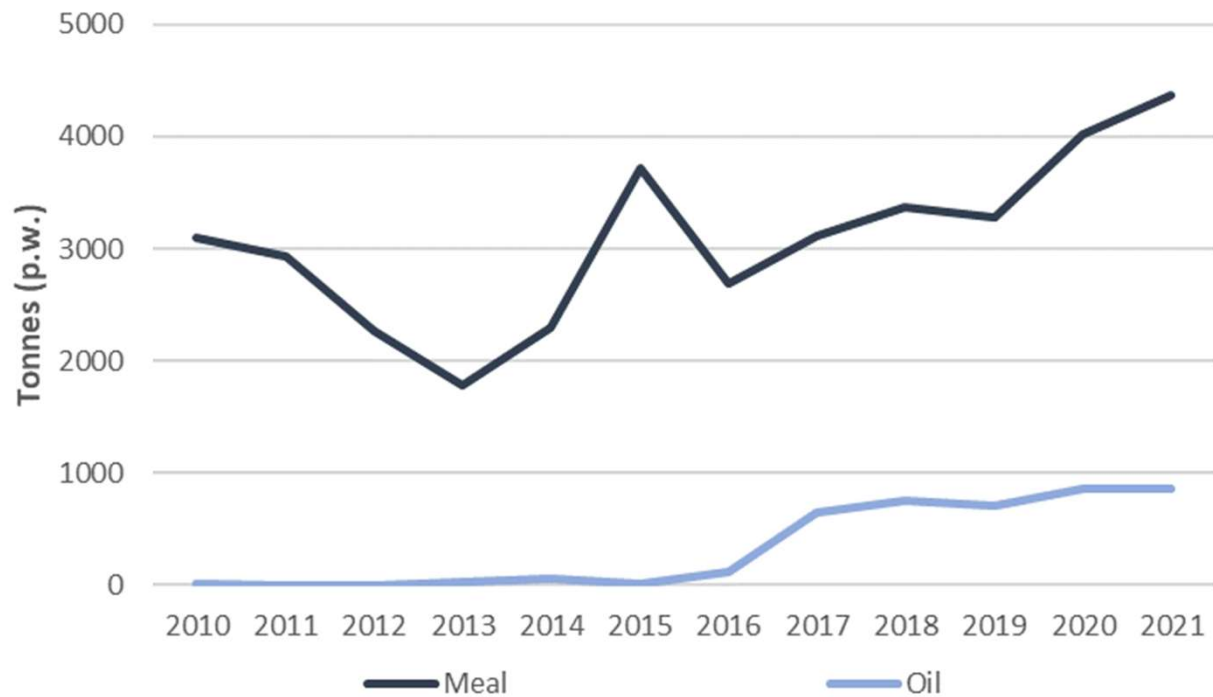


Photo: SINTEF Ocean / Jannicke Remme









Landings of fishmeal and fish oil



Source: Norwegian Directorate of Fisheries (2022)



Three main product categories

Product category	Level	Production / share	
		2012	2021
Human consumption Seafood products (direct) Cod-liver oil, proteins ++ (indirect)	Category 3  	38 000 t / 10 %	63 000 t / 13 %
Feed Fish feed, agriculture feed, pet feed, fur-animal feed	Category 3  Category 2  	294 000 t / 77 %	327 000 t / 67 %
Biogas	Category 2 	50 000 t / 13 %	99 000 t / 20 %



Non-utilized RRM – 2012 to 2021

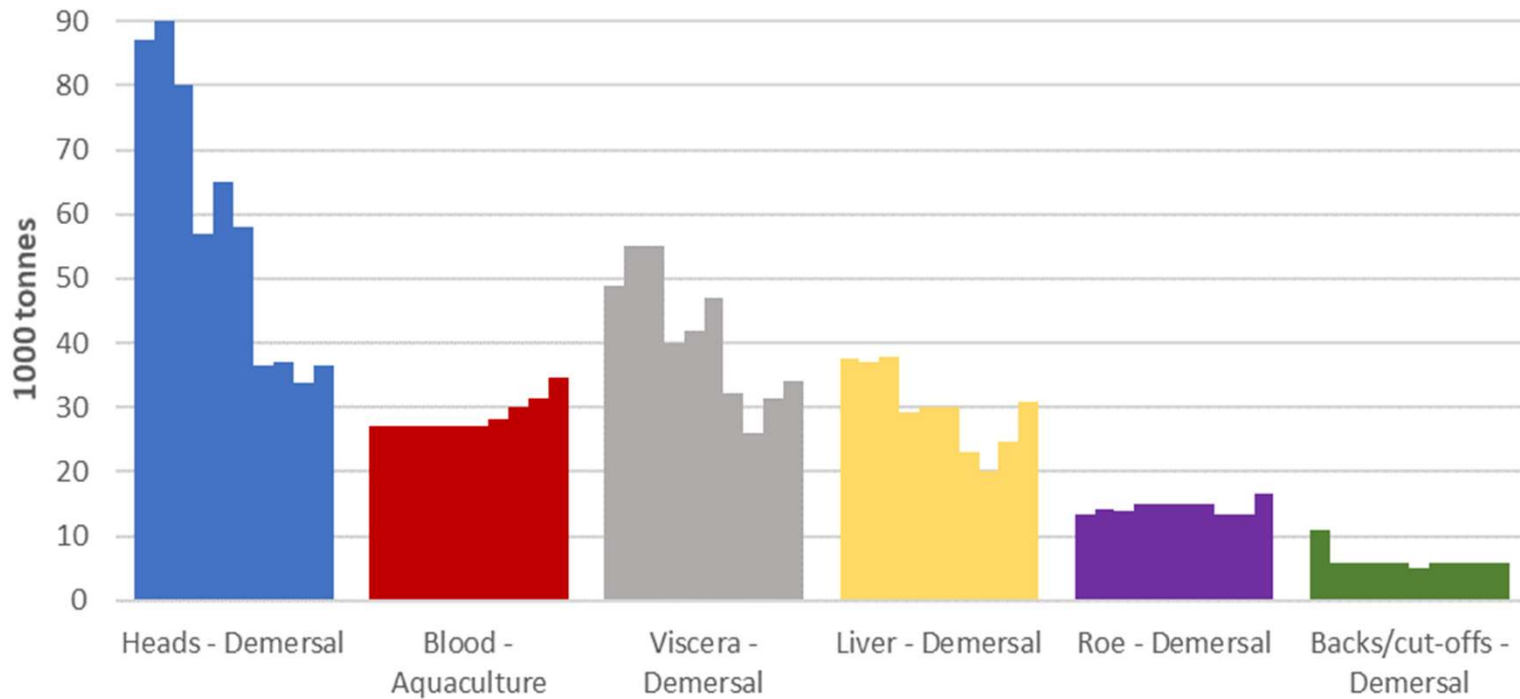


Photo: SINTEF Ocean / Magnus Myhre



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Teknologi for et bedre samfunn