

Title: **Capacity Measurement and Policy Simulation of Fishery Industry in Japan**

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Abstract: The expansion of fishing capacity is one of the most pressing problems facing many fisheries around the world. Excess capacity arises when a high number of vessels enter the fishery, and these vessels are employed to exploit the available fish stocks beyond a target level of yield. The lack or ineffectiveness of regulation and the lack of fully specified property rights of common property are essential to overcapacity problem. This study estimates the capacity of the region and provides a policy simulations such as quota or vessel control, regulations on fishing days, and discusses the implications of the results. We apply a nonparametric deterministic production technique to develop the measurements in Japan using unique country level data.