

The sustainable harvest of seafood from mariculture.

$x_{mar}$  is the status of the mariculture food provision sub-goal

$$x_{mar} = \frac{Y_c}{Y_{c, ref}}$$

$$Y_c = \left( \sum_{k=1}^N Y_k \times S_{k,r} \right) \left( \frac{1}{P_r} \right)$$

$Y_c$  the current sustainably-harvested yield within each country, per person within 25 miles of region's coast

$Y_k$  4-year moving average of tonnes of production for each  $k$  species at some time cultured within a country

$S_{k,r}$  is the sustainability score for each  $k$  mariculture species and region

$P_r$  is the population within 25 miles of the region's coast

$Y_{c, ref}$  is the  $Y_c$  value that corresponds to the 95th quantile across all regions and years

$N$  is the number of harvested mariculture species  $k$