

Target equation for each country k (which includes a set of pixels Π_k):

$$\sum_{i \in \Pi_k} x_i \sigma_i^C \leq T_k \quad (1)$$

where

$$\sigma_i^C = \sigma_i + \Delta \sigma_i^{1P} f_C \quad (2)$$

$$T_k = \Delta S_k + \Delta S_k^{1P} f_C - \Delta S_k^{1F} f_\delta \quad (3)$$

- x_i : variation of the fraction of pixel i that will be restored (positive) or deforested (negative). **Decision variable from optimizer**
- f_C : fraction of gap that is proposed to be closed. **Chosen by user**
- δ_C : fraction of gap that it is assumed to be closed on the future (it can be taken as 0).
- $\sigma_i, \Delta \sigma_i^{1P}$: maps that include suitability and yield ratio. **Output**
- $\Delta S_k, \Delta S_k^{1P}, \Delta S_k^{1F}$: targets magnitudes for each country. **Output**

f_C^{eq} is also given and it represents the minimum f_C necessary to avoid deforestation in case $f_\delta = 0$. If $f_C^{eq} \leq 0$, the country does not need to close any gap.