

$$\begin{aligned}
\text{Map}(m, w, s) &\stackrel{\text{def}}{=} 0 \leq s < S \wedge \\
&B(wS + s) \leq m < B(wS + s) + B \wedge \\
&\mu_x - B < B(wS + s) < \mu_x + \beta_x \alpha_x
\end{aligned} \tag{3}$$