\mathscr{P} mu_X: $\mathscr{P}(\mathscr{P}(\mathscr{P}X))$ $\longrightarrow \mathcal{P}(\mathcal{P}X)$ $\{\{\{a\},\{b\}\},\{\{c\},\{d\}\}\}\} \longmapsto \{\{a,b\},\{c,d\}\}\}$