

$$m: \mathfrak{g} \in \mathfrak{P} \rtimes G \rightarrow \mathfrak{P} \ni m \rtimes \mathfrak{g}$$

$$m: \gamma \in \mathfrak{P} \rtimes \mathfrak{g} \rightarrow \underline{\mathfrak{P}} \ni m \rtimes \gamma$$

$$\gamma \in \mathfrak{g} \rightarrow \mathcal{V}(\mathfrak{P}) \ni \rtimes \gamma$$