$$D_\Lambda \subset H_r \xrightarrow{\;\mathcal{G}_{\text{ext}}^\dagger\;} \Gamma \subset \tilde{\Gamma}$$

$$\mathcal{E} \downarrow \qquad \uparrow \qquad \downarrow \mathcal{R}$$

$$R^M \times R^M \xrightarrow{\;\;\mathcal{A}\;\;} R^P$$

The true map $\mathcal{G}_{\text{ext}}^\dagger$ is approximated by a composition of three maps, encoder $\mathcal{E}$, approximator $\mathcal{A}$, and reconstructor $\mathcal{R}$. The resultant error in the approximation thus comprises of the encoder, approximator, and reconstructor errors.