

$$\begin{aligned}
\text{dyn}_{(f \circ g) \circ h} : \mathbf{U}_f \times ((\mathbf{X}_f ; \mathbf{X}_g) ; \mathbf{X}_h) &\rightarrow (\mathbf{X}_f ; \mathbf{X}_g) ; \mathbf{X}_h \\
\langle u, [x_f ; x_g ; x_h] \rangle &\mapsto [\text{dyn}_{f \circ g}(u, [x_f ; x_g]) ; \text{dyn}_h(\text{ro}_{f \circ g}([x_f ; x_g]), x_h)] \\
&= [\text{dyn}_f(u, x_f) ; \text{dyn}_g(\text{ro}(x_f), x_g) ; \text{dyn}_h(\text{ro}_g(x_g), x_h)].
\end{aligned}$$