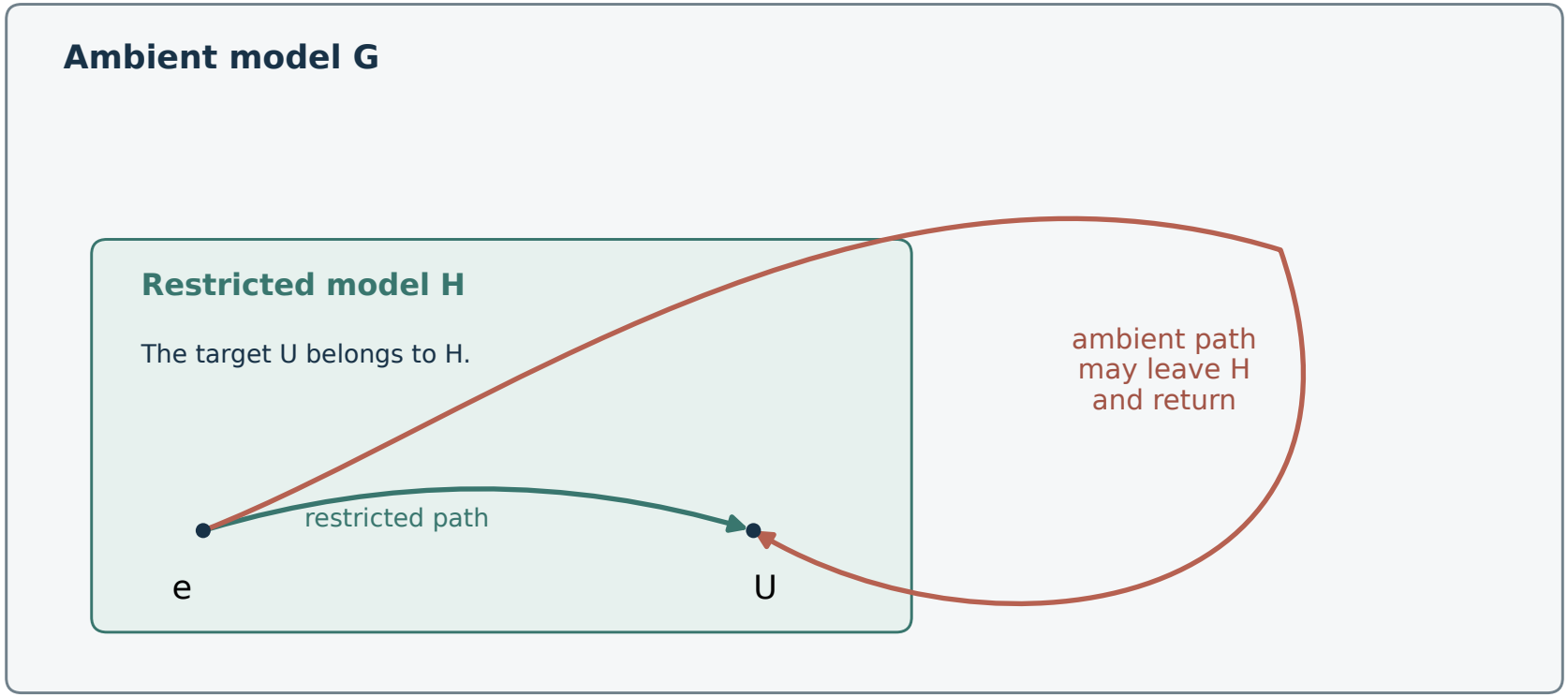


Nested gate alphabets and fixed costs give $\ell_{\mathrm{amb}}(U) \le \ell_{\mathrm{res}}(U)$.

Path geometry is schematic and does not measure gate count.