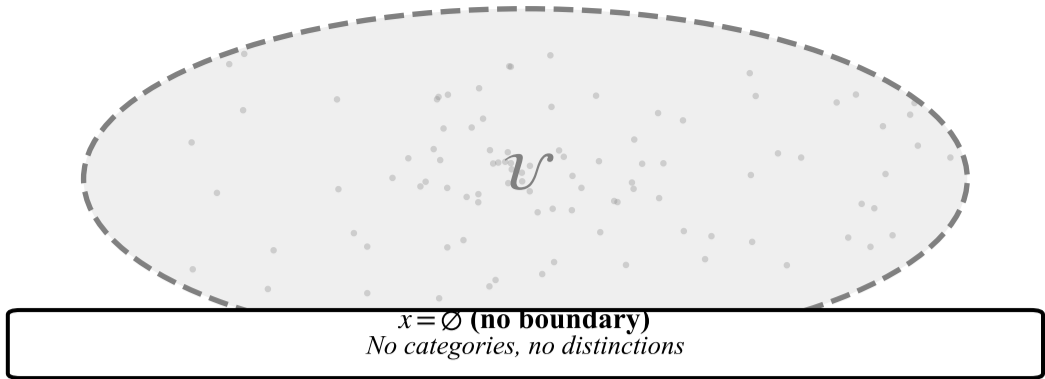
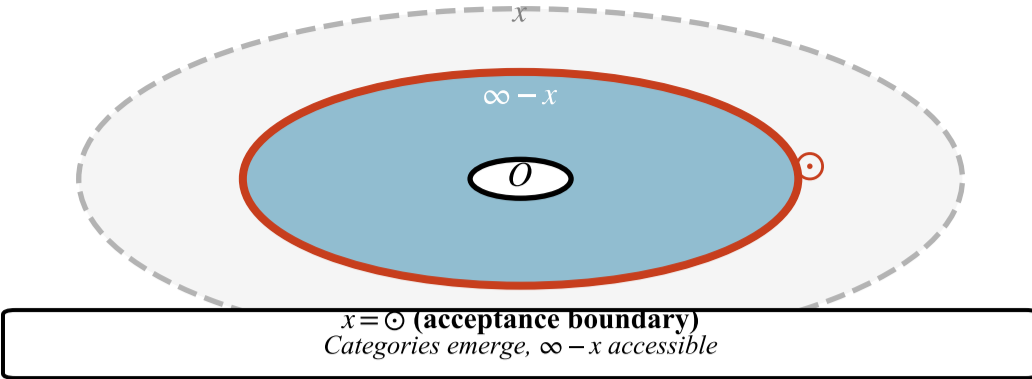


The Acceptance Boundary: Observer-Dependent Structure

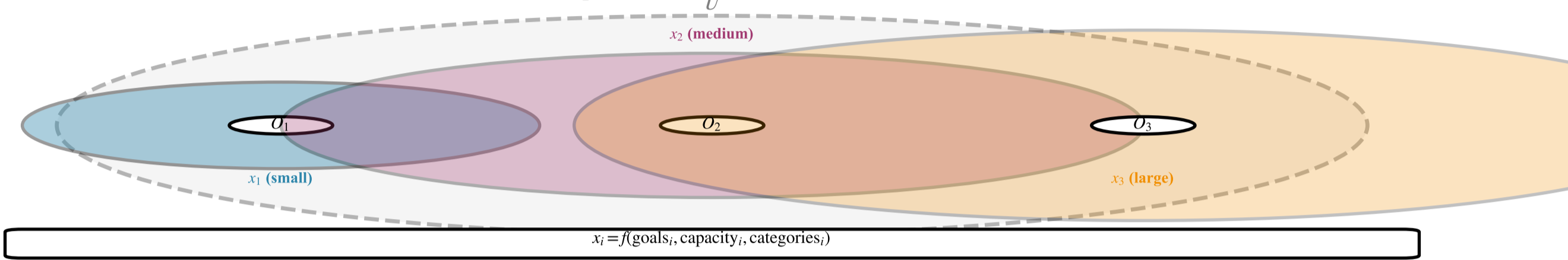
A. Universe (No Observer)



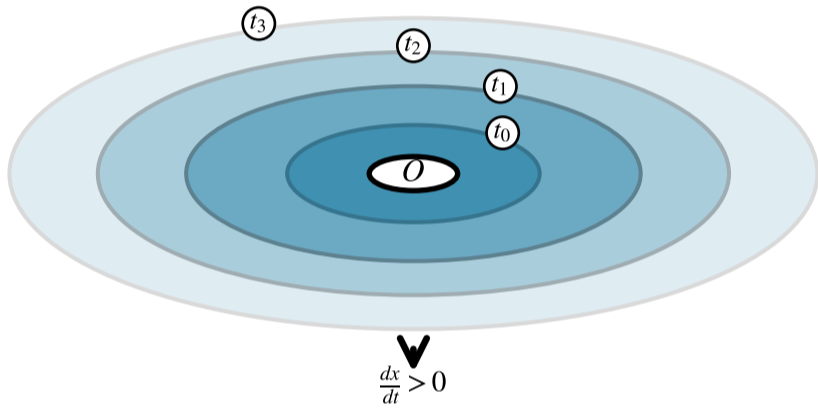
B. Universe + Observer



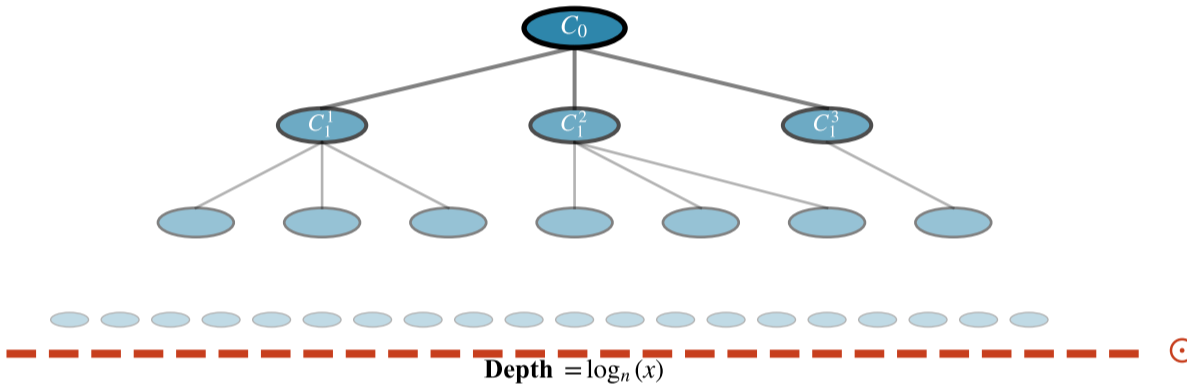
C. Multiple Observers, Different Boundaries



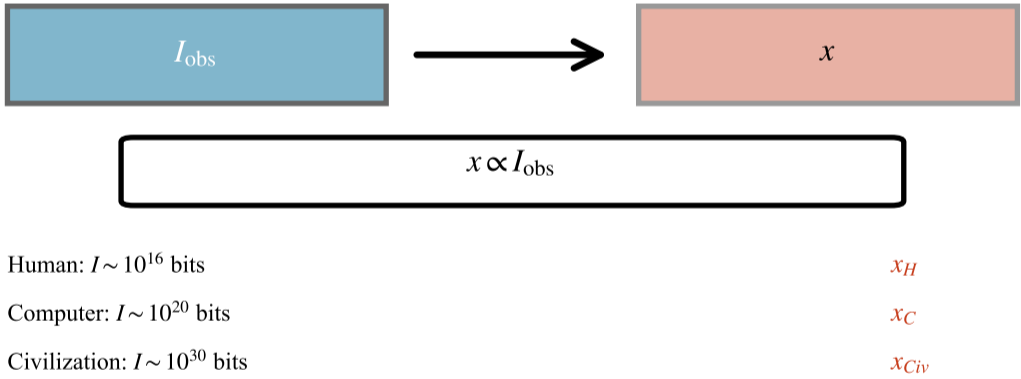
D. Boundary Evolution



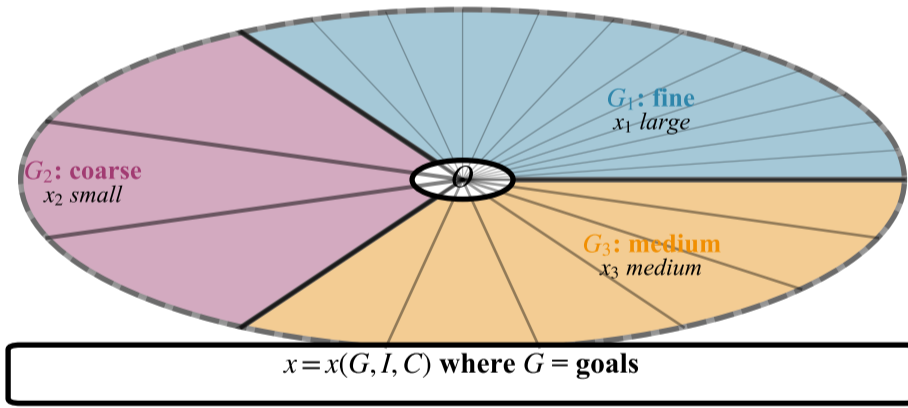
E. Categorical Depth



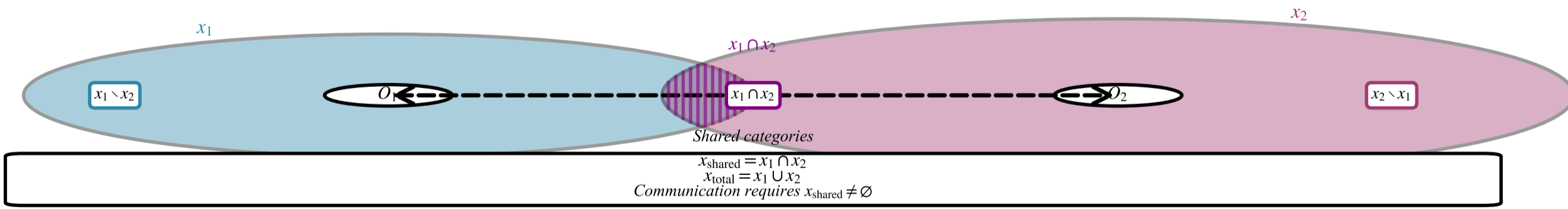
F. Information Capacity



G. Goal-Dependent Structure



H. Boundary Interactions



I. Mathematical Framework

Universe: \mathcal{U} (no inherent structure)

Observer: \mathcal{O} with goals G , capacity I

Categories: $\mathcal{C} = \{c_1, c_2, \dots, c_n\}$

Boundary: $\odot = \partial(\infty - x)$

Observable: $\infty - x = \{c \in \mathcal{C} : \mathcal{O} \text{ can access } c\}$

Inaccessible: $x = \mathcal{U} \setminus (\infty - x)$

Theorem: x is observer-dependent.

$x = x(\mathcal{O}) = f(G, I, C)$

Different observers \Rightarrow different boundaries \Rightarrow different ratios