

## Free Energy Principle



Biological systems minimise surprise by changing their model of the world or by acting on it.

## Predictive Coding



The brain generates and updates its prediction of sensory input at various levels of abstraction.

How priors affect online monitoring of environmental cues through neural hierarchy processing

## Markov Decision Process



How and What action choice happens with time horizon and behavioral goal

How priors shape action sequences on the environment through neural plasticity but no formal goal nor time horizon

## Sentinel



Online monitoring of environment

Incorporate past and future events with current behavioral goal  
no plasticity and no hierarchy

## Semantic



Exploration of mental scenarios





How?

What?

Sensory Input

Behavioral Consequences

### Legend :

-  Time horizon
-  Neural plasticity
-  Hierarchy
-  Behavioral goal