

World Model

Implicit Representations of the External World

Decision-
Making

Section 3.1

World
Knowledge

Section 3.2



Future Predictions of the Physical World

Video
Generation

Section 4.1

Embodied
Environment

Section 4.2

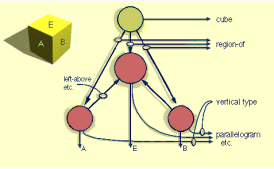
1943

Mental Model



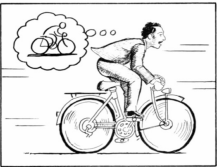
1974

*Frame System
Theory*



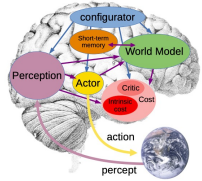
2018

*World Models
mental model*



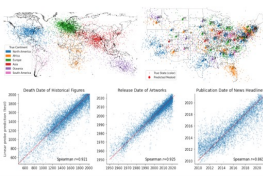
2022

*JEPA-perception
and reasoning*



2023.10

*World Knowledge
in LLM*



2024.02

Sora



2024.09

World Labs



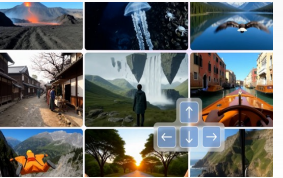
2025.06

WorldScape

DriveScape
RoboScape
AirScape

2025.08

Genie 3



Virtual

Game
Intelligence

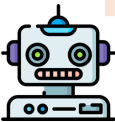
Section 5.1

Applications

Physical

Embodied
Intelligence

Section 5.2



Urban
Intelligence

Section 5.3



Societal

Societal
Intelligence

Section 5.4

