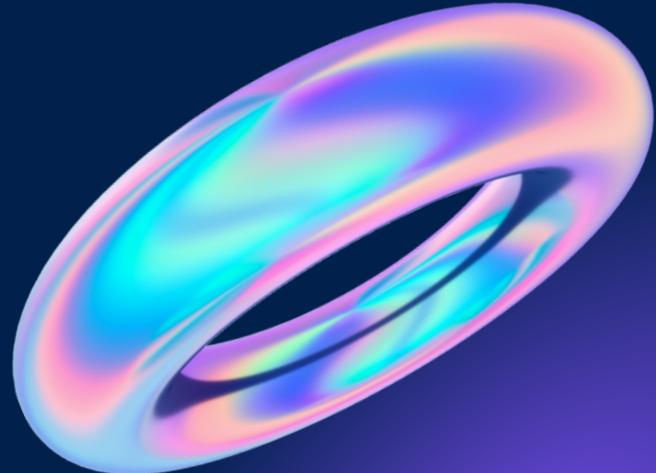
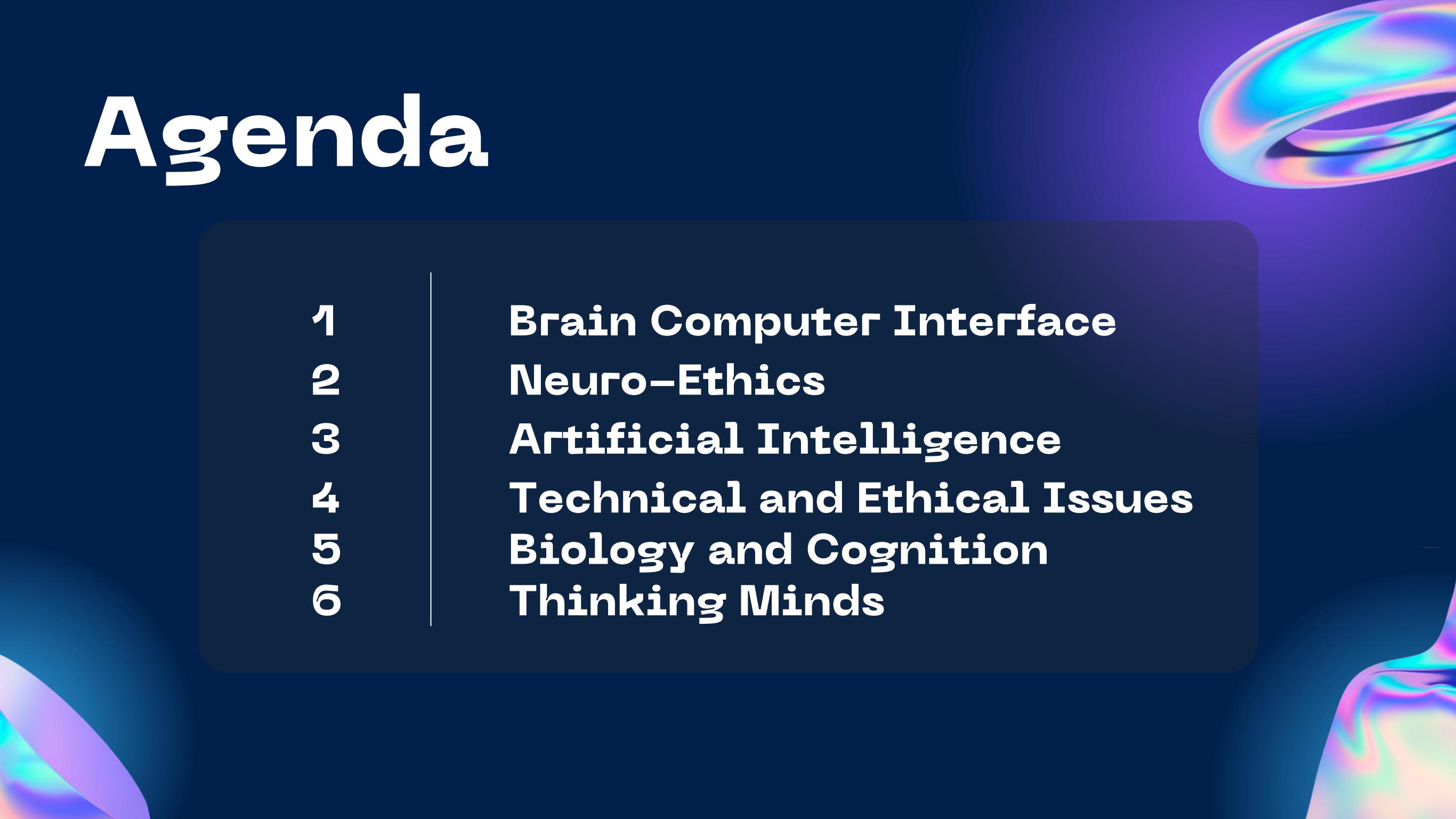


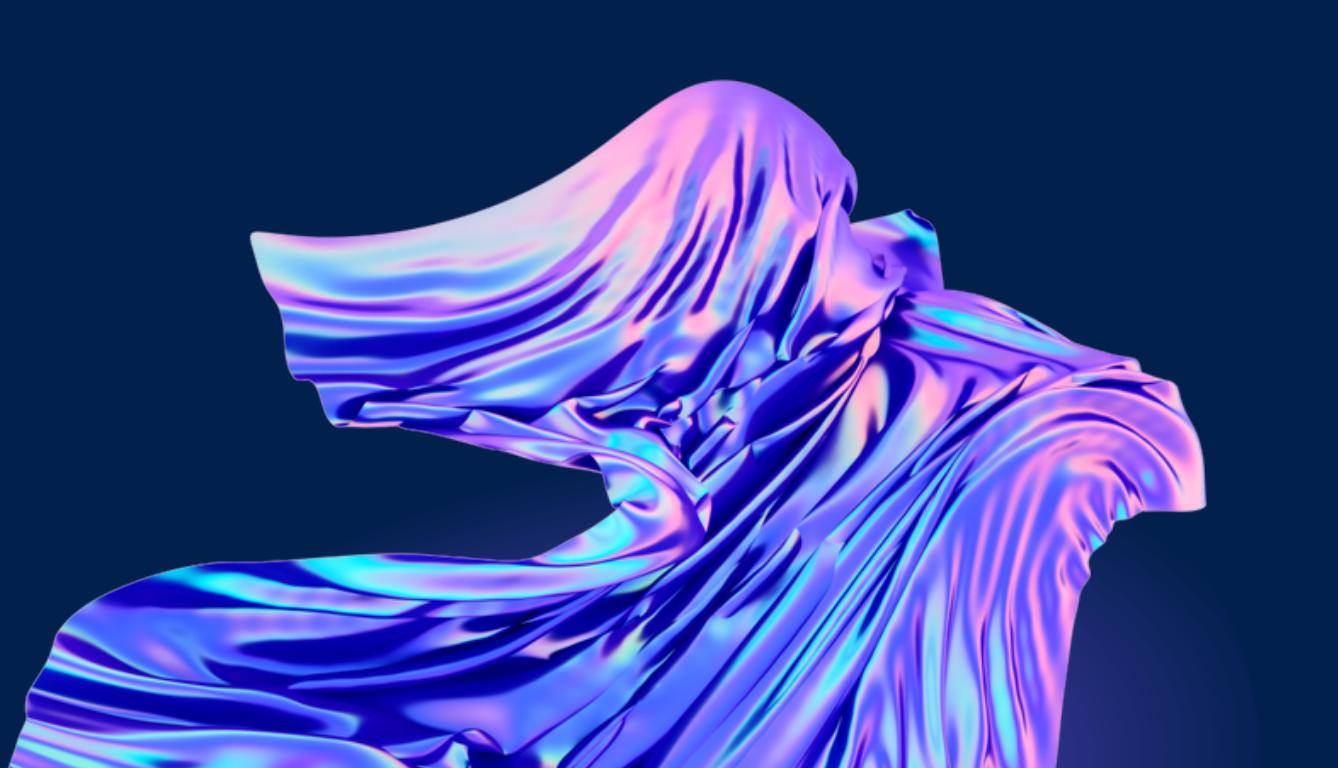


# Neuro-Ethics



# Agenda

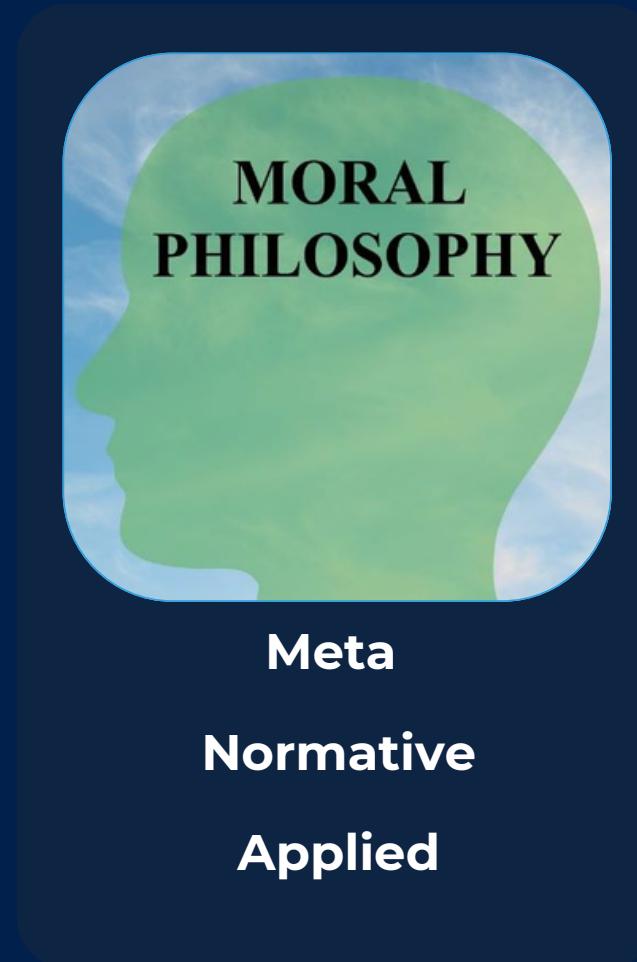
- 
- 1      **Brain Computer Interface**
  - 2      **Neuro-Ethics**
  - 3      **Artificial Intelligence**
  - 4      **Technical and Ethical Issues**
  - 5      **Biology and Cognition**
  - 6      **Thinking Minds**



# Brain Computer Interfacing



# Neuro-Ethics



# Artificial Intelligence



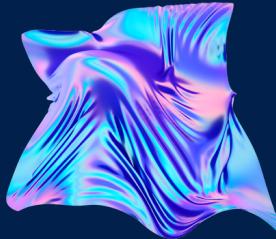
Open AI



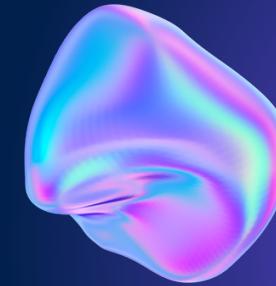
Multiple  
Intelligences



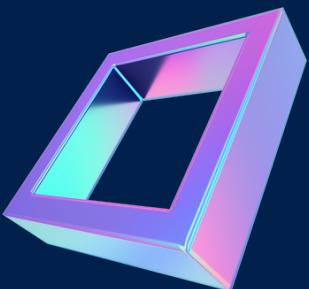
Multi Modal  
AI



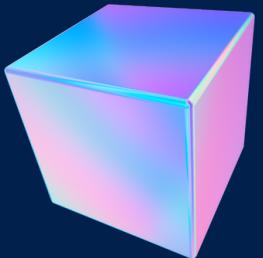
Behavioral AI



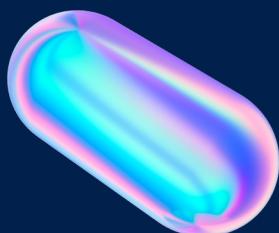
BonsAI



Gemini AI



Cognitive  
Robotics



Reinforcement  
Learning



Large Language  
Models



Scale AI

# Technical Issues

- |   |  |
|---|--|
| 1 | <b>Explainability and Transparency</b> |
| 2 | <b>Scalable and Generalizable</b>      |
| 3 | <b>Predictability and Security</b>     |
| 4 | <b>Computational Power and Models</b>  |
| 5 | <b>Representation and Logic</b>        |

# Ethical Issues

1

**Privacy and Surveillance**

2

**Authority and Power**

3

**Justice and Fairness**

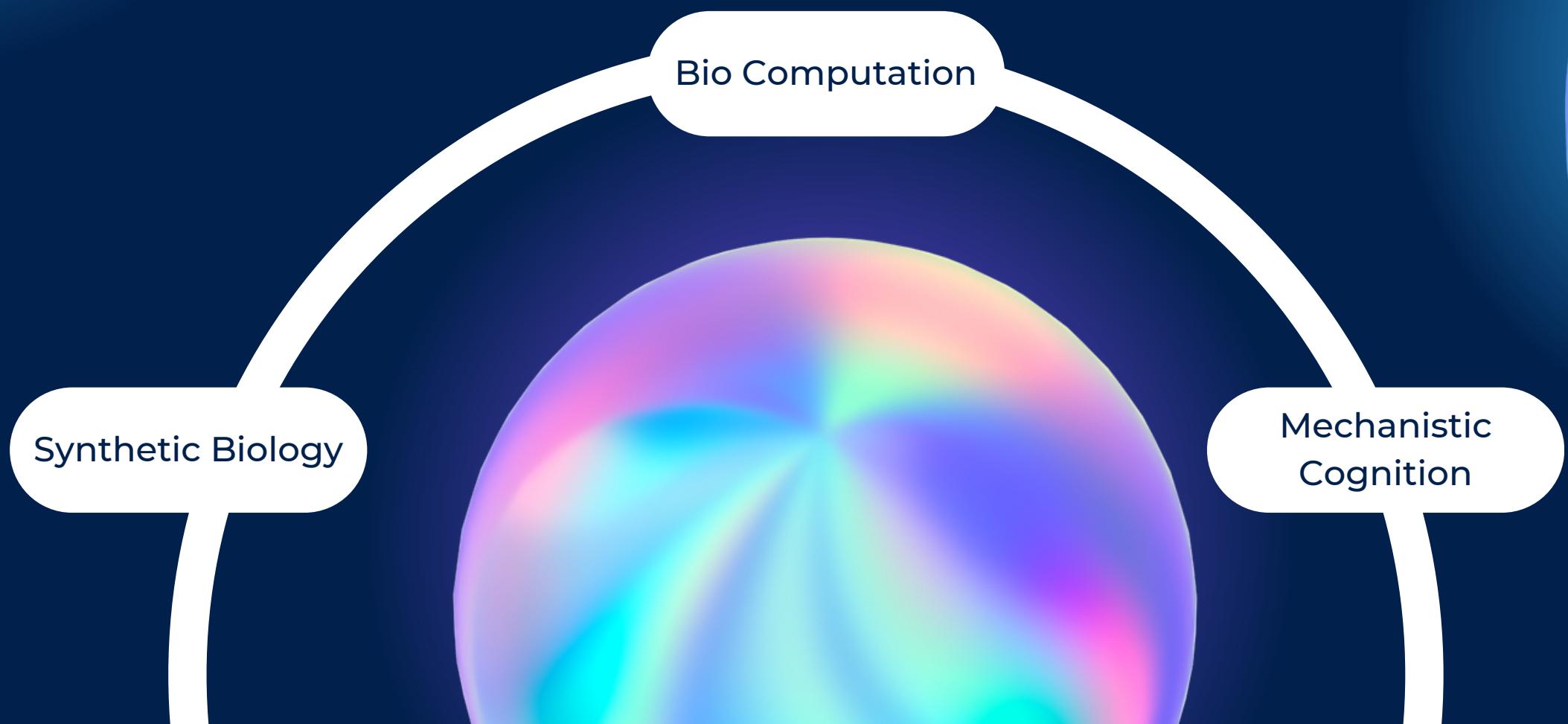
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**Agency and Identity**

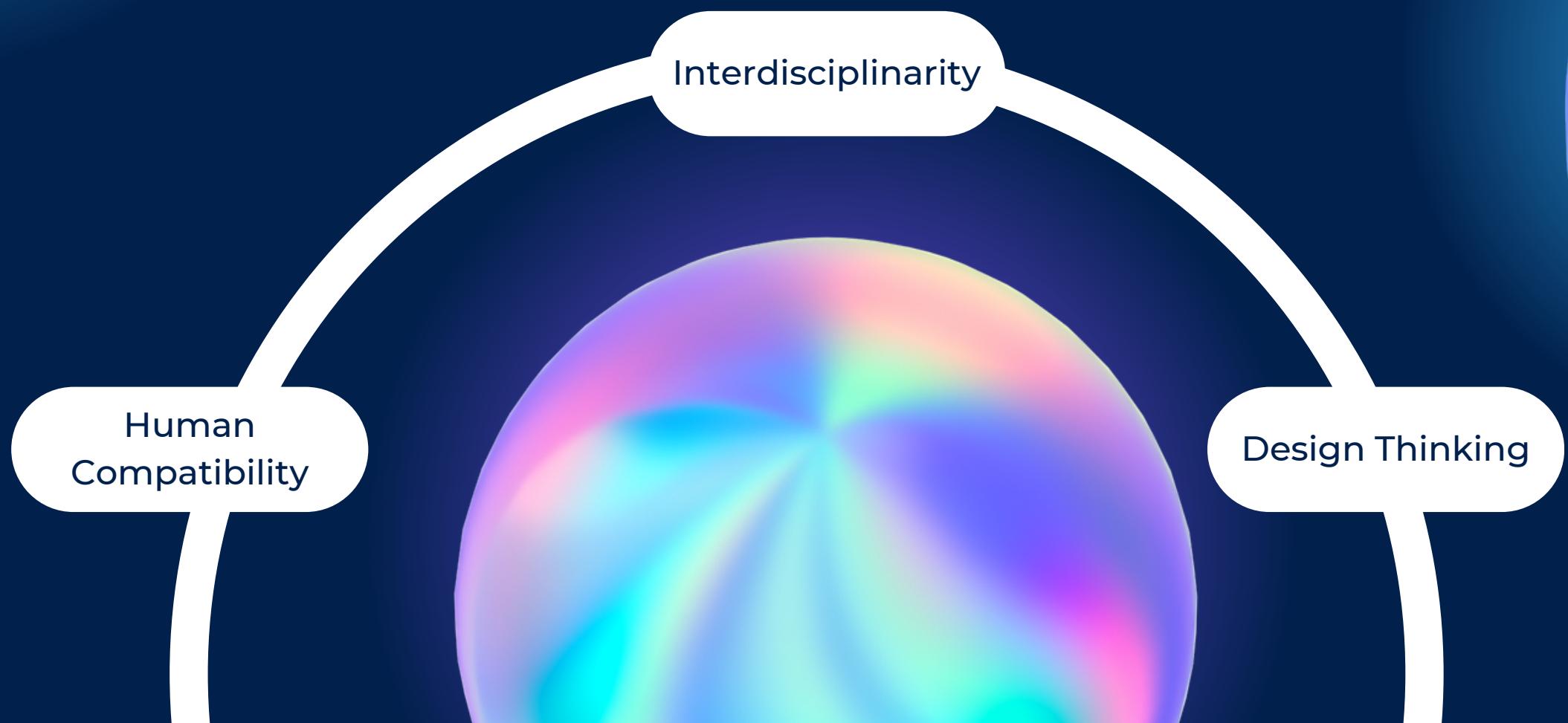
5

**Safety and Risk**

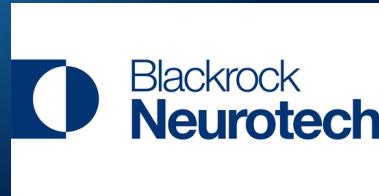
# Biology and Cognition



# Thinking Minds



# Companies and Institutions



**Blackrock  
Neurotech**



**DARPA**



**The BRAIN  
Initiative**



**Synchron**



**Kernel**



**McGovern MIT**



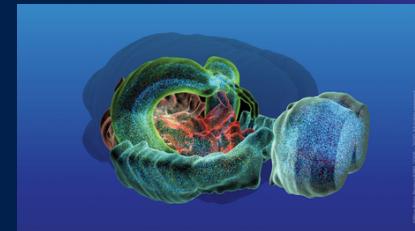
**Human Brain  
Project**



**International  
Neuroethics  
Society**



**UNIDIR**



**Blue Brain  
Project**