



In this new AI renaissance and the age of big data and IoT, everything becomes hyper-connected and hyperintelligent – including humans. The central entity managing all this intelligence is the continuously evolving Bionic Brain residing in the Bionic Digital Platform.

- Overview
- Human Perspective
- Technology Perspective
- Fusion: Transformation
- Fusion: Bionic Architecture**
- Artificial Intelligence
- Fusion: Fusion Strands/UX
- Value Generation
- Fusion: Roadmap

Bionic Architecture

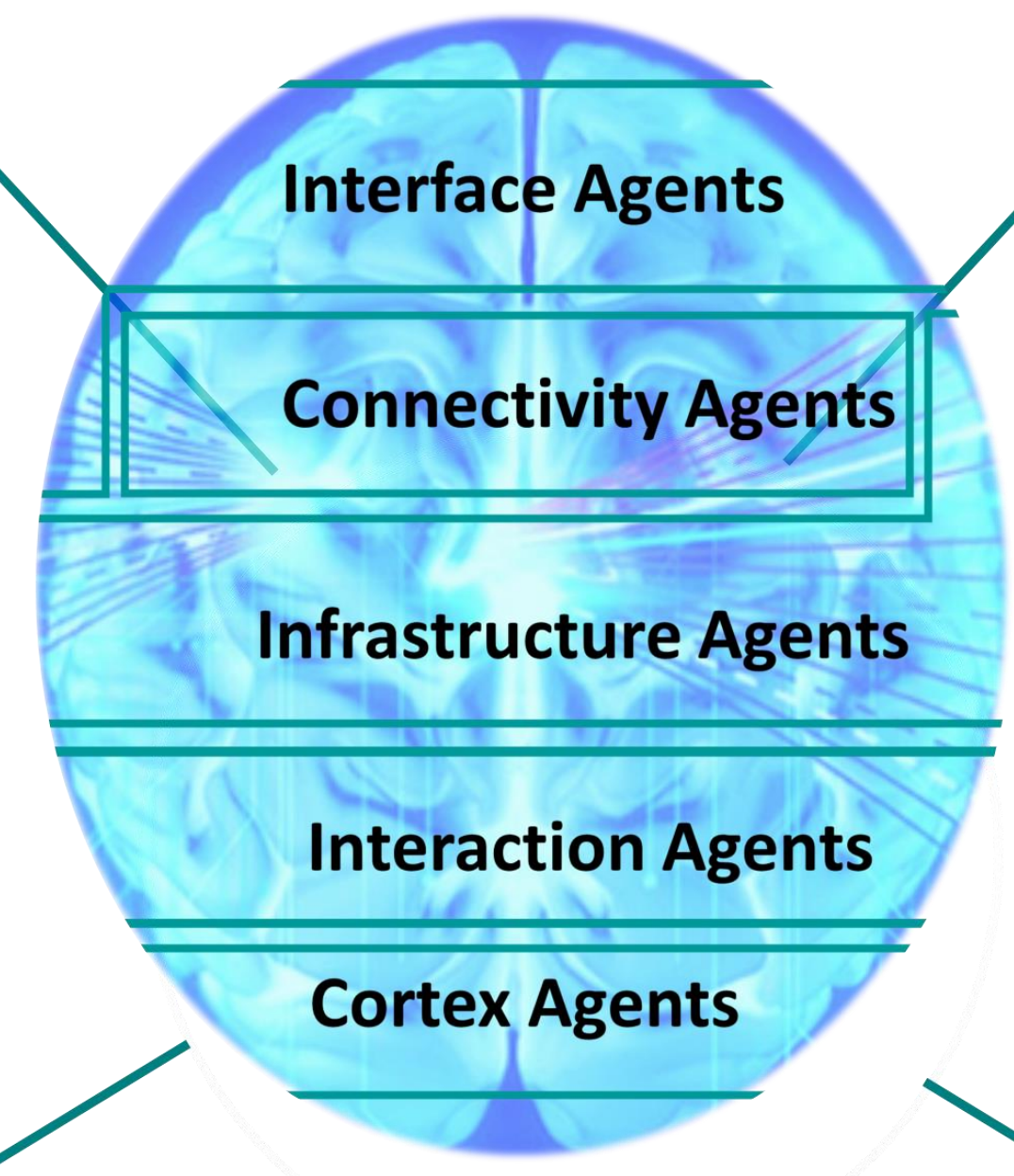
What distinguishes agents from other software?

- Reaction to the environment
- Autonomy
- Goal-orientation
- Persistence

Agent Characteristics
Goal-Directed Achieves goals on behalf of host
Persistent Continuously Running
Autonomous Able to act without human interaction or direction
Social Ability Interaction, communication, collaboration, cooperation
Reactive and Pro-Active Interacts with its environment in reaction or pro-action
One or More Threads of Control Multi-tasks and Multi-forward

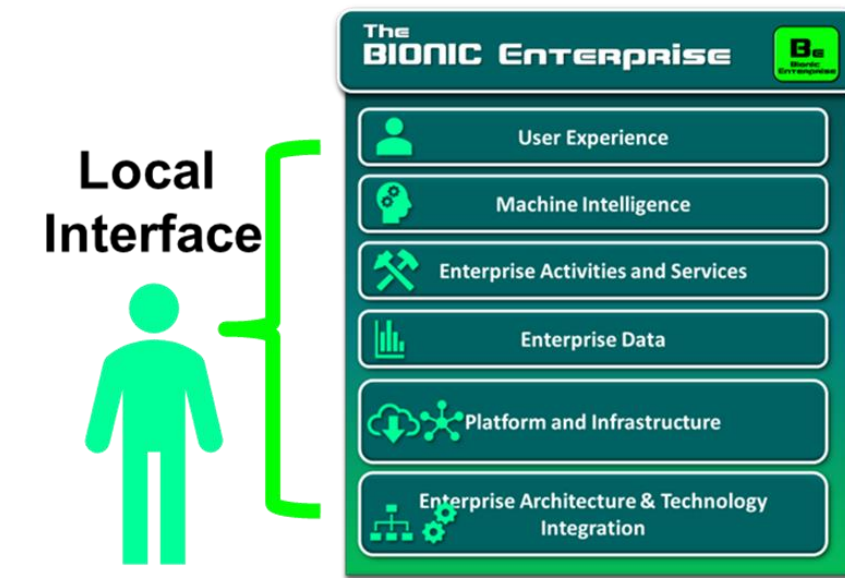
A Bionic Enterprise is built on a Bionic Digital Platform Supports the Bionic Enterprise Brain Constructed of Bionic Agents

Bionic Enterprise Brain and its collections of agents.



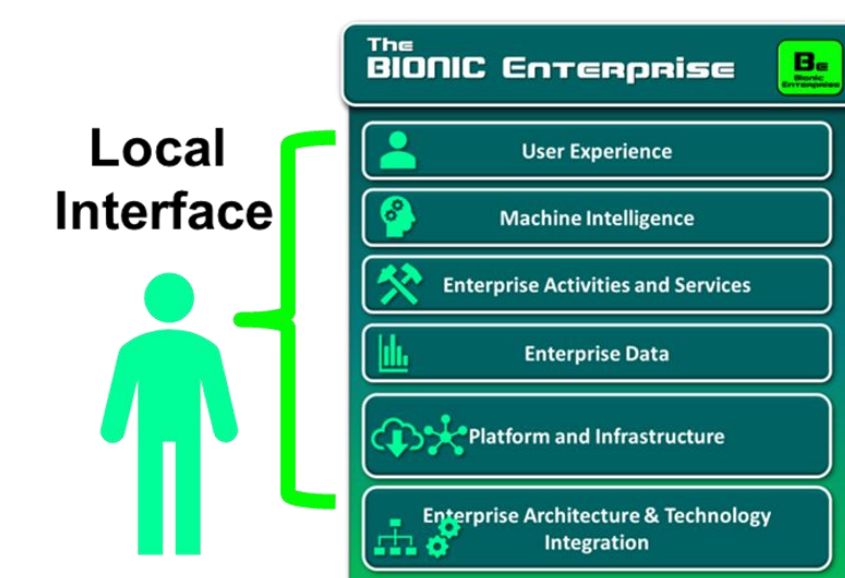
Network Capital – Accessing and Experiencing the Enterprise

Modes of Interface and Access to the Bionic Enterprise Brain

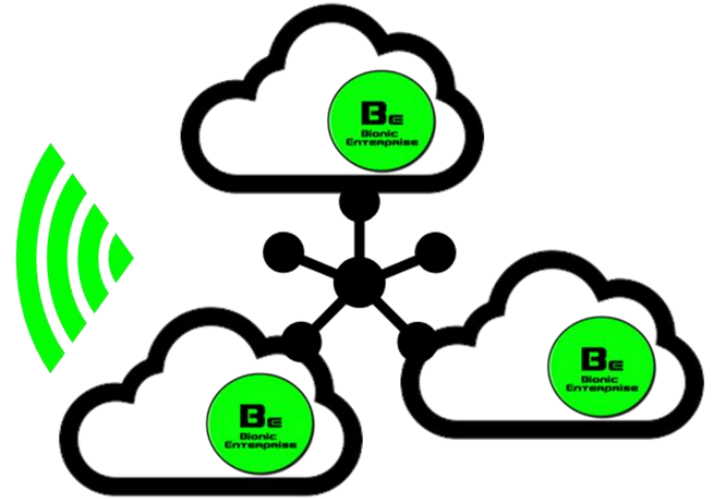


Edge-Based Machine Intelligence (Bionic Brain)

Interface with edge-based localized Bionic Enterprise Brain (machine intelligence)

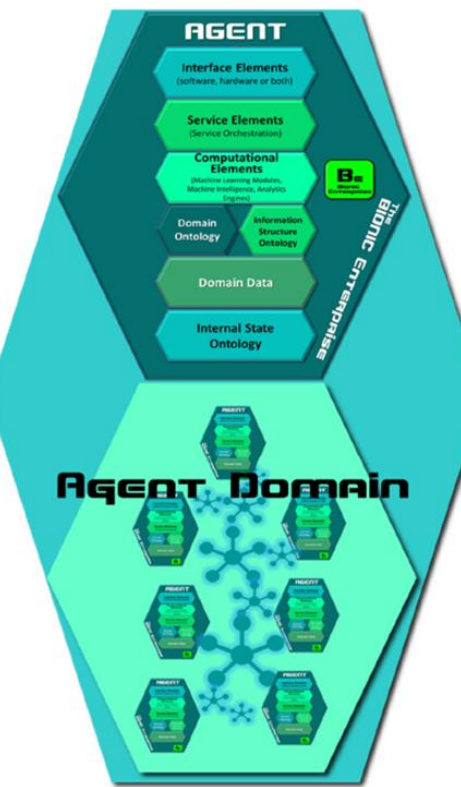


BIONIC Enterprise Brains



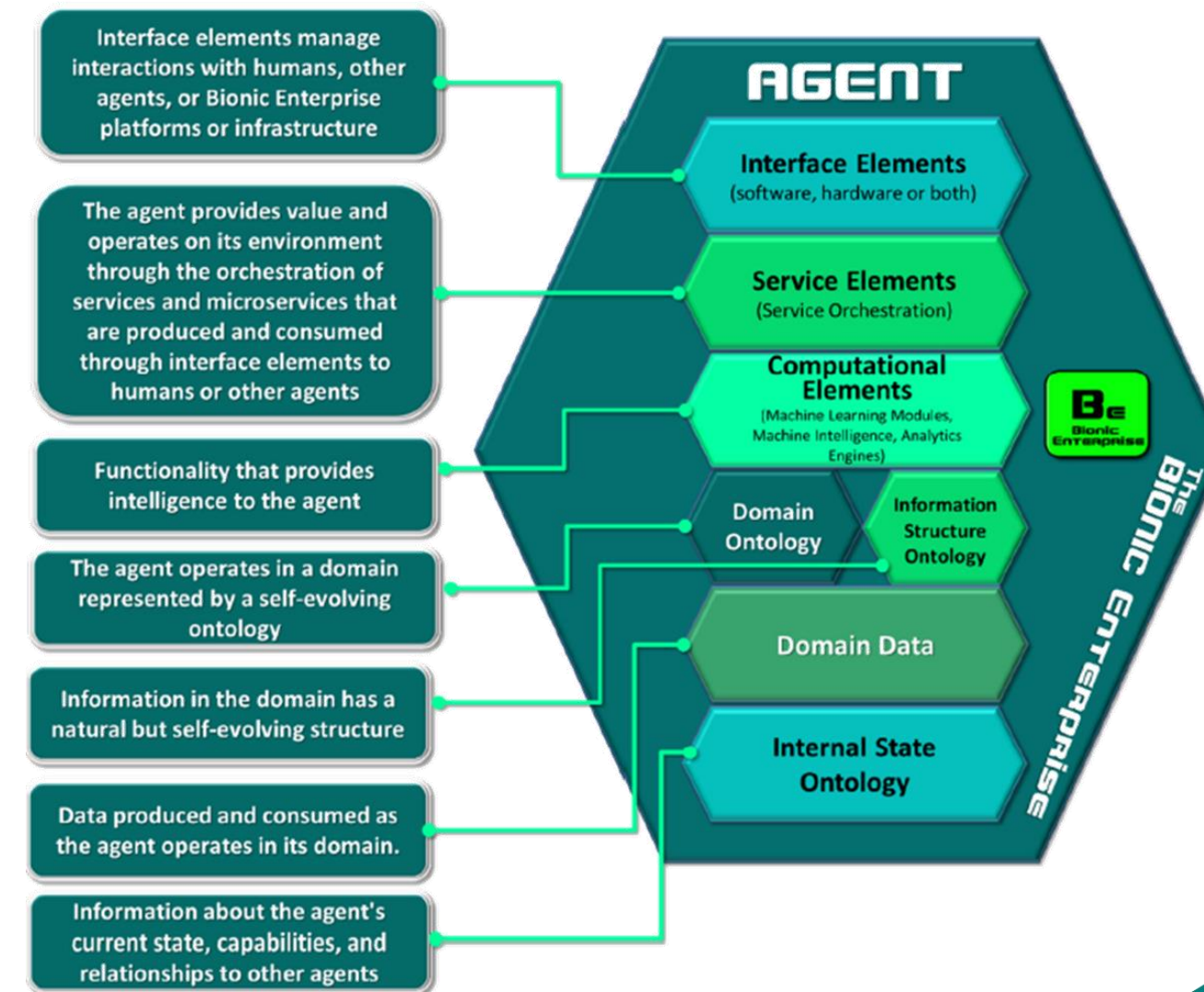
Interface with reach back to cloud-based community of Bionic Enterprise Brains

- Bionic UX Effects
- Mentoring
- Collaboration
- Empathizing
- Partial Task Automation
- Task Acceleration
- Immersion (UX/VR/AR)
- Task Augmentation
- Task Elasticity & Scalability
- Task Autonomy
- Task Precision
- Task Accuracy
- Decision Support

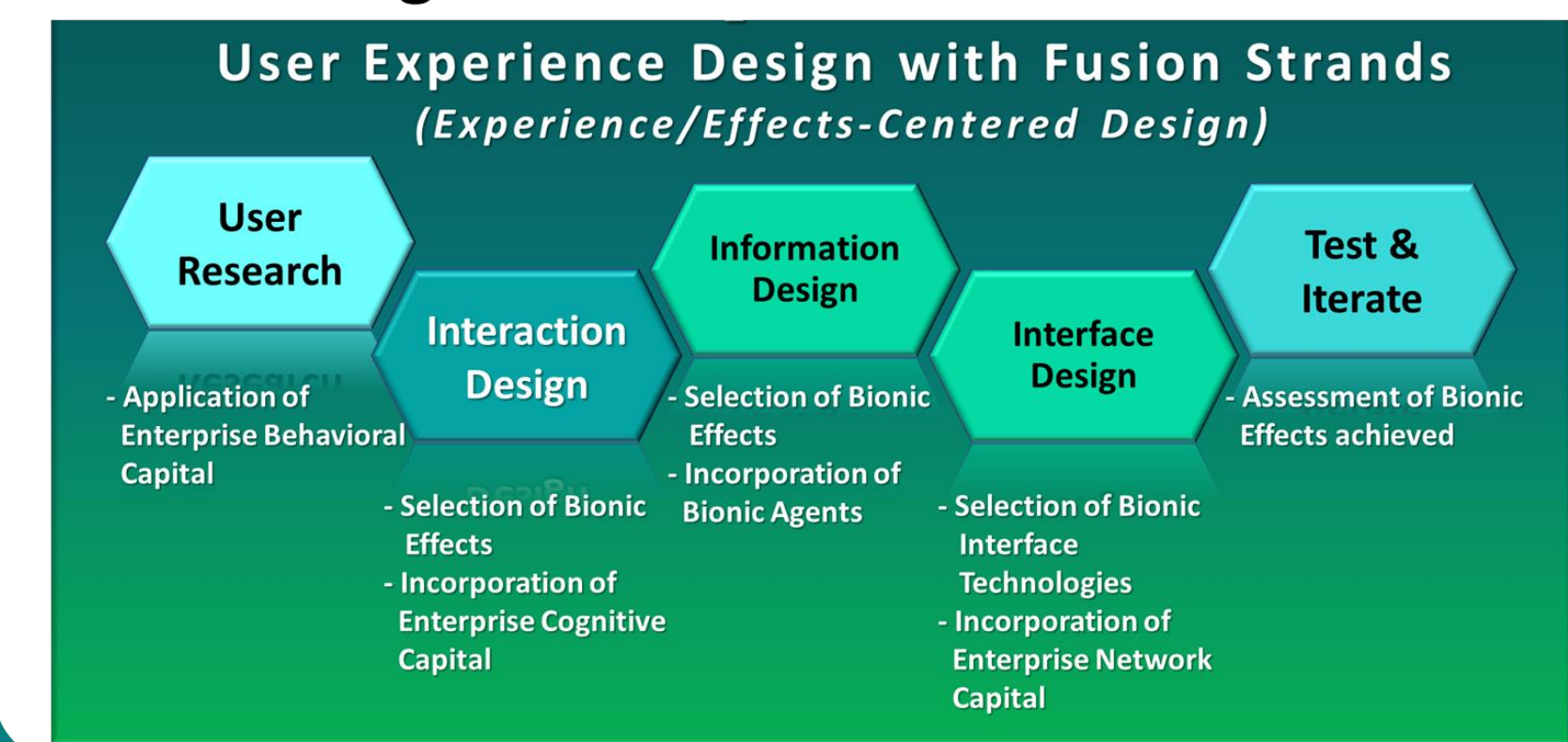


Coordination Agent & Community of Cooperating Agents

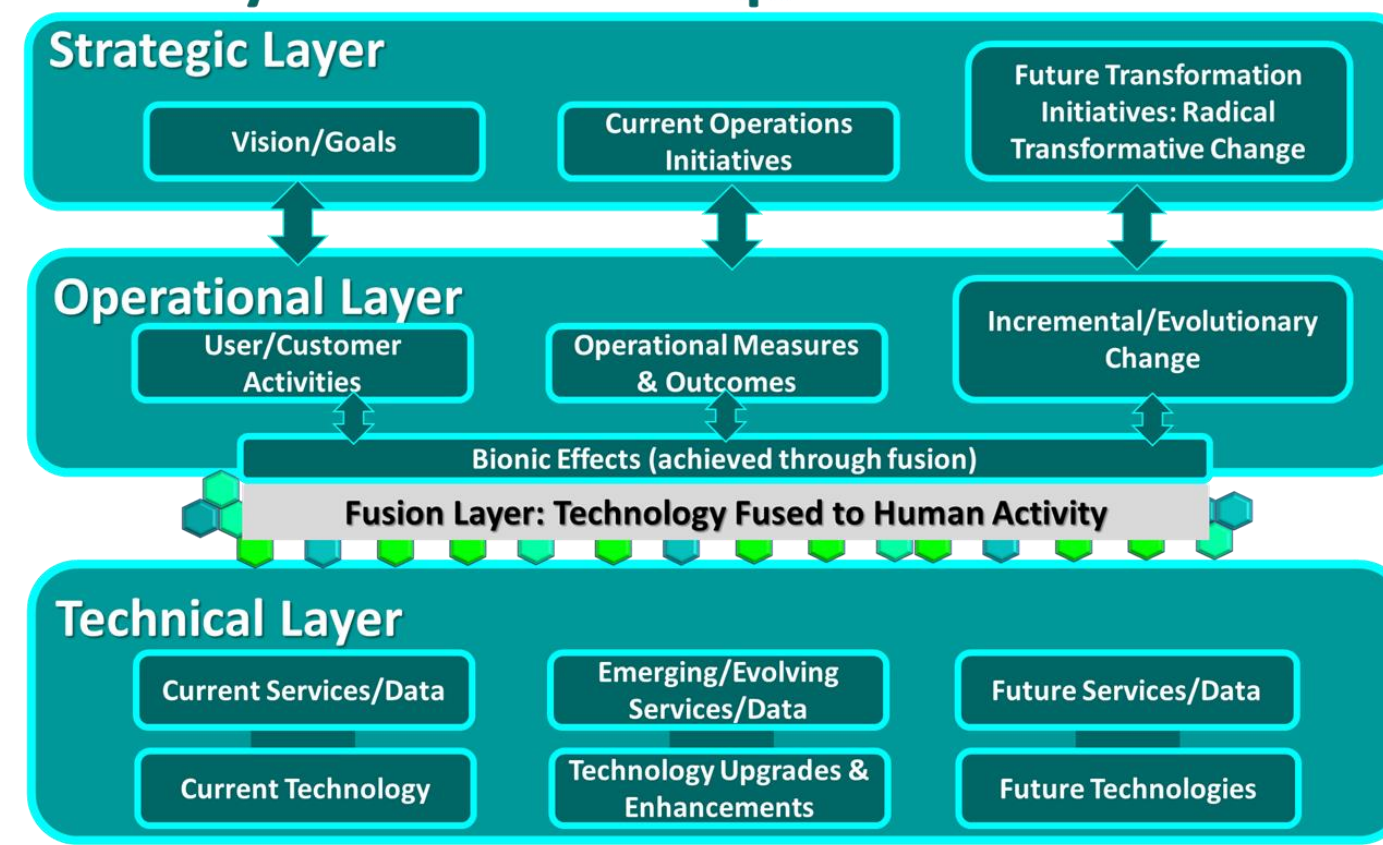
Anatomy of a Bionic Agent



Bionic Design

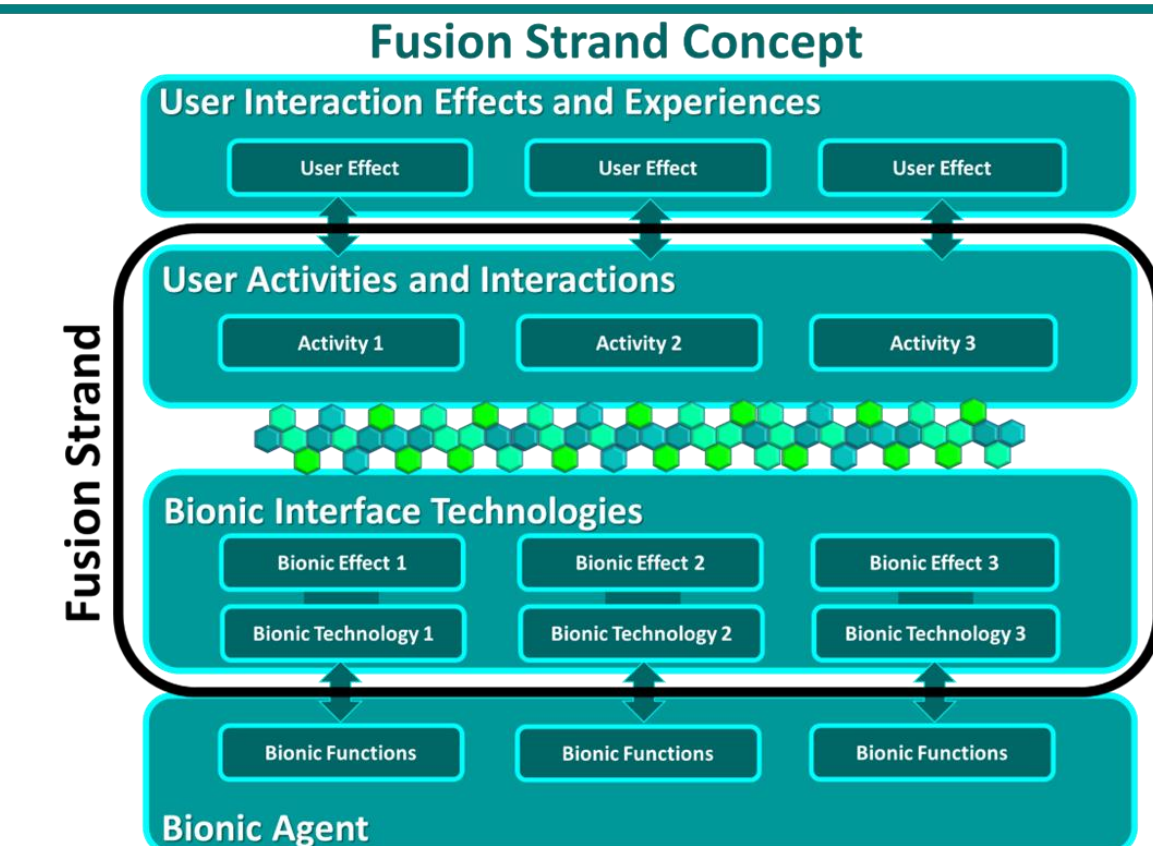


Layers of the Enterprise Architecture

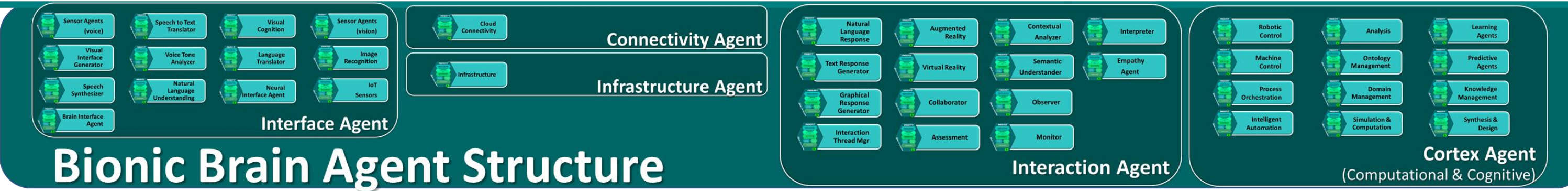


Fusion Strands

A fusion strand is the application of bionic technologies with specific user interfaces for the purpose of achieving specific bionic effects on user activities during a user interaction. The goal of the developing the fusion strand is to improve aspects of the user experience. These bionic effects are brought about by the application of **network capital** (where, how, when to interface with the enterprise), **cognitive capital** (what the enterprise knows how to do), and **behavioral capital** (what the enterprise understands about customers or users, partners, suppliers).



Every technology has its place within the enterprise and every technology will fit somewhere in the overall framework of the enterprise architecture so that it can be understood for the role it plays and the level of maturity that it represents at a given time.



Bionic Brain Agent Structure

- Bionic Manifesto
- Ubiquitous
- Hyper-Aware
- Hyper-Connected
- Hyper-Intelligent
- Curious
- Empathetic
- Self-Optimizing
- Hyper-Adaptive
- Evolutionary
- Self-Motivated
- Hyper-Converged