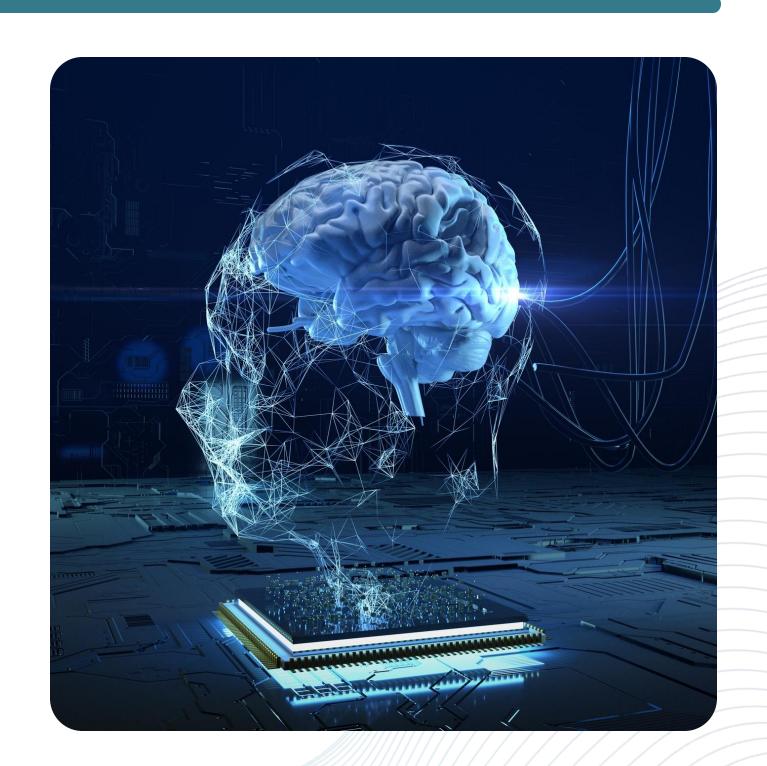


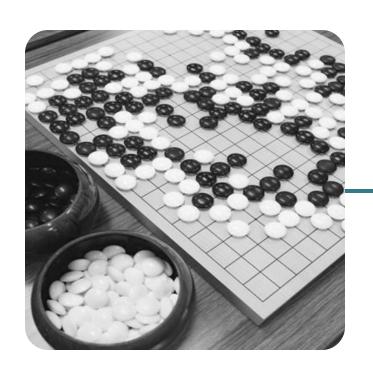
# BIOMIMICRY "ARTIFICIAL BRAIN"

- **Capabilities**: Understands, learns, and applies knowledge across diverse tasks.
- **Bio-mimicry**: Emulates human cognition to solve complex problems.
- **Efficient Hardware**: Runs on standard CPUs with 80% less energy consumption.
- **Portable**: Compact, Linux-based system.
- **Technical Maturity**: Operates at TRL 9.
  - Currently deployed in support of ICD-10 Coding (Healthcare).
  - Resulting in 98% accuracy in handling structured and unstructured data (e.g., X-rays, ECGs) and translating natural language.

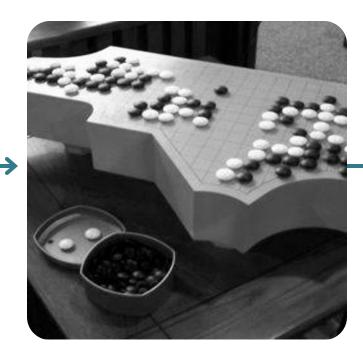


## GENERATIVE ARTIFICIAL INTELLIGENCE VS BIOMIMICRY ARTIFICIAL BRAIN

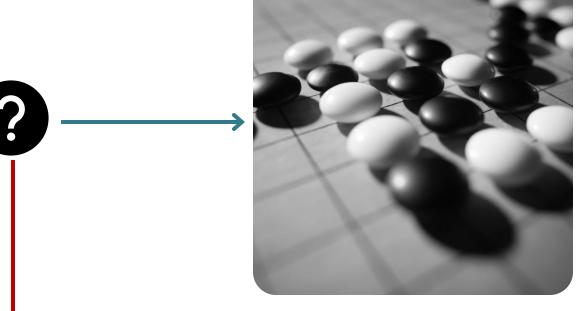




SCENARIO: A GAME OF ALPHA GO IS SET UP ON A TRADITIONAL RECTANGULAR BOARD.



CHALLENGE:
THE BOARD SUDDENLY CHANGES TO A
COMPLETELY DIFFERENT SHAPE.



AGI RESPONSE:
AGI WILL ADAPT TO THE NEW BOARD,
AS IT IS A THINKING MACHINE AND
WILL CONTINUE PLAYING.



GENERATIVE AI RESPONSE: STOP AND DO NOTHING, UNTIL IT IS RETRAINED FOR NEW BOARD SHAPE.



# COMPARISON OF TECHNOLOGIES

### GENERATIVE ARTIFICIAL INTELLIGENCE

- **Datasets:** Large hyperscale environment required to host the training and learning data.
- **Power:** Energy intense at 30-100 kWh+/rack
- **Training:** Training performed by provider.
- Mini-Brains: Not an option.
- Data Privacy: Data belongs to provider.
- Thinking: Learning capable with conditioned output.
- Operating Environment: GPU HW.
- Quantum Neural Networks: Unavailable.

### BIOMIMICRY ARTIFICIAL BRAIN

- **Datasets:** Between 2-10% of the number of datasets used by generative AI.
- **Power:** Energy efficient 13.7kWh/rack
- Training: Training performed by customer.
- Mini-Brains: Downloadable and autonomous.
- Data Privacy: Data belongs to customer.
- Thinking: Autonomous learning and thinking.
- Operating Environment: CPUs and IT infrastructure.
- Quantum Neural Networks: Yes, IBM currently.



# APPLICATION - ICD 10 CODING

- **Problem**: Hospitals must adhere to ICD-10 coding standards for diagnosis and treatments. However, most hospitals lose up to 35% of reimbursements due to poor-quality coding caused by limited time and personnel.
- **Solution**: Trained by a SME, a biomimicry artificial intelligence learned ICD-10 standards, reviewed Electronic Health Records, and interpreted patient language.

#### • AGI Impact:

- Fully trained AGI brain in 8 weeks.
- 100% automation with **95% accuracy** in primary diagnoses & 94% in secondary.
- Reduced coding time from an average of 1 hour to **30 seconds** per patient.
- **Results**: Significant reduction in diagnostic errors.
  - Increased reimbursements, **millions** in revenue.
  - Currently deployed in 3 hospitals, with 18 additional hospitals requesting access.

