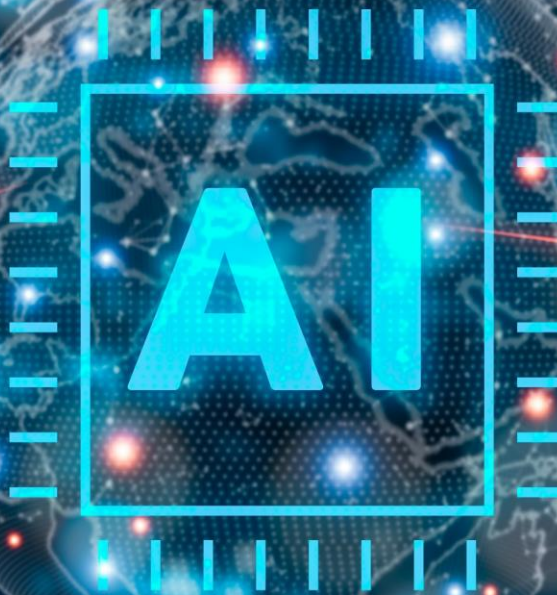


SIGNAL EDGE



Neuro-Symbolic Intelligence Technology
Creating Humanized AI



Artificial Intelligence (AI) Applications



Machine Learning

Big Data + Parameters



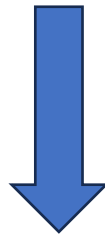
Statistics:

Forestry, Weather, Flu



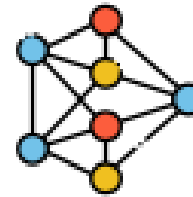
Deep Learning

Unstructured Data +
Requests



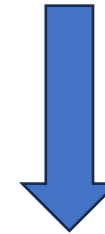
Reactions/Results:

Voice/Song, Resumes/Email



Neural Networks

Operational Data +
Hundreds of Factors



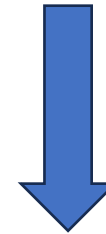
Predictions:

Credit, Marketing, Fraud



Generative AI

Training Data +
Commands



Actions:

Image Generation,
Writing, Automation



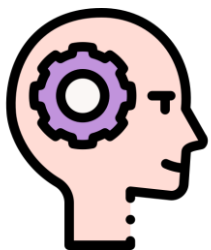
AI Drawbacks

- **Expensive**
- **Energy Intensive**
- **Copyright Infringement**
- **Narrow Capability**
- **Generates False or Misleading Information (Hallucinations)**
- **Not Transparent**
- **Slow Learning**
- **Lacks Adaptability**
- **Easily Corrupted**
- **Lacks Creativity**

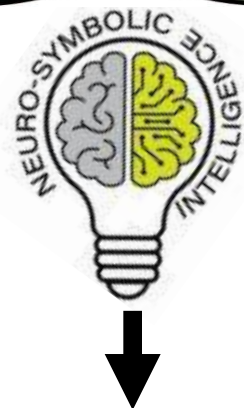
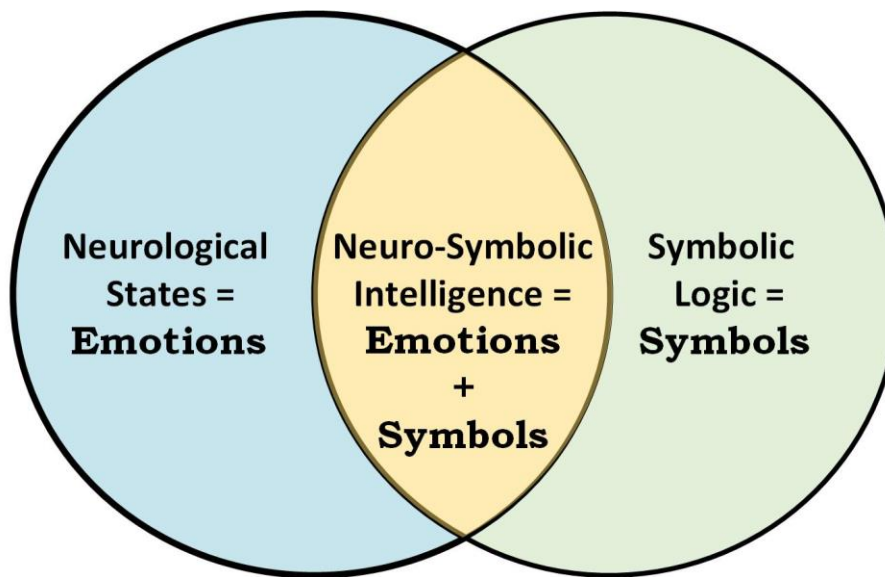


AI Lacks Humanity

- **Generalize Knowledge**
- **Rationalize Decisions**
- **Energy Efficient**
- **Real World Awareness**
- **Multidisciplined**
- **Common Sense**
- **Self Reflection**
- **Empathy & Emotions**
- **Intuition**
- **Greater than the Sum of its Parts**



Adding the Human Element to AI



Humanized AI

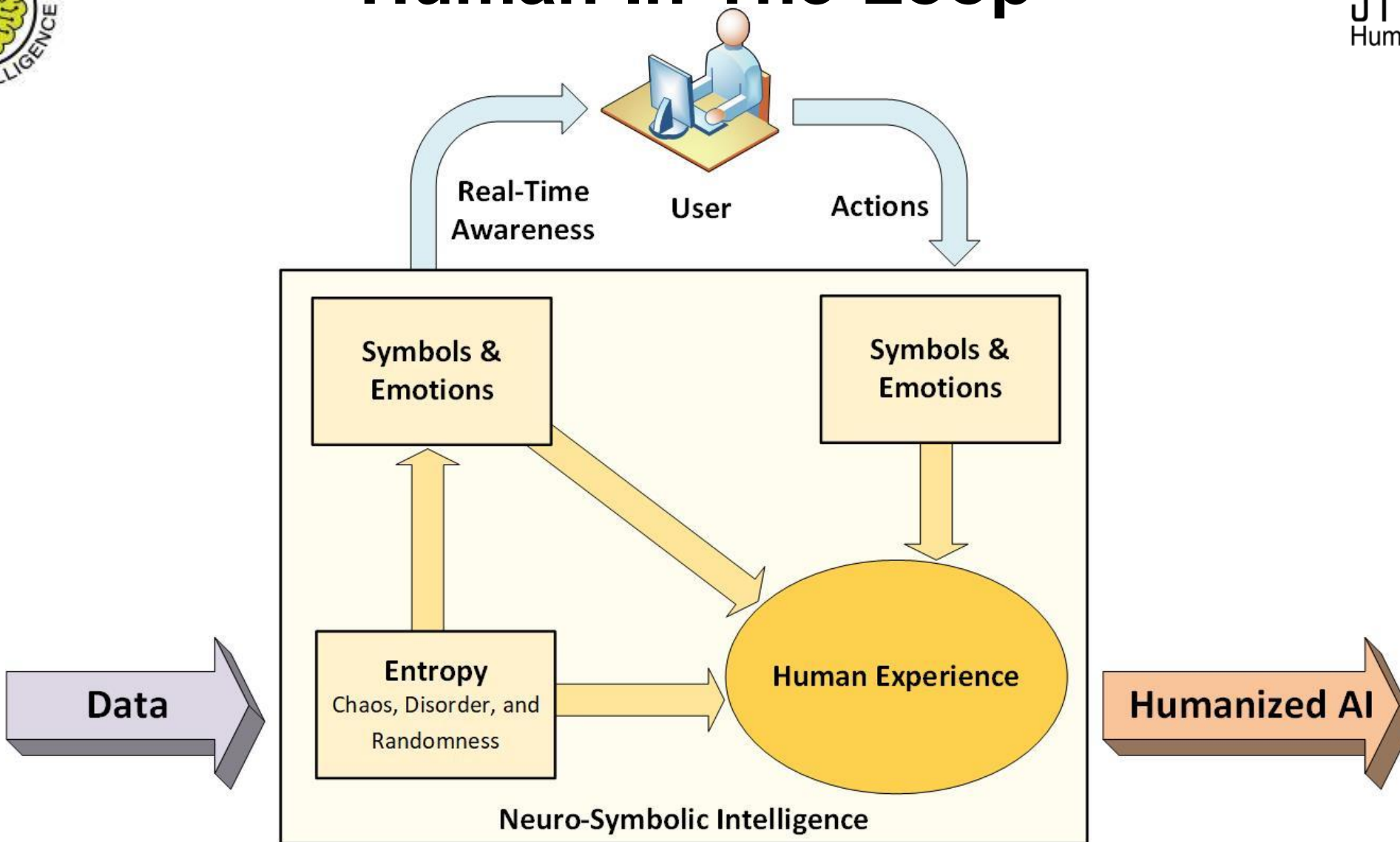


Emotions - Emotions have intensity levels and can be combined to modulate how symbols are valued, weighed, and analyzed.

Symbols – Symbols label data with generalized knowledge that can be rapidly interpreted, categorized, and learned.

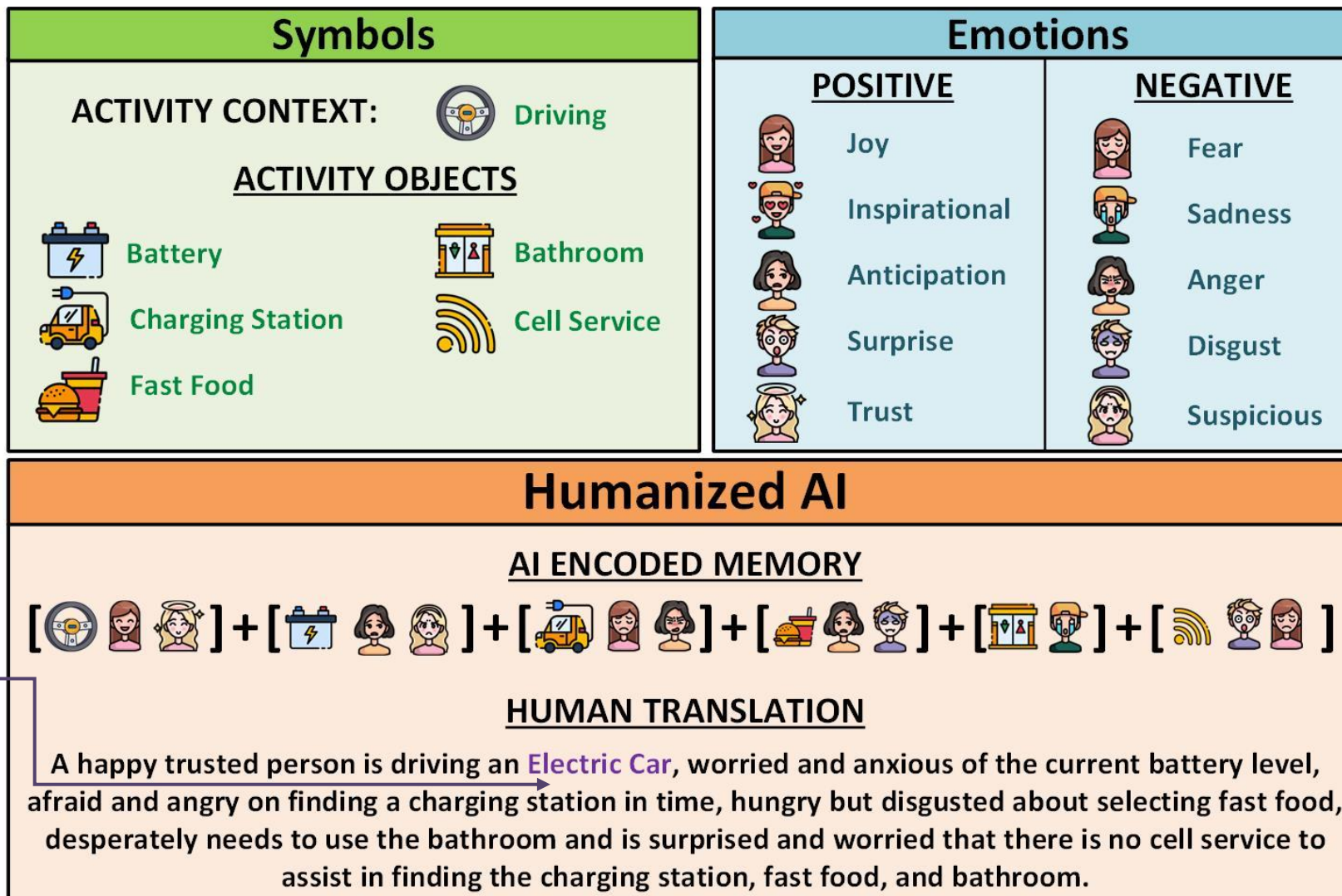


Human-In-The-Loop





Encoding Human Experience



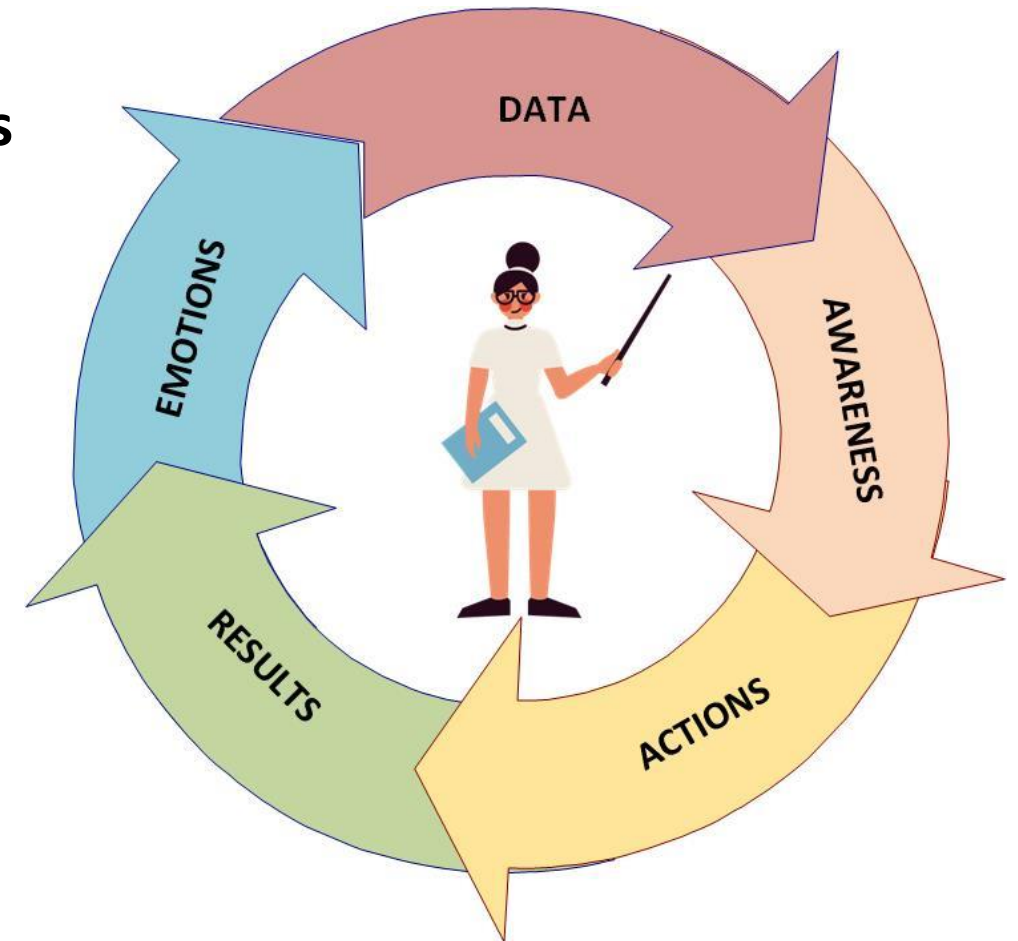
Common Sense

Knowing its an electric car without being told its an electric car.



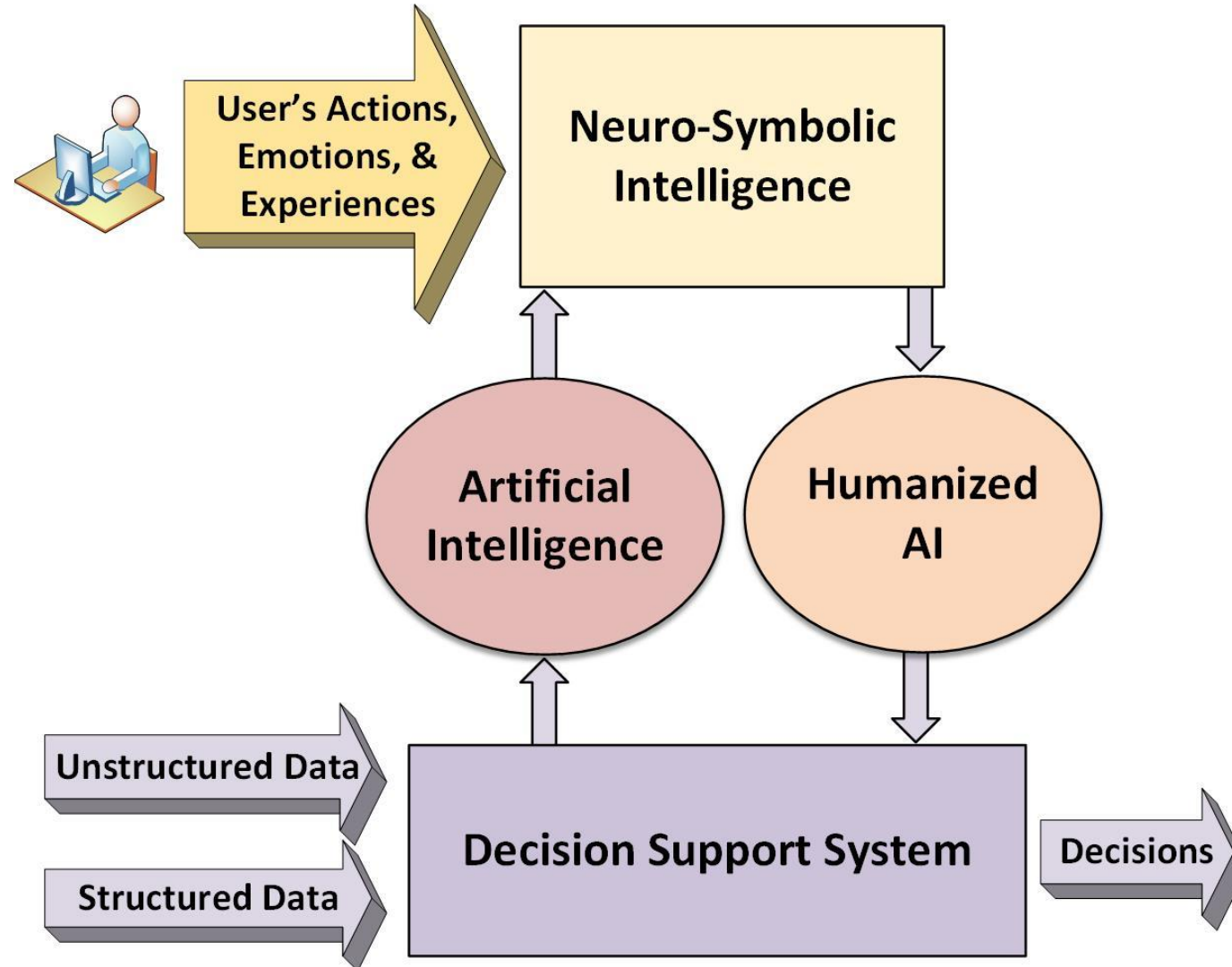
Learning from the User

- ❑ User Interface Produces Situational Awareness
- ❑ Awareness Encourages User to Create Actions
- ❑ Actions Generate Results
- ❑ Results Produce and Scale Emotions
- ❑ Emotions Regulate AI Learning





Integrating Humanized AI





Benefits of Humanized AI

Real-Time Comprehension – Symbols, infused with emotions, generate awareness and create rapid understanding of complex activities.

Human-In-The-Loop (HITL) – Able to provide complete situational oversight, humans interpret, adapt, and teach.

Explainable AI (EAI) – Provides full accounting of the entire decision-making process explaining decisions from a historical and logical perspective.

AI Guardrail – AI lacks the ability to judge itself and can generate false or misleading information. Humans and Neuro-Symbolic AI confirms decision accuracy.

Data Pedigree – Previous experience identifies entropy (randomness or disorder) when processing data which reduces the data volume by 99.9% while maintaining 100% of the original data.

Rationalizes – Can judge good from bad, knows right from wrong, and has been educated on cause and effect.

Tribal Learning – Captures an employee's know-how, the experience and knowledge cultured through years of business practice.

Smarter Decisions – Understands the content of data and the context of an activity, allowing for precise decisions-making.

The background of the slide features a dark blue field with a network of white nodes and lines on the left side. In the center-left, there is a glowing white brain icon enclosed within three concentric circles. A white robotic hand with black joints is positioned on the right, with its index finger pointing towards the brain icon.

Satisfying the AI Customer

Signal Edge's Neuro-Symbolic
Humanized AI Technology

The Future of AI

For more information
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