

The Evolution, Promise and Threat of AI

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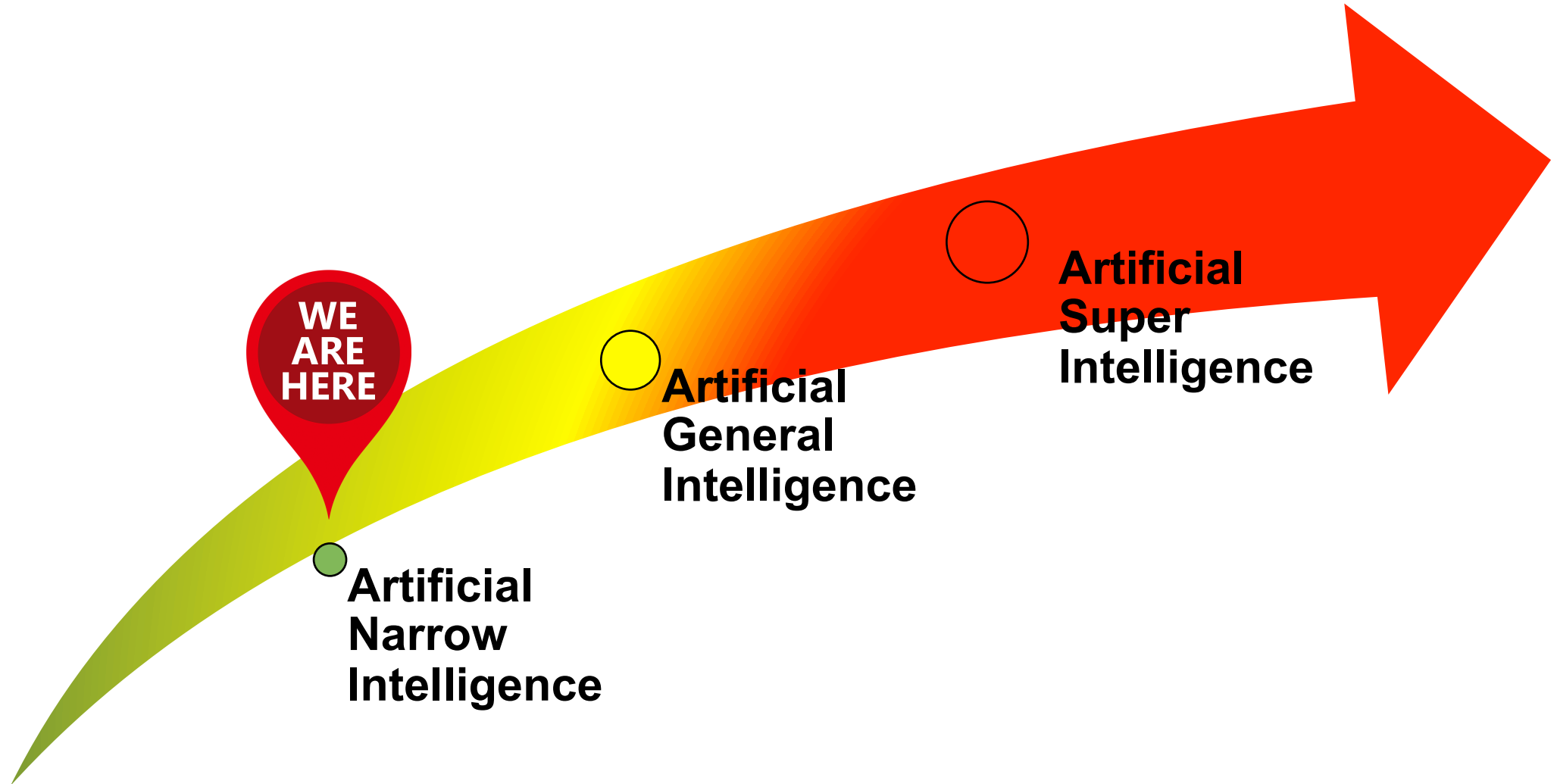
Human Intelligence

“...is whatever machines haven't done yet”
- Larry Tesler

Tickling the Dragon's Tail...



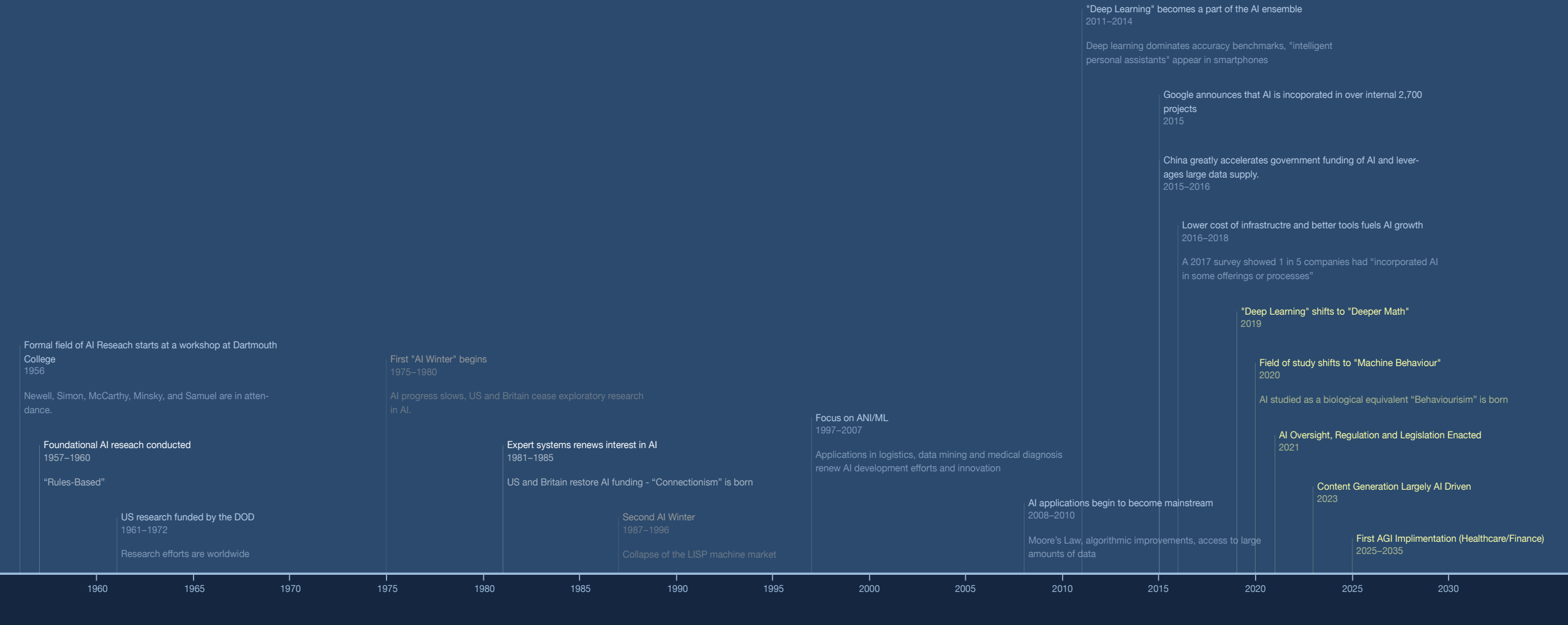
The AI Capability Continuum



AI Capability

- Artificial Narrow Intelligence (Weak AI)
 - Single task
 - Data set specific
 - Bounded
- Artificial General Intelligence (Strong AI)
 - Self aware and integrates emotional intelligence
 - Unbounded ability to reason – can plan and learn autonomously
 - Can make judgments in uncertain conditions
- Artificial Super Intelligence (Omnipotent AI)
 - Surpasses human intelligence in all aspects
 - Creativity
 - Perception
 - Problem solving
 - Prediction

A Brief History of AI Time



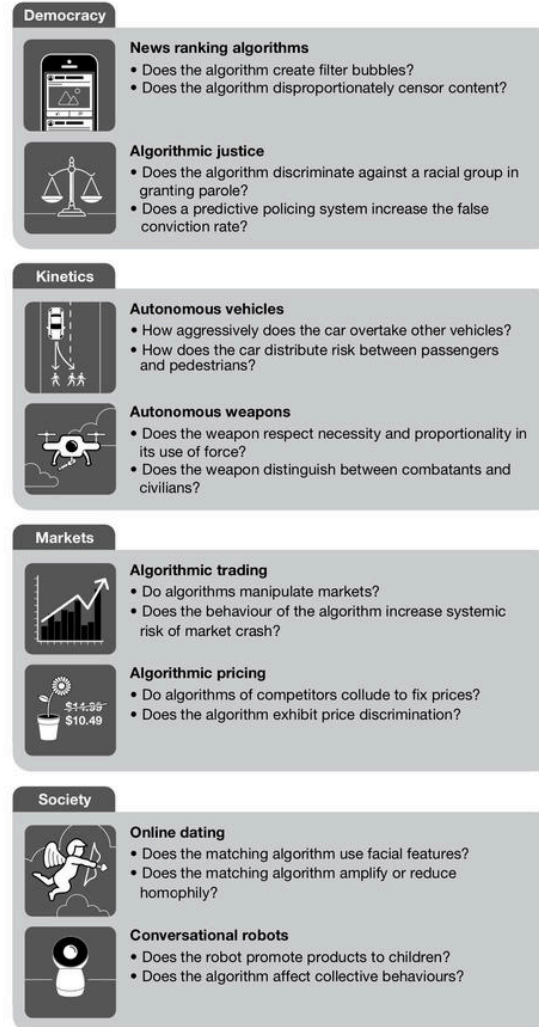
Narrow AI Threats

- Militarized AI
- Terrorist AI
 - Cyber Attack
 - Organizational Attack
- Manipulative AI
 - MADCOMs (**m**achine-**d**riven **c**ommunications tools)*
- Bias Affected and Deficient AI (BAD AI)
 - Recognition
 - Suitability Determination
- The Inverse AI Paradox

*Term coined by Matt Chesson

We are Responsible For What We Create

- Recognize the social implications
- Acknowledge our own limitations
- Safeguard our training data and examples
- Subject models and data to peer review





Thank You!
Discussion...

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