Welcome to the 7th Era of the Computing Revolution

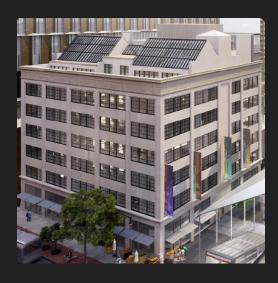
Tim Miano



Executive Director
MIT Office of Innovation



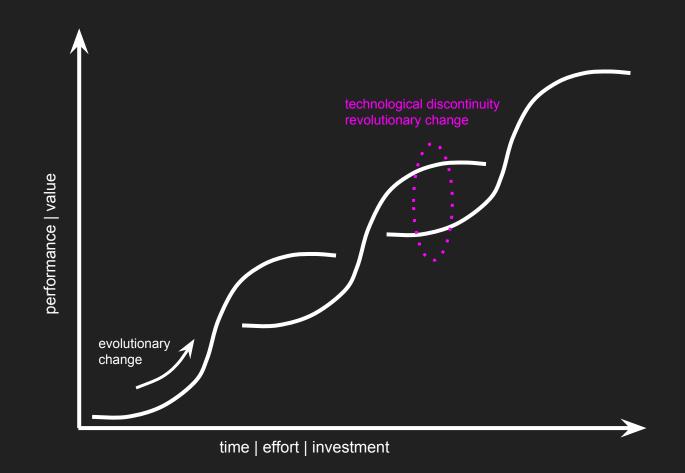
LinkedIn: tjmiano



innovation.mit.edu ihq.mit.edu

Disclaimer: all views are my own

Technological Discontinuities & Revolutionary Eras

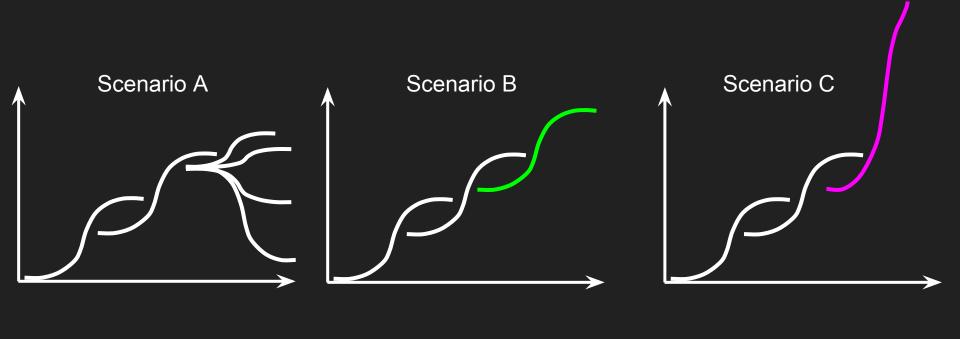


The 7th Era of Computing has begun.



Era	Year	Computing Tech
7th	2022	Al
6th	2000	mobile, cloud computing, social
5th	1990	internet
4th	1971	microprocessors, PCs, GUIs
3rd	1964	integrated circuits & time-sharing
2nd	1956	transistors
1st	1940	first computers
Electro	1930	electromechanical computation
Mech	1623	mechanical computation

7th Era Projections



Worse / Same / Marginal

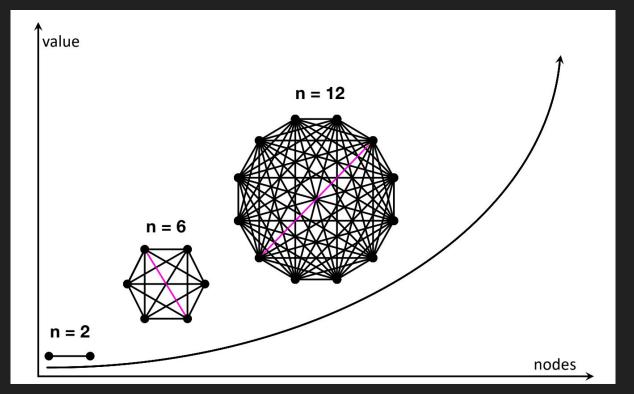
Revolution

Event Horizon

Al will cascade down and transform the layers of civilization.

Fashion	Augmented Creativity Al will consume historical art and integrate with new human creative processes.
Commerce	Conversational Contracts Al will allow agreements to be denominated in any contractually identifiable asset and contracts will be interactively probeable with advanced planning scenarios.
Infrastructure	Hyper-complex Investments Al-premised escrow accounts and insurance contracts will enable the exponential growth of trust, and hyper-complex investment systems.
Governance	Synthetic Law Law – a pre-existing paper-based form of AI at the bedrock of civilization – will itself become conversational, probeable, and human checkable & appealable.
Culture	Augmented Cognition An age of personal Als will transform thinking itself and notions of human-Al cognition and cognitive privacy.
Nature	Hyper-synthetic Living Materials Al will enable humans to design new living materials, en mass.

Al enables the exponential growth of Trust Complexity



Internet and Mobile Eras: geometric value by connecting networks of computers and users. **Al Era**: Al managed, human checkable **trust networks** that scale exponentially.

Trust Complexity

Network Type: Computer Social Αl **Network Map:**

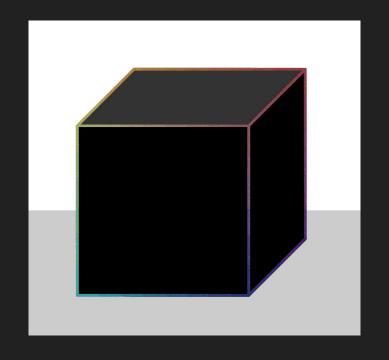
Users

Computing Time

Trust Complexity

Unit of Value:

Al Era Venture Development | Things Nobody Knows



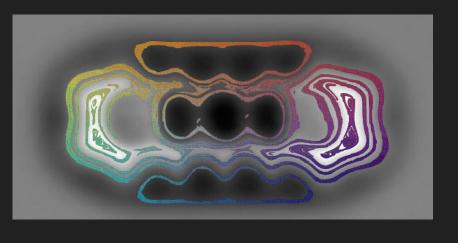
Build _____ today, obsolete tomorrow?

AI: Platforms v. Operation Systems v. Apps

What new markets will exist?

What existing markets & models break?

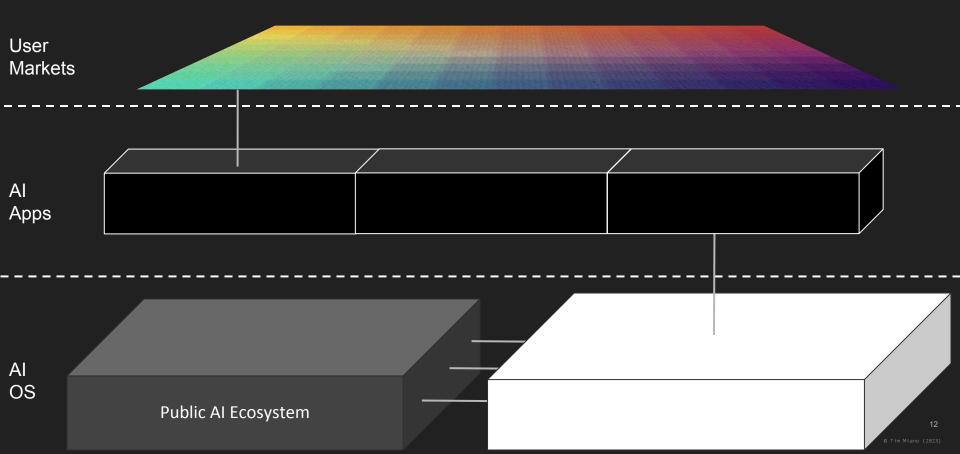
Al Era Venture Development | Things We <u>Do</u> Know



Al is a fundamental technology technology shift.

#1 rule for AI venture development: invest in teams of top human talent who can spend the next 24 months proactively surfing on the waves of change and maintain a human-expertise edge.

Technology Development Structure



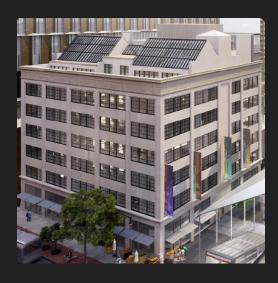
Tim Miano



Executive Director
MIT Office of Innovation



LinkedIn: tjmiano



innovation.mit.edu ihq.mit.edu

Disclaimer: all views are my own