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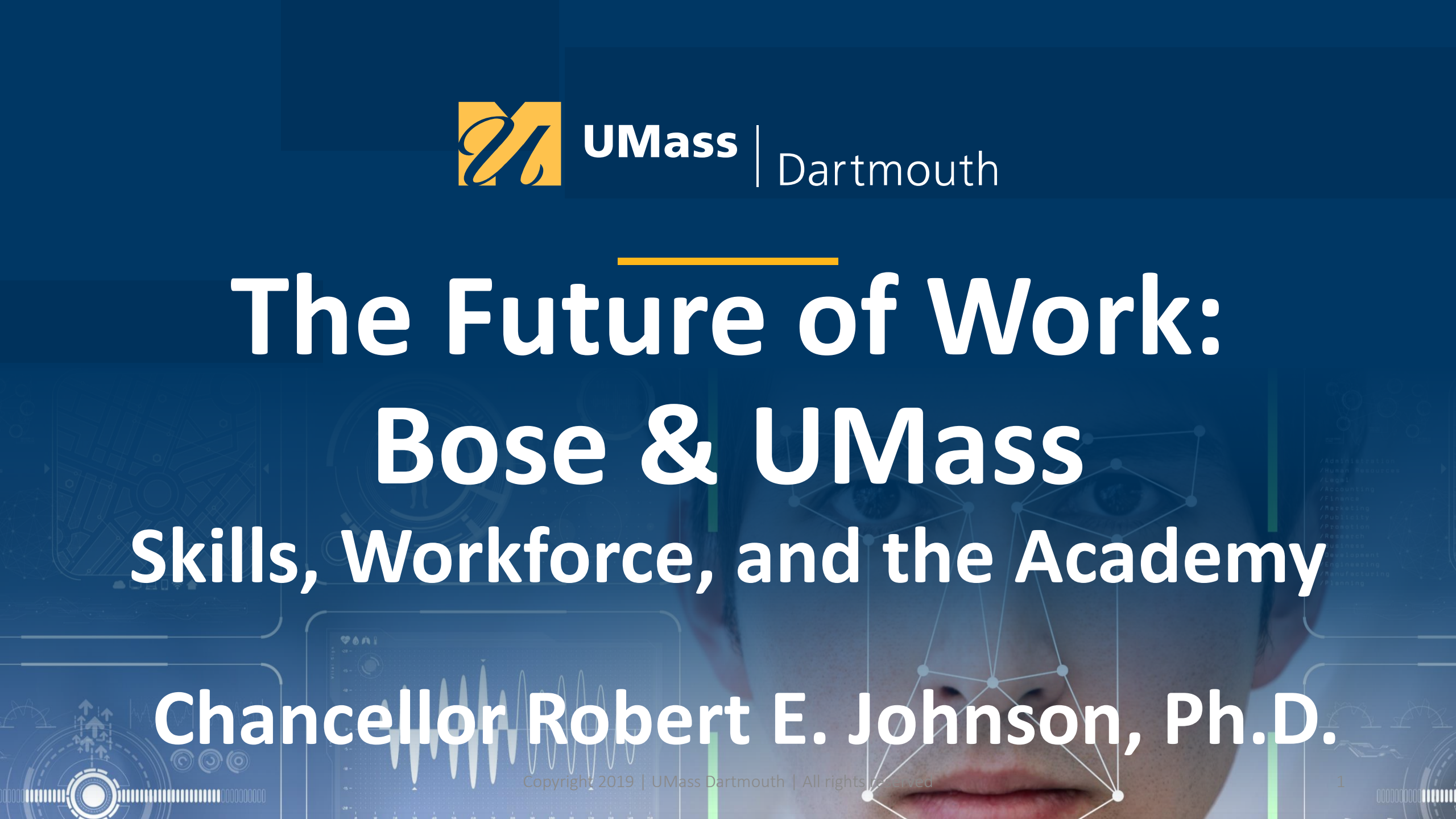
The Future of Work: Bose & UMass

Skills, Workforce, and the Academy



Chancellor Robert E. Johnson, Ph.D.

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Context:

What is Driving this Change in Work?

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In the future anything mentally or physically routine or predictable will be achieved by an algorithm.

Thomas L. Friedman

How many mentally routine/predictable tasks are you still teaching?

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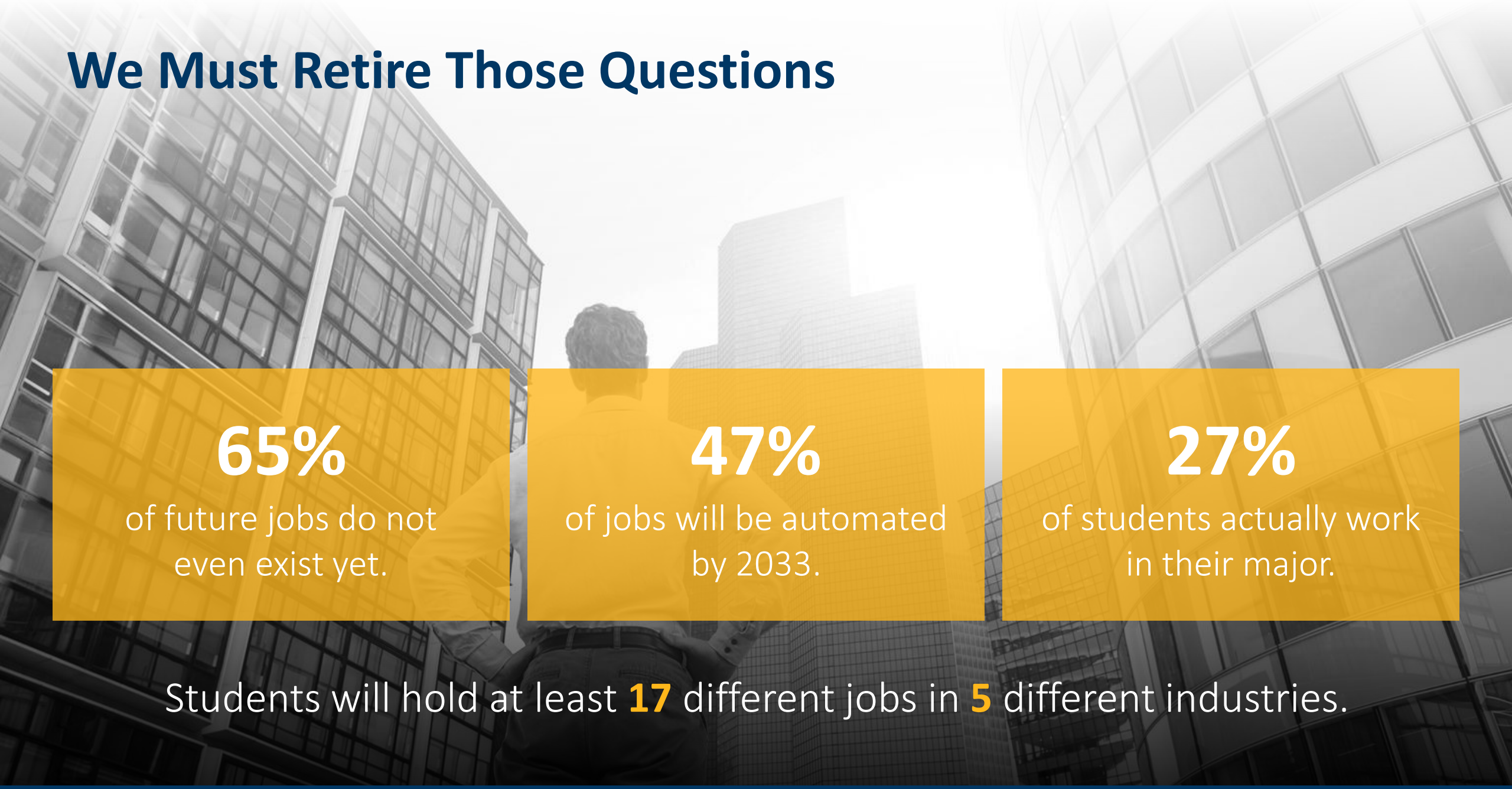
We Must Retire Those Questions



65%
of future jobs do not even exist yet.

47%
of jobs will be automated by 2033.

27%
of students actually work in their major.

Students will hold at least **17** different jobs in **5** different industries.

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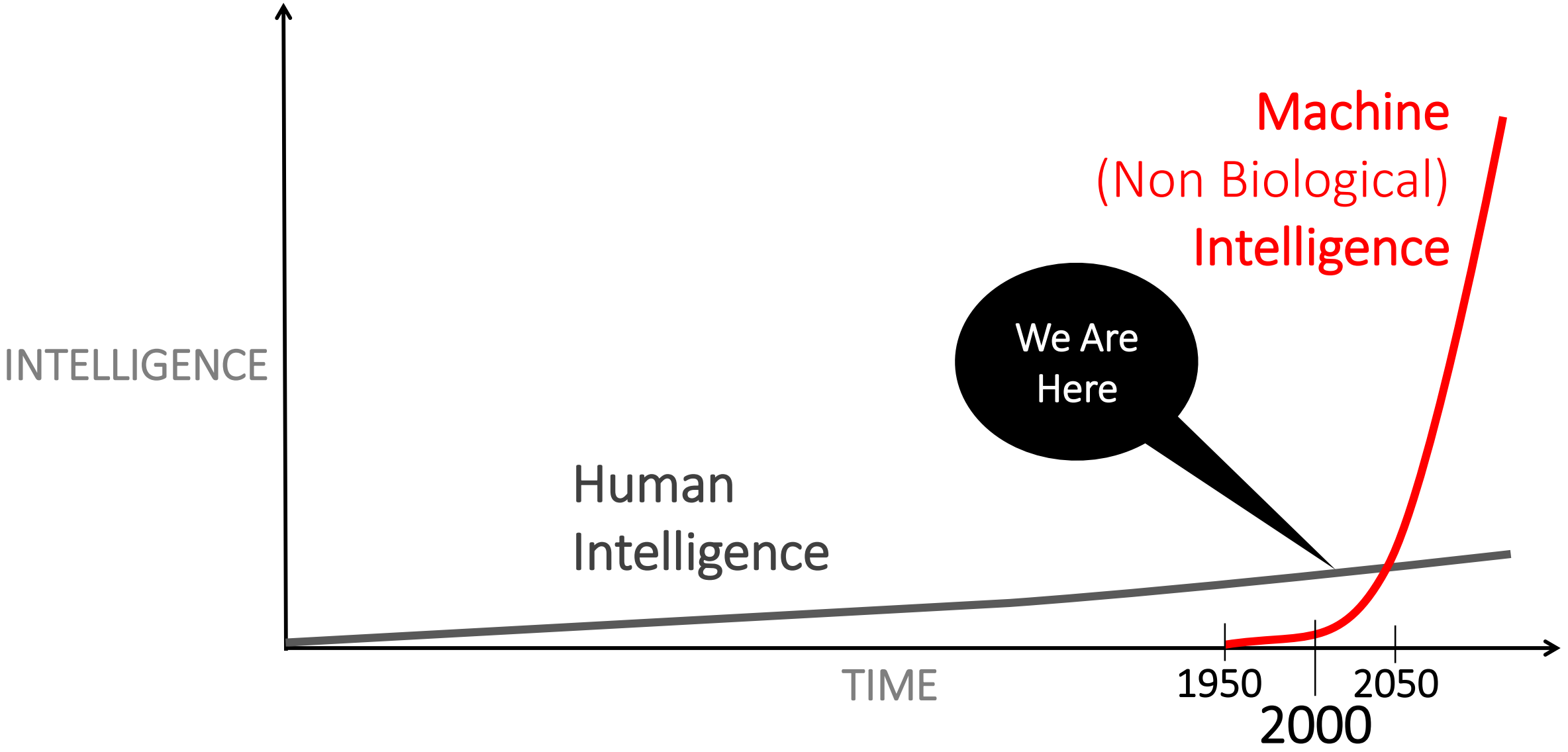
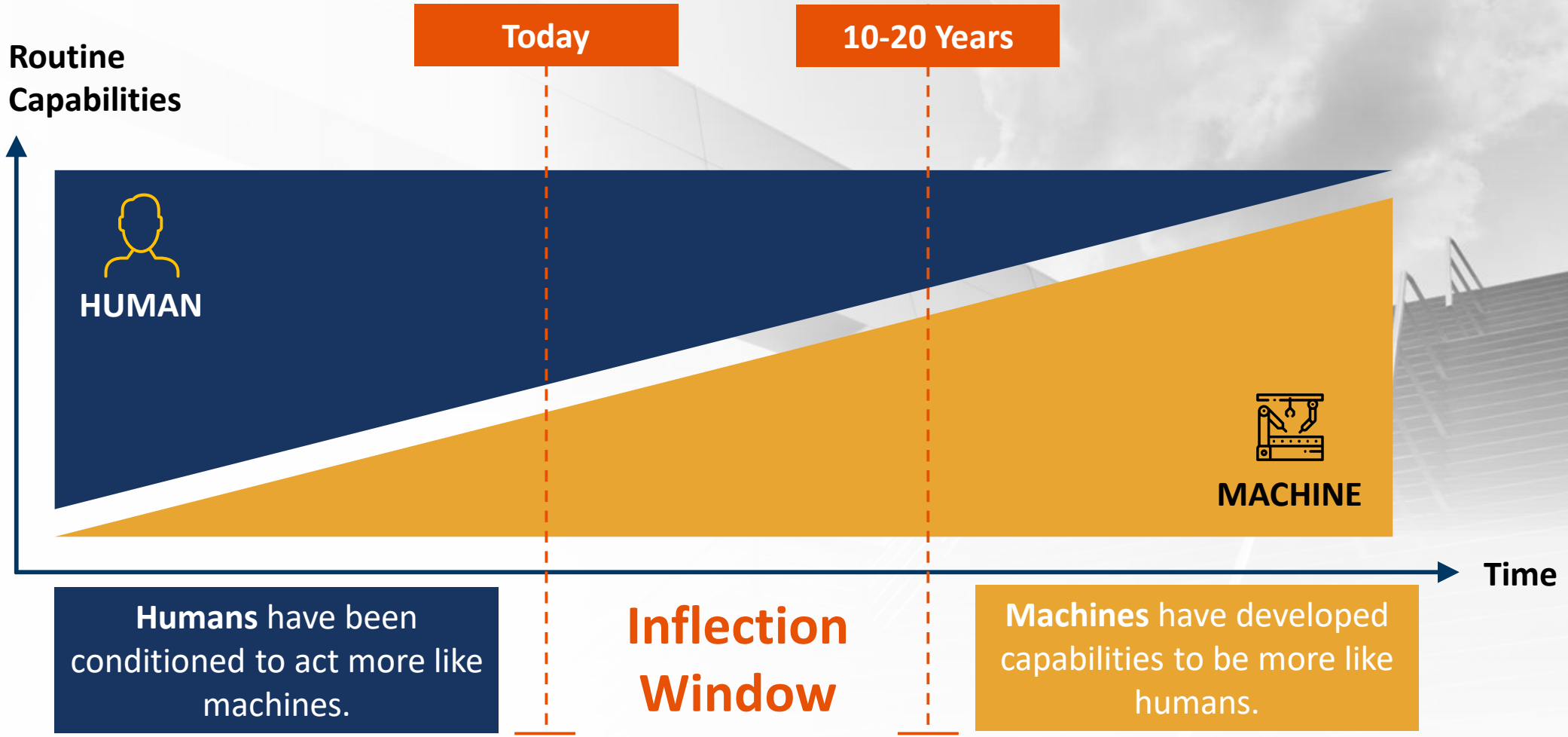
Context: Rising Machine Intelligence



The Inflection Point



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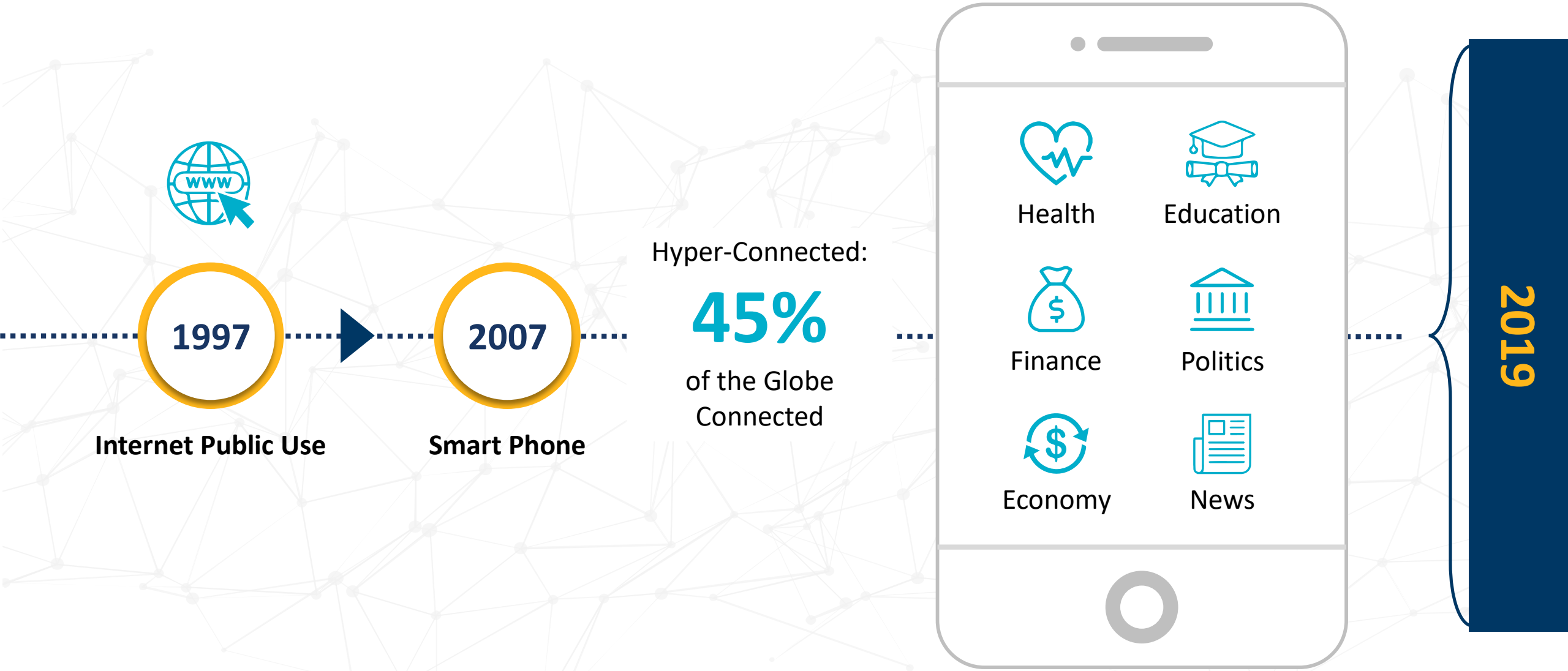
Past Innovation



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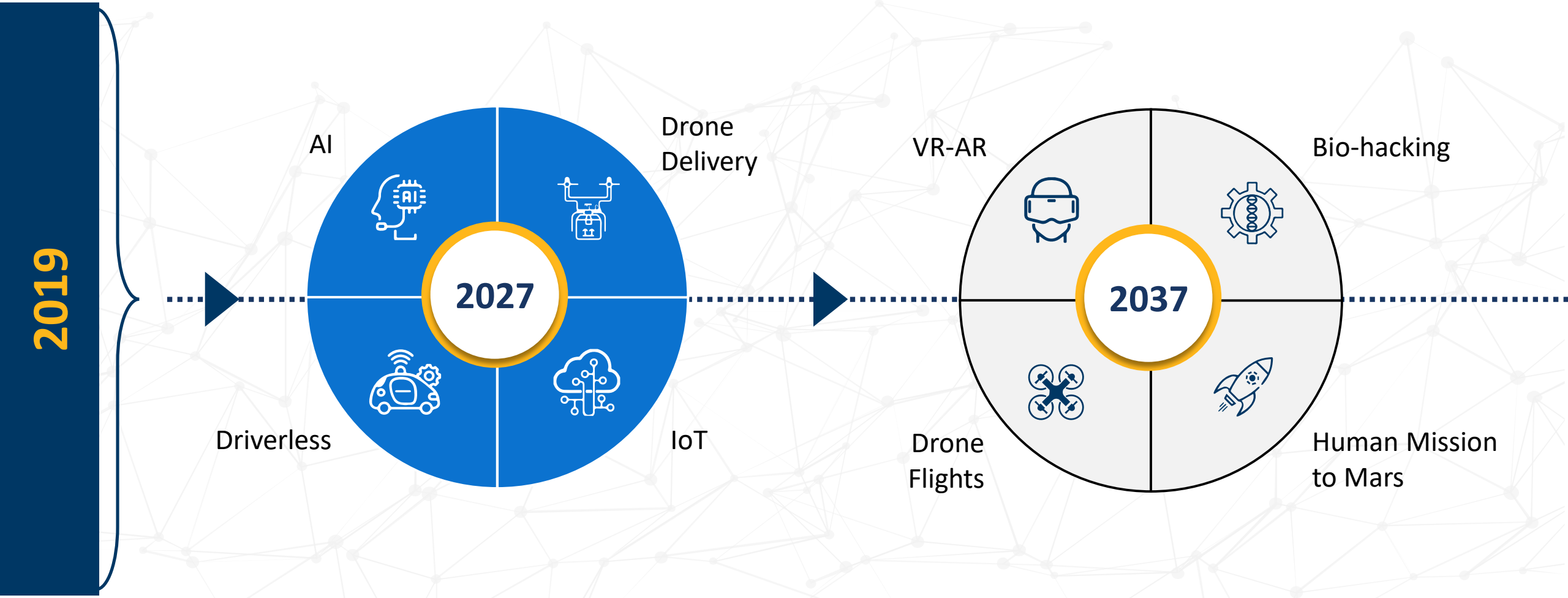
Rapid Innovation as the Norm



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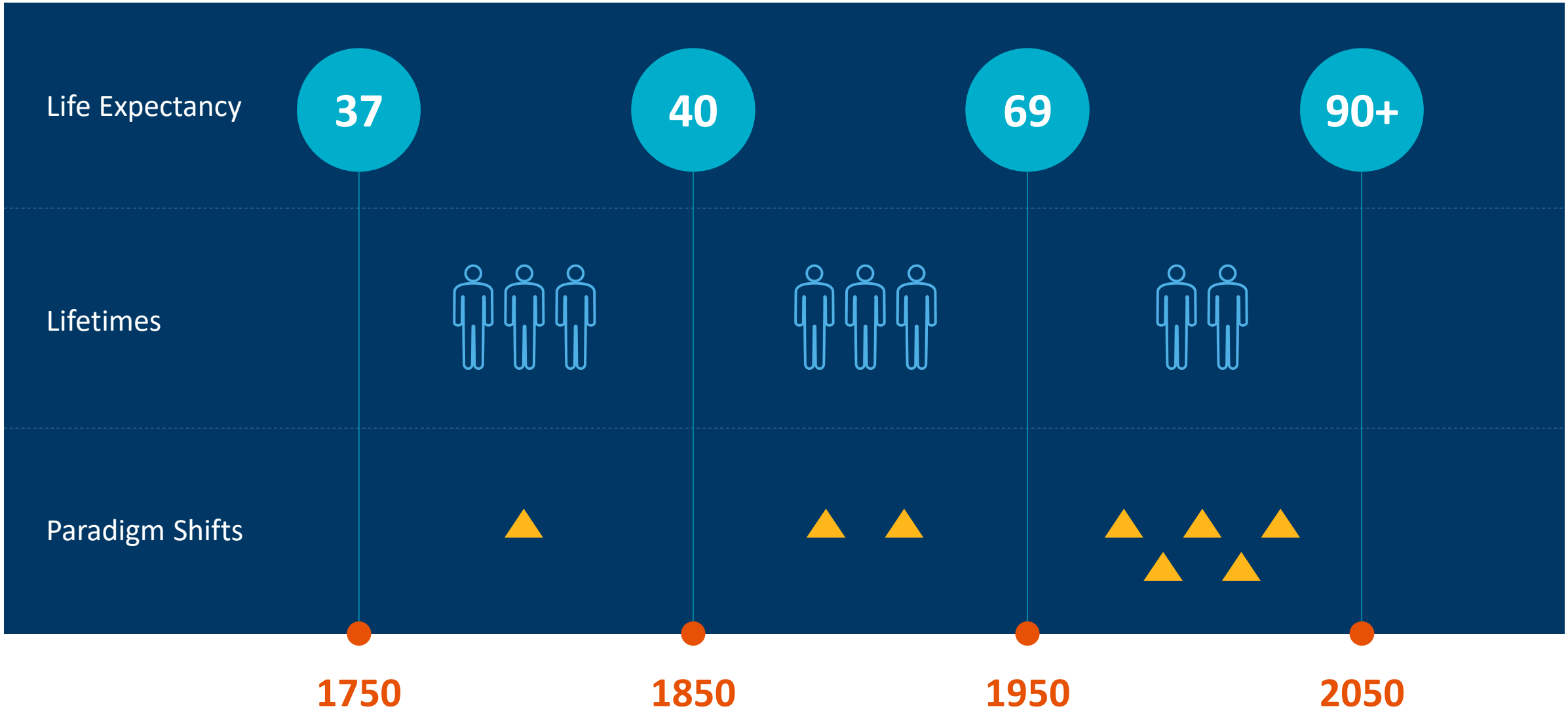

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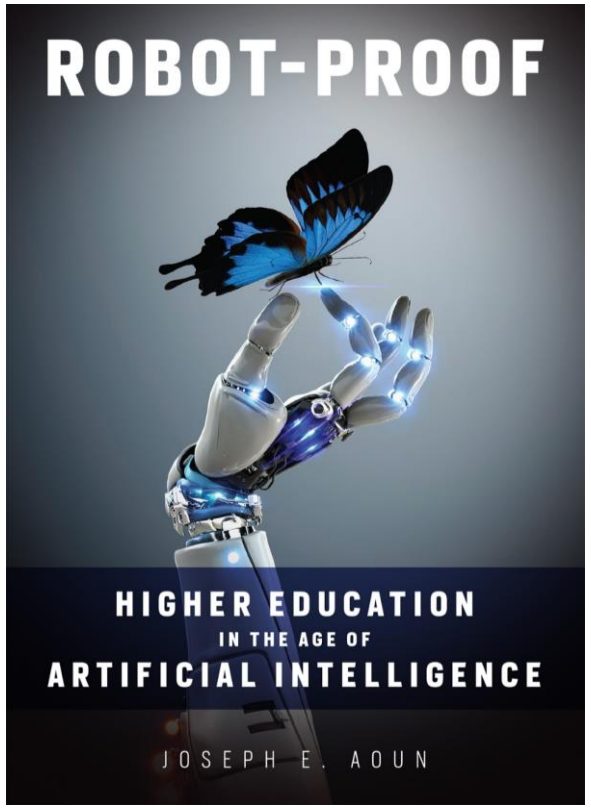
Work Transforming: New Skills Emerge (Consensus)

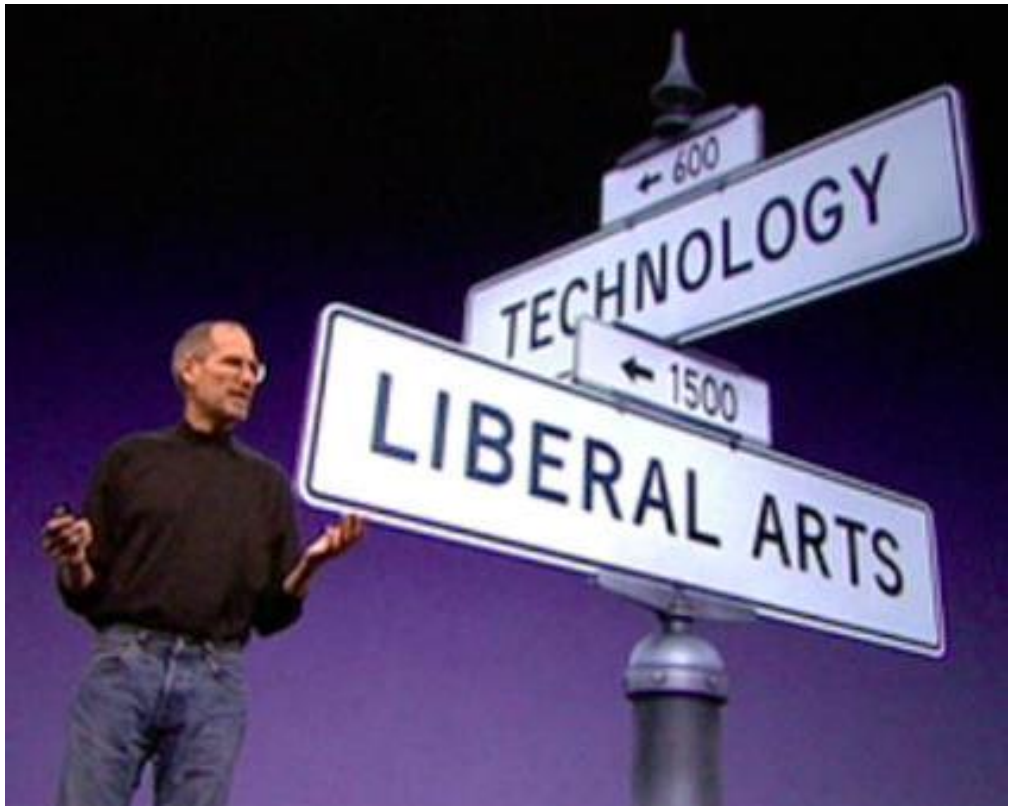
Northeastern University President 2017



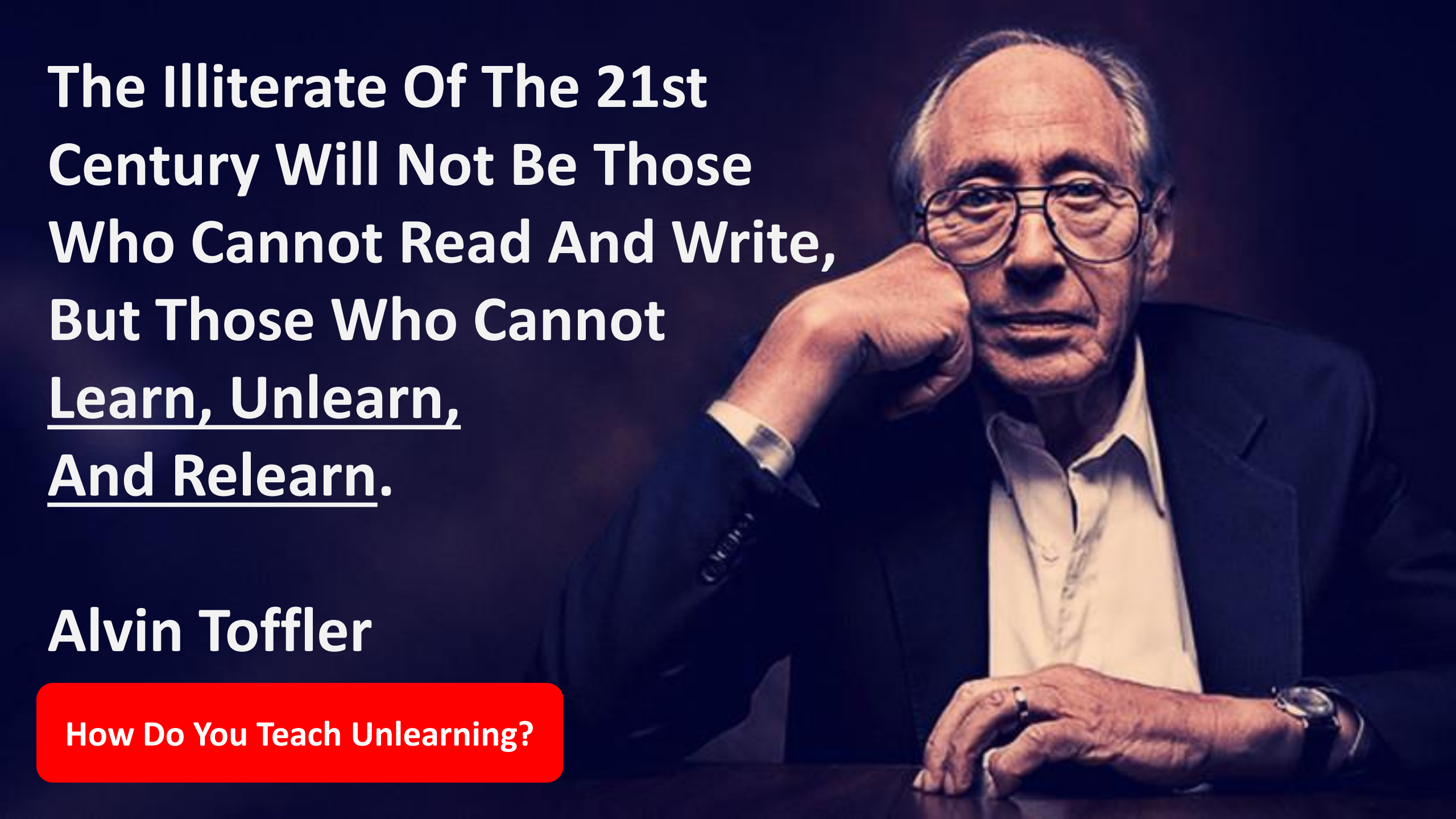
Humanics = Technological Literacy + Data Literacy + Human Literacy

Human Literacy = Humanities, Communication, Design,

Steve Jobs Farwell Address to Apple 2011



*...**Technology** alone is not enough — it's **technology** married with **liberal arts**, married with the **humanities**, that yields us the results that make our heart sing*


The Illiterate Of The 21st Century Will Not Be Those Who Cannot Read And Write, But Those Who Cannot Learn, Unlearn, And Relearn.
Alvin Toffler
How Do You Teach Unlearning?

The Agile Mindset

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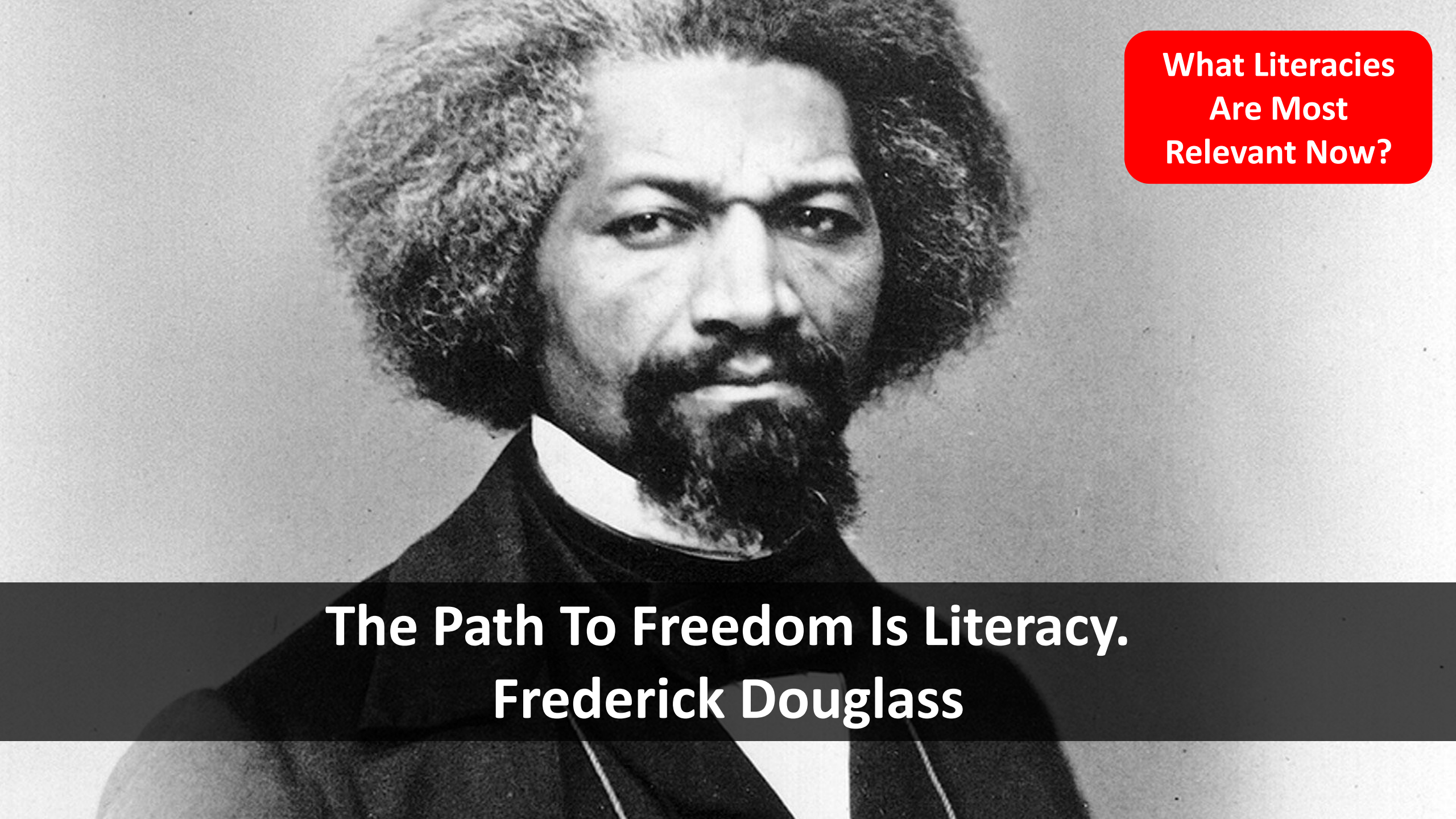
The Agile Mindset and the Academy

Giving students a strong liberal arts education , teaching them how to add and create new value with essential human skills that cannot be replicated by robots or an algorithm, is the foundation for a 21st century university and the essence of the “Agile Mindset”.

Robert E. Johnson

Think Differently

- The future of work is learning to learn, unlearn, and relearn
- Constantly expand capabilities
- The academy must think differently (lifelong)
- Focus on uniquely human skills and technology literacy that add and create value
- It is not about chasing skills, but building agency and mindsets
- Start with why and/or purpose
- Provides a skillset and mindset with a sense of humanity



What Literacies Are Most Relevant Now?

The Path To Freedom Is Literacy.
Frederick Douglass

Thank you!

Please connect with me to learn more:

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