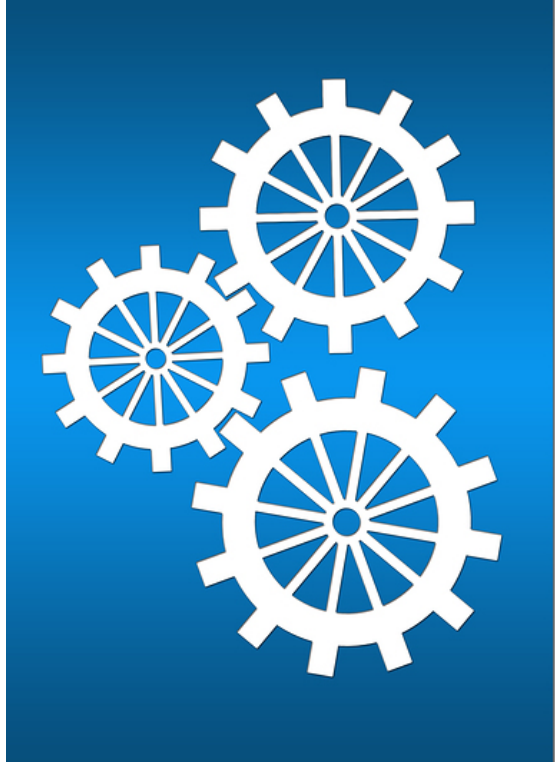


# Top Disruptor #4: Artificial Intelligence and Automation







**AUTOMATION**





# Aqueduct 3500 – 300 BCE

Minoans, Assyrians, Romans

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# Water wheels

Mesopotamia, India and China, Greco-Roman

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Hero of Alexandria –  
Egypt 1<sup>st</sup> Century BC

First Vending  
Machine

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# Windmills

Persia 500-900 AD

Europe in 1090 AD - Crusades





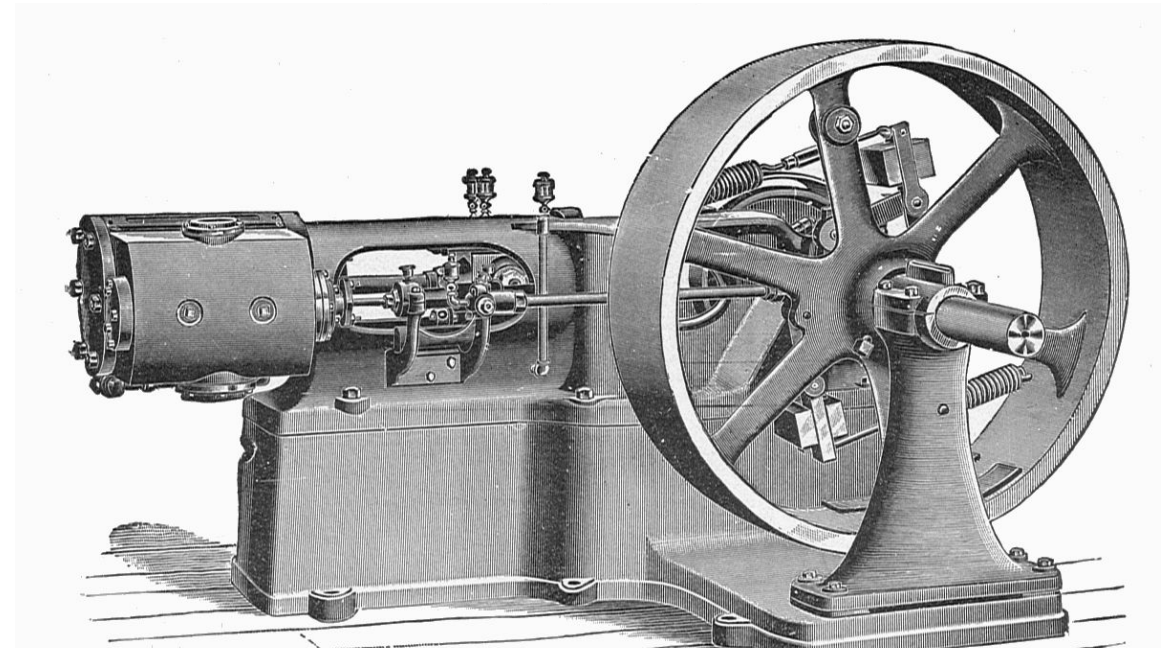


# Printing Press, 1439

# Steam Engine, 1712-1775

An Invention that Changed History

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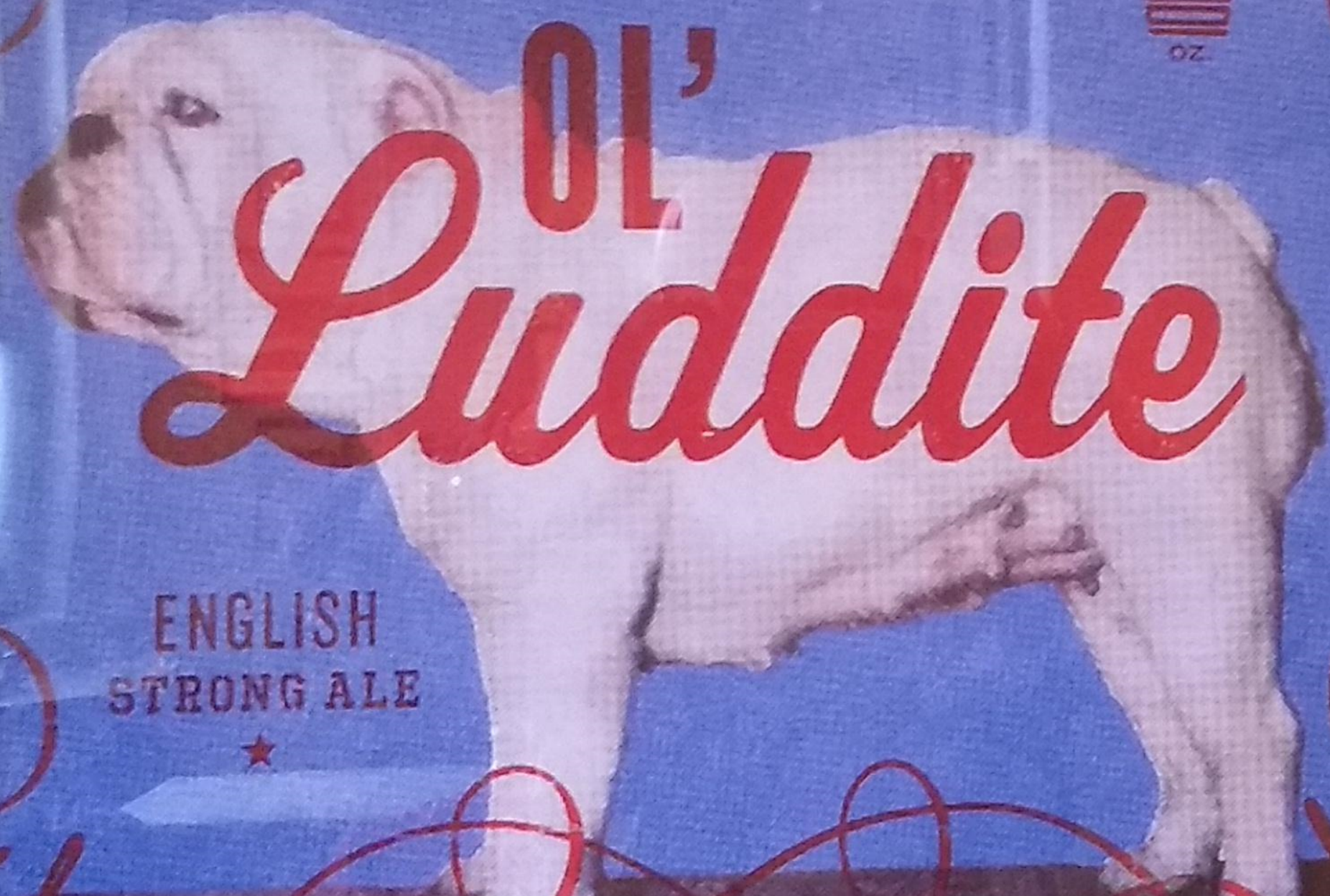
# Ned Ludd and the Luddites 1779-1820

*Drawn from Life by an Officer*

**THE LEADER OF THE LUDDITES**

*Pubd May 1812 by Messrs Walker and Knight, Sweeting's Alley Royal Exchange.*

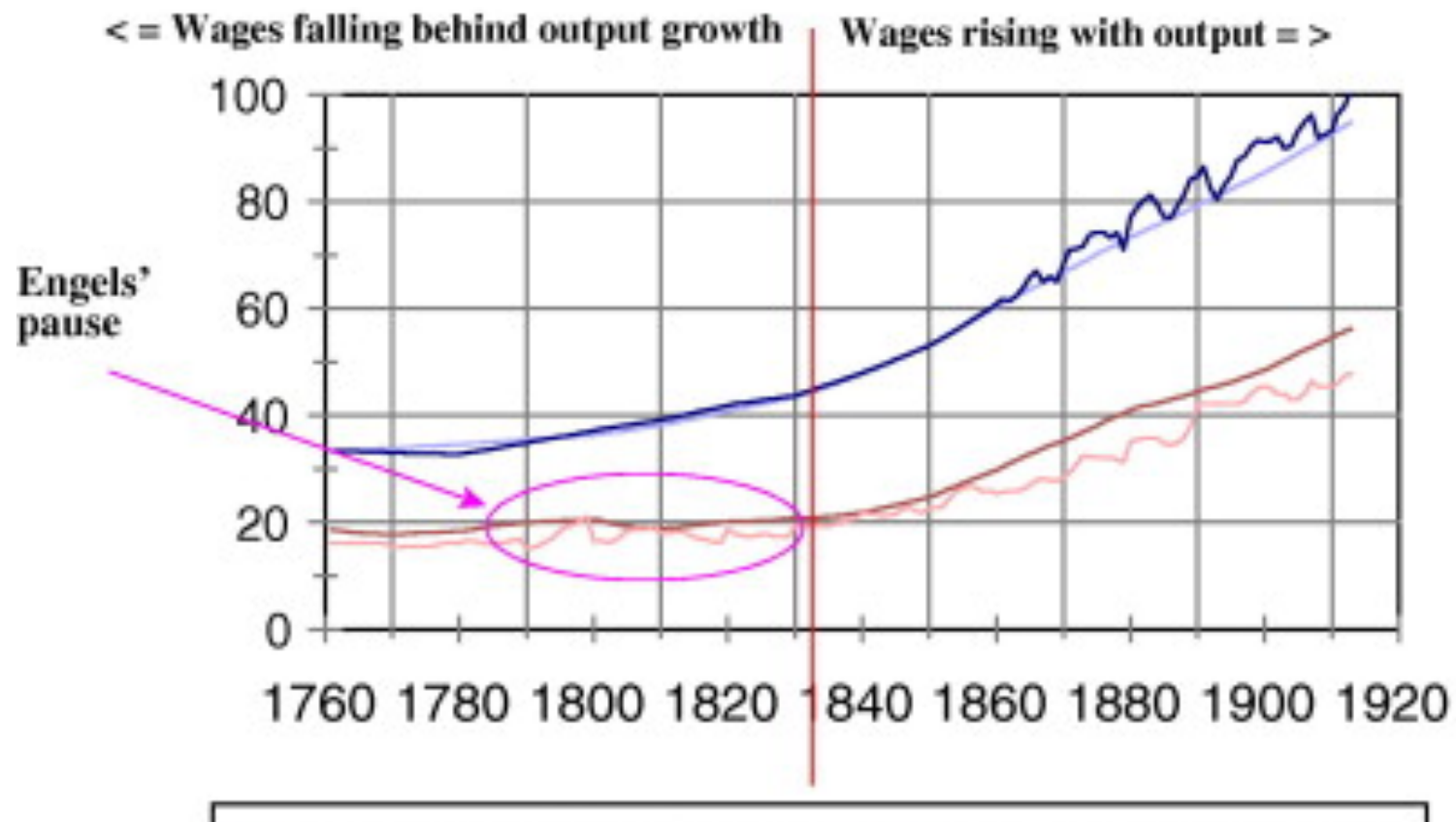




OL'  
*Luddite*

ENGLISH  
STRONG ALE





# Engel's Pause, 1800-1870





# Electricity 1870-1920

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Unimate –  
GM 1961

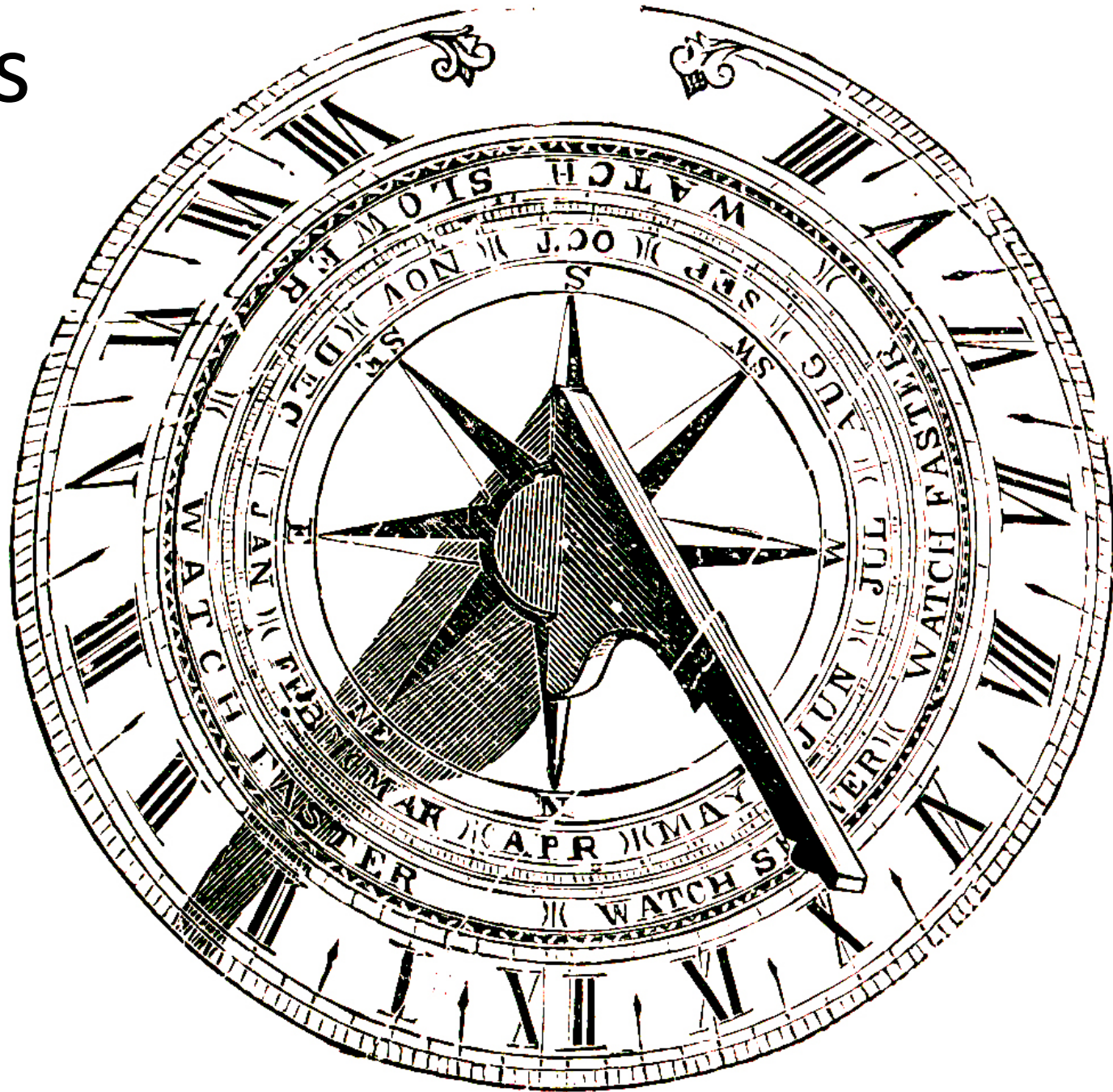






ATM 1967

Machines  
doing  
the work  
of  
humans



Are things  
different  
this time?





Every Company is a Tech Company Now





# Autonomous Cars

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3D Printed Bridge





Autonomous Construction Vehicles

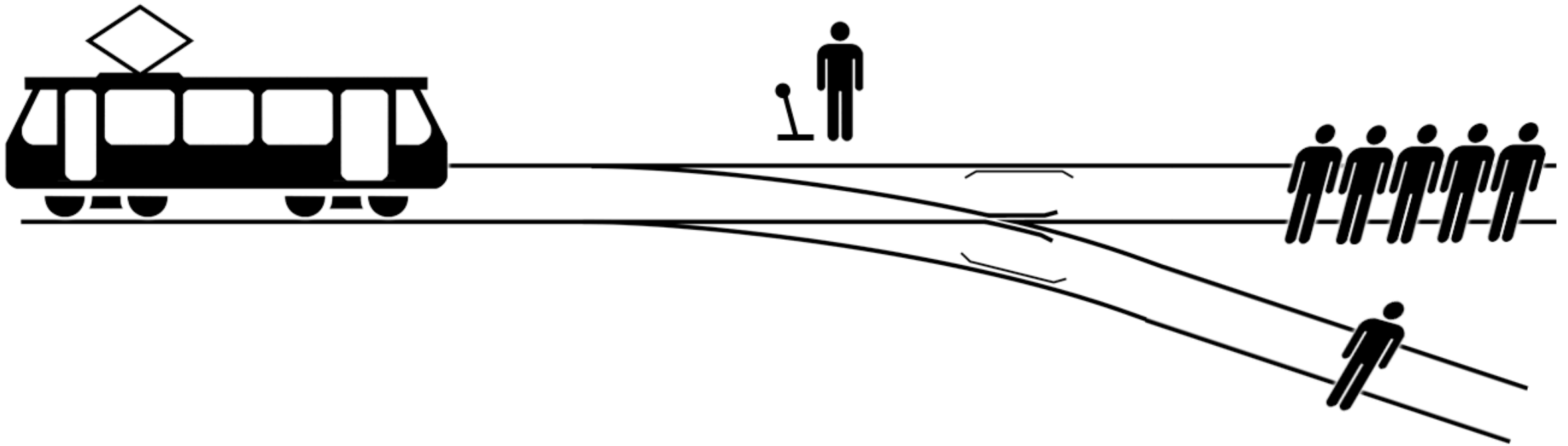
# Ethics of AI

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# The Trolley Problem - 1905





How will this new tech disrupt? |





rosss@microsoft.com

# Thank you!



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rosss42



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