

SCENARIOS WORKSHOP

ARE WE THERE YET?



Instructions

1

Introduce a topic

2

List possible milestones

3

Select your response

4

See how everyone voted



Topic #1: Space Travel

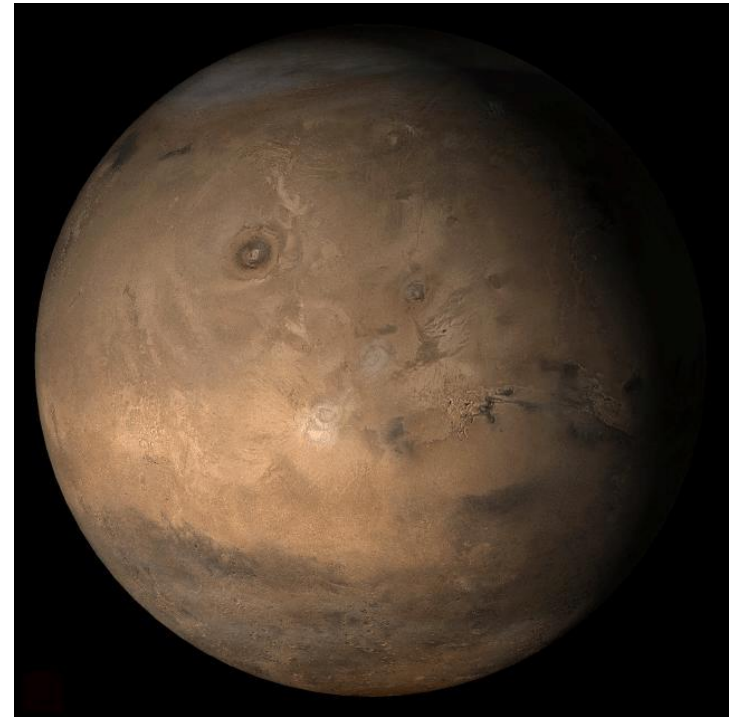


Image credits (left to right): NASA and NASA/JPL/Malin Space Science Systems

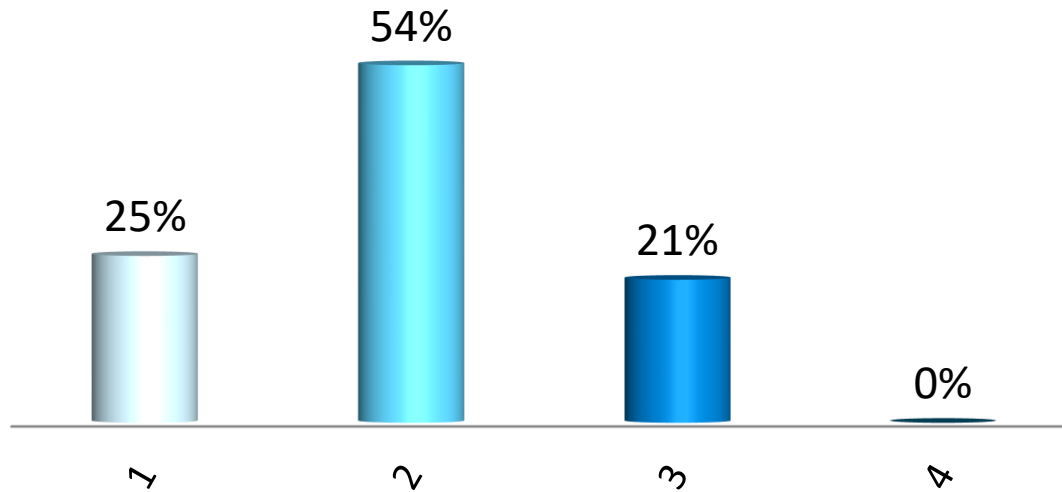
Topic #1: Space Travel

By 2030, the United States...

Option	Answer
1	...will not have returned to the moon
2	...will have successfully returned to the moon
3	...will have successfully sent individuals to Mars
4	...will have successfully sent individuals beyond Mars



Audience Voting



1. ...will not have returned to the moon
2. ...will have successfully returned to the moon
3. ...will have successfully sent individuals to Mars
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Topic #2: Hyperloop Technology



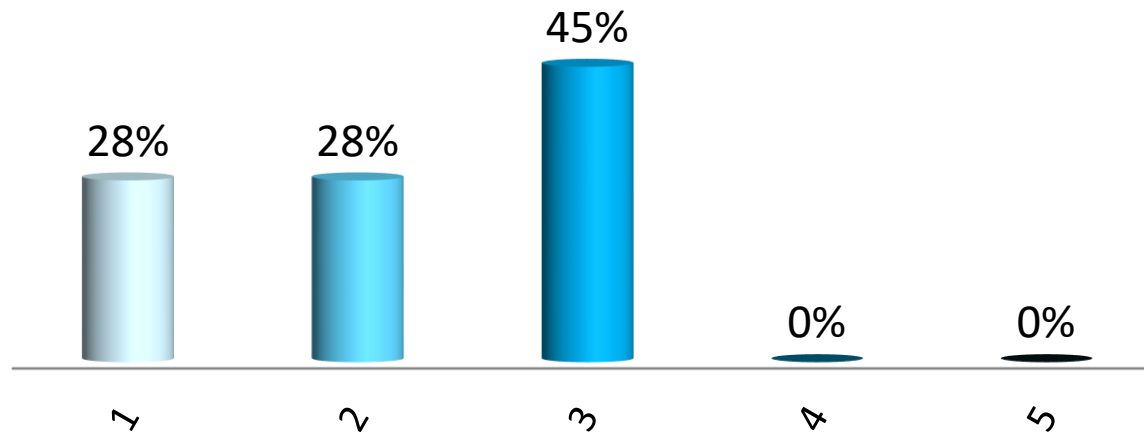
Topic #2: Hyperloop Technology

By 2030, fully operational hyperloops for public transportation...

Option	Answer
1	...won't exist anywhere in the world
2	...exist in other countries, but not in the U.S.
3	...exist in the U.S., but in small numbers (e.g., < 5)
4	...exist in the U.S., with most promising hyperloop corridors in operation
5	...exist extensively throughout the U.S., creating a near or complete nationwide network for transportation



Audience Voting



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Topic #3: Zero Hunger



Image credits (left to right): United Nations, USDA, and Peggy Greb/USDA

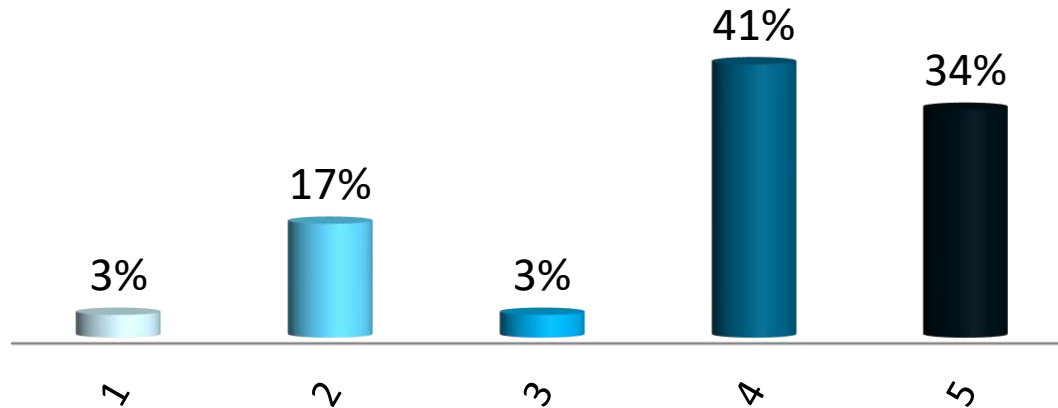
Topic #3: Zero Hunger

By 2030, food insecurity...

Option	Answer
1	...won't exist nearly everywhere around the world
2	...won't exist nearly everywhere in the U.S., but will continue elsewhere
3	...will be significantly reduced in the U.S. relative to 2021
4	...will have experienced little or no positive change in the U.S. versus 2021
5	...will increase in the U.S. relative to 2021



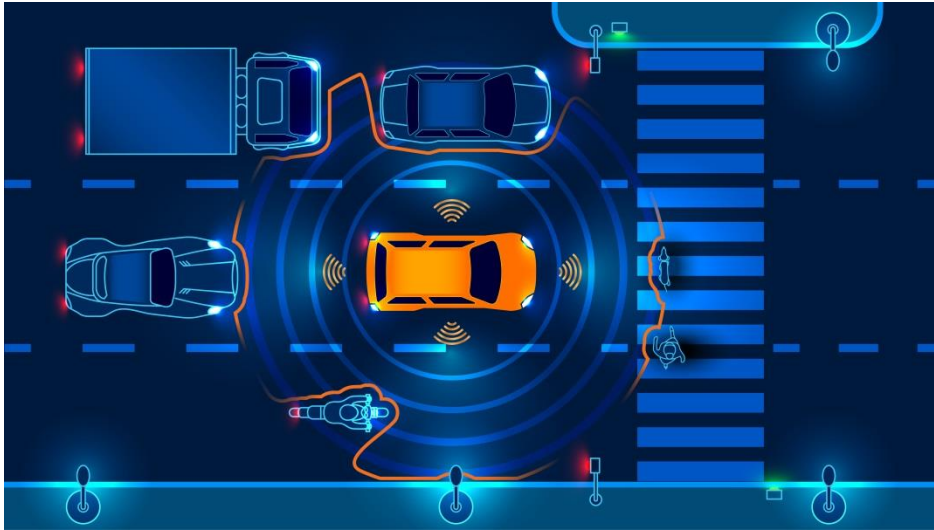
Audience Voting



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Topic #4: Autonomous Vehicles



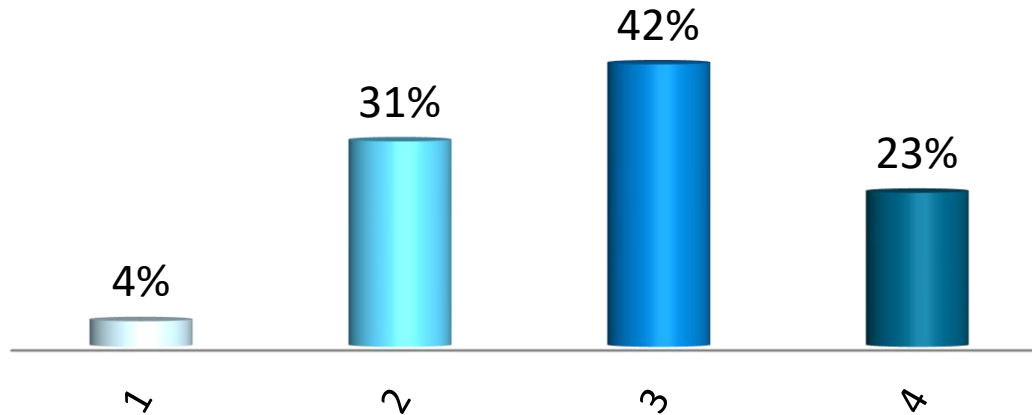
Topic #4: Autonomous Vehicles

By 2030, autonomous vehicles...

Option	Answer
1	...will not be prevalent in the U.S.
2	...will be prevalent in select industries, but not widely adopted
3	...will be prevalent, but remain connected to traditional vehicle designs and require a driver in the loop
4	...will be prevalent, not require human oversight, and will have led to design changes and/or shifts in how society sees individual car ownership



Audience Voting



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3. ...will be prevalent, but remain connected to traditional vehicle designs and require a driver in the loop
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Topic #5: Catastrophic Incidents



Image credits (left to right): CDC, NOAA, Lance Cpl. Ethan Johns/ U.S. Marine Corps, and FEMA

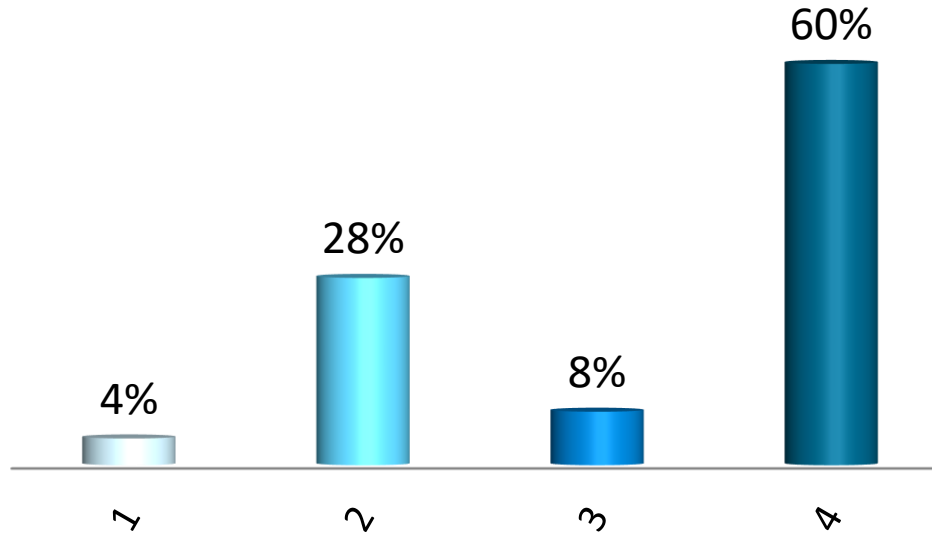
Topic #5: Catastrophic Incidents

By 2030, the United States will have experienced...

Option	Answer
1	...no additional catastrophes
2	...a catastrophic incident
3	...two catastrophic incidents
4	...three or more catastrophic incidents



Audience Voting



1. ...no additional catastrophes
2. ...a catastrophic incident
3. ...two catastrophic incidents
4. ...three or more catastrophic incidents



Topic #6: Fusion

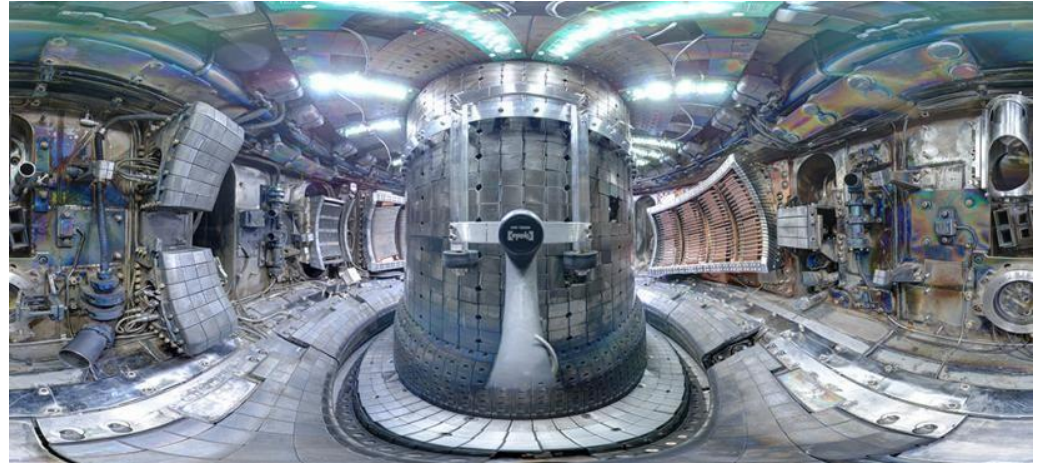
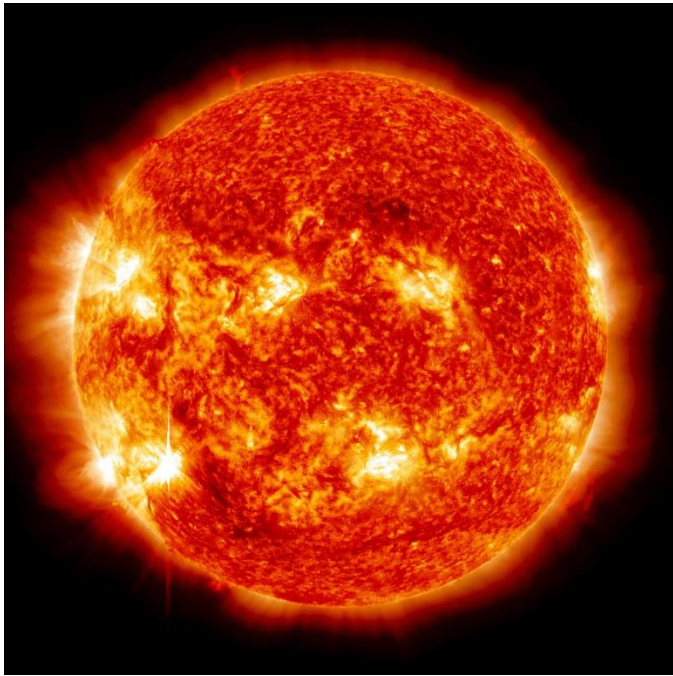


Image credits (left to right): NASA, MIT Plasma Science and Fusion Center, Ken Filar / MIT Plasma Science and Fusion Center

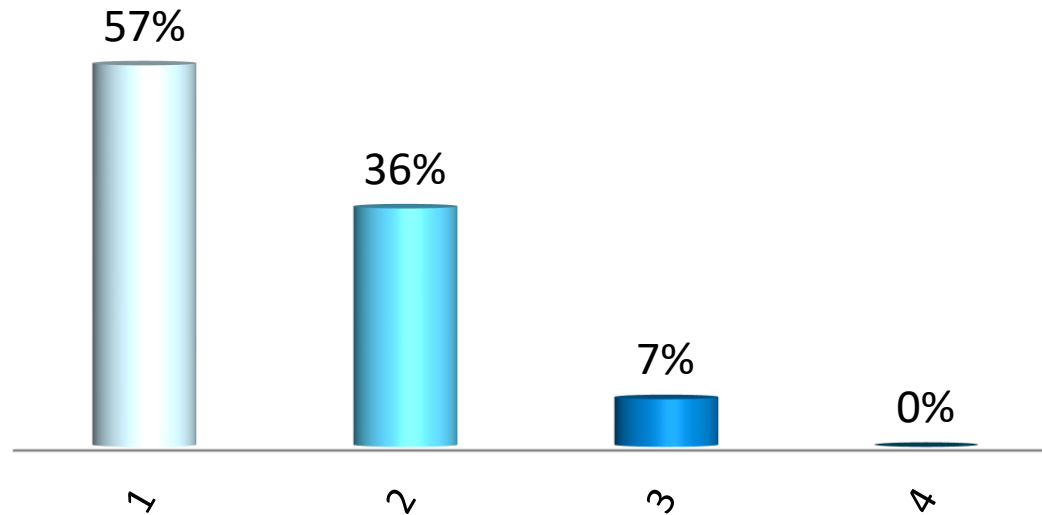
Topic #6: Fusion

By 2030, commercially viable fusion reactors...

Option	Answer
1	...remain unrealized because of technical hurdles
2	...remain unrealized, but prototypes have proven their viability, and construction of commercial-scale reactors has already begun
3	...have been realized, but only in limited numbers
4	...have been realized extensively in developed nations



Audience Voting



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2. ...remain unrealized, but prototypes have proven their viability, and construction of commercial-scale reactors has already begun
3. ...have been realized, but only in limited numbers
4. ...have been realized extensively in developed nations



Topic #7: Virtual Reality



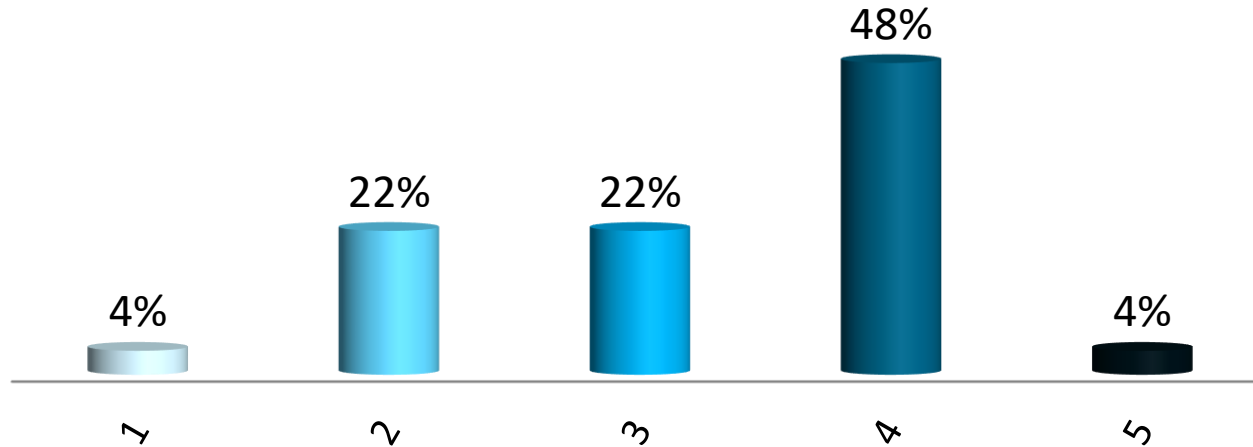
Topic #7: Virtual Reality

By 2030, virtual reality...

Option	Answer
1	...will be limited to a novelty or entertainment function
2	...will be used as a tool in specific applications (e.g., training)
3	...will have permeated more broadly to society, but still largely for early tech adopters and younger individuals
4	...will be pervasive, with most of society spending some time in virtual worlds and environments
5	...will be pervasive, with most of society spending more time in virtual worlds than the real world



Audience Voting



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Topic #8: Medical Breakthroughs

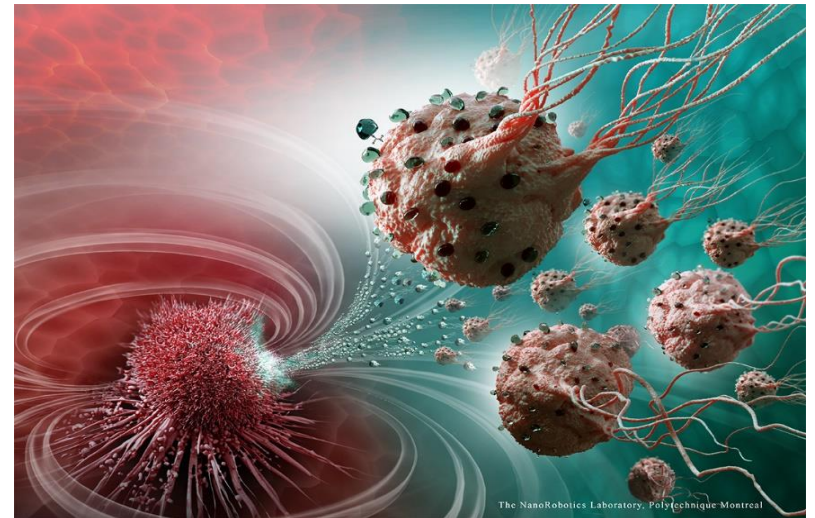
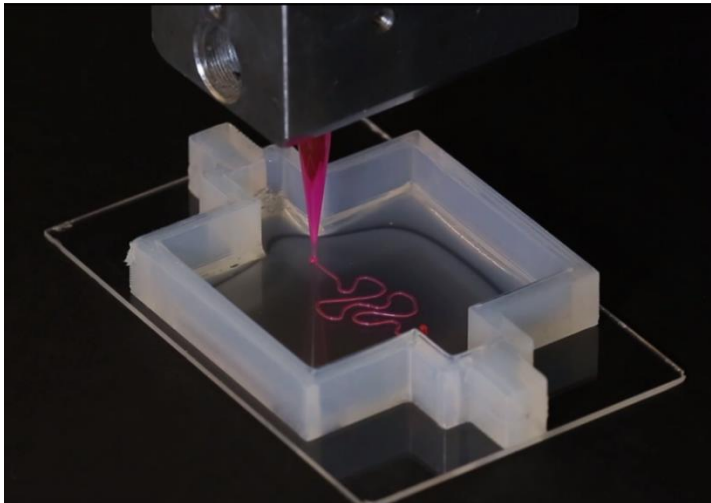
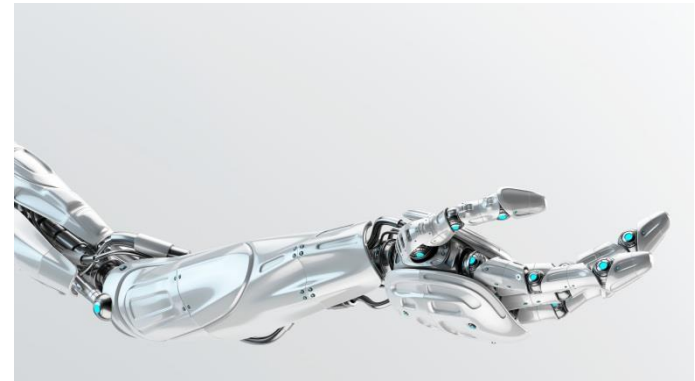
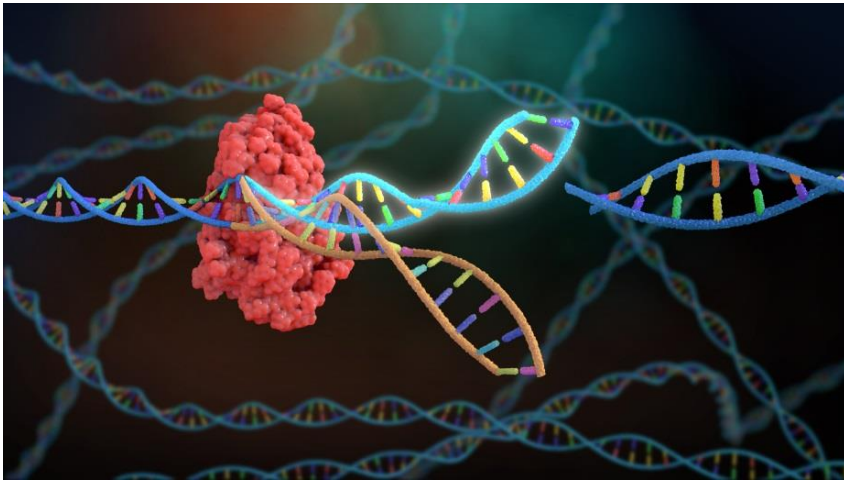


Image credit: Wyss Institute, Harvard University

Image credit: NanoRobotics Laboratory, Polytechnique Montreal

Topic #8: Medical Breakthroughs

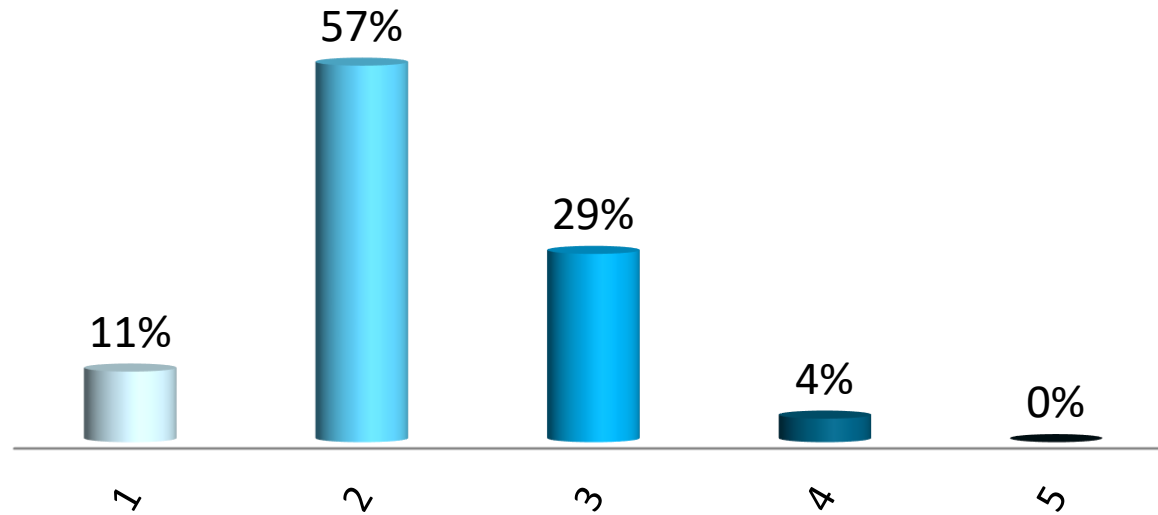
By 2030, how many of the following medical breakthroughs will be a reality in the United States?

- Genome editing has eliminated numerous hereditary diseases
- 3D printed kidneys have eliminated the transplant waiting list
- Nanorobots and nano-biosensors in your body
- Bionics/prosthetics restore and enhance natural motion and sensory perception

Option	Answer
1	At least one
2	At least two
3	At least three
4	All four
5	None



Audience Voting



1. At least one
2. At least three
3. At least three
4. All four
5. None



