SCENARIOS WORKSHOP ARE WE THERE YET?



Instructions

Introduce a topic 1 List possible milestones 2 Select your response 3 See how everyone voted 4



Topic 1: Space Travel

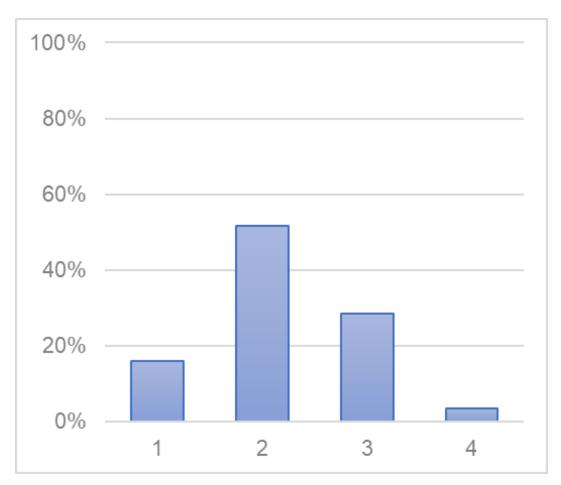




By 2035, the United States...

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





...will not have returned to the moon
...will have successfully returned to the moon
...will have successfully sent individuals to Mars
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Topic 2: Brain-Computer Interfaces (BCI)



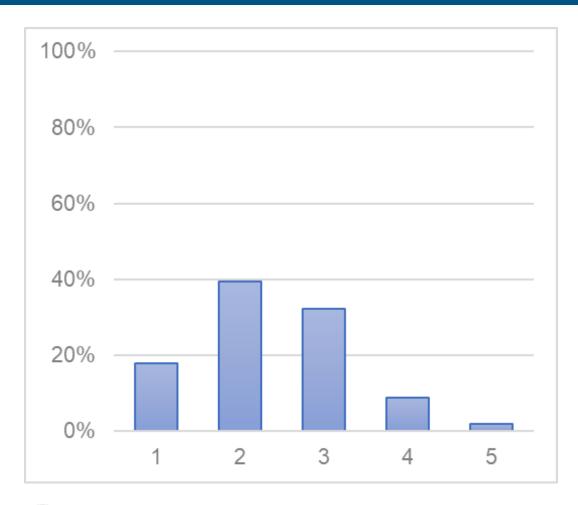


By 2035, how many of the following statements about braincomputer interfaces will be true?

- Noninvasive BCI headsets will monitor alertness, attention span, and indicators of fatigue in certain workplace environments
- Invasive BCI devices will allow for locked-in individuals to communicate at "able-bodied typing speeds" (~40 words per minute)
- Noninvasive BCI will be able to read an individual's unique brain patterns, like a biometric marker
- Information can be transmitted directly to the brain via an invasive BCI

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





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



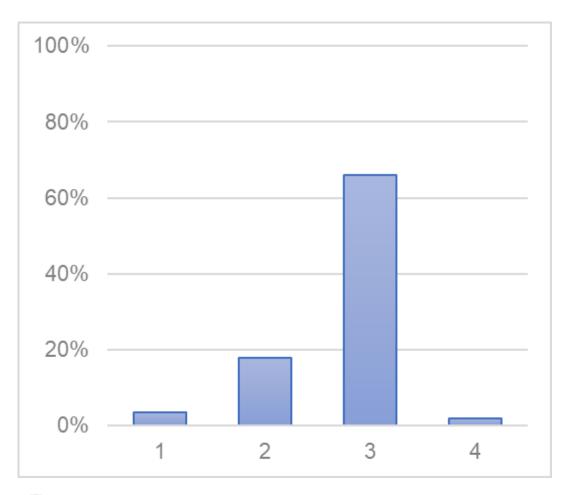
Topic 3: Virtual Reality





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





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Topic 4: Hyperloop

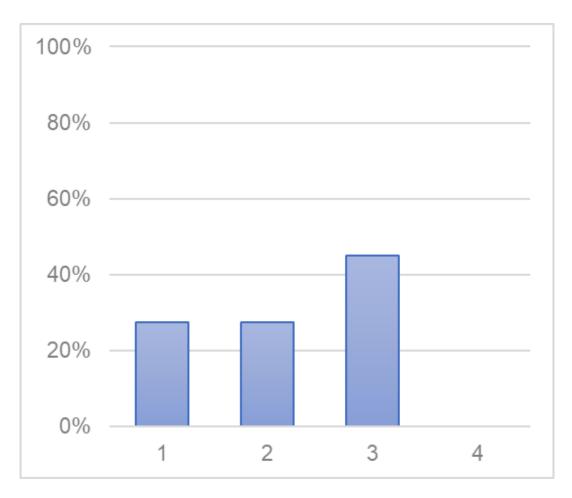




By 2035, fully operational hyperloops for public transportation...

Option	Answer	
1	won't exist anywhere in the world	
2	exist in other countries, but not in the United States	
3	exist in the United States, but in small numbers (e.g., < 5)	
4	exist in the United States, with most promising hyperloop corridors in operation	



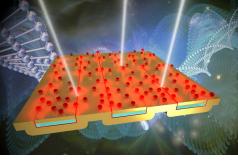


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Topic 5: Synthetic Biology







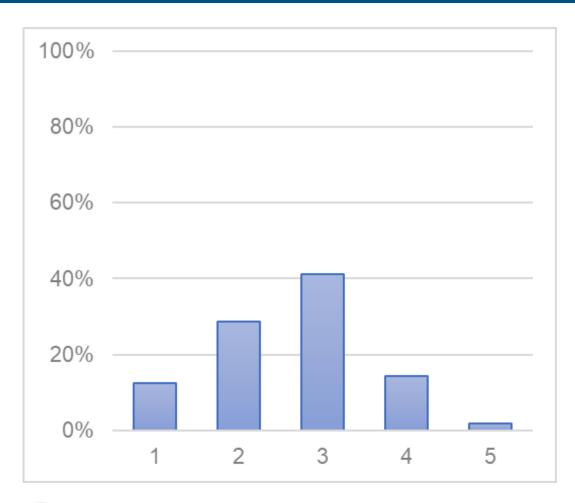
How many of the following statements about synthetic biology will be true?

By 2035, synthetic biology...

- ...will allow many forms of cancer to be cured
- ...will have provided a viable alternative to petrochemical generation
- ...will produce cell-cultured seafoods that are widely available for consumers
- ...will lead to the eradication of malaria

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





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



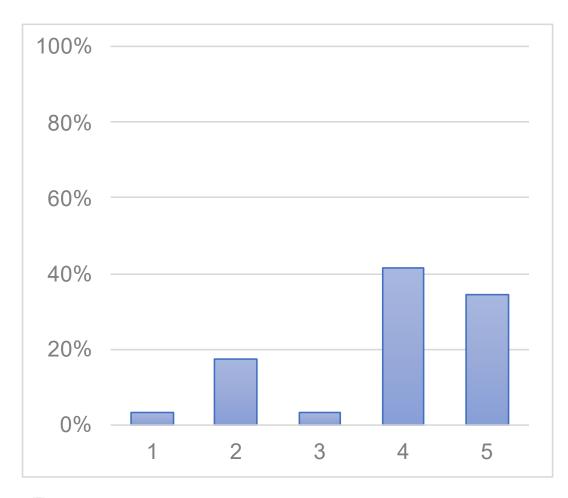
Topic 6: Zero Hunger



By 2035, food insecurity...

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





- 1. ...won't exist nearly anywhere around the world
- 2. ...won't exist nearly anywhere in the United States, but will continue elsewhere
- 3. ...will be significantly reduced in the United States relative to 2021
- 4. ...will have experienced little or no positive change in the United States versus 2021
- 5. ...will increase in the United States relative to 2021



Topic 7: Quantum Technologies

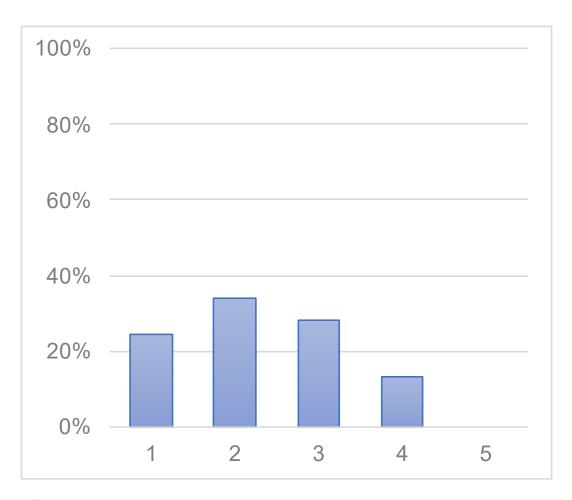


By 2035, how many of the following will become a reality with quantum technologies?

- Quantum sensors in commercial use for critical infrastructure detection and monitoring (e.g., pipeline leak detection)
- Development of the first nationwide quantum Internet in the United States
- Quantum computers capable of breaking public-key encryption
- Quantum simulations capable of addressing complex molecular interactions, leading to novel materials and therapeutics development

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





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

