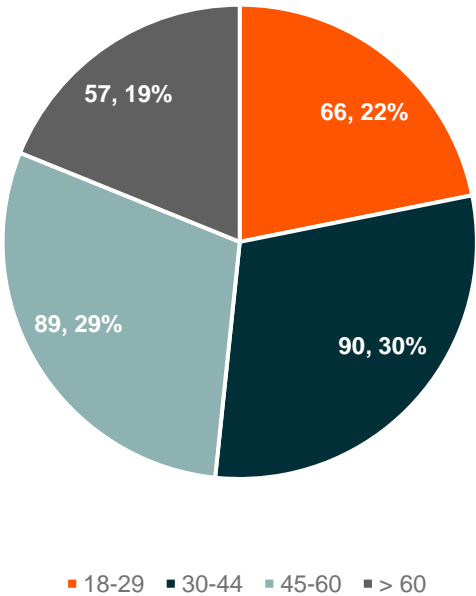# February 2023 Survey

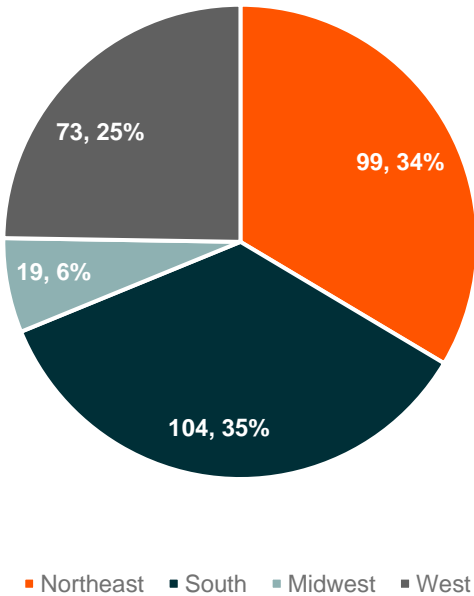## Future of Generative AI

Q1 2023

Survey: Age, Region, Lifestyle Demographics

In February 2023, Global X Research surveyed 302 individuals in the United States regarding their reservations and expectations concerning generative artificial intelligence (AI). This includes gauging consumer sentiment on its aptitudes, how it will influence specific themes, and the coexistence of humankind and AI.
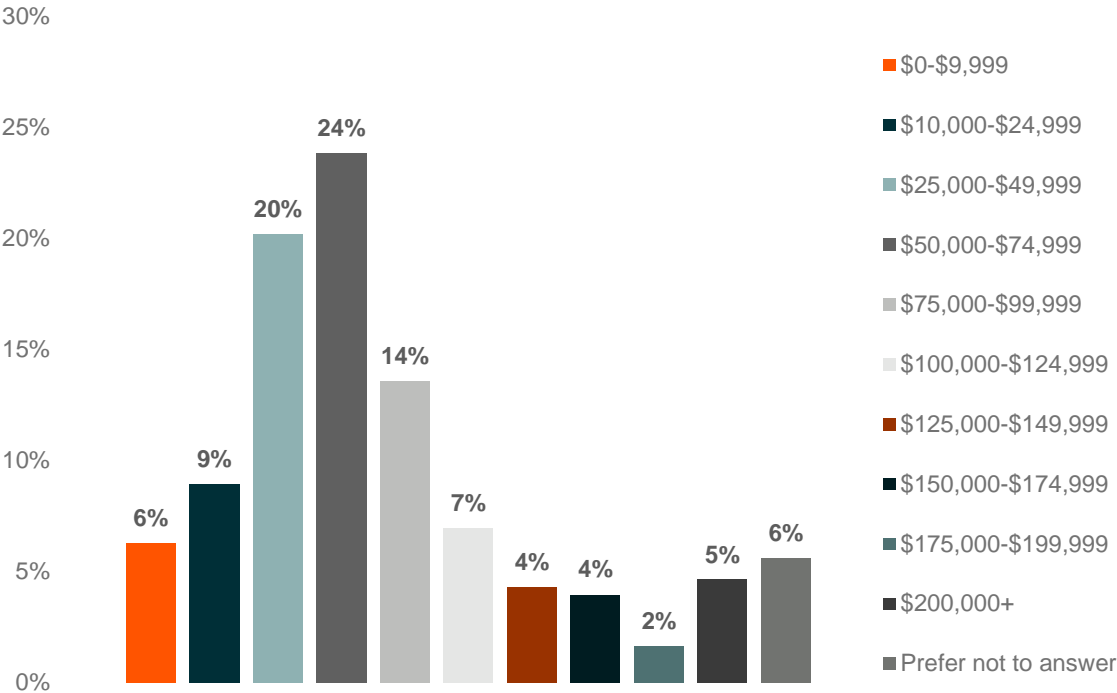
RESPONDENTS BY AGE (#,%)

- 18-29
- 30-44
- 45-60
- > 60

57, 19%
66, 22%
89, 29%
90, 30%

RESPONDENTS BY REGION (#,%)

- Northeast
- South
- Midwest
- West

73, 25%
99, 34%
19, 6%
104, 35%

RESPONDENT HOUSEHOLD INCOME (%)

- $0-$9,999
- $10,000-$24,999
- $25,000-$49,999
- $50,000-$74,999
- $75,000-$99,999
- $100,000-$124,999
- $125,000-$149,999
- $150,000-$174,999
- $175,000-$199,999
- $200,000+
- Prefer not to answer

6% 9% 20% 24% 14% 7% 4% 4% 2% 5% 6%
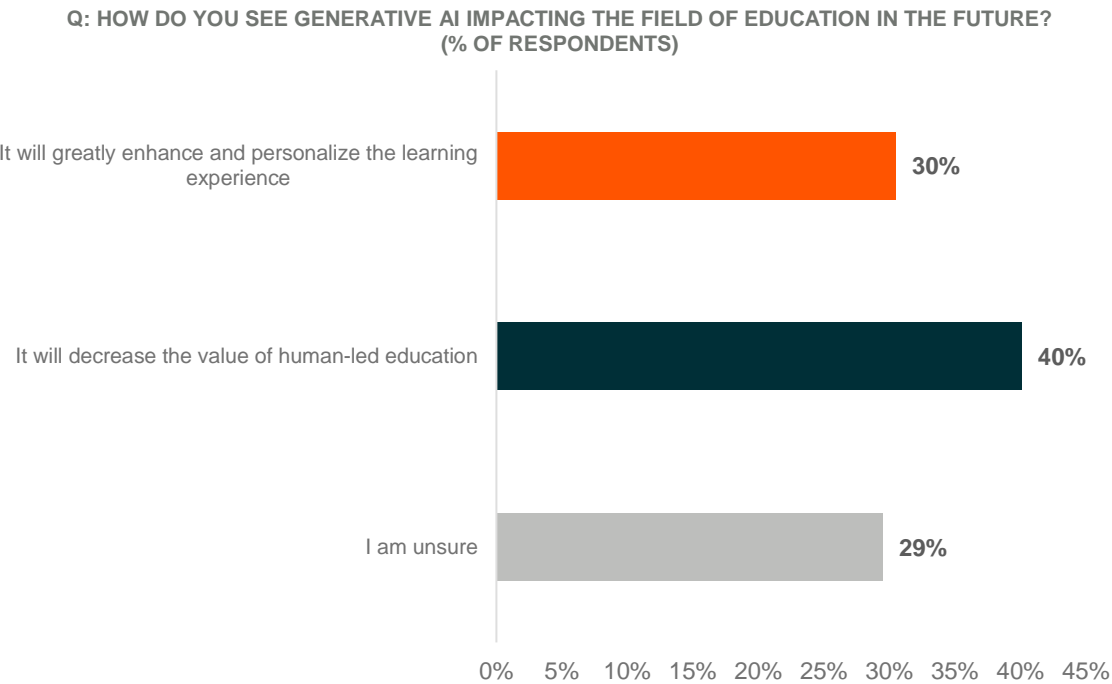
Source: Global X, February 2023.

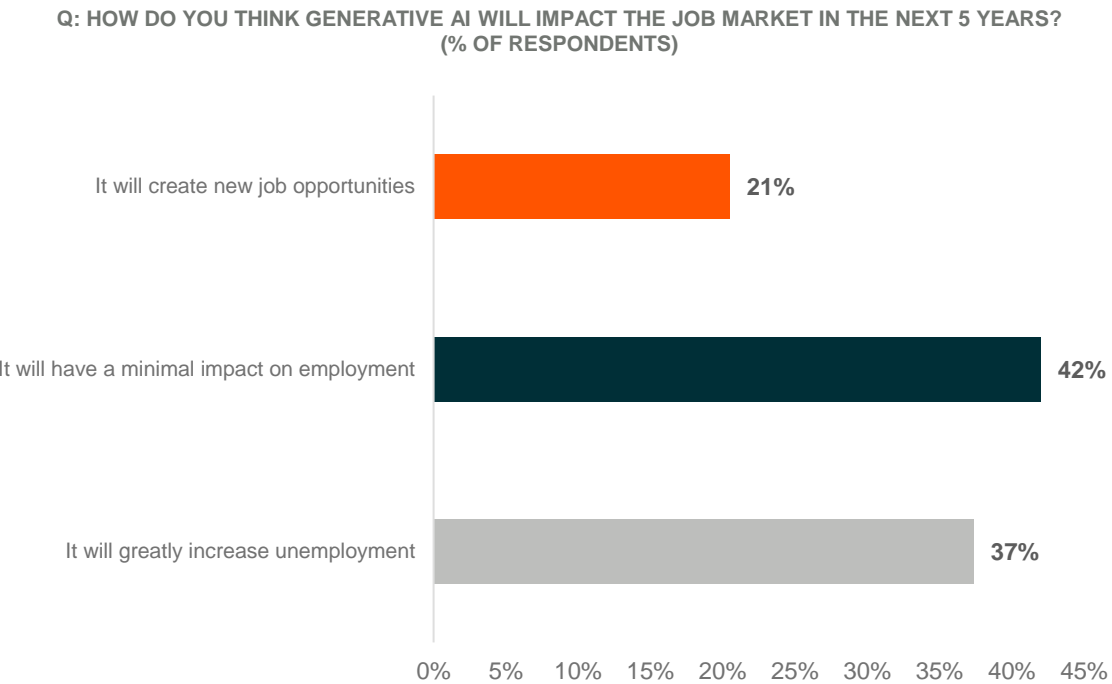# Americans Are Hesitant About The Prospects of AI, From Learning to Working

40% OF RESPONDENTS FEEL AI INTEGRATION INTO EDUCATION WILL DECREASE THE VALUE OF HUMAN-LED EDUCATION

Q: HOW DO YOU SEE GENERATIVE AI IMPACTING THE FIELD OF EDUCATION IN THE FUTURE?
(% OF RESPONDENTS)

It will greatly enhance and personalize the learning experience — 30%

It will decrease the value of human-led education — 40%

I am unsure — 29%

NEARLY 80% OF SURVEY RESPONDENTS BELIEVE AI WILL EITHER MINIMALLY OR NEGATIVELY IMPACT THE JOB MARKET

Q: HOW DO YOU THINK GENERATIVE AI WILL IMPACT THE JOB MARKET IN THE NEXT 5 YEARS?
(% OF RESPONDENTS)

It will create new job opportunities — 21%

It will have a minimal impact on employment — 42%

It will greatly increase unemployment — 37%

Note: N = 302
Source: Global X, February 2023.

Note: N = 302
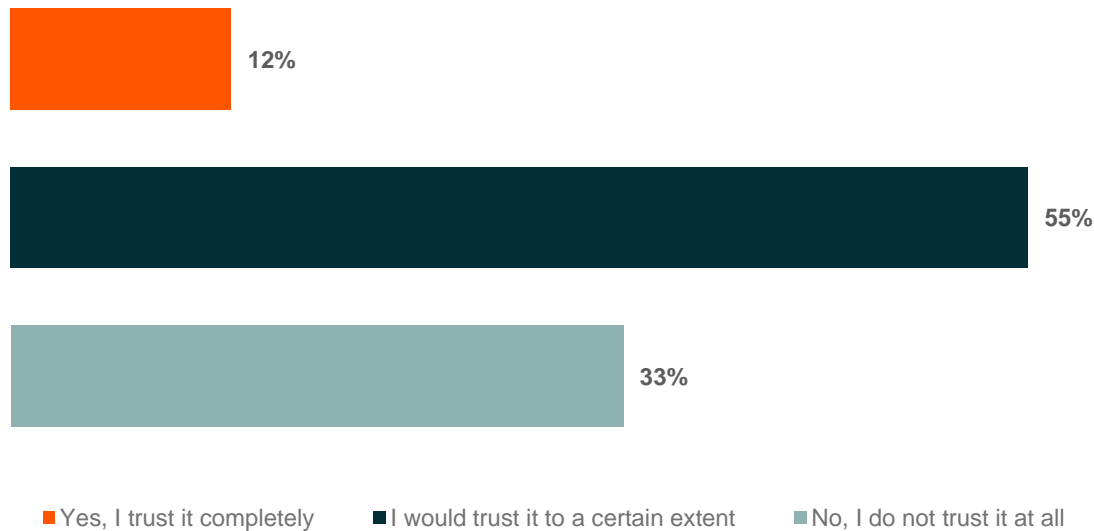*Source: Global X, February 2023.*

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Respondents Are More Optimistic About The Idea of AI Content Generation Than Consumption

ABOUT TWO-THIRDS OF RESPONDENTS AT LEAST SOMEWHAT TRUST AI CONTENT CREATION WITHIN NEWS AND MUSIC

Q: WOULD YOU TRUST GENERATIVE AI TO CREATE CONTENT SUCH AS NEWS ARTICLES OR MUSIC?
(% OF RESPONDENTS)

- 12%
- 55%
- 33%

■ Yes, I trust it completely ■ I would trust it to a certain extent ■ No, I do not trust it at all
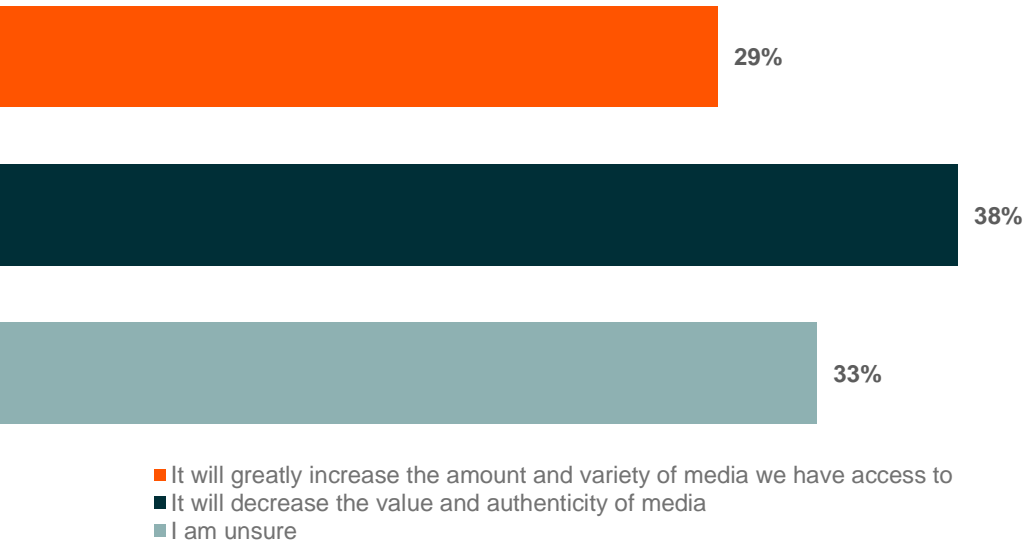
Note: N = 302
Source: Global X, February 2023.

SURVEYED INDIVIDUALS ARE INDECISIVE WHEN IT COMES TO HOW AI WILL IMPACT MEDIA CONSUMPTION

Q: HOW DO YOU THINK GENERATIVE AI WILL CHANGE THE WAY WE CONSUME AND INTERACT WITH MEDIA?
(% OF RESPONDENTS)
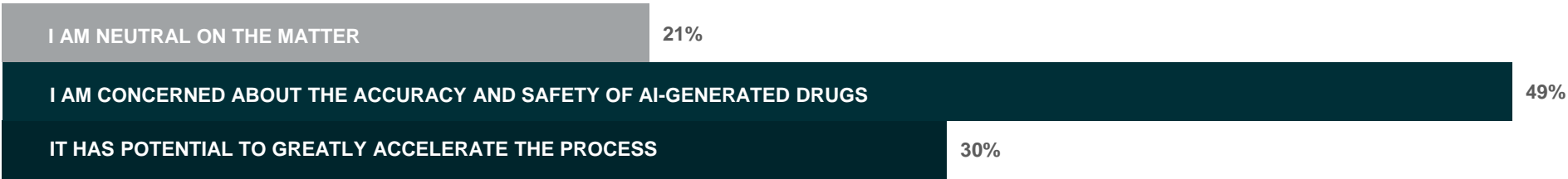
- 29%
- 38%
- 33%

■ It will greatly increase the amount and variety of media we have access to
■ It will decrease the value and authenticity of media
■ I am unsure

Note: N = 302
Source: Global X, February 2023.

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About Half of Americans Are Still Skeptical About AI Immersion Into Medicine

AROUND 50% OF RESPONDENTS ARE STILL CONCERNED ABOUT THE SAFETY OF AI-GENERATED DRUGS AND WANT HUMAN INPUT DURING MEDICAL DIAGNOSES, WHILE THE OTHER 50% SEE GREAT POTENTIAL OR REMAIN UNSURE

Q: WHAT ARE YOUR THOUGHTS ON USING GENERATIVE AI FOR DRUG DISCOVERY AND DEVELOPMENT?
(% OF RESPONDENTS)

I AM NEUTRAL ON THE MATTER	21%
I AM CONCERNED ABOUT THE ACCURACY AND SAFETY OF AI-GENERATED DRUGS	49%
IT HAS POTENTIAL TO GREATLY ACCELERATE THE PROCESS	30%

Q: WOULD YOU FEEL COMFORTABLE WITH GENERATIVE AI BEING USED TO GENERATE MEDICAL DIAGNOSES OR TREATMENT PLANS?
(% OF RESPONDENTS)

I AM UNSURE	21%
NO, I THINK A HUMAN TOUCH IS NECESSARY	56%
YES, I TRUST IN ITS ABILITY	23%

Note: N = 302
Source: Global X, February 2023.

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by Mirae Asset

Consumers Believe AI Can Greatly Enhance The Industrials Sector

OVER 40% OF SURVEYED INDIVIDUALS SEE THE POTENTIAL OF AI IN INDUSTRIAL USE CASES SUCH AS INFRASTRUCTURE, TRANSPORTATION, AND LOGISTICS, WITH LESS THAN A THIRD IN OPPOSITION

Q: HOW DO YOU THINK GENERATIVE AI WILL IMPACT THE FIELD OF ARCHITECTURE AND DESIGN?
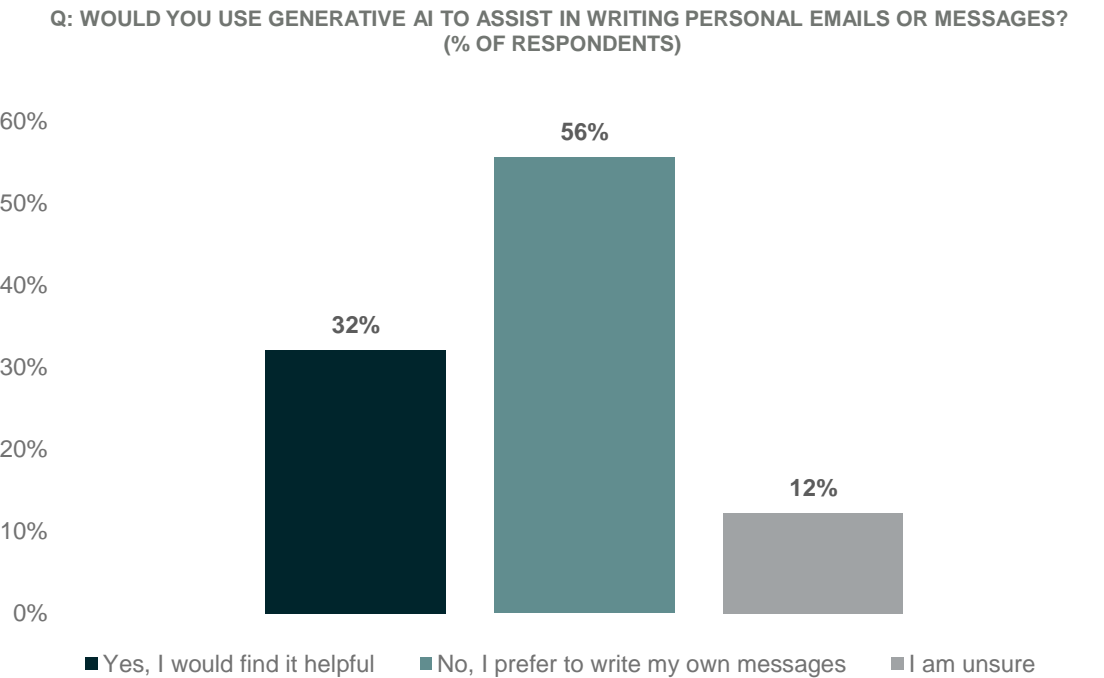(% OF RESPONDENTS)

I AM UNSURE	27%
IT WILL DECREASE THE VALUE OF HUMAN-LED DESIGN	29%
IT WILL GREATLY ENHANCE THE DESIGN PROCESS AND LEAD TO MORE EFFICIENT AND INNOVATIVE BUILDINGS	44%

Q: HOW DO YOU THINK GENERATIVE AI WILL IMPACT THE FIELD OF TRANSPORTATION AND LOGISTICS??
(% OF RESPONDENTS)

I AM UNSURE	28%
IT WILL DECREASE THE VALUE OF HUMAN-LED TRANSPORTATION	29%
IT WILL GREATLY ENHANCE THE EFFICIENCY AND SAFETY OF TRANSPORTATION SYSTEMS	42%

Note: N = 302
Source: Global X, February 2023.

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by Mirae Asset

Americans Have Differing Opinions On Whether to Leverage AI For Personal Tasks

ONLY A THIRD OF RESPONDENTS CONSIDER UTILIZING AI IN WRITING PERSONAL MESSAGES AND EMAILS

Q: WOULD YOU USE GENERATIVE AI TO ASSIST IN WRITING PERSONAL EMAILS OR MESSAGES? (% OF RESPONDENTS)

- Yes, I would find it helpful
- No, I prefer to write my own messages
- I am unsure

Note: N = 302
Source: Global X, February 2023.

OF THE AROUND 80% OF RESPONDENTS WITH AN OPINION, HALF BELIEVE AI CAN BE USED FOR DECISION MAKING
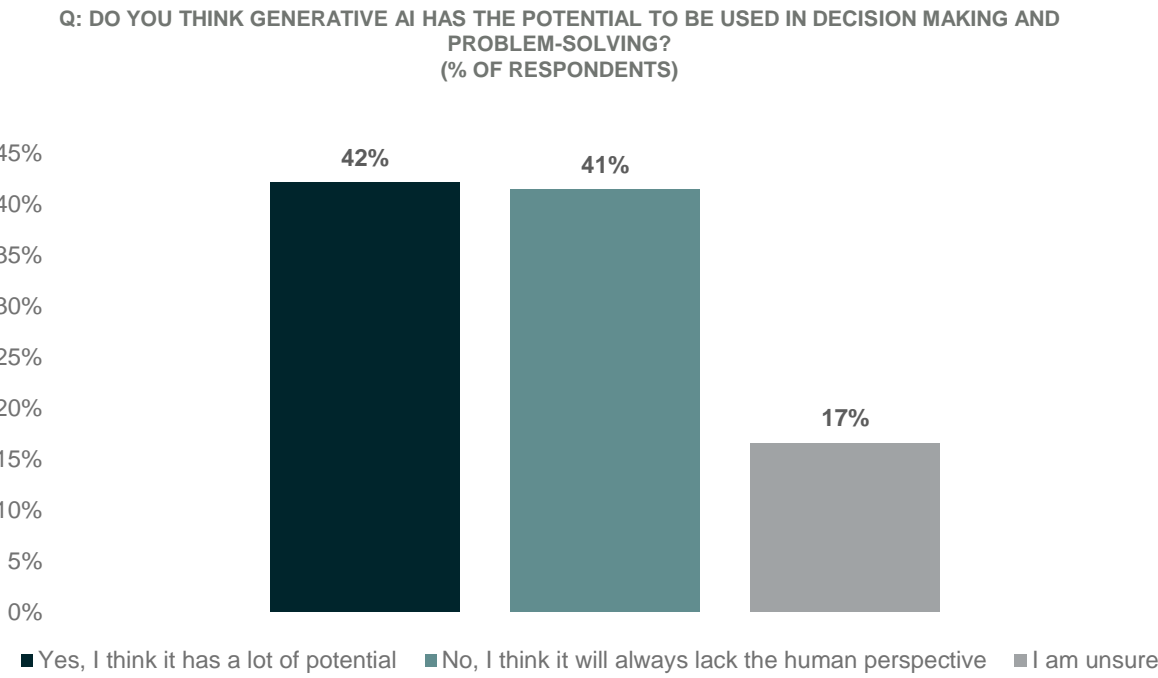
Q: DO YOU THINK GENERATIVE AI HAS THE POTENTIAL TO BE USED IN DECISION MAKING AND PROBLEM-SOLVING? (% OF RESPONDENTS)

- Yes, I think it has a lot of potential
- No, I think it will always lack the human perspective
- I am unsure

Note: N = 302
Source: Global X, February 2023.
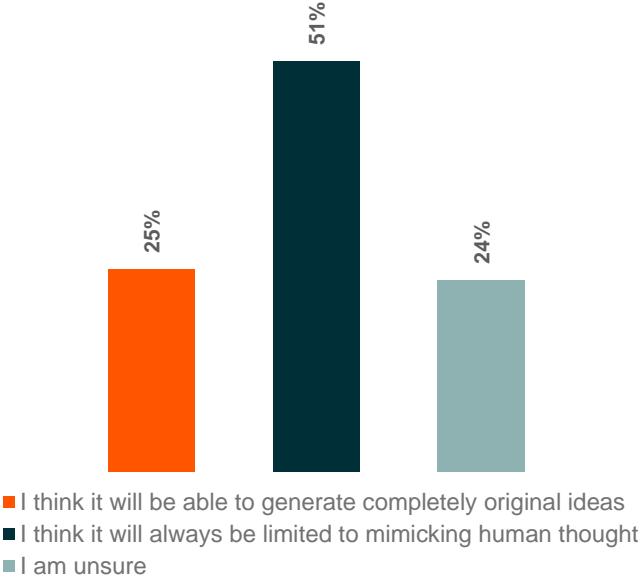
GLOBAL X
by Mirae Asset

Consumers Are Not So Quick to Dismiss AI Capabilities Comparative to Humans

EVEN THOUGH OVER 50% OF RESPONDENTS ANSWERED THAT AI WILL NEVER BE ABLE TO RIVAL HUMAN-MADE ART OR IS LIMITED TO MIMICKING HUMAN THOUGHT, 45% BELIEVE GENERATIVE AI IS ABLE TO SURPASS HUMAN INTELLIGENCE IN SOME AREAS
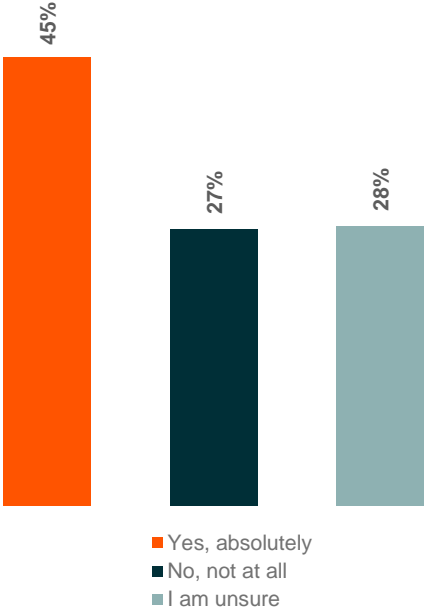

Q: DO YOU BELIEVE GENERATIVE AI HAS THE POTENTIAL TO CREATE ART THAT RIVALS HUMAN-MADE ART? (% OF RESPONDENTS)

- 27%
- 54%
- 19%

■ Yes, I think it has the potential to be just as good or even better
■ No, I believe that art created by humans will always have a unique value
■ I am unsure
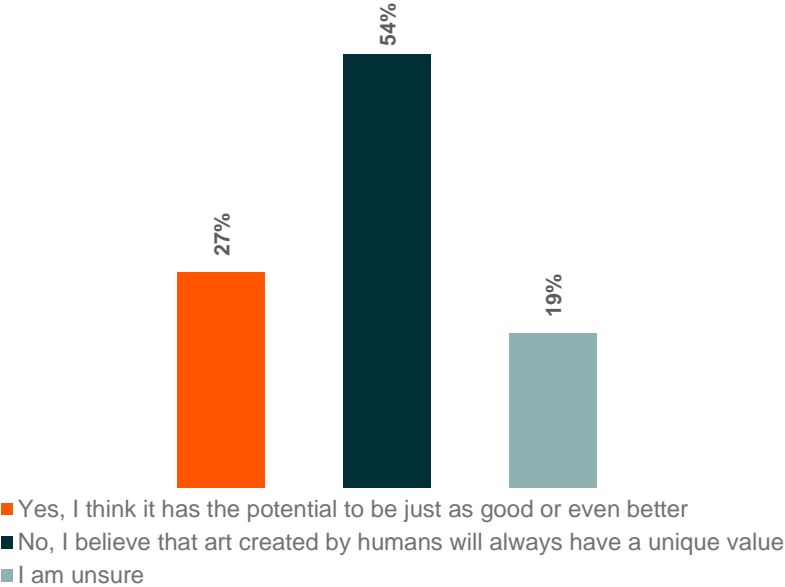
Q: DO YOU THINK GENERATIVE AI WILL BE ABLE TO GENERATE COMPLETELY ORIGINAL IDEAS OR WILL IT ALWAYS BE LIMITED TO MIMICKING HUMAN THOUGHT? (% OF RESPONDENTS)

- 25%
- 51%
- 24%

■ I think it will be able to generate completely original ideas
■ I think it will always be limited to mimicking human thought
■ I am unsure

Q: DO YOU THINK IT IS POSSIBLE FOR GENERATIVE AI TO SURPASS HUMAN INTELLIGENCE IN CERTAIN AREAS? (% OF RESPONDENTS)

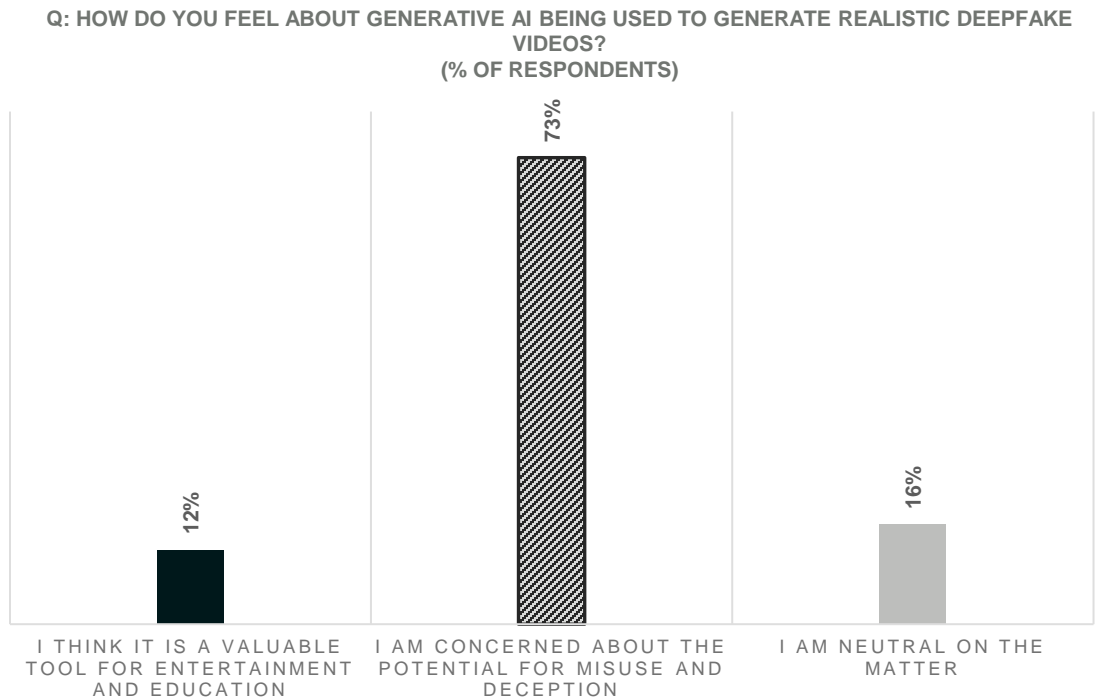- 45%
- 27%
- 28%

■ Yes, absolutely
■ No, not at all
■ I am unsure

Note: N = 302
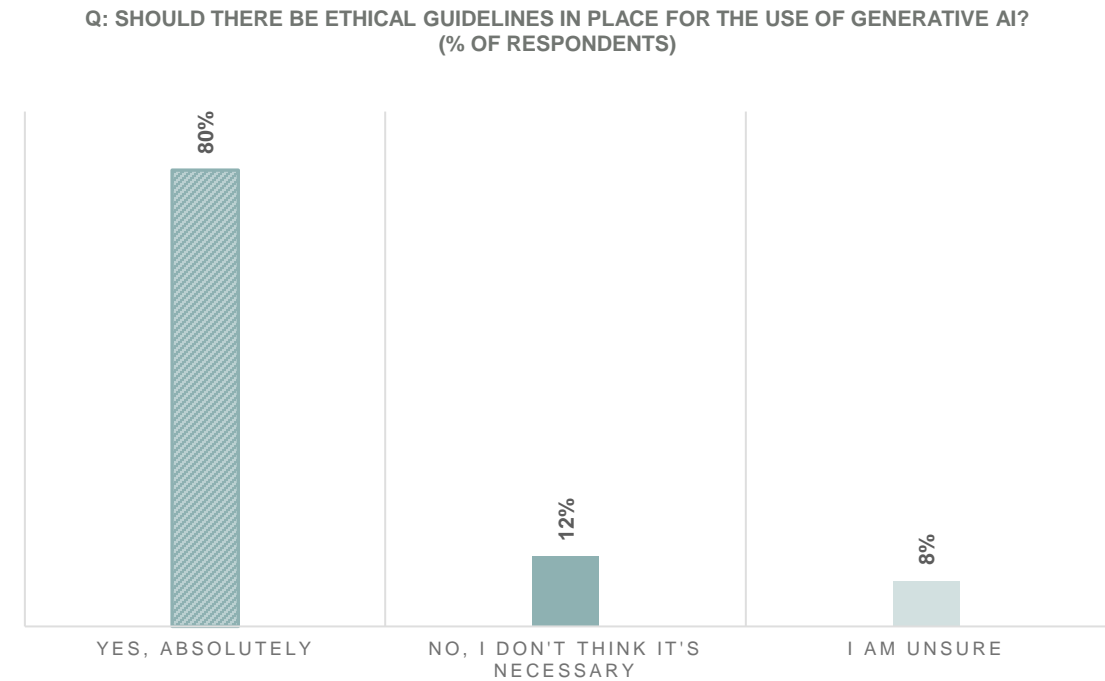*Source: Global X, February 2023.*

GLOBAL X
by Mirae Asset

Privacy and Ethical Concerns Run High When Considering Developments In AI

ALMOST THREE-FOURTHS OF INDIVIDUALS ARE CONCERNED ABOUT THE POSSIBLE MISUSES OF AI FOR DEEPFAKE VIDEOS

Q: HOW DO YOU FEEL ABOUT GENERATIVE AI BEING USED TO GENERATE REALISTIC DEEPFAKE VIDEOS?
(% OF RESPONDENTS)

- I THINK IT IS A VALUABLE TOOL FOR ENTERTAINMENT AND EDUCATION — 12%
- I AM CONCERNED ABOUT THE POTENTIAL FOR MISUSE AND DECEPTION — 73%
- I AM NEUTRAL ON THE MATTER — 16%

Note: N = 302
Source: Global X, February 2023.

FOUR-FIFTHS OF RESPONDENTS AGREE THERE SHOULD BE ETHICAL GUIDELINES IN PLACE FOR THE USE OF GENERATIVE AI

Q: SHOULD THERE BE ETHICAL GUIDELINES IN PLACE FOR THE USE OF GENERATIVE AI?
(% OF RESPONDENTS)

- YES, ABSOLUTELY — 80%
- NO, I DON'T THINK IT'S NECESSARY — 12%
- I AM UNSURE — 8%

Note: N = 302
Source: Global X, February 2023.

GLOBAL X
by Mirae Asset

Global X ETF Suite

Global X 's fund suites comprise of 100 ETFs in total, spanning Thematic Growth, Income, International Access, Commodities, Risk Management, and Other Strategies.[1]

Disruptive Technology

Social Media ETF (SOCL)

Lithium & Battery Tech ETF (LIT)

FinTech ETF (FINX)

Internet of Things ETF (SNSR)

Robotics & Artificial Intelligence ETF (BOTZ)

Autonomous & Electric Vehicles ETF (DRIV)

Artificial Intelligence & Technology ETF (AIQ)

Cloud Computing ETF (CLOU)

Video Games & Esports ETF (HERO)

Cybersecurity ETF (BUG)

Data Center REITs & Digital Infrastructure ETF (VPN)

Blockchain & Bitcoin Strategy ETF (BITS)

Blockchain ETF (BKCH)

Metaverse ETF (VR)

People & Demographics

Millennial Consumer ETF (MILN)

Aging Population ETF (AGNG)

Health & Wellness ETF (BFIT)

E-commerce ETF (EBIZ)

Cannabis ETF (POTX)

Education ETF (EDUT)

Telemedicine & Digital Health (EDOC)

Genomics & Biotechnology ETF (GNOM)

China Biotech Innovation ETF (CHB)

Emerging Markets Internet & E-commerce ETF (EWEB)

Physical Environment

U.S. Infrastructure Development ETF (PAVE)

Renewable Energy Producers ETF (RNRG)

CleanTech ETF (CTEC)

Clean Water ETF (AQWA)

Wind Energy ETF (WNDY)

Solar ETF (RAYS)

Hydrogen ETF (HYDR)

AgTech & Food Innovation ETF (KROP)

Disruptive Materials ETF (DMAT)

Green Building ETF (GRNR)

Multi-Theme

Thematic Growth ETF (GXTG)

China Innovation ETF (KEJI)

Dividend

SuperDividend ETF (SDIV)

SuperDividend U.S. ETF (DIV)

MSCI SuperDividend EAFE ETF (EFAS)

MSCI SuperDividend Emerging Markets ETF (SDEM)

SuperDividend REIT ETF (SRET)

Alternative Income ETF (ALTY)

S&P 500 Quality Dividend ETF (QDIV)

Covered Call

Dow 30 Covered Call ETF (DJIA)

Nasdaq 100 Covered Call ETF (QYLD)

S&P 500 Covered Call ETF (XYLD)

Russell 2000 Covered Call ETF (RYLD)

Nasdaq 100 Covered Call & Growth ETF (QYLG)

[1]As of February 14, 2023

Global X ETF Suite

Global X 's fund suites comprise of 100 ETFs in total, spanning Thematic Growth, Income, International Access, Commodities, Risk Management, and Other Strategies.[1]

S&P 500 Covered Call & Growth ETF (XYLG)

Russell 2000 Covered Call & Growth ETF (RYLG)

Financials Covered Call & Growth ETF (FYLG)

Information Technology Covered Call & Growth ETF (TYLG)

Health Care Covered Call & Growth ETF (HYLG)

Preferreds

U.S. Preferred ETF (PFFD)

Variable Rate Preferred ETF (PFFV)

SuperIncome Preferred ETF (SPFF)

MLPs

MLP ETF (MLPA)

MLP & Energy Infrastructure ETF (MLPX)

Fixed Income

Emerging Markets Bond ETF (EMBD)

Risk Managed Income

Nasdaq 100 Risk Managed Income ETF (QRMI)

S&P 500 Risk Managed Income ETF (XRMI)

Alpha

Guru Index ETF (GURU)

Founder-Run Companies ETF (BOSS)

Adaptive

Adaptive U.S. Factor ETF (AUSF)

China Sector

MSCI China Energy ETF (CHIE)

MSCI China Materials ETF (CHIM)

MSCI China Industrials ETF (CHII)

MSCI China Consumer Discretionary ETF (CHIQ)

MSCI China Consumer Staples ETF (CHIS)

MSCI China Health Care ETF (CHIH)

MSCI China Financials ETF (CHIX)

MSCI China Information Technology ETF (CHIK)

MSCI China Communication Services ETF (CHIC)

MSCI China Utilities ETF (CHIU)

MSCI China Real Estate ETF (CHIR)

Single-Country

MSCI Argentina ETF (ARGT)

DAX Germany ETF (DAX)

MSCI Greece ETF (GREK)

MSCI Colombia ETF (GXG)

MSCI Nigeria ETF (NGE)

MSCI Norway ETF (NORW)

MSCI Pakistan ETF (PAK)

MSCI Portugal ETF (PGAL)

MSCI Vietnam ETF (VNAM)

Regional

MSCI Next Emerging & Frontier ETF (EMFM)

FTSE Southeast Asia ETF (ASEA)

Commodities

Silver Miners ETF (SIL)

Gold Explorers ETF (GOEX)

Copper Miners ETF (COPX)

Uranium ETF (URA)

[1]As of February 14, 2023

Global X ETF Suite

Global X 's fund suites comprise of 100 ETFs in total, spanning Thematic Growth, Income, International Access, Commodities, Risk Management, and Other Strategies.[1]

Sustainable Investing

Conscious Companies ETF (KRMA)

Faith-Based

S&P 500 Catholic Values ETF (CATH)

S&P 500 Catholic Values Developed ex-U.S. ETF (CEFA)

Risk Management

Adaptive U.S. Risk Management ETF (ONOF)

Nasdaq 100 Collar 95-110 ETF (QCLR)

Nasdaq 100 Tail Risk ETF (QTR)

S&P 500 Collar 95-110 ETF (XCLR)

S&P 500 Tail Risk ETF (XTR)

Interest Rate Hedge ETF (RATE)

Interest Rate Volatility & Inflation Hedge ETF (IRVH)

[1]As of February 14, 2023

Risk Information

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