DIGITAL & TRENDS

Biometric technologies

statista

Table of Contents

01 Overview

European human augmentation market revenue 2022, by segment 03

02 Fingerprint identification and Facial recognition

Automated fingerprint identification system market value globally 2022 vs. 2028 05

Facial recognition market revenue worldwide 2019-2032 06

Comfort with facial recognition technology in the U.S. 2020-2024, by case 07

03 Adoption

Main solutions to replace workplace passwords in the United States 2023 09

Biometric authentication training tools in NA and Europe 2019-2024 10

Leading biometric security technologies worldwide 2024, by market share 11

04 Consumption

Favorite security authentication methods in selected countries 2024 13

Most secure authentication methods in selected countries 2024 14

Main benefits of passwordlesss authentication worldwide 2023 15

Main benefits of biometric authentication in English-speaking countries 2023 16

Factors considered to restrain the biometrics market worldwide 2023 17

Public trust that biometric data is safeguarded by tech firms in the U.S. 2022-2024 18

Use of biometrics at airports worldwide 2022-2023 19

05 Special focus: Biometrics for digital payments in the United States

U.S. consumers' use of biometric methods for online purchases 2023, by generation 21

U.S.: biometric authentication benefits for online purchases 2023, by generation 22

Willingness to use biometric authentication for online payments in the U.S. 2023 23

06 Outlook

Future adoption of passwordless authentication by various industries worldwide 2023 25

Main obstacles to going passwordless in the United States 2023 26

Main security risks remaining after going passwordless in the United States 2023 27

Main future developments in the use of biometric technologies worldwide 2023 28

Future increase in biometric usage worldwide 2023, by segment 29

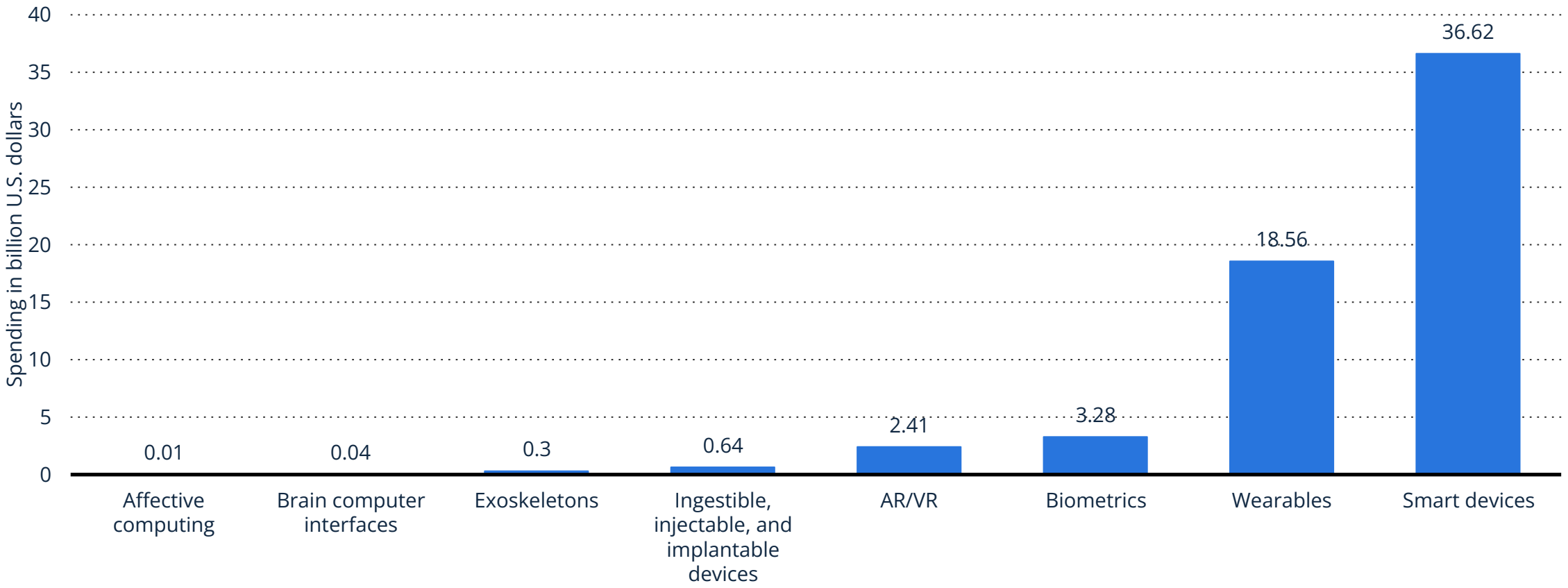
statista

CHAPTER 01

Overview

Human augmentation market revenue in Europe in 2022, by segment (in billion U.S. dollars)

European human augmentation market revenue 2022, by segment



Description: In 2022, the European human augmentation market, which includes technologies such as augmented reality (AR), virtual reality (VR), biometrics, exoskeletons, affective computing, ingestibles, injectables, implantables, brain computing interfaces, wearables, and smart devices, is forecast to reach 62 billion U.S. dollars. Read more
Note(s): Europe; 2022
Source(s): IDC

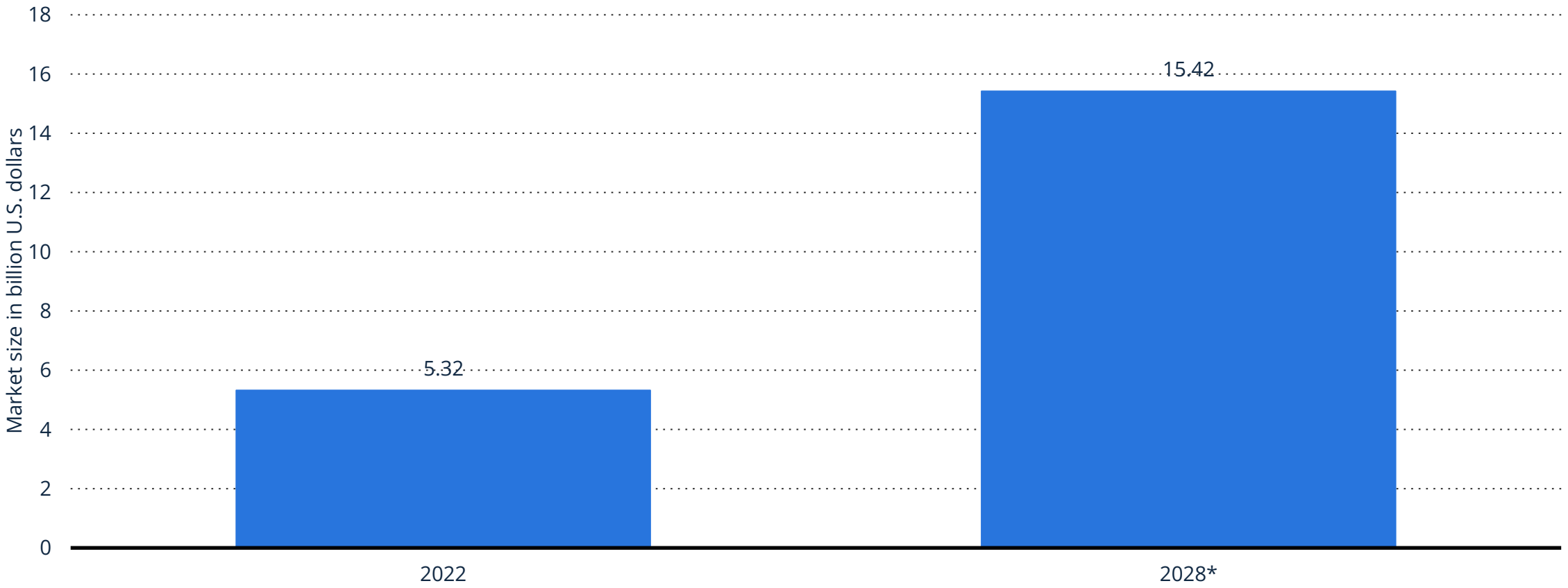
statista

CHAPTER 02

Fingerprint identification and Facial recognition

Automated fingerprint identification system market revenue worldwide in 2022 versus 2028 (in billion U.S. dollars)

Automated fingerprint identification system market value globally 2022 vs. 2028

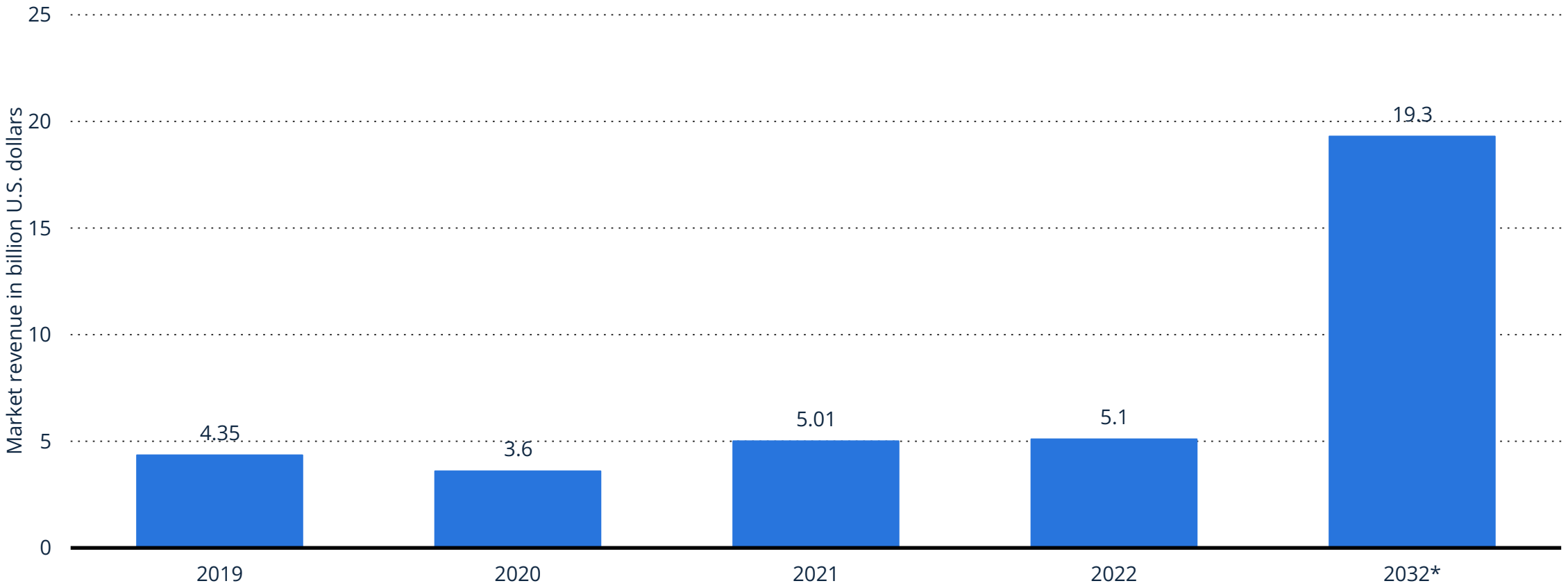


Description: Automated fingerprint identification systems (AFIS) is one type of biometric technology that utilizes digital imaging technology to analyze and compare fingerprints from a stored database. They are commonly used in areas of law enforcement, healthcare, government, among others. In 2022, the AFIS market was valued at 5.32 billion U.S. dollars, and is forecast to grow to 15.42 billion dollars by 2028. Read more
Note(s): Worldwide; 2022; *Forecast Read more
Source(s): MarketWatch

statista

Facial recognition market size worldwide from 2019 to 2032 (in billion U.S. dollars)

Facial recognition market revenue worldwide 2019-2032

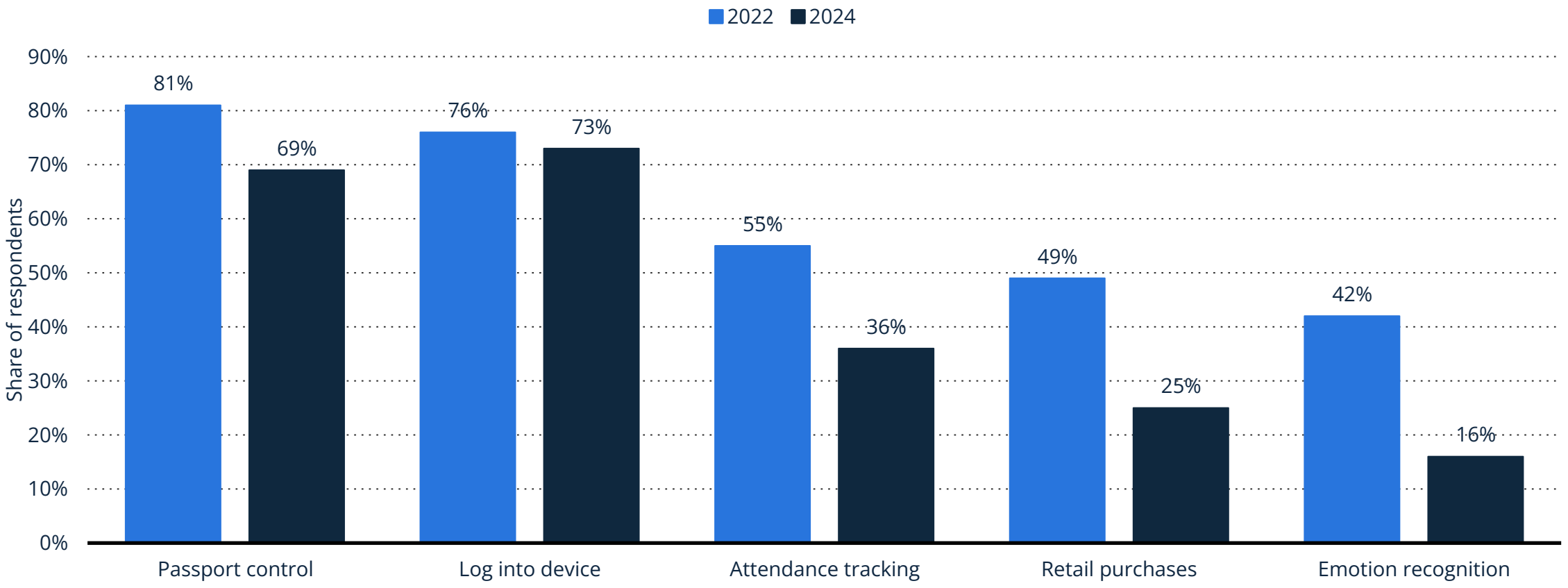


Description: The facial recognition market was estimated at roughly five billion U.S. dollars in 2022. The market is projected to grow, reaching 19.3 billion U.S. dollars by 2032. With the help of artificial intelligence (AI), facial recognition technology is used to identify a person by reading their facial features. Read more
Note(s): Worldwide; 2019 to 2022; * Forecast data Read more
Source(s): GlobeNewswire; Market.us

statista

Share of respondents being comfortable with facial recognition technology in the United States from 2020 to 2024, by case

Comfort with facial recognition technology in the U.S. 2020-2024, by case



Description: Overall, respondents were less comfortable with facial recognition technology in 2024 compared to 2022. The majority of respondents were comfortable with facial recognition technology being applied in passport controls, as well as for logging into a device. However, respondents were not as relaxed when the technology was applied for attendance tracking or retail purchases. Only 16 percent of respondents were comfortable with facial recognition technology applied to emotion [...] Read more
Note(s): United States; January 2024; 1000*; *For the survey conducted in 2022, only 974 respondents participated. Read more
Source(s): GetApp

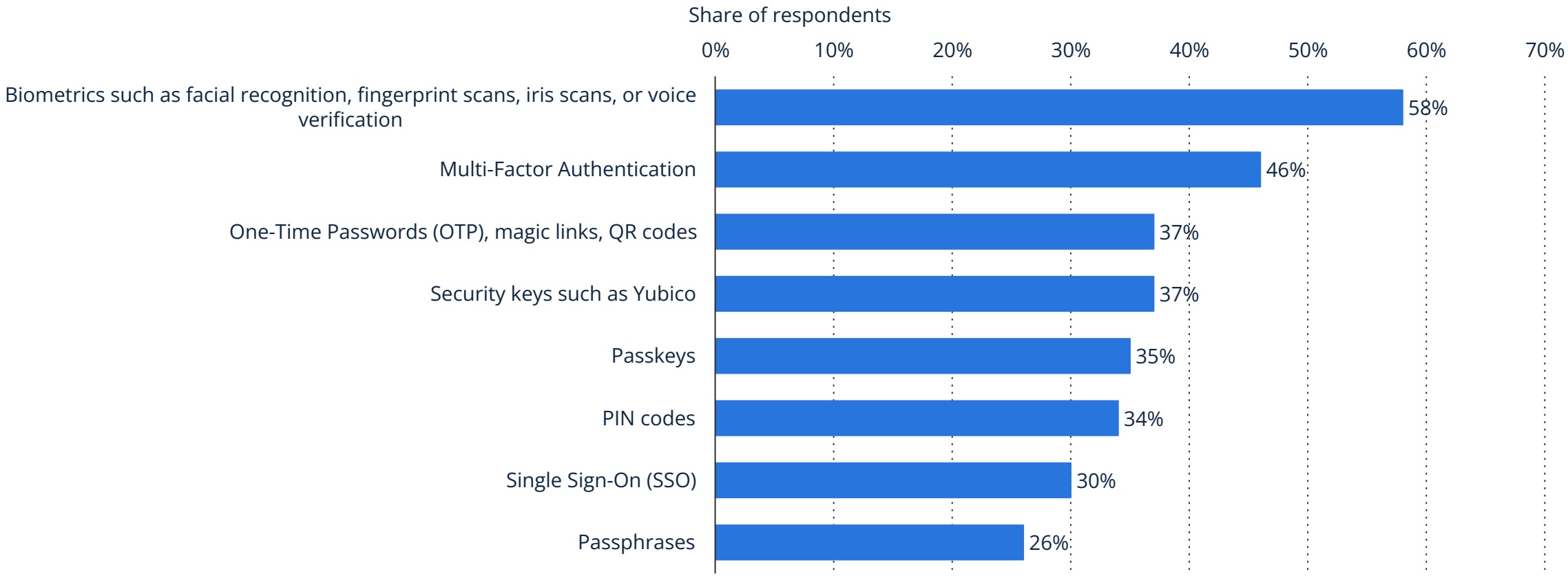
statista

CHAPTER 03

Adoption

What technical solutions, if any, are you replacing/expecting to replace passwords with?

Main solutions to replace workplace passwords in the United States 2023

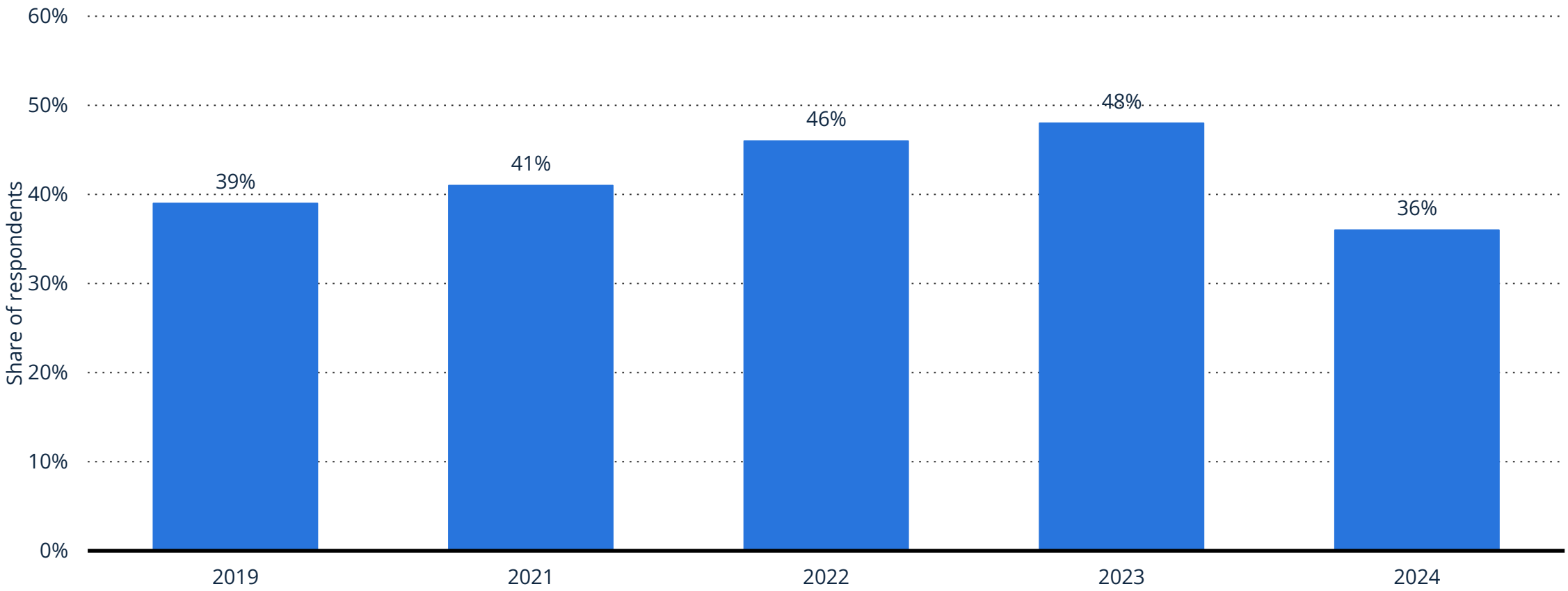


Description: In 2023, when asked what they were replacing or expecting to replace workplace passwords with, nearly 60 percent of respondents among IT and cybersecurity leaders in the United States mentioned biometrics such as facial recognition, fingerprint scans, iris scans, or voice verification. In addition, around 46 percent of respondents stated that their company had replaced or was planning to replace workplace passwords with Multi-Factor Authentication. Passkeys constituted another popular [...] Read more
Note(s): United States; 2023; 300 respondents; IT and cybersecurity leaders from companies of different sizes across various industries
Source(s): Delinea

statista

Tech companies implementing biometric authentication tools in North America and Europe from 2019 to 2024

Biometric authentication training tools in NA and Europe 2019-2024

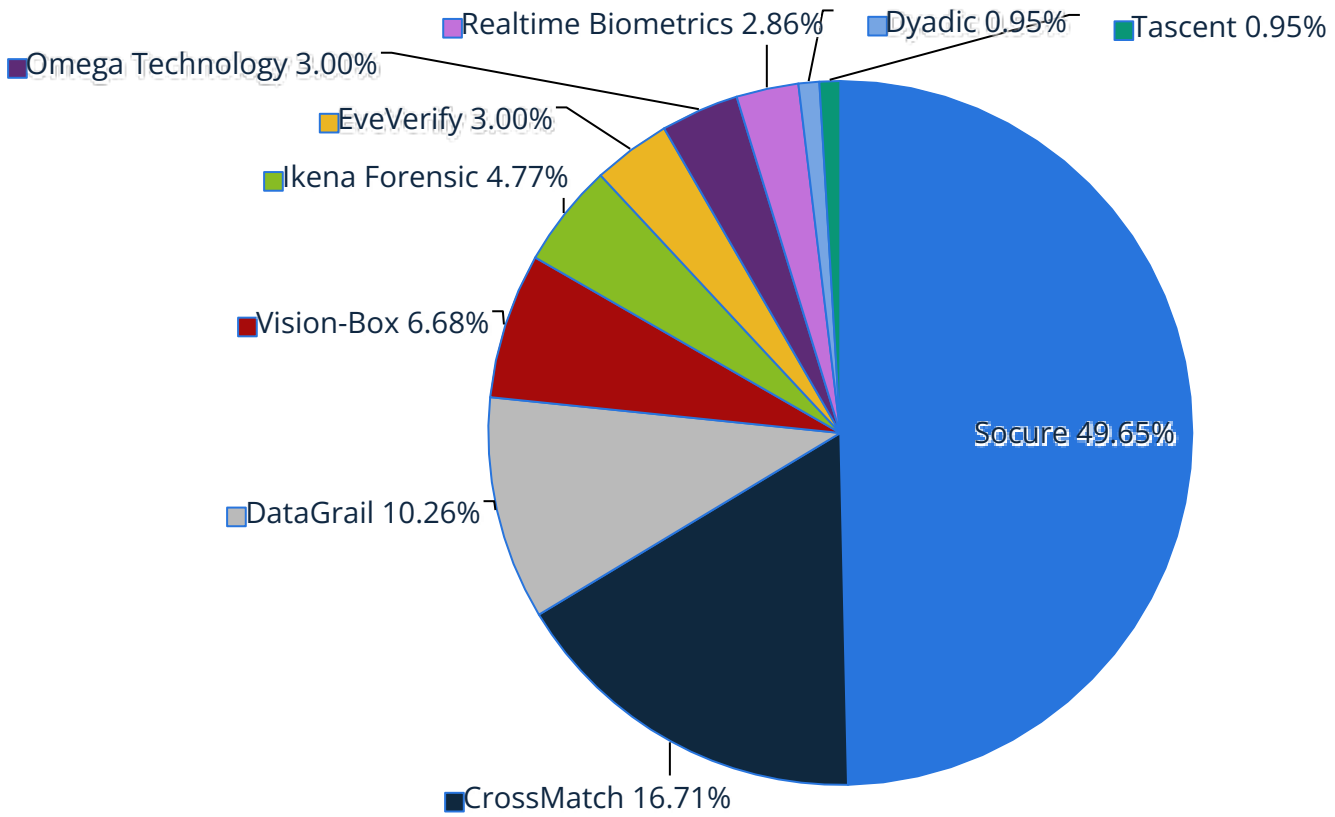


Description: In 2023, 48 percent of respondents from companies in North America and Europe expected their company to implement security training tools for their employees. For 2024, the share of respondents is forecast to decrease to 36 percent. Read more
Note(s): North America, Europe; June 2023; >1,400; IT professionals
Source(s): Spiceworks; SWZD

statista

Market share of leading biometric security technologies worldwide as of February 2024

Leading biometric security technologies worldwide 2024, by market share



Description: As of February 2024, Socure was leading the top virtualization technologies in terms of the number of customers and held nearly half of market share. CrossMatch and DataGrail followed, with around 17 and ten percent of market shared, respectively. Biometric technologies are used for identification and access control and include facial, voice, and iris recognition, as well as automated fingerprint identification and signature verification. Read more
Note(s): Worldwide; 2023
Source(s): 6sense

statista

CHAPTER 04

Consumption

Preferred ways to sign-in to online accounts, apps, and smart devices in selected countries in 2024

Favorite security authentication methods in selected countries 2024

	Share of respondents
Biometrics	28%
Using a complex password that only I will remember	17%
A One Time Passcode (OTP) sent to my handset or tablet	13%
A browser's auto form fill to enter my password	8%
Authentication application	8%
A password manager	8%
Physical security key	4%
QR code	4%
Other	0%
I don't know	10%

Description: In 2024, the most preferred security authentication method to sign-in to online accounts, apps, and smart devices was biometrics, for example fingerprint or face scan. Overall, biometric authentication was used by 28 percent of respondents among consumers in various countries. Read more

Note(s): Worldwide; August 2024; 10,000 respondents

Source(s): FIDO Alliance; Sapio Research

statista

Most secure ways to sign-in to online accounts, apps, and smart devices in selected countries in 2024

Most secure authentication methods in selected countries 2024

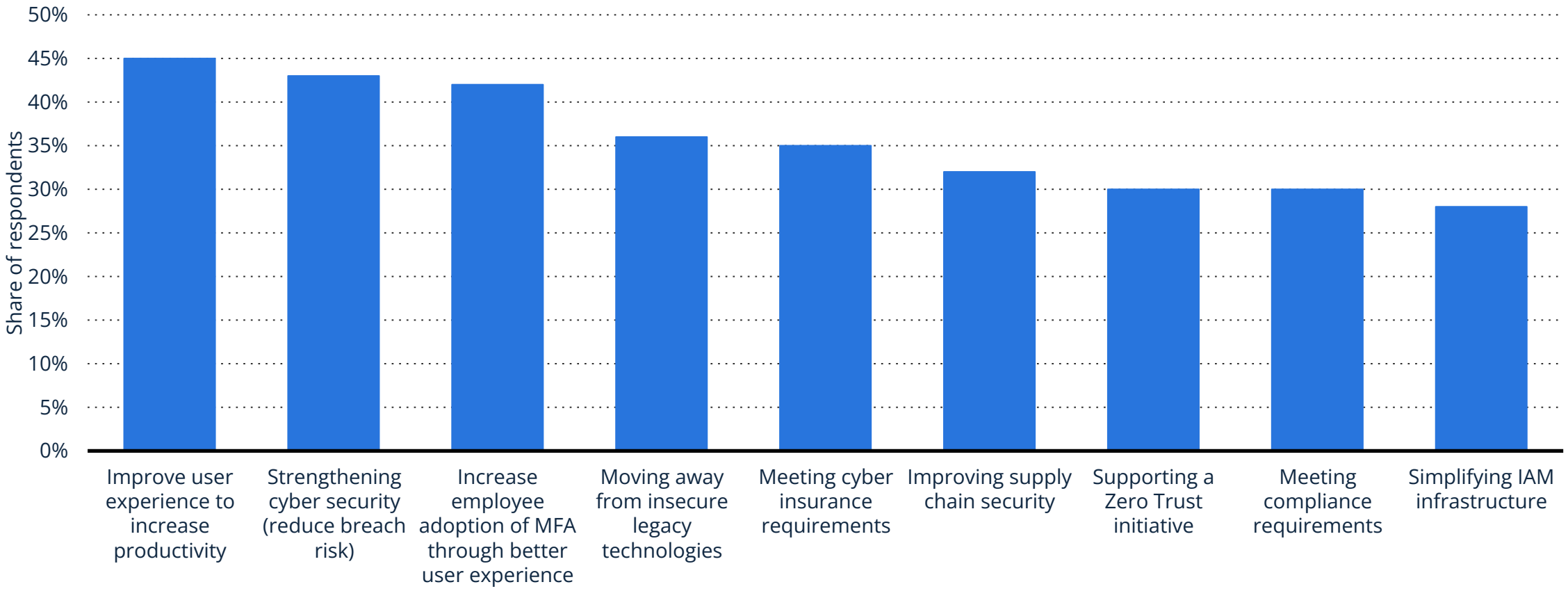
	Share of respondents
Biometrics	29%
Using a complex password that only I will remember	15%
A One Time Passcode (OTP) sent to my handset or tablet	14%
A browser's auto form fill to enter my password	10%
Authentication application	7%
A password manager	5%
Physical security key	5%
QR code	4%
Other	0%
I don't know	12%

Description: In 2024, the most secure authentication method to sign in to online accounts, apps, and smart devices was biometrics, for example fingerprint or face scan, as highlighted by nearly 30 percent of respondents among consumers in various countries worldwide. Using a complex password ranked second, mentioned by 15 percent of respondents. Read more
Note(s): Worldwide; August 2024; 10,000 respondents
Source(s): FIDO Alliance; Sapio Research

statista

Main advantages of passwordlesss authentication worldwide in 2023

Main benefits of passwordlesss authentication worldwide 2023

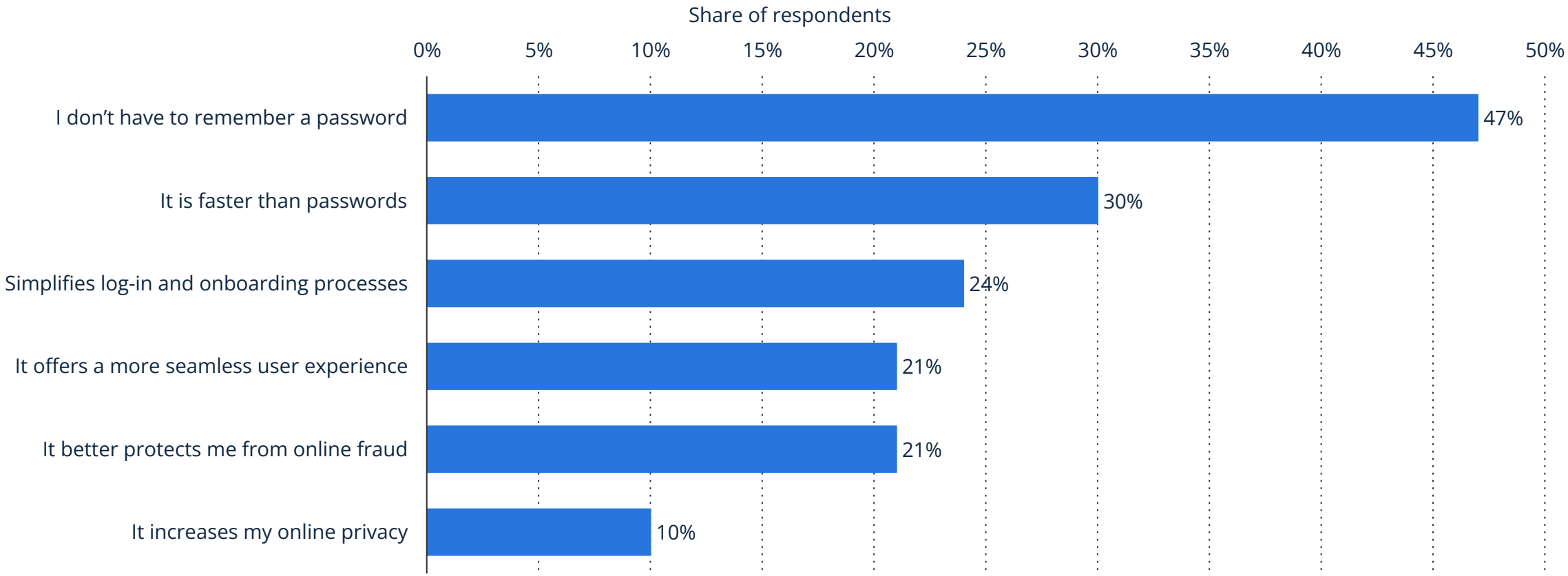


Description: With the rise of home office and its chaotic environment, it's no surprise that passwordless authentication is gaining traction. In 2023, 45 percent of respondents mentioned Improve user experience to increase productivity as the main advantage of passwordless authentication, while another 43 percent mentioned strengthened cyber security benefits. Read more
Note(s): Worldwide; 2023; 1,000 respondents; IT security decision makers from organizations ranging in size from 50 employees to large enterprises
Source(s): HYPR; Vanson Bourne

statista

Main benefits of using biometric authentication in English-speaking countries in 2023

Main benefits of biometric authentication in English-speaking countries 2023

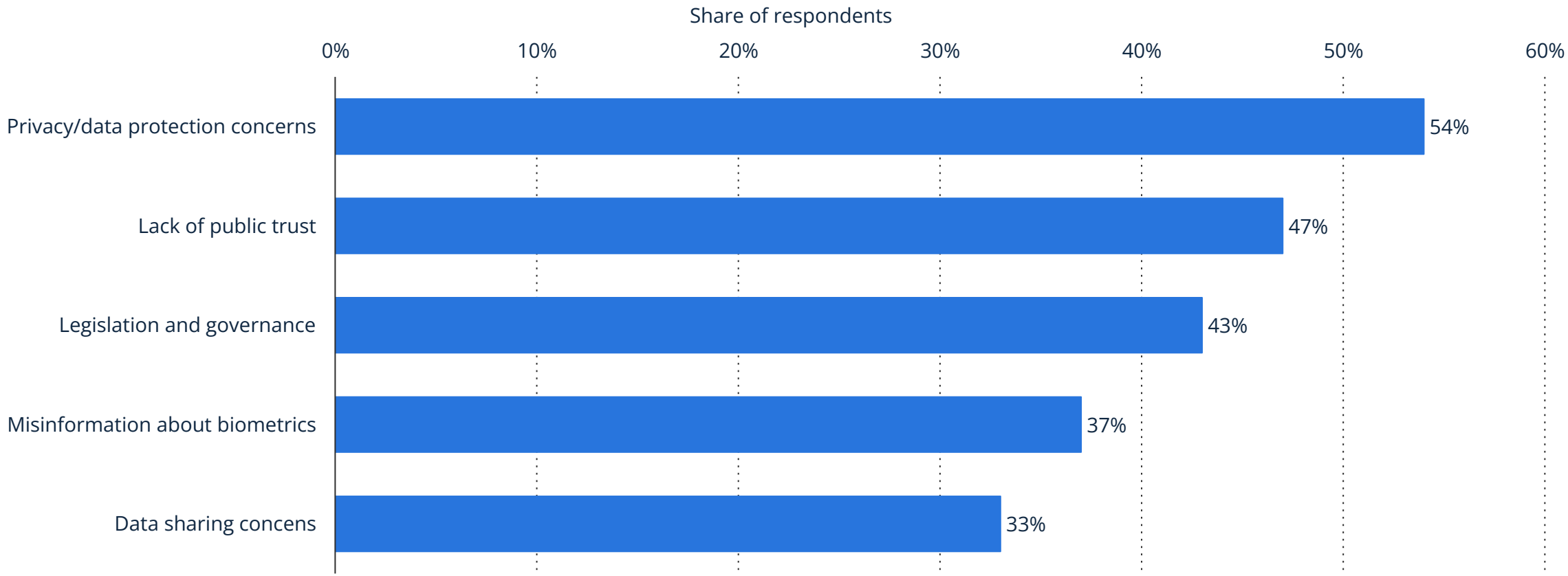


Description: A survey conducted in 2023 in English-speaking countries found that the main benefit of using biometric authentication was to not have to remember a password, as highlighted by 47 percent of respondents. In addition, 30 percent of respondents considered simplified log-in and onboarding processes as the most important benefit of biometric authentication. On the other hand, only ten percent of respondents named online privacy as the main benefit of biometric authentication methods. Read more
Note(s): 2023; 1,000 respondents; 25 years and older; consumers ages 25+ in English-speaking countries across North America, the United Kingdom, and Asia Pacific
Source(s): Incode Technologies

statista

Main factors considered to restrain the biometrics market worldwide in 2023

Factors considered to restrain the biometrics market worldwide 2023

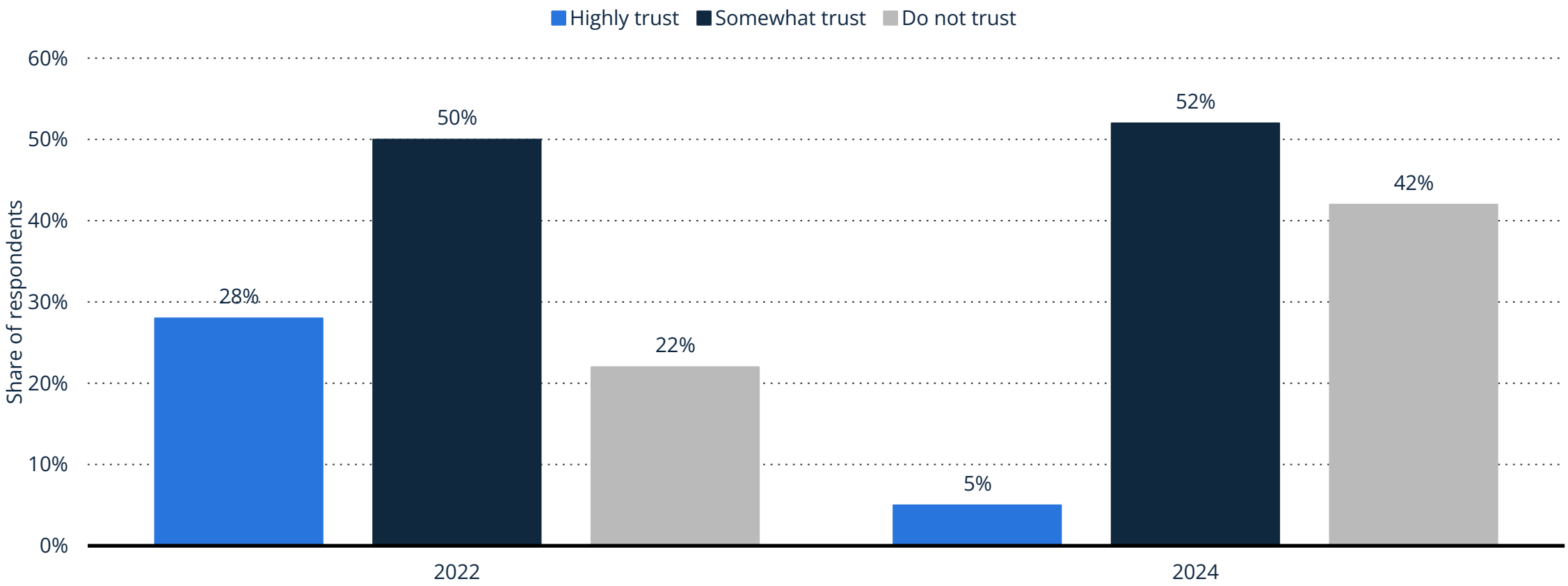


Description: In 2023, the majority of respondents surveyed for this study perceived privacy and data protection as the main factors restraining the biometrics market worldwide. Other restraining factors were lack of public trust, legislation and governance, misinformation about biometrics technology, as well as concerns over data sharing. Read more
Note(s): Worldwide; June 2023; 255 respondents; biometrics ndustry professionals
Source(s): Biometrics Institute

statista

Share of consumers who trust that their biometric data is safeguarded and used properly in the United States in 2022 versus 2024

Public trust that biometric data is safeguarded by tech firms in the U.S. 2022-2024

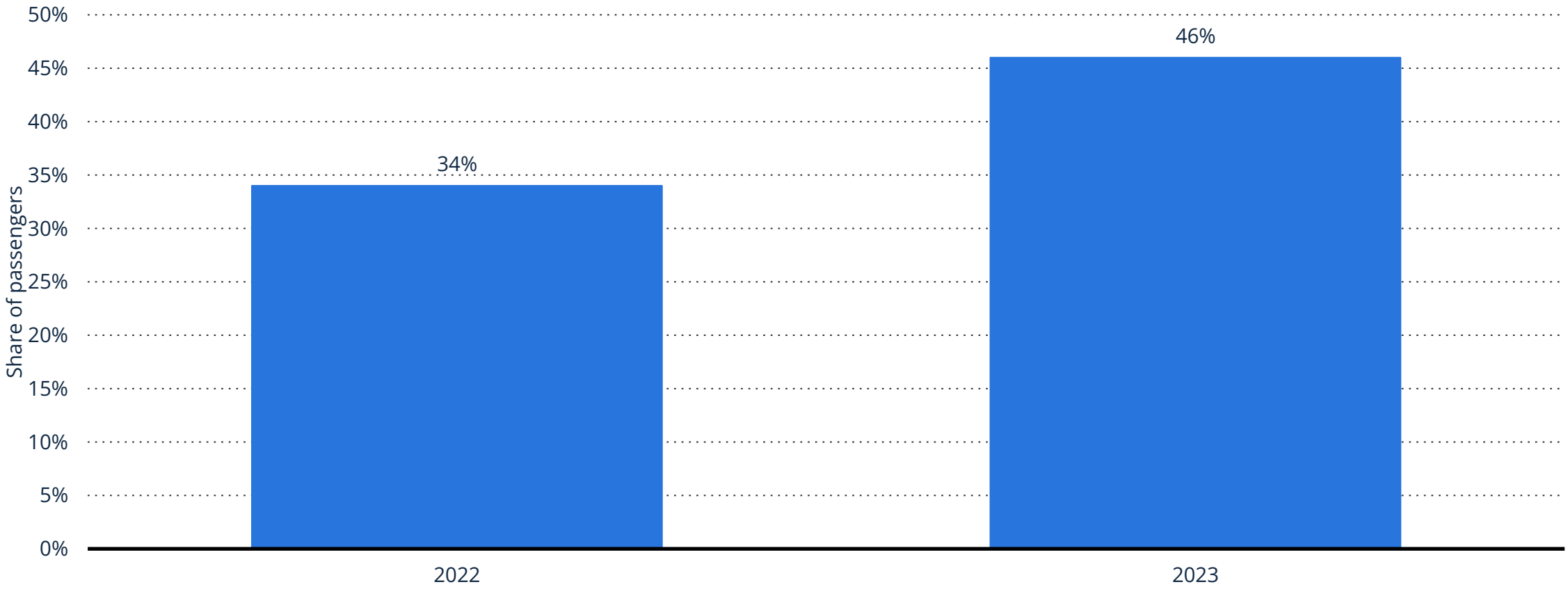


Description: Overall, respondents in the United States were less confident that their biometric data was safeguarded and used properly by tech companies in 2024 compared to 2022. Only five percent of respondents highly trusted the safe handling of their biometric data by tech firms, a significant drop from nearly 30 percent in 2022. Read more
Note(s): United States; January 2024; 1000*; *For the survey conducted in 2022, only 974 respondents participated. Read more
Source(s): GetApp

statista

Use of biometrics at airports worldwide in 2022 and 2023

Use of biometrics at airports worldwide 2022-2023



Description: During a 2023 survey, it was found that 46 percent of respondents among passengers worldwide had used biometrics at the airport. This constitutes a 12-percent increase compared to the previous year. Read more
Note(s): Worldwide; 2022 and 2023; 8,000 respondents
Source(s): IATA; Passport-photo.online

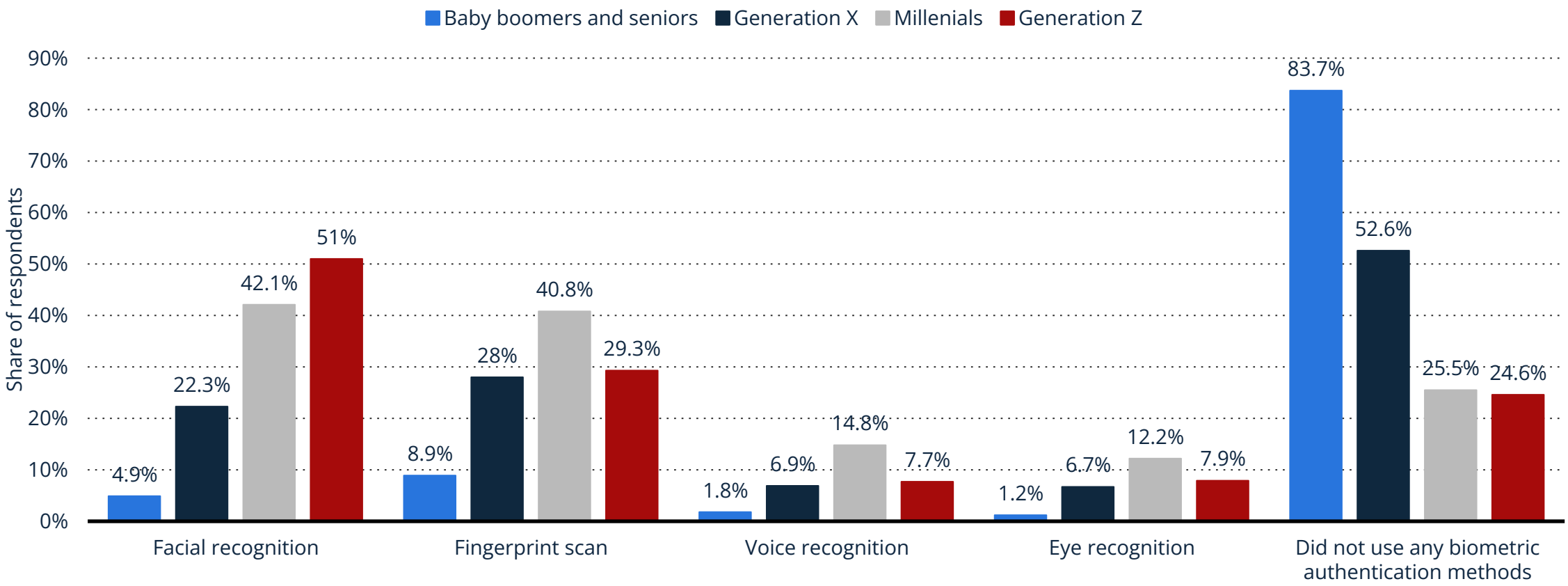
statista

CHAPTER 05

Special focus: Biometrics for digital payments in the United States

Biometric methods used to validate an online purchase by consumers in the United States in 2023, by generation

U.S. consumers' use of biometric methods for online purchases 2023, by generation

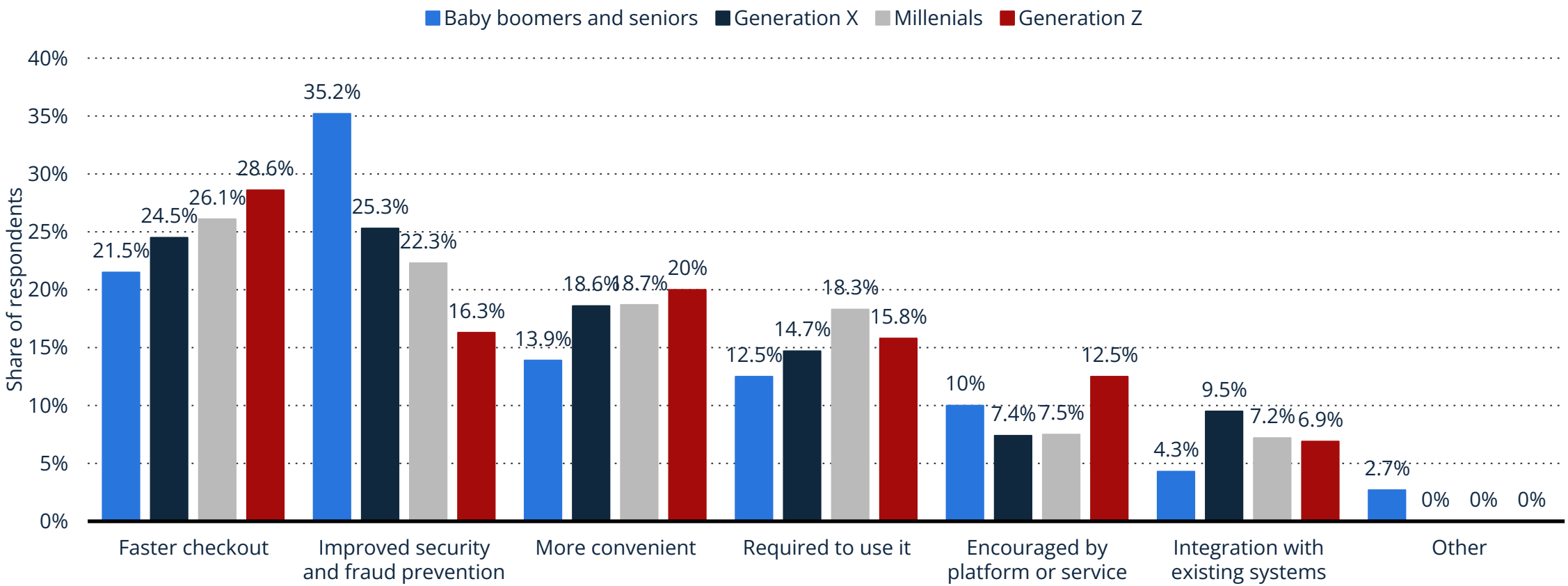


Description: A survey conducted in July 2023 in the United States found that consumers from younger generations were more likely to use biometric methods to validate an online purchase. Over one-half of Gen Z respondents reported using facial recognition, versus around five percent among Baby boomers and seniors. Overall, Millennials constituted the generation who most used biometric authentication for online purchases, with approximately three-quarters of respondents reporting using such [...] Read more
Note(s): July 20 to 25, 2023; 1,986 respondents; U.S. consumers who completed online purchases in the last 30 days.
Source(s): Amazon Web Services; PYMNTS

statista

Reasons for using biometric authentication to validate an online purchase in the United States in 2023, by generation

U.S.: biometric authentication benefits for online purchases 2023, by generation

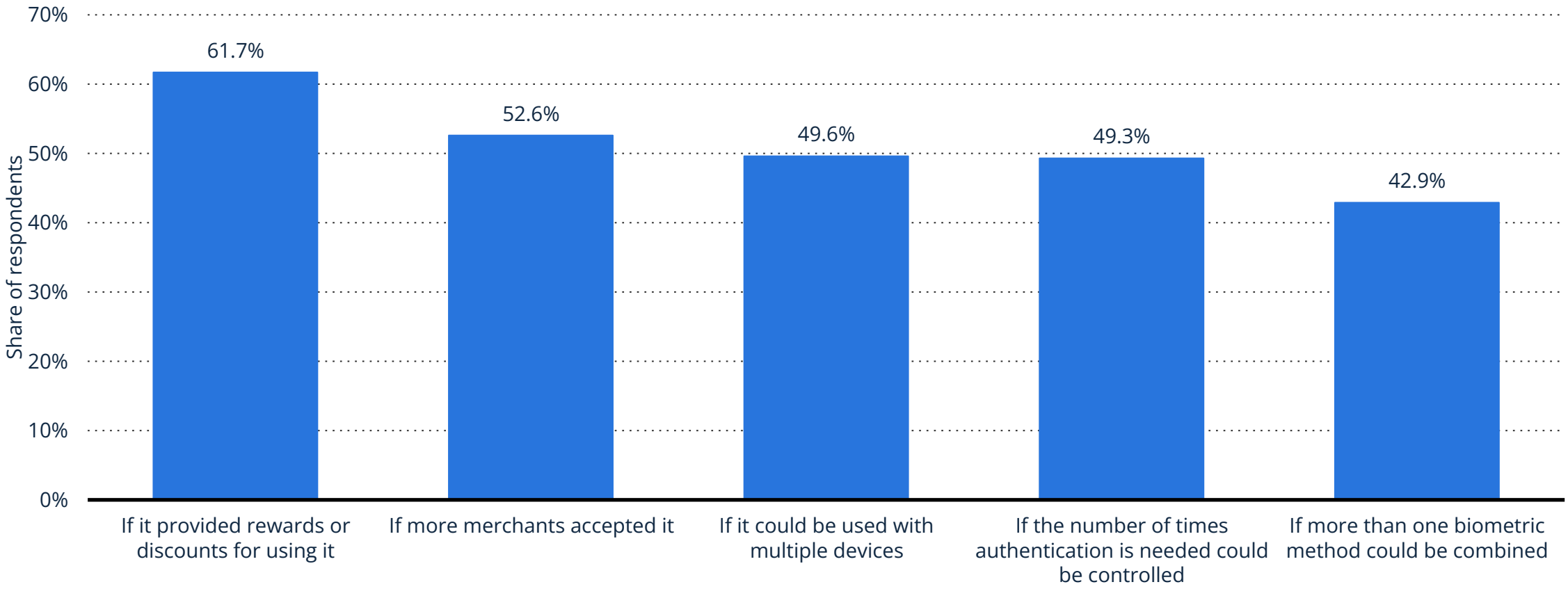


Description: A survey conducted in July 2023 in the United States found that consumers' reasons for using biometric authentication to validate online purchases vary from generation to generation. While around 29 percent of respondents from Gen Z used biometrics to ensure faster checkout, baby boomers and seniors' main reason was improved security and fraud prevention, according to more than 35 percent of respondents. Read more
Note(s): July 20 to 25, 2023; 1,045 respondents; U.S. consumers who have used biometric authentication methods.
Source(s): Amazon Web Services; PYMNTS

statista

Consumers' willingness to use biometric authentication to make online payments in the United States in 2023

Willingness to use biometric authentication for online payments in the U.S. 2023



Description: A survey conducted in July 2023 in the United States found that around 62 percent of respondents who completed online purchases in the last 30 days would be very or extremely likely to use biometrics to make payments if rewards or discounts were provided for using. In addition, more than 52 percent of respondents would be willing to use biometrics if more merchants accepted it. Read more
Note(s): July 20 to 25, 2023; 1,986 respondents; U.S. online shoppers who completed online purchases in the lastt 30 days.
Source(s): Amazon Web Services; PYMNTS

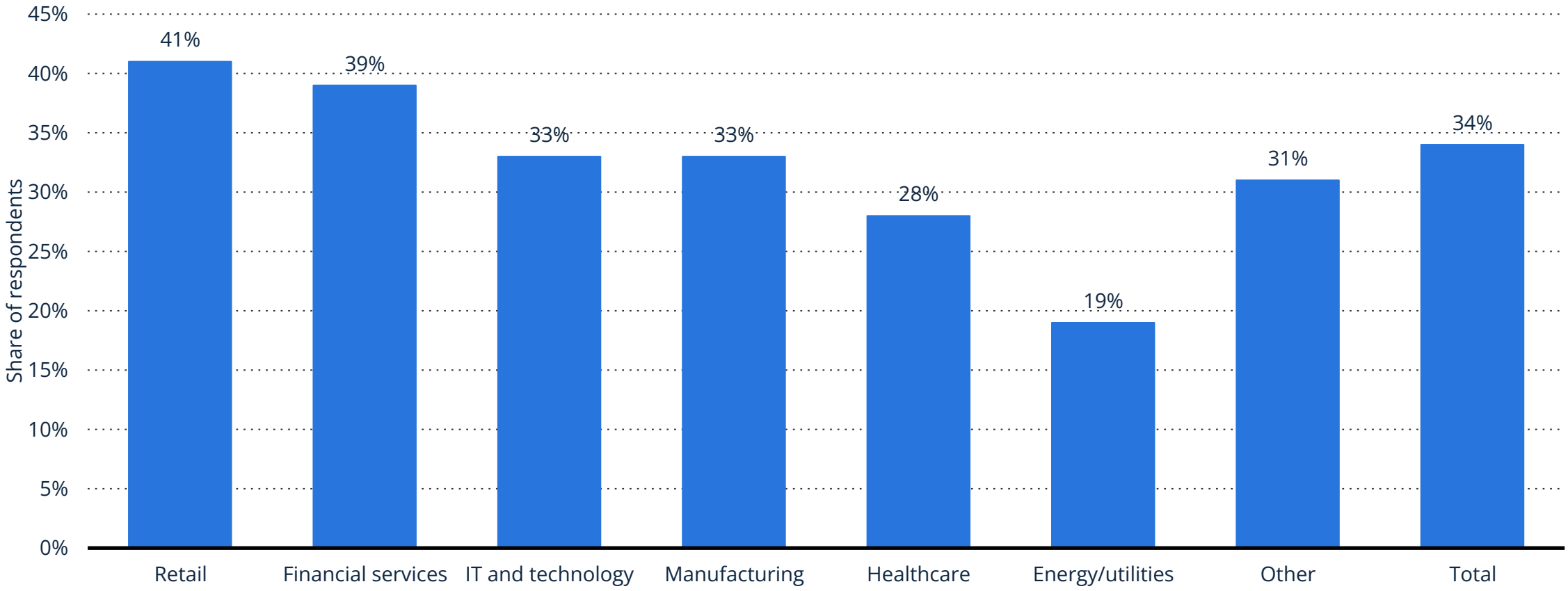
statista

CHAPTER 06

Outlook

Does your organization plan to adopt, or use/continue to use passwordless authentication in the next 1-3 years?

Future adoption of passwordless authentication by various industries worldwide 2023

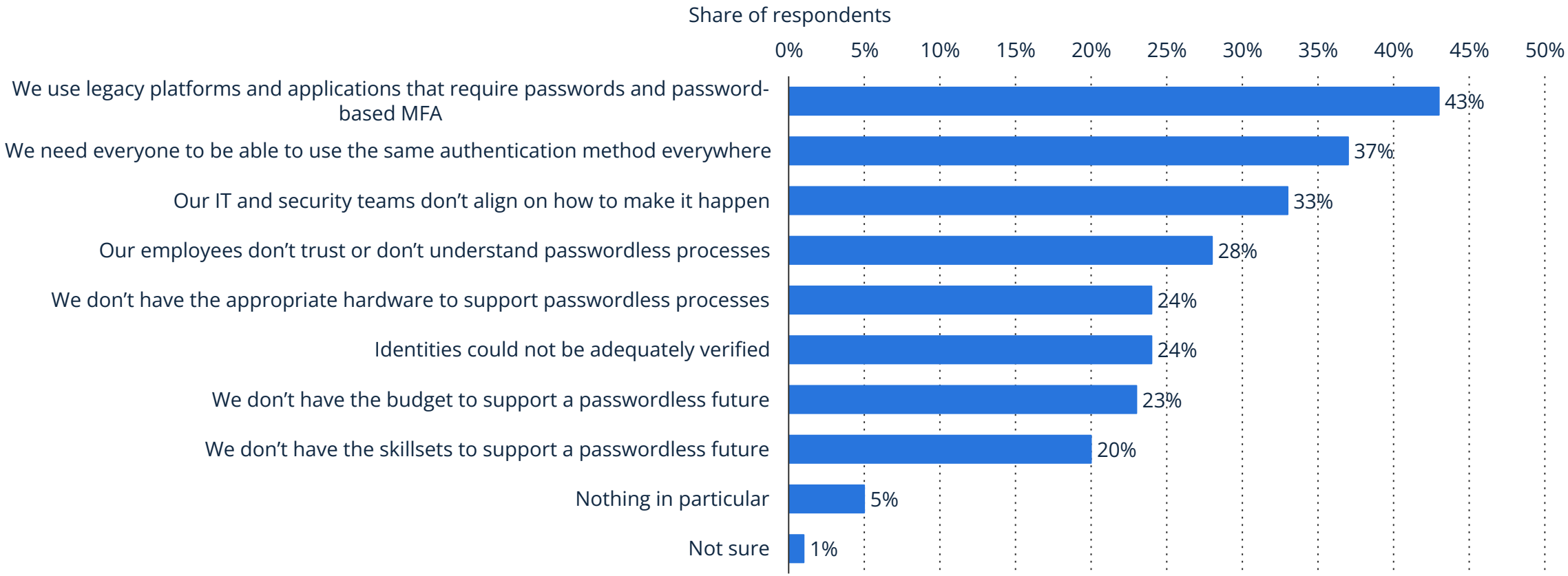


Description: In 2023, the retail and financial services industries were the most likely to adopt passwordless authentication in the next one to three years, as highlighted by 41 percent and 39 percent of respondents, respectively. In total, over one-third of respondents across industries worldwide were planning to adopt passwordless authentication in the near future. Read more
Note(s): Worldwide; 2023; 1,000 respondents; IT security decision makers from organizations ranging in size from 50 employees to large enterprises
Source(s): HYPR; Vanson Bourne

statista

What, if anything, do you believe stands/would stand in the way of your workplace going passwordless?

Main obstacles to going passwordless in the United States 2023

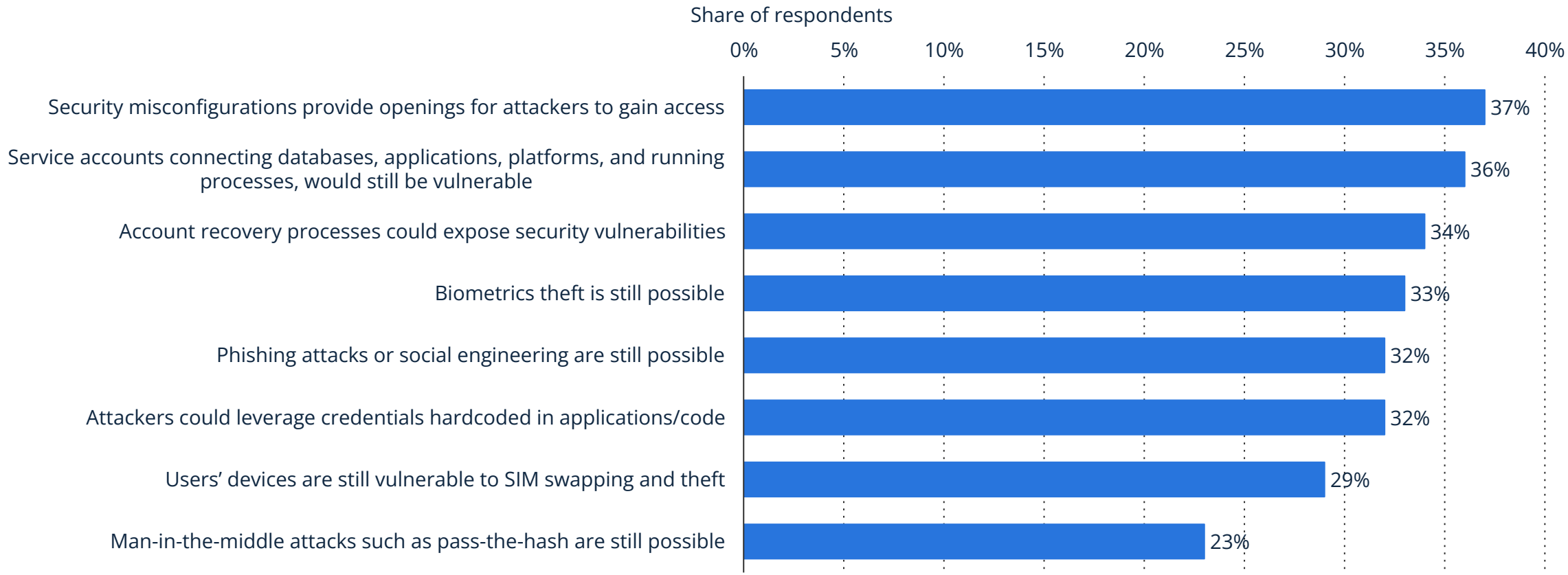


Description: In 2023, more than 40 percent of respondents among IT and cybersecurity leaders in the United States mentioned legacy platforms and applications that require passwords and password-based Multi-Factor Authentication as one of the main obstacles faced by their workplace when planning to go passwordless. In addition, one-third of respondents claimed that their IT and security teams did not align on how to make it happen. Overall, skills and budget constraints constituted two [...] Read more
Note(s): United States; 2023; 300 respondents; IT and cybersecurity leaders from companies of different sizes across various industries
Source(s): Delinea

statista

If users no longer had to use passwords, what, if any, top security risks do you believe your organization would still face?

Main security risks remaining after going passwordless in the United States 2023

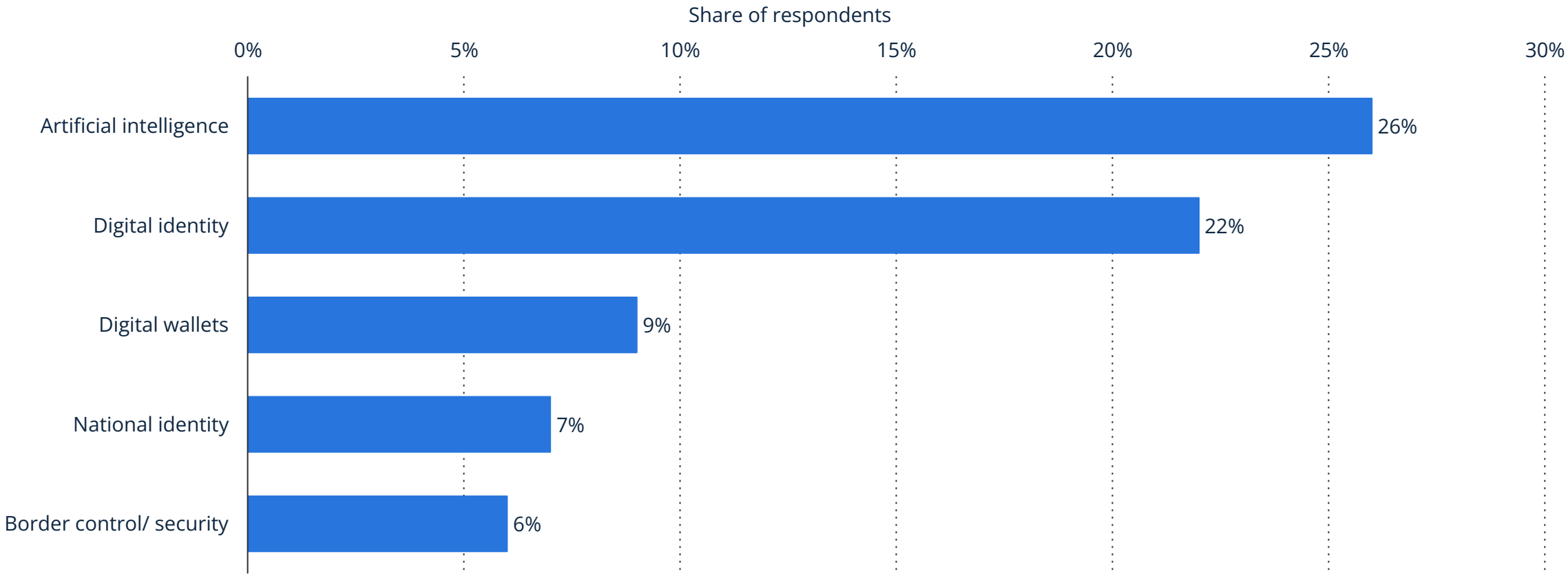


Description: In 2023, 37 percent of respondents among IT and cybersecurity leaders in the United States mentioned security misconfigurations as one of the main security risks their company would still face after going passwordless. In addition, 36 percent of respondents noted that service accounts connecting databases, applications, platforms, and running processes within their organization would still be vulnerable. Overall, various threats such as phishing attacks, social engineering, biometrics [...] Read more
Note(s): United States; 2023; 300 respondents; IT and cybersecurity leaders from companies of different sizes across various industries
Source(s): Delinea

statista

In which area do you thing there has been the most significant development in the use of biometric over the next five years?

Main future developments in the use of biometric technologies worldwide 2023

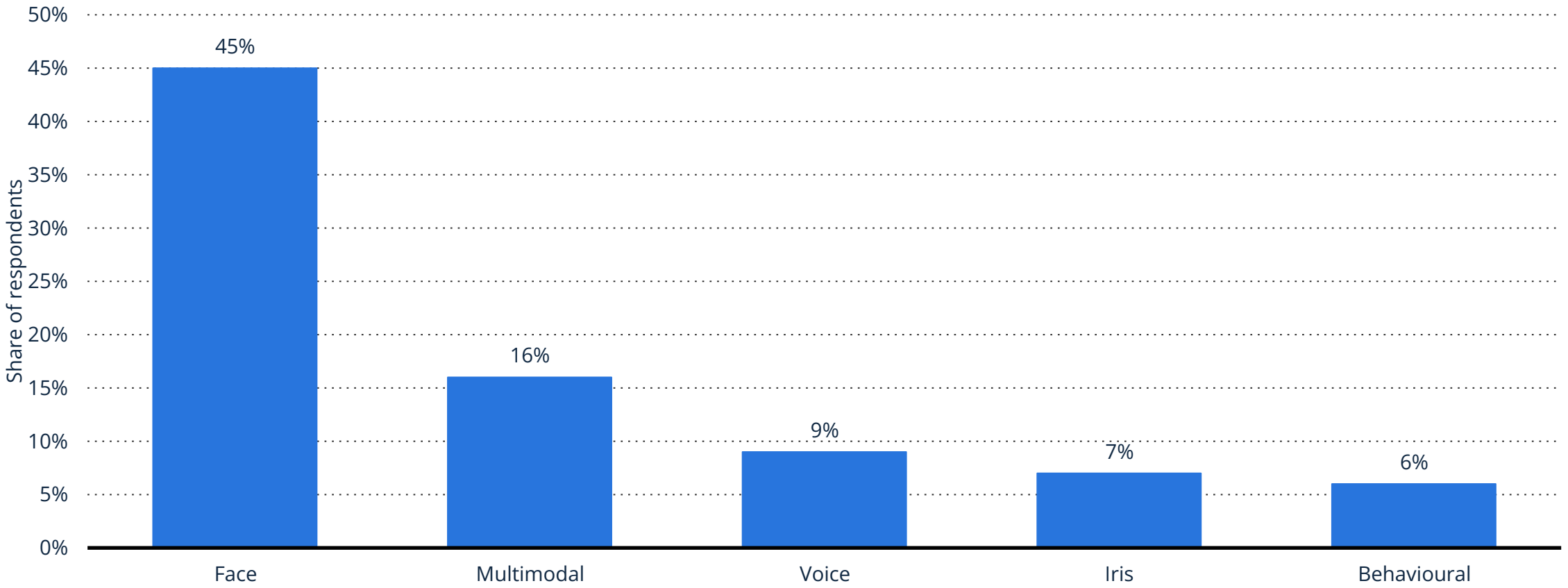


Description: In 2023, 26 percent of global respondents believed that the most significant development in the use of biometrics over the next five years would happen in the artificial intelligence area. By contrast, only six percent of respondents considered that biometrics had an important development in the border control and security area. Read more
Note(s): Worldwide; June 2023; 255 respondents; biometrics ndustry professionals
Source(s): Biometrics Institute

statista

Which biometric do you think is the most likely to show the greatest increase in use over the next few years?

Future increase in biometric usage worldwide 2023, by segment



Description: In 2023, nearly half of respondents believed that face recognition was the biometric technology most likely to show the greatest increase in usage over the next few years. By contrast, only seven percent of respondents believed that iris identification would record a significant increase in usage. Read more
Note(s): Worldwide; June 2023; 255 respondents; biometrics ndustry professionals
Source(s): Biometrics Institute

statista

Sources

6sense
Amazon Web Services
Biometrics Institute
Delinea
FIDO Alliance
GetApp
GlobeNewswire
HYPR
IATA
IDC
Incode Technologies
Market.us
MarketWatch
Passport-photo.online
Precision Reports
PYMNTS
Sapio Research
Spiceworks
SWZD
Vanson Bourne

statista