ARTIFICIAL INTELLIGENCE (AI)

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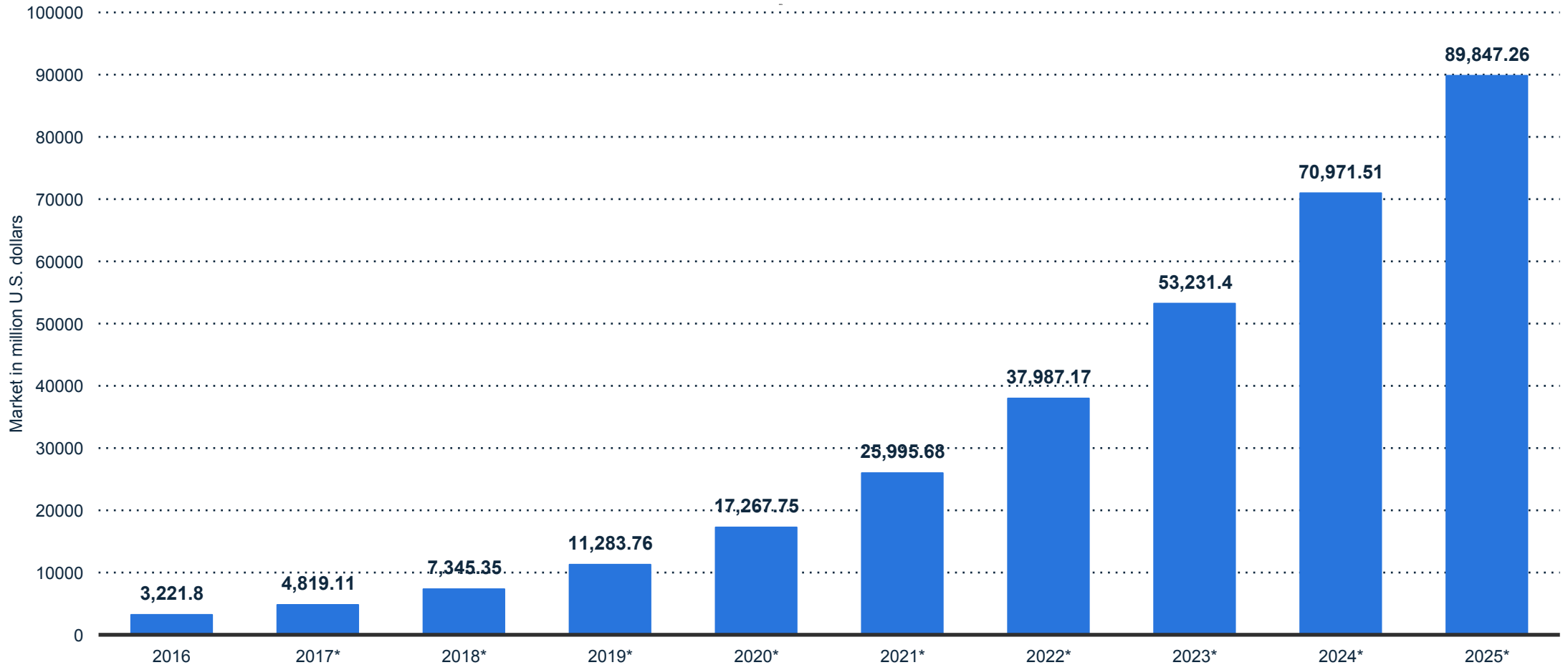
MARKET OVERVIEW

Artificial Intelligence (AI)

Revenues from the artificial intelligence (AI) market worldwide from 2016 to 2025 (in million U.S. dollars)

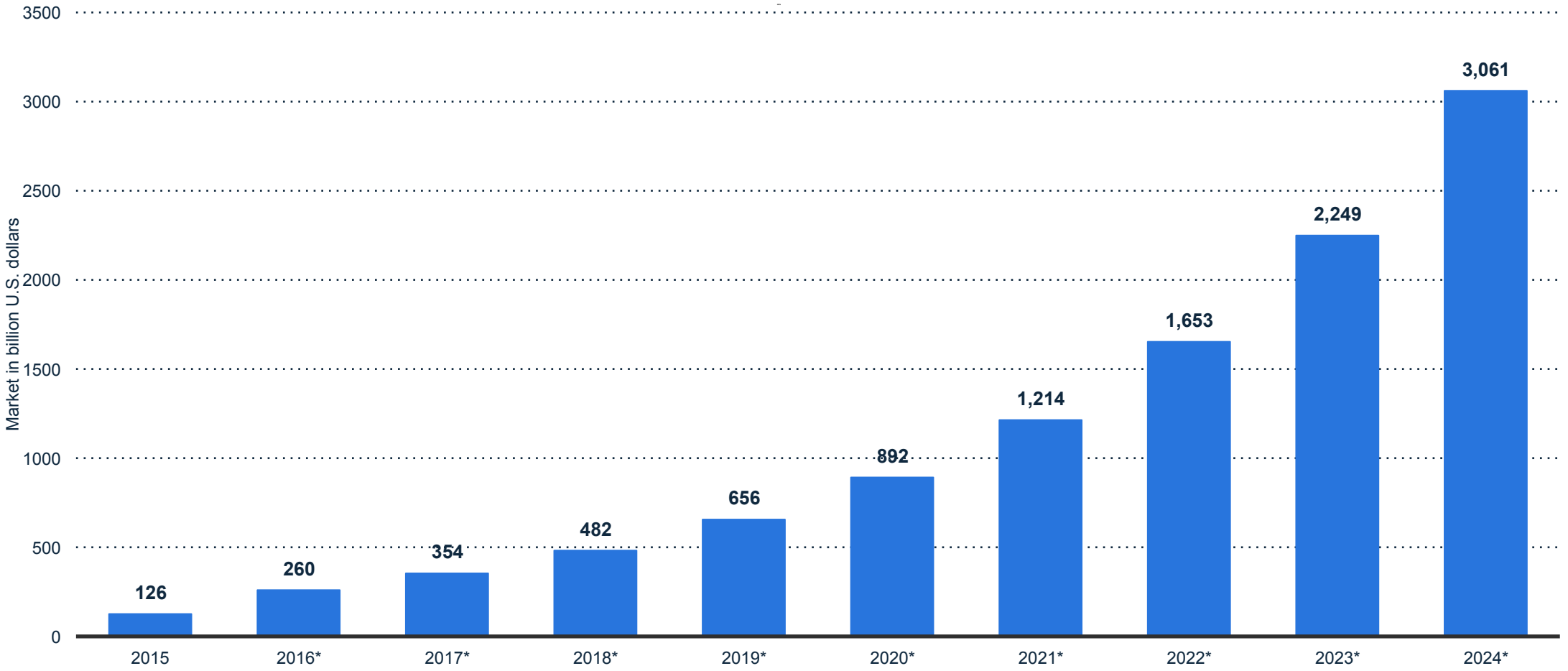
Artificial intelligence market revenue worldwide 2016-2025



Note: Worldwide; 2016 to 2017
Further information regarding this statistic can be found on page 67.
Source(s): Tractica; ID 607716

Revenues from the artificial intelligence (AI) market worldwide from 2015 to 2024 (in billion U.S. dollars)

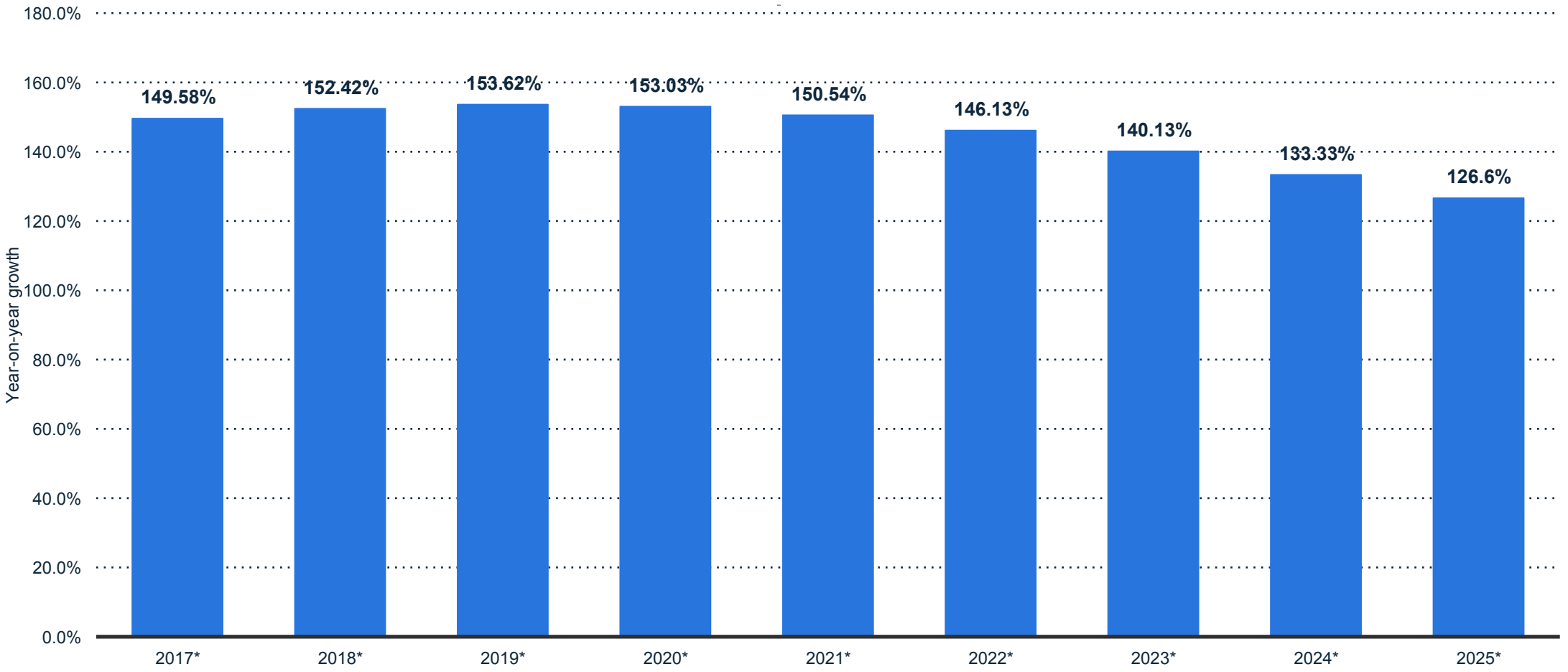
Artificial intelligence market revenue worldwide 2015-2024



Note: Worldwide; 2015 to 2016
Further information regarding this statistic can be found on page 68.
Source(s): Transparency Market Research; ID 621035

Growth of the artificial intelligence (AI) market worldwide from 2017 to 2025

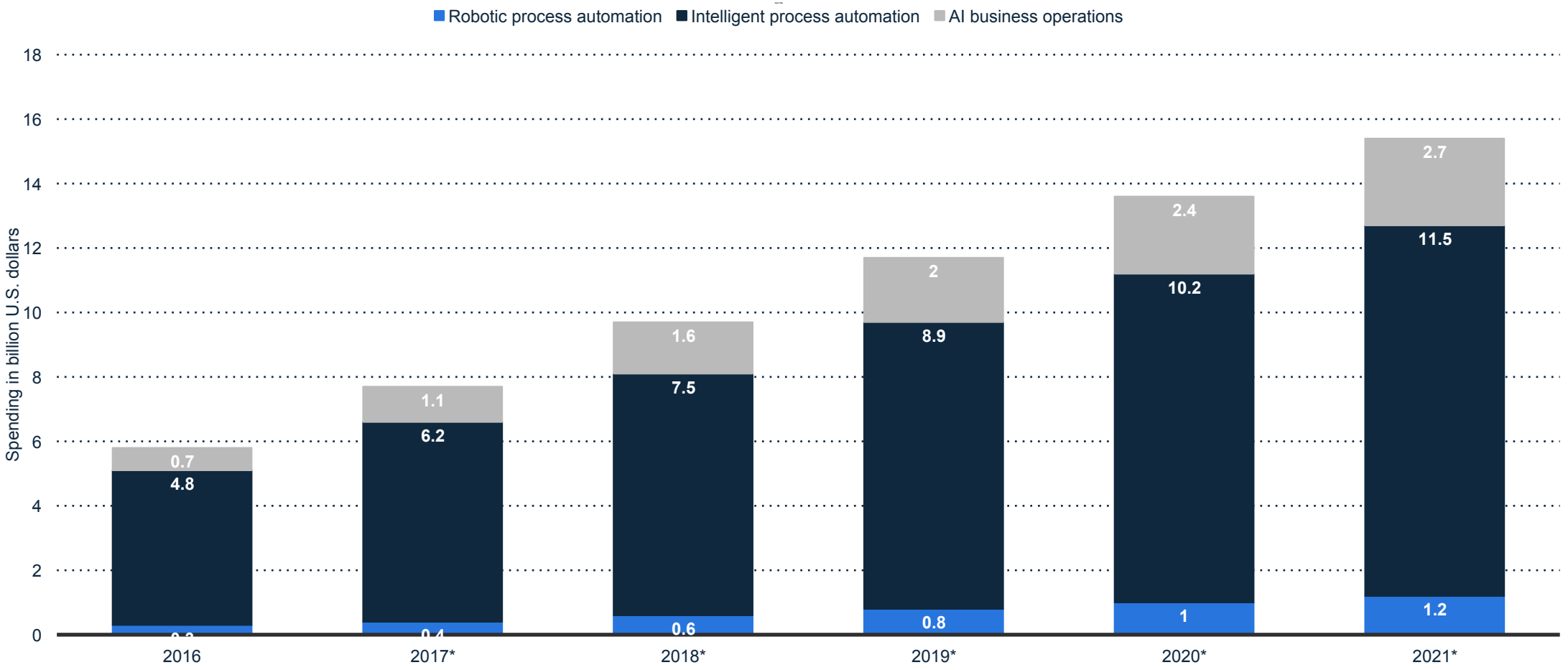
Artificial intelligence market growth worldwide 2017-2025



Note: Worldwide; 2016 to 2017
Further information regarding this statistic can be found on page 69.
Source(s): Tractica; ID 607960

Robotic/intelligent process automation (RPA/IPA) and artificial intelligence (AI) automation spending worldwide from 2016 to 2021, by segment (in billion U.S. dollars)

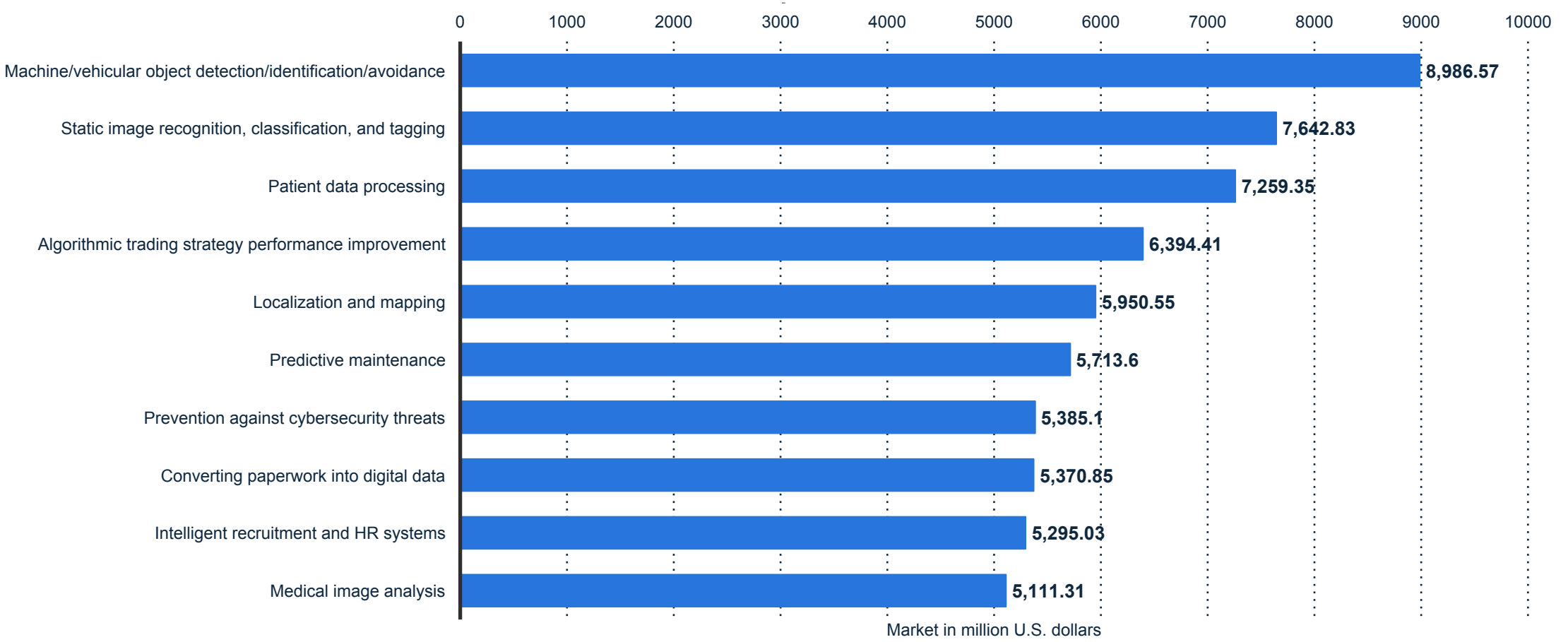
Spending on automation and AI business operations worldwide 2016-2021, by segment



Note: Worldwide; 2017
Further information regarding this statistic can be found on page 70.
Source(s): HfS Research ; ID 740436

Cumulative revenue of top 10 use cases/segments of artificial intelligence (AI) market worldwide, between 2016 and 2025 (in million U.S. dollars)

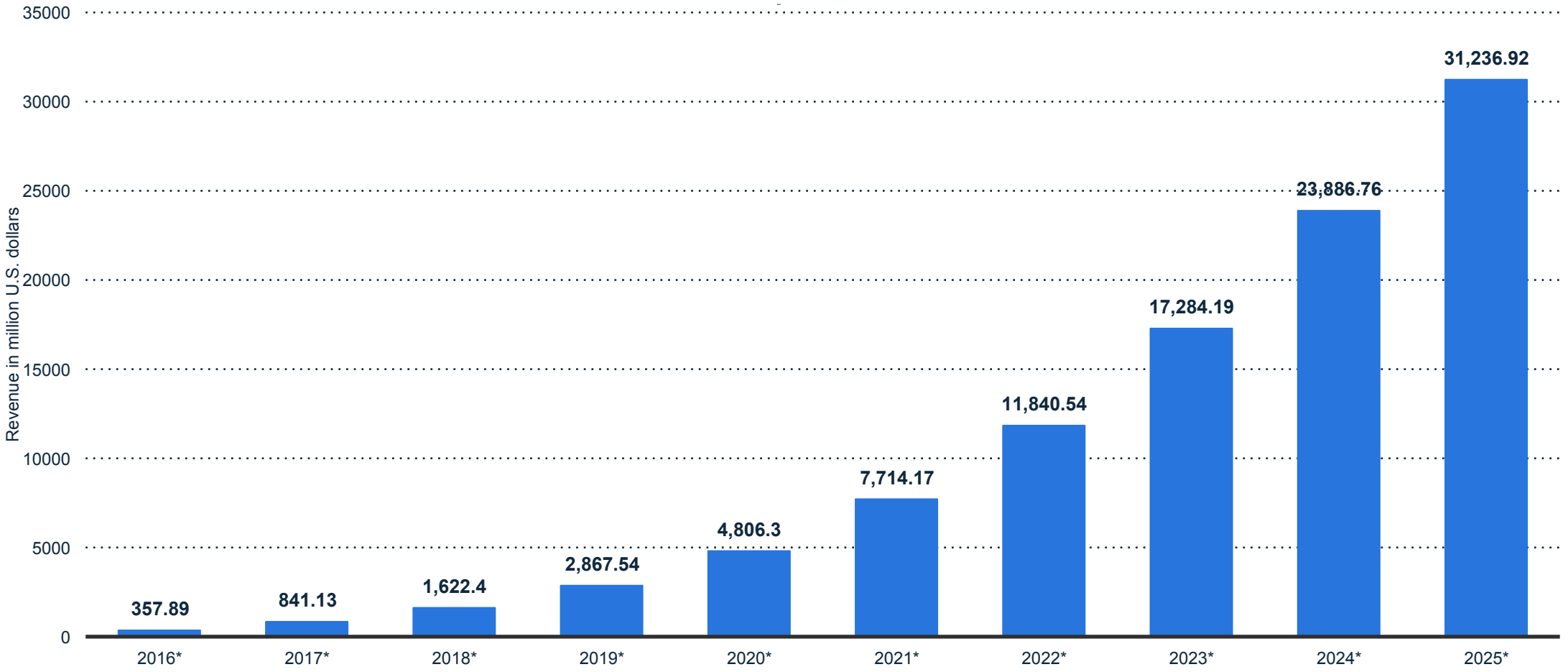
Top 10 artificial intelligence use cases by cumulative revenue worldwide 2016-2025



Note: Worldwide; 2016
Further information regarding this statistic can be found on page 71.
Source(s): Tractica; ID 607835

Revenues from the artificial intelligence for enterprise applications market worldwide, from 2016 to 2025 (in million U.S. dollars)

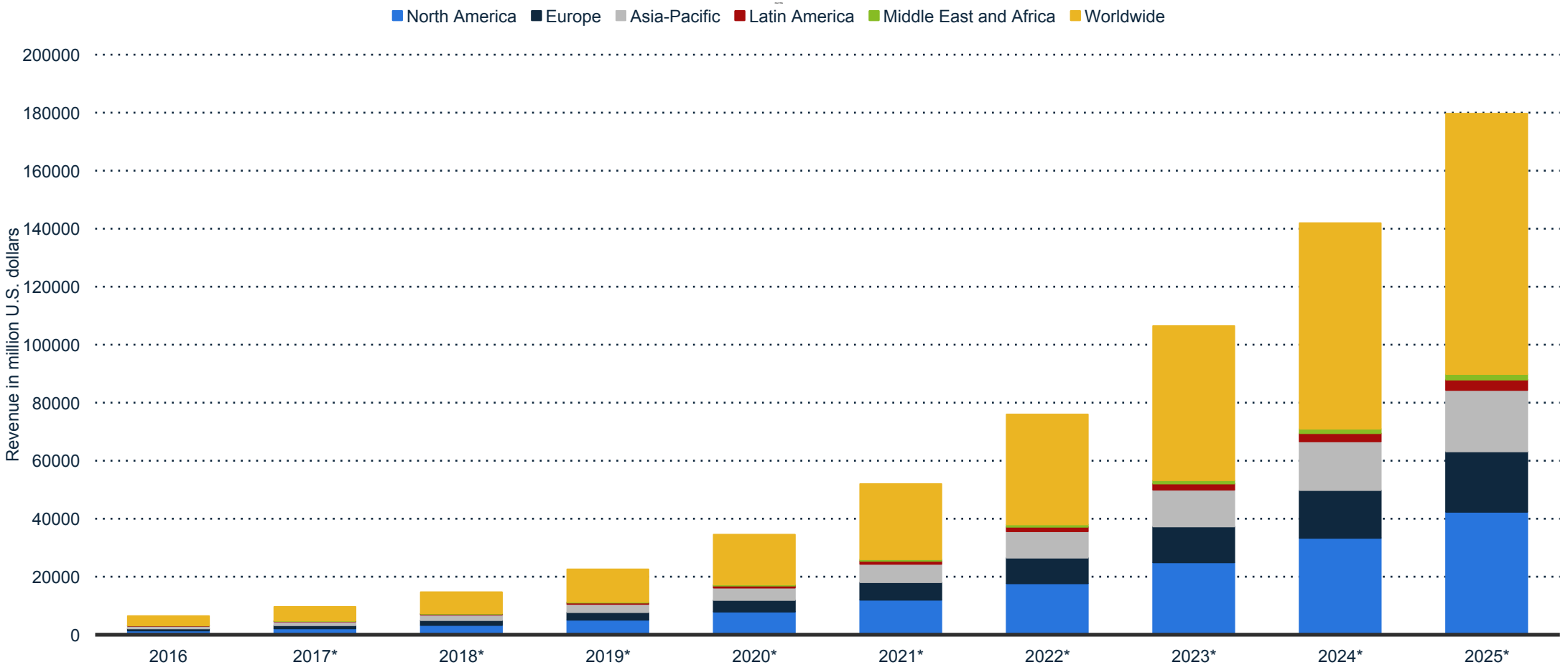
Enterprise artificial intelligence market revenue worldwide 2016-2025



Note: Worldwide; 2016
Further information regarding this statistic can be found on page 72.
Source(s): Tractica; ID 607612

Revenues from the artificial intelligence market worldwide, from 2016 to 2025, by region (in million U.S. dollars)

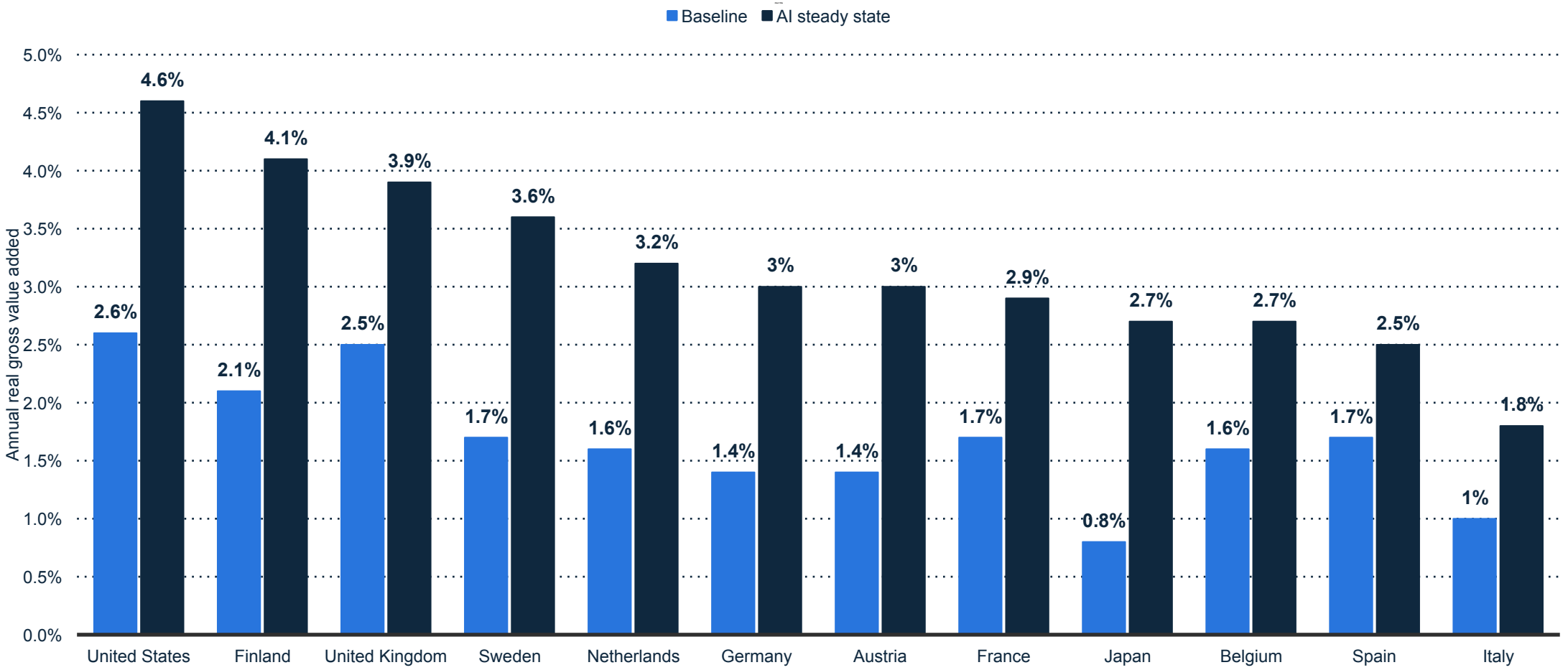
Artificial intelligence market revenue worldwide 2016-2025, by region



Note: Worldwide; 2016 to 2017
Further information regarding this statistic can be found on page 73.
Source(s): Tractica; ID 721747

Potential impact of artificial intelligence (AI) on real gross value added (GVA) worldwide, by country, by 2035

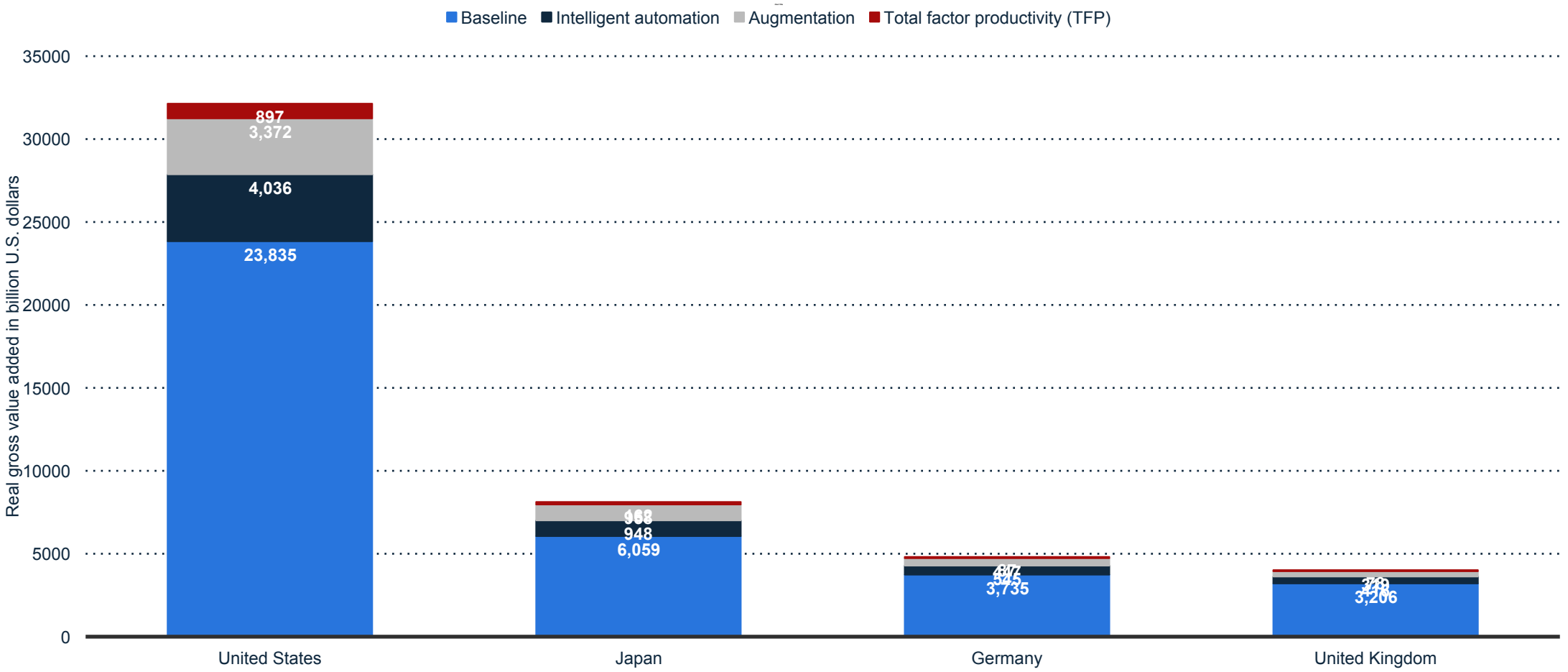
Potential economic impact (growth) of artificial intelligence 2035, by country



Note: Worldwide; 2016
Further information regarding this statistic can be found on page 74.
Source(s): Accenture; Frontier Economics; ID 621583

Impact of artificial intelligence (AI) on real gross value added (GVA) worldwide, by select country, in 2035 (in billion U.S. dollars)

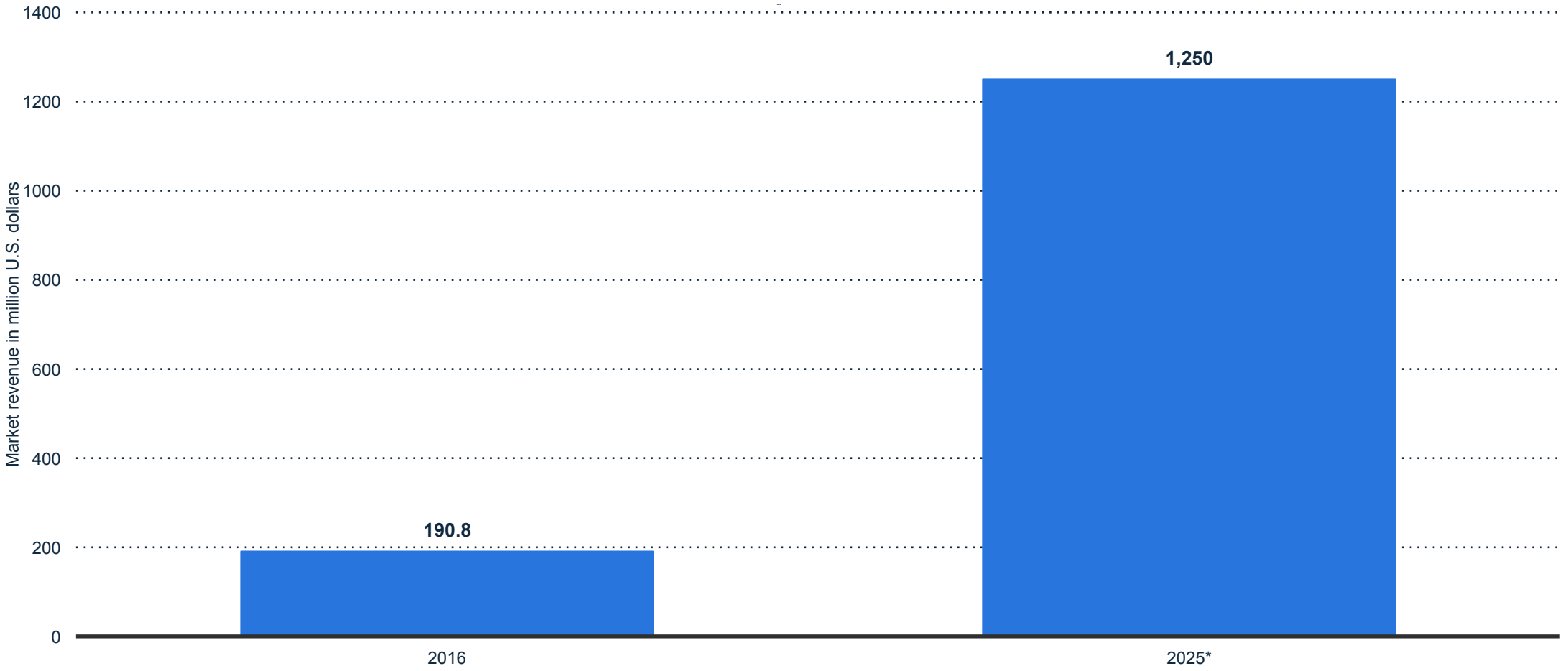
Artificial intelligence impact on real gross value added (GVA) 2035, by country



Note: Worldwide; 2016
Further information regarding this statistic can be found on page 75.
Source(s): Accenture; Frontier Economics; ID 621624

Size of the chatbot market worldwide, in 2016 and 2025 (in million U.S. dollars)

Chatbot market worldwide 2016 and 2025



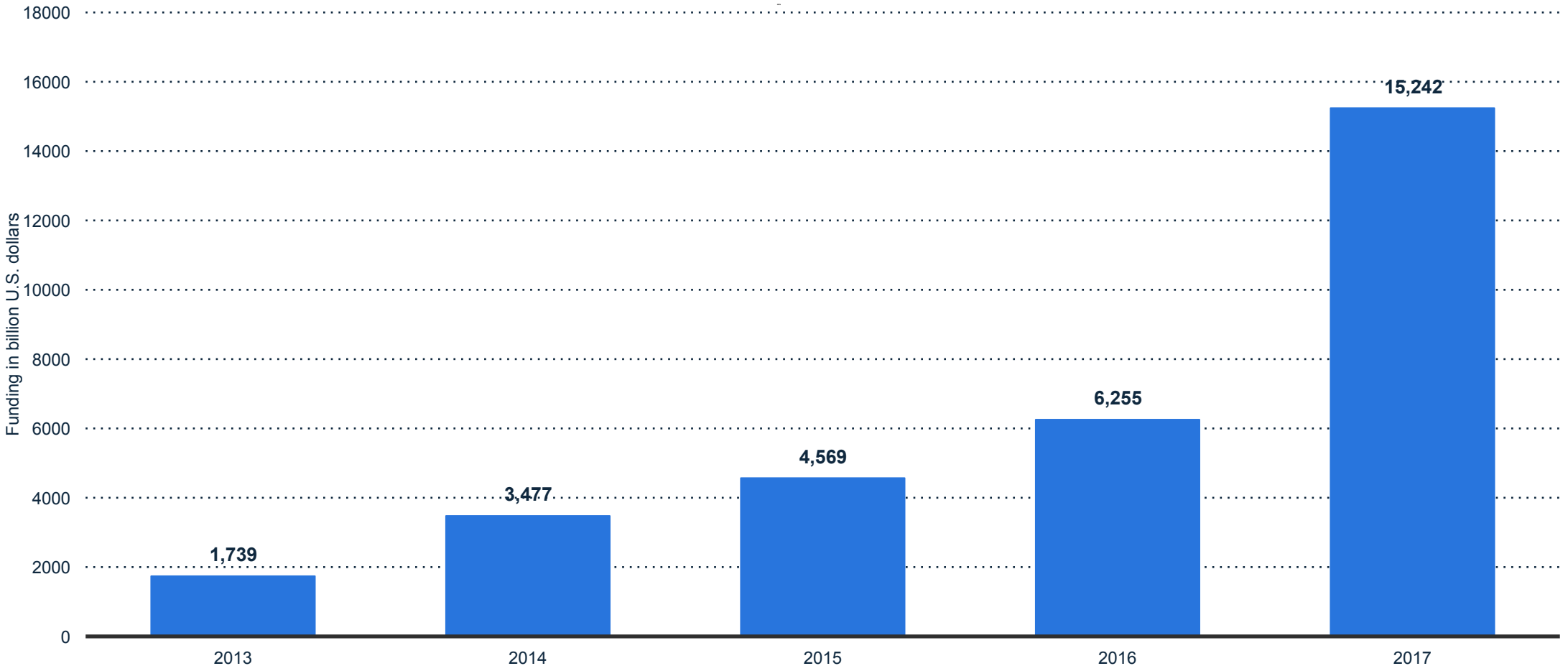
Note: Worldwide; 2017
Further information regarding this statistic can be found on page 76.
Source(s): Grand View Research; ID 656596

STARTUPS AND INVESTMENT

Artificial Intelligence (AI)

Funding of artificial intelligence (AI) startup companies worldwide, from 2013 to 2017 (in million U.S. dollars)

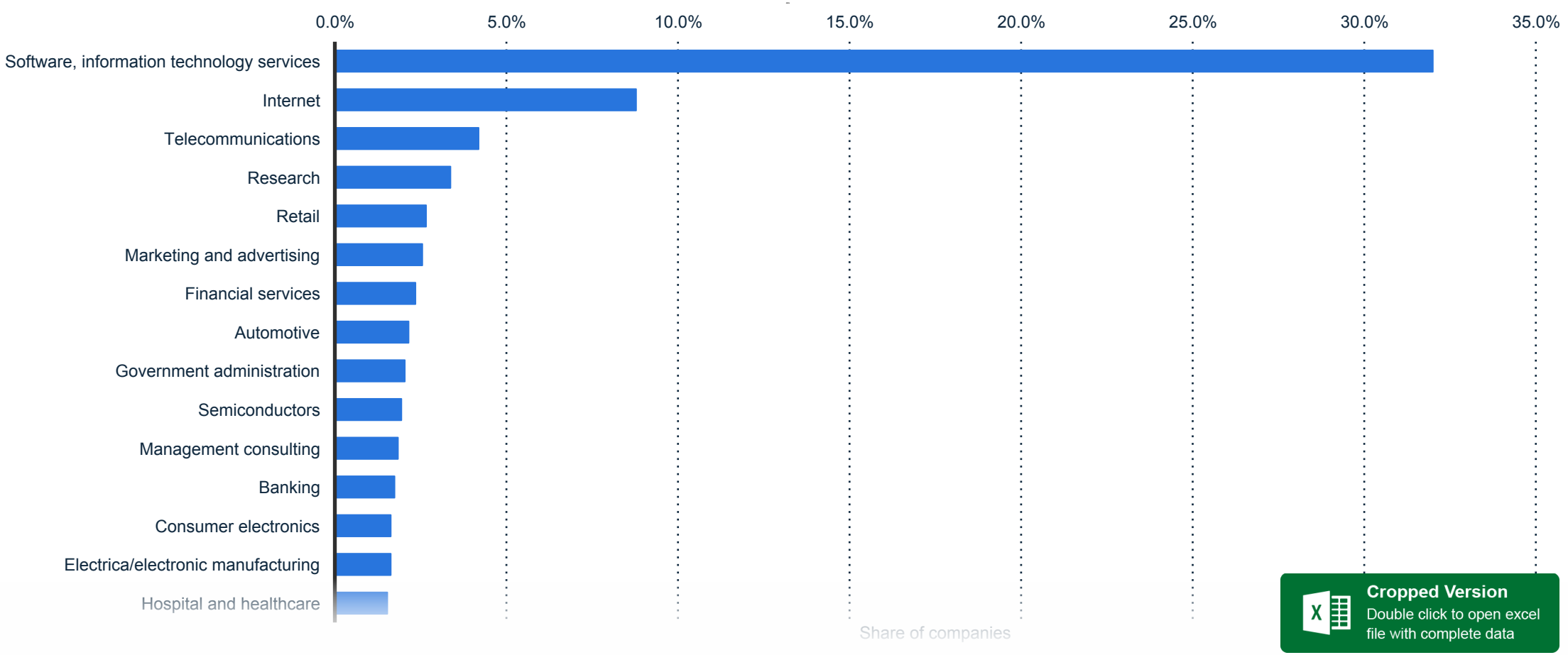
AI startup company funding worldwide 2013-2017



Note: Worldwide; 2013 to 2017
Further information regarding this statistic can be found on page 77.
Source(s): CB Insights; ID 621468

Share of companies investing in artificial intelligence (AI) worldwide, by industry, as of 2016

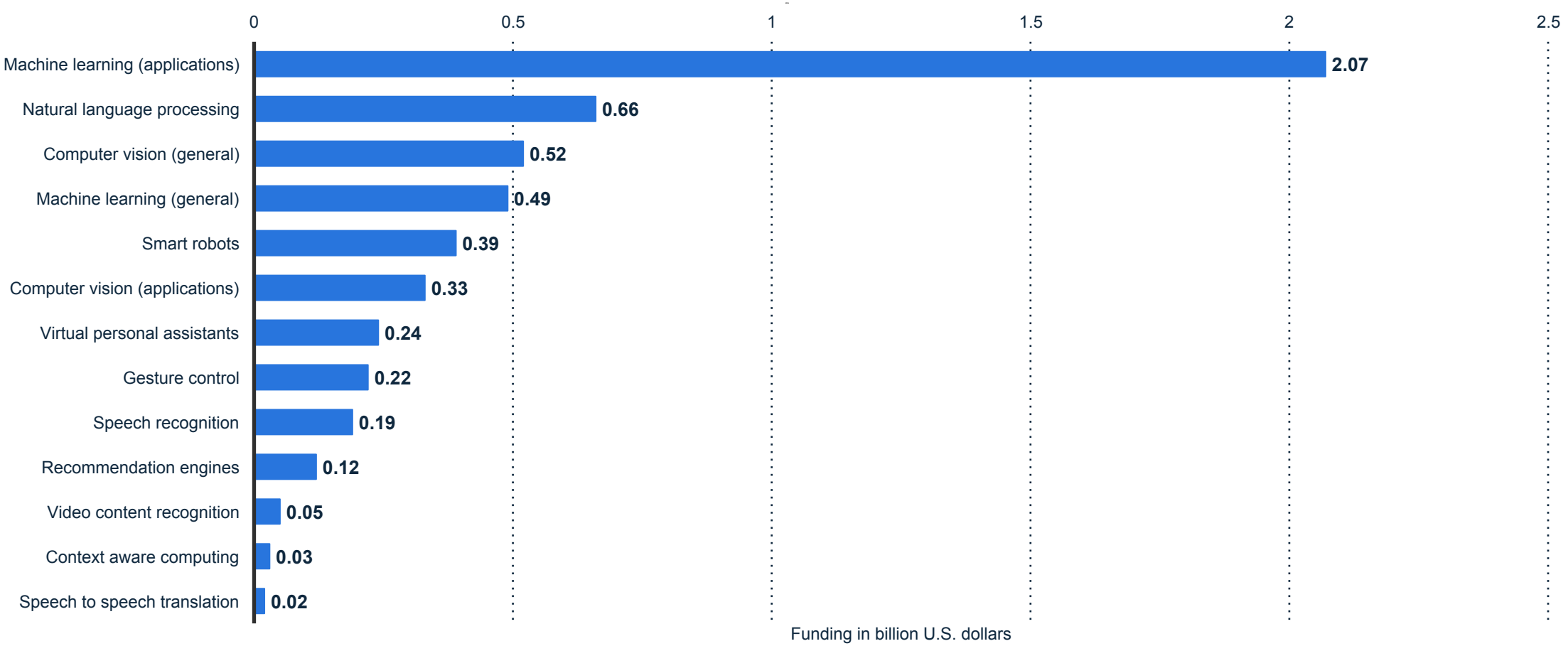
Global share of artificial intelligence investment by industry 2016



Note: Worldwide; 2016
Further information regarding this statistic can be found on page 78.
Source(s): TechEmergence; ID 621544

Total funding of startup companies working in the artificial intelligence (AI) market worldwide, as of March 2016, by category (in billion U.S. dollars)

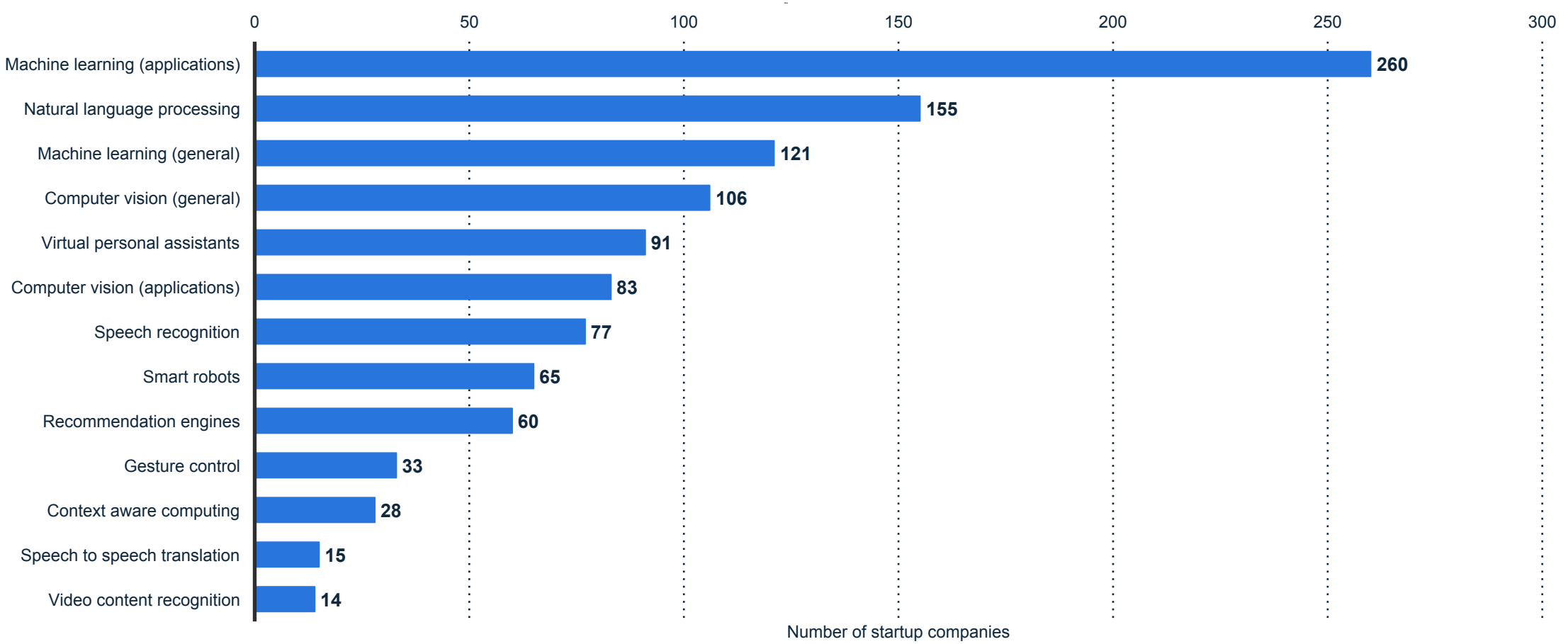
Artificial intelligence-focused startup company funding worldwide 2016, by category



Note: Worldwide; 2006 to 2016
Further information regarding this statistic can be found on page 79.
Source(s): Statista estimates; Medium; ID 621427

Number of startup companies working in the artificial intelligence (AI) market worldwide, as of March 2016, by category

Artificial intelligence-focused startup company count worldwide 2016, by category



Note: Worldwide; 2016
Further information regarding this statistic can be found on page 80.
Source(s): Statista estimates; Medium; ID 621279

Ranking of most well-funded artificial intelligence (AI) startups between 2010 and 2016 (in million U.S. dollars)

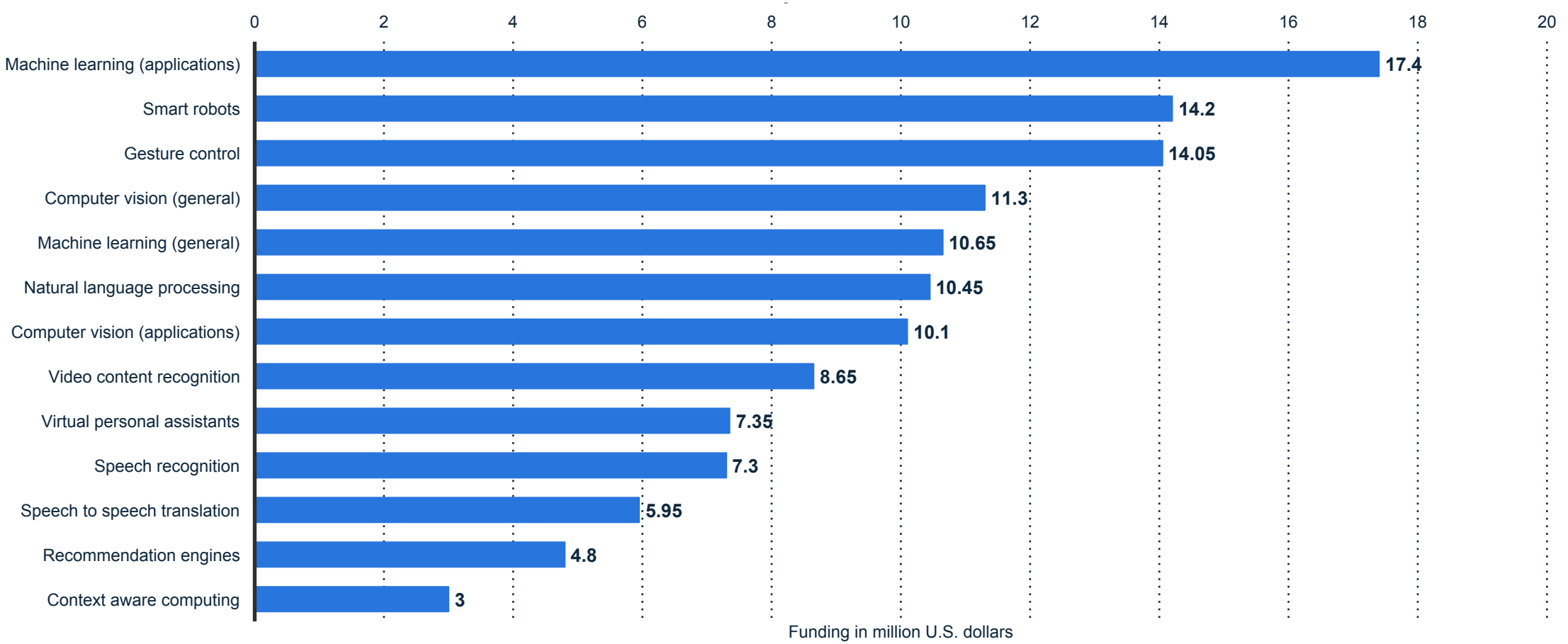
Ranking of most well-funded AI startup companies worldwide 2010-2016

	Total funding in million U.S. dollars
Sentient Technologies	143.8
Ayasdi	97.9
Digital Reasoning Systems	75.6
Vicarious Systems	67
Data Robot	57.4
Face++	48
Cortica	37.4
Affectiva	34.2
H2O.ai	30.6
Viv Labs	30

Note: Worldwide; 2010 to June 15, 2016
Further information regarding this statistic can be found on page 81.
Source(s): CB Insights; ID 621132

Average funding of artificial intelligence (AI) startup companies worldwide, as of March 2016, by category (in million U.S. dollars)

Average AI-focused startup company funding worldwide 2016, by category



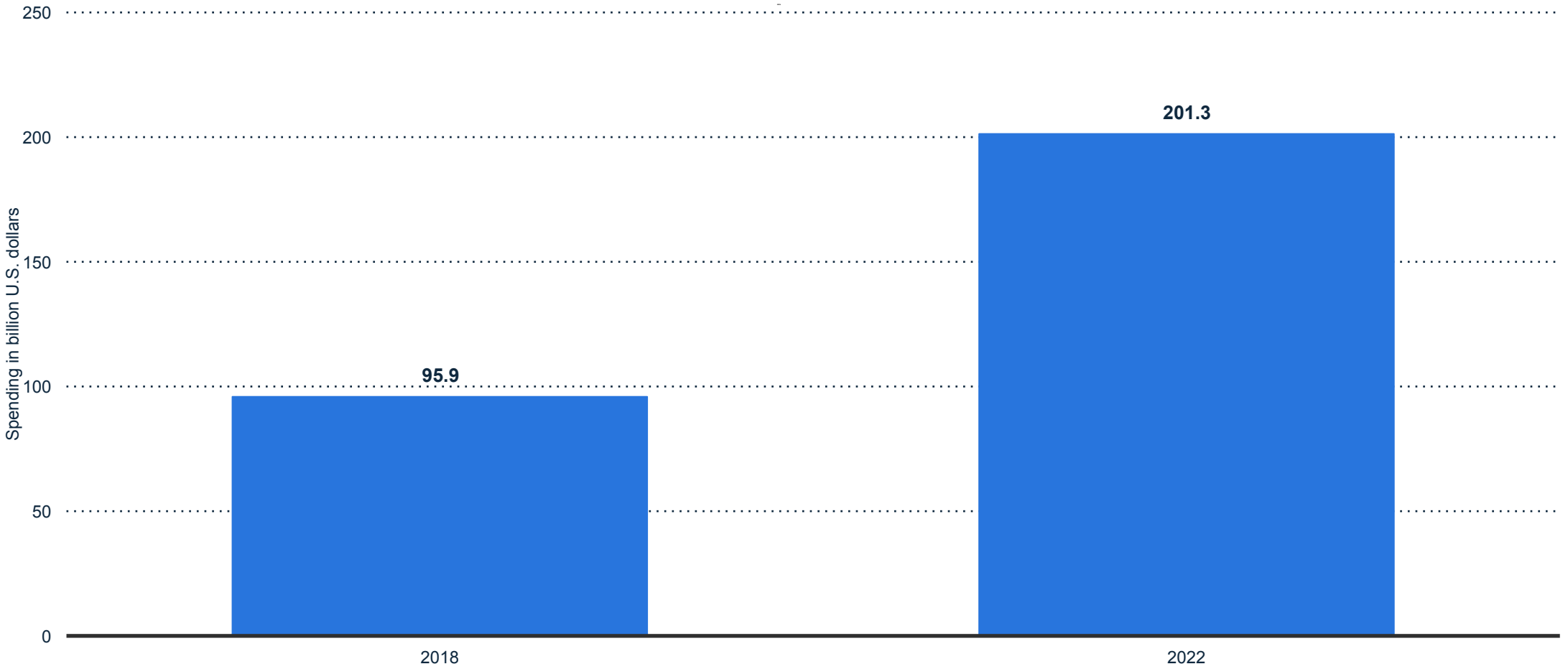
Note: Worldwide; 2016
Further information regarding this statistic can be found on page 82.
Source(s): Statista estimates; Medium; ID 621460

ROBOTICS

Artificial Intelligence (AI)

Global spending on robotics and drones in 2018 and 2022 (in billion U.S. dollars)

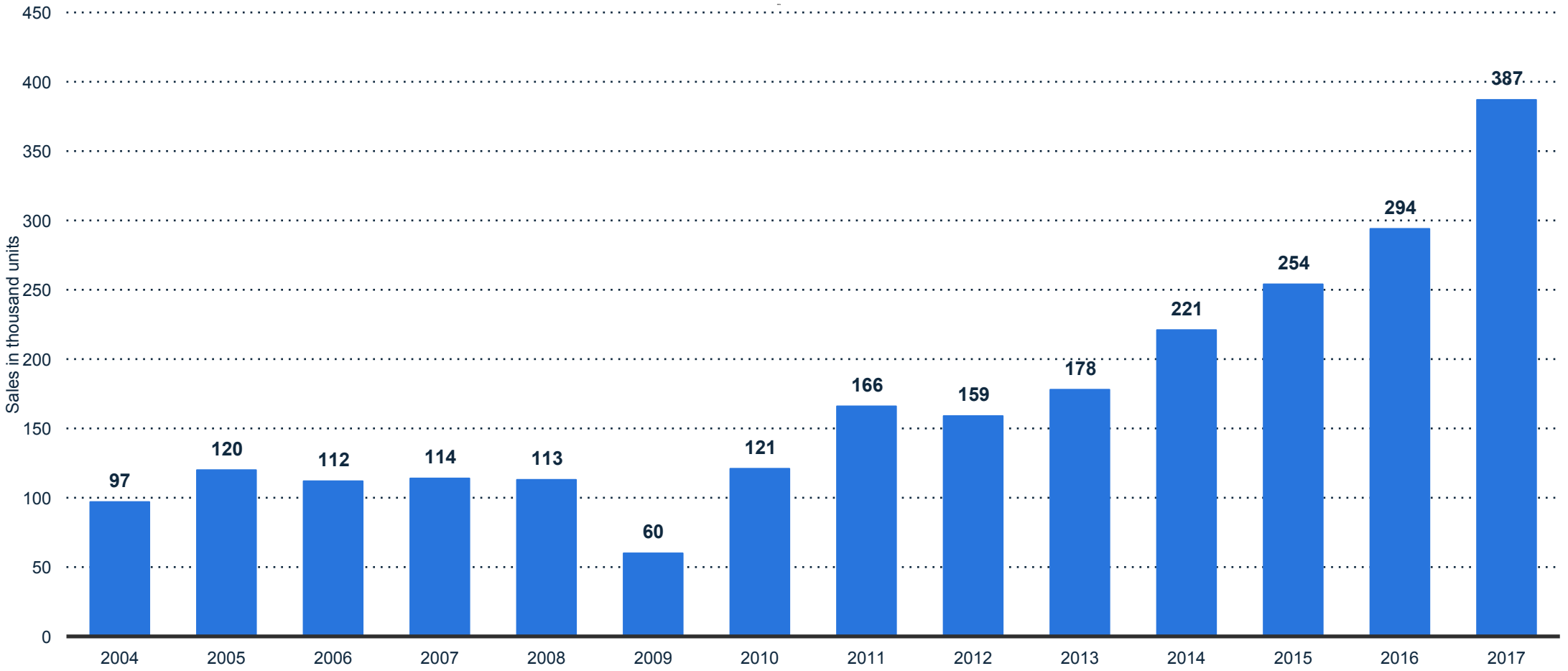
Spending forecast - global market for robotics and drones 2018/2022



Note: Worldwide; as of July 2018
Further information regarding this statistic can be found on page 83.
Source(s): IDC; Website; ID 441948

Worldwide sales of industrial robots from 2004 to 2017 (in 1,000 units)

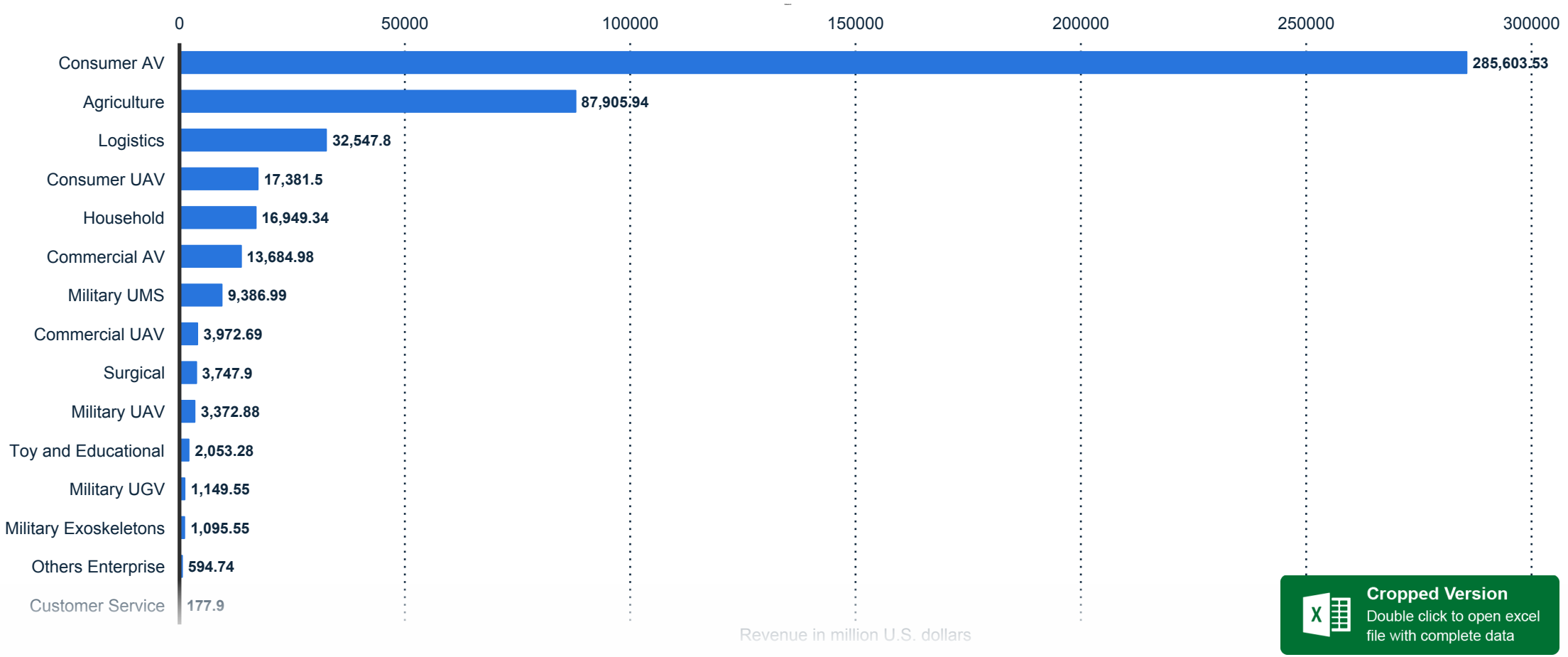
Industrial robots - worldwide sales 2004-2017



Note: Worldwide
Further information regarding this statistic can be found on page 84.
Source(s): IFR; ID 264084

Projected non-industrial robotics market size worldwide in 2025, by major segment (in million U.S. dollars)

Global non-industrial robotics market revenue 2025, by segment

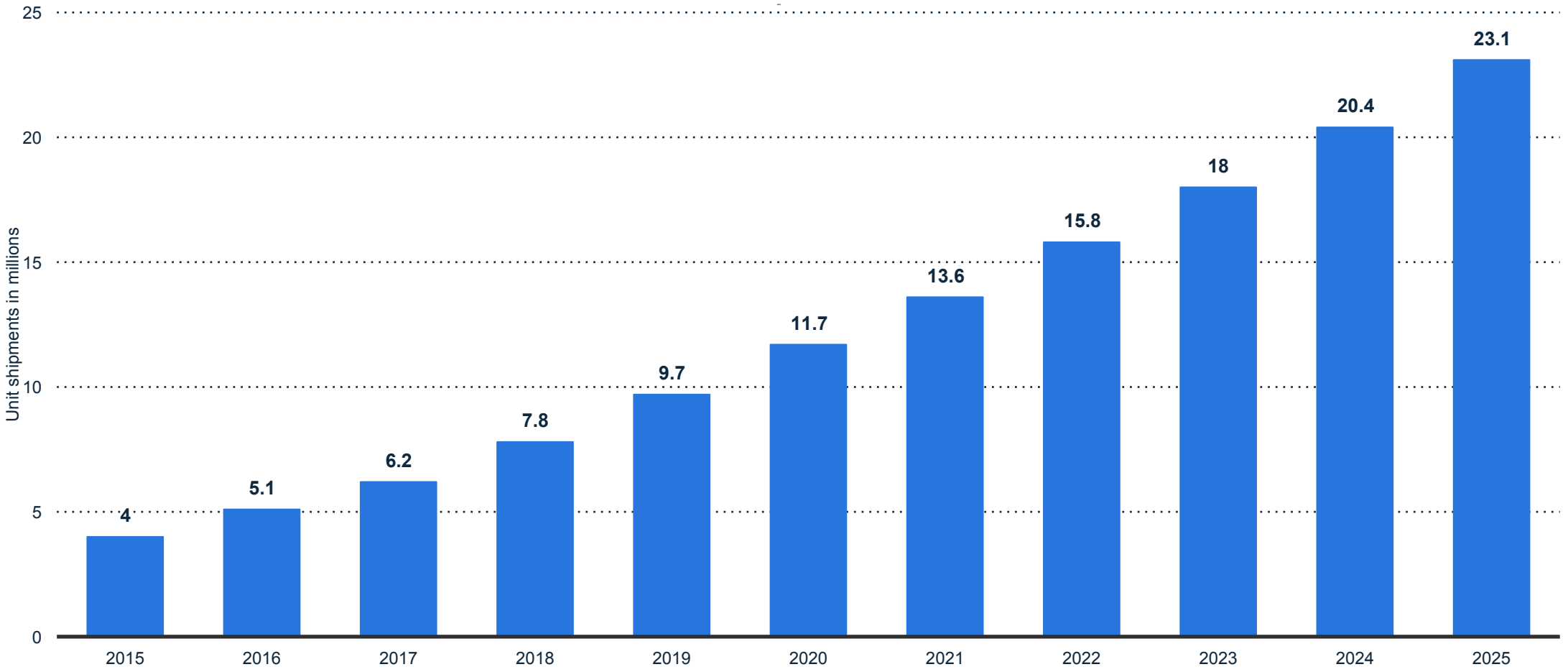


Cropped Version
Double click to open excel file with complete data

Note: Worldwide; 2018
Further information regarding this statistic can be found on page 85.
Source(s): Tractica; ID 760223

Unit shipments of domestic consumer robots worldwide from 2015 to 2025 (in millions)*

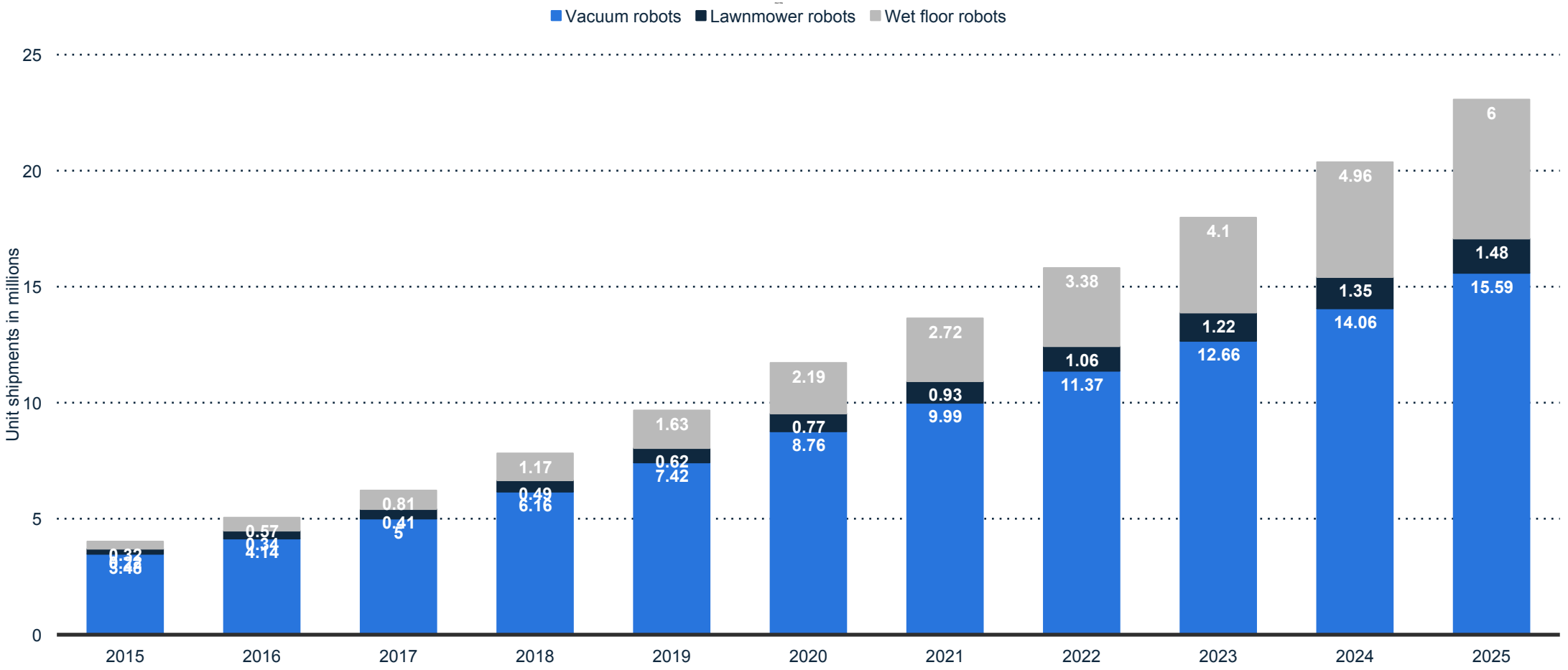
Shipments of domestic robots worldwide 2015-2025



Note: Worldwide; 2015 to 2016
Further information regarding this statistic can be found on page 86.
Source(s): Loup Ventures; ID 730884

Unit shipments of domestic consumer robots by category worldwide from 2015 to 2025 (in millions)*

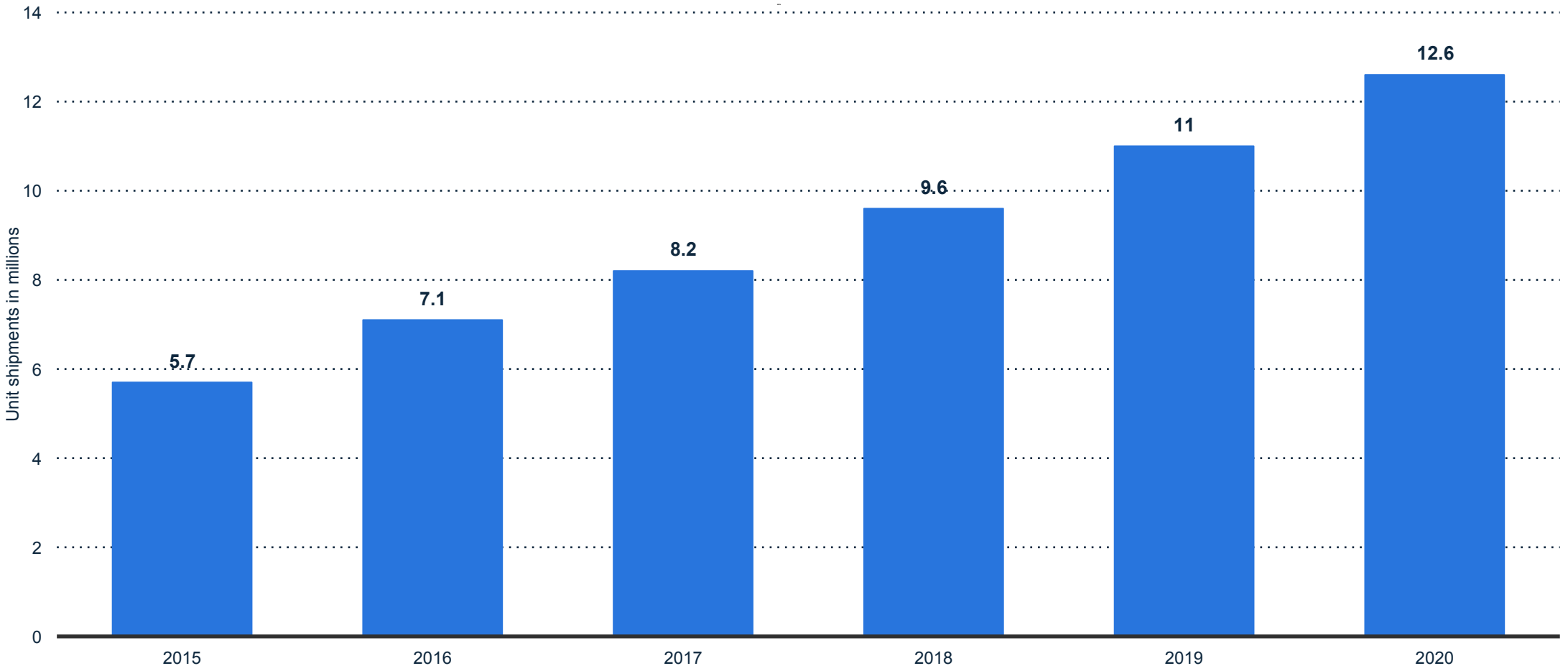
Shipments of domestic robots worldwide by category 2015-2025



Note: Worldwide; 2015 to 2016
Further information regarding this statistic can be found on page 87.
Source(s): Loup Ventures; ID 730883

Domestic service robots unit shipments worldwide from 2015 to 2020 (in millions)*

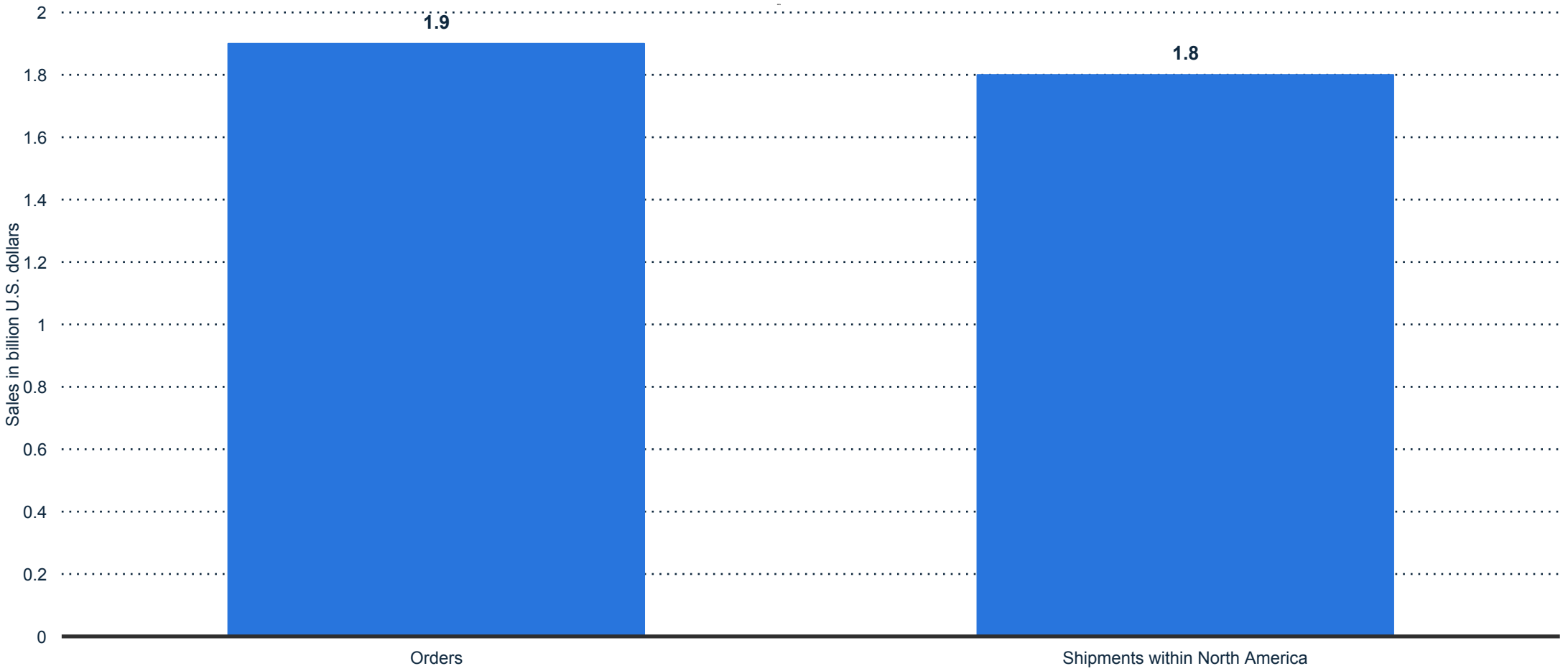
Global shipments of domestic service robots 2015-2020



Note: Worldwide; 2015 to 2017
Further information regarding this statistic can be found on page 88.
Source(s): Statista estimates; IHS; ID 613285

North American robot suppliers' orders and domestic sales of industrial robots in 2016 (in billion U.S. dollars)

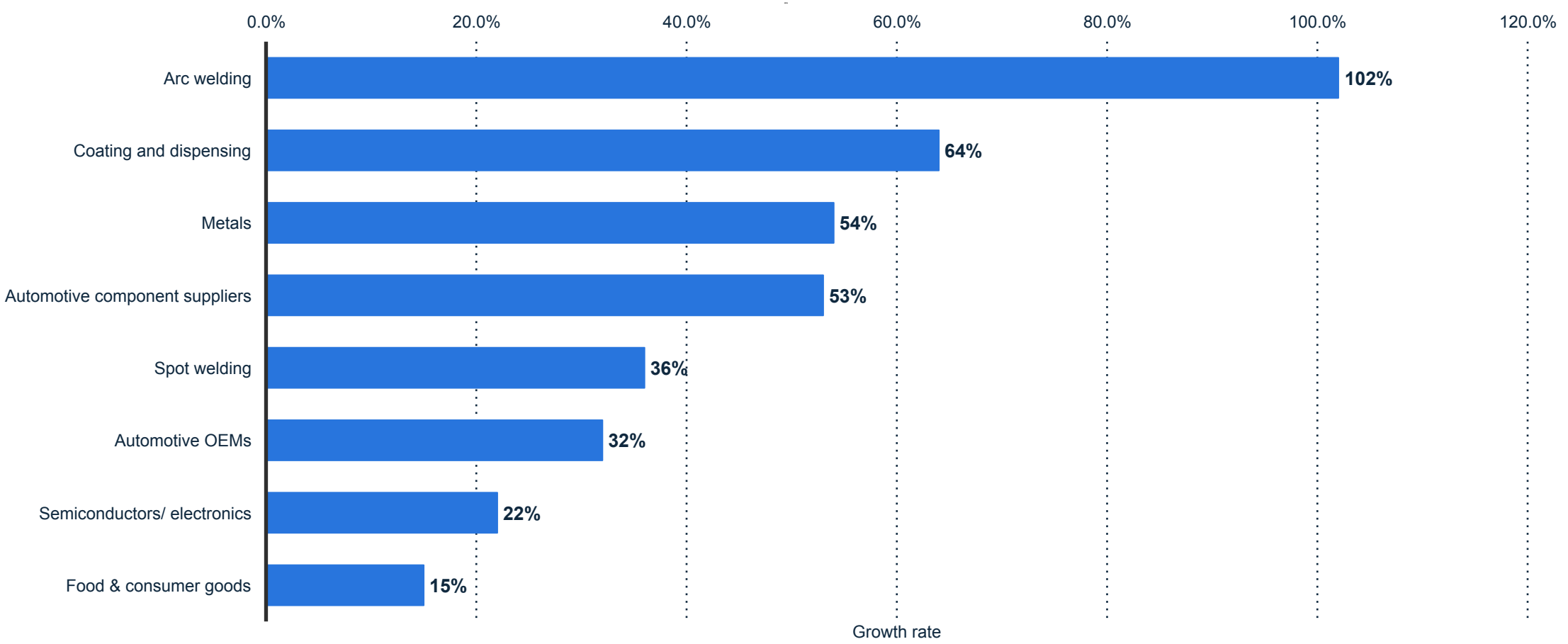
North American industrial robots - sales 2016



Note: Worldwide
Further information regarding this statistic can be found on page 89.
Source(s): Robotics Industries Association; ID 217527

Growth of North American industrial robot orders in 1st quarter 2017, by application (over the same period one year before)

North American industrial robots - order growth by application 2017



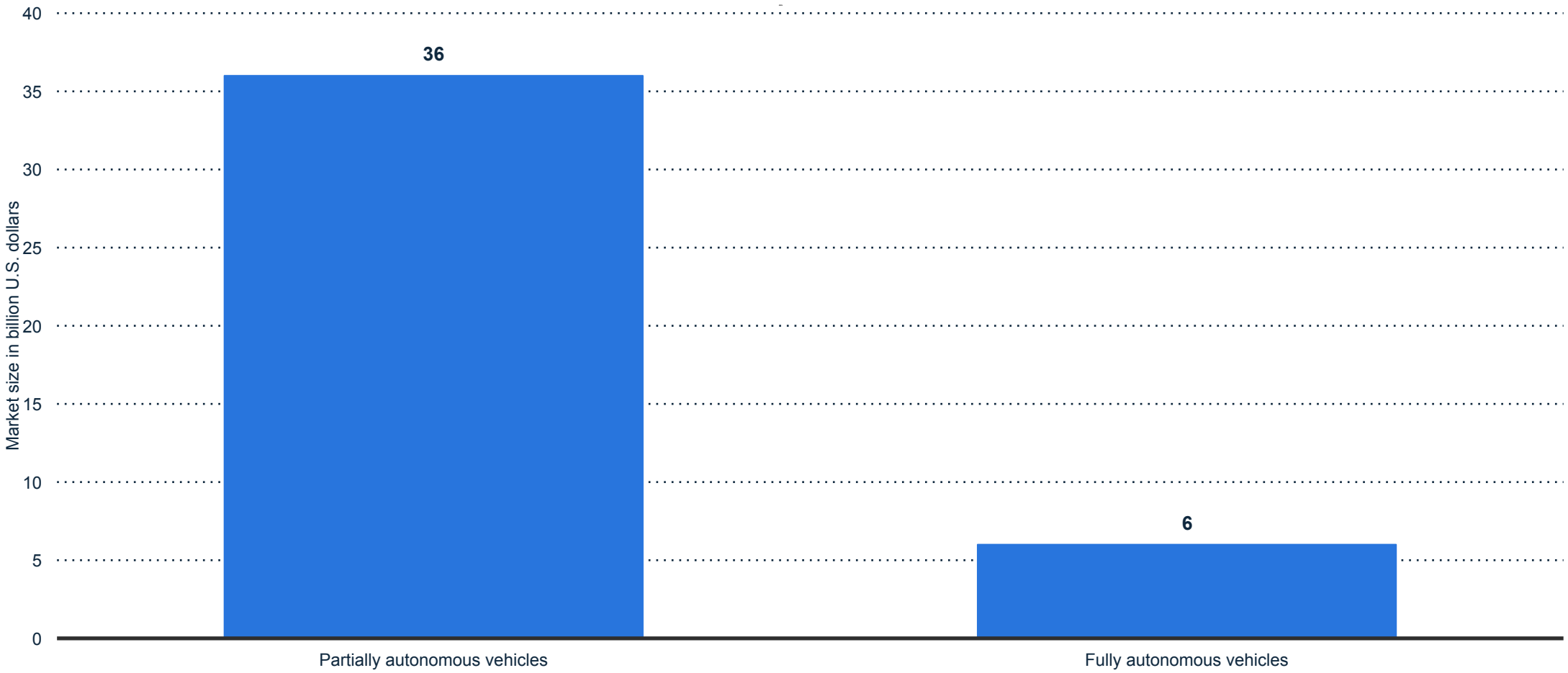
Note: Worldwide
Further information regarding this statistic can be found on page 90.
Source(s): Robotics Industries Association; ID 217550

AUTONOMOUS DRIVING/VEHICLES

Artificial Intelligence (AI)

Projected size of the global autonomous vehicle market in 2025, by type (in billion U.S. dollars)

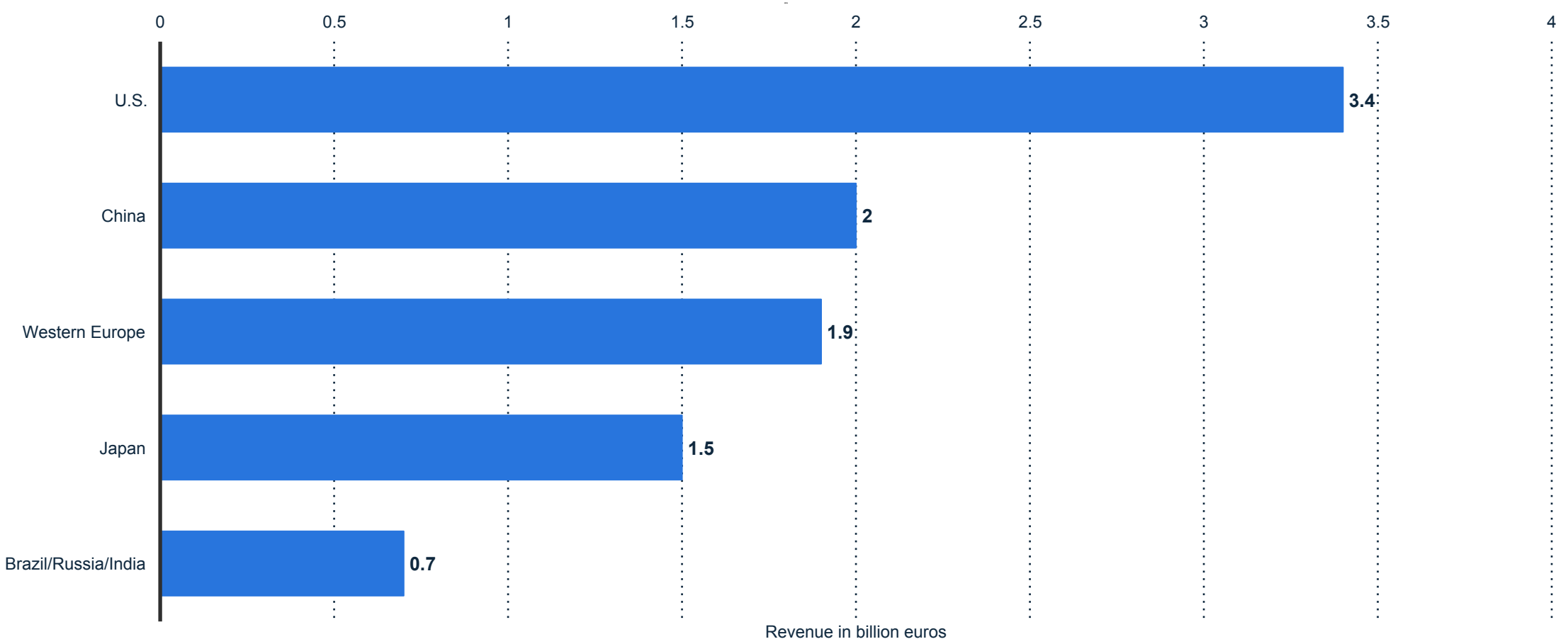
Size of the global autonomous car market by vehicle type 2025



Note: Worldwide; 2014
Further information regarding this statistic can be found on page 91.
Source(s): BCG; Various sources; ID 428692

Projected autonomous driving revenue in 2016, by major market (in billion euros)

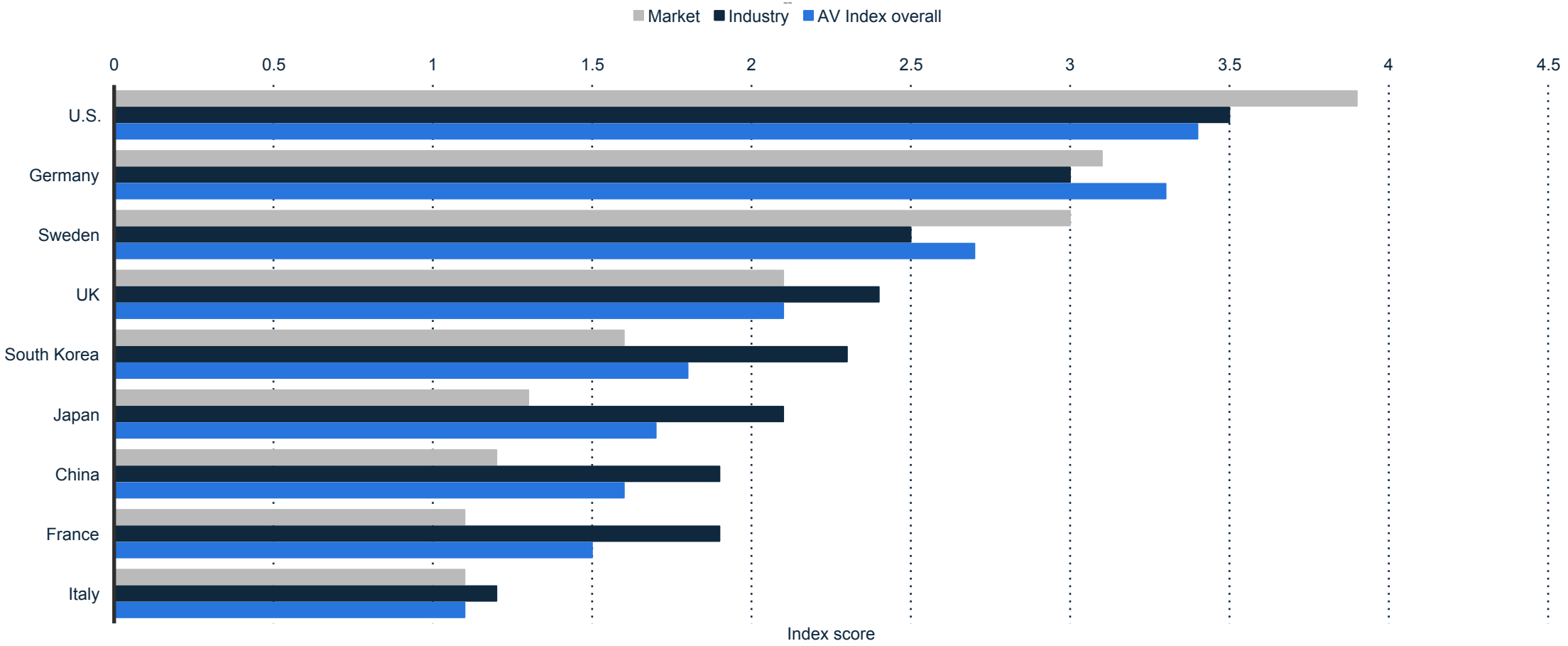
Autonomous driving - projected revenue by major market 2016



Note: Worldwide
Further information regarding this statistic can be found on page 92.
Source(s): PwC; Strategy&; ID 472316

Leading countries active in the field of autonomous vehicles as of 1st quarter of 2017, based on the Autonomous Vehicle Index

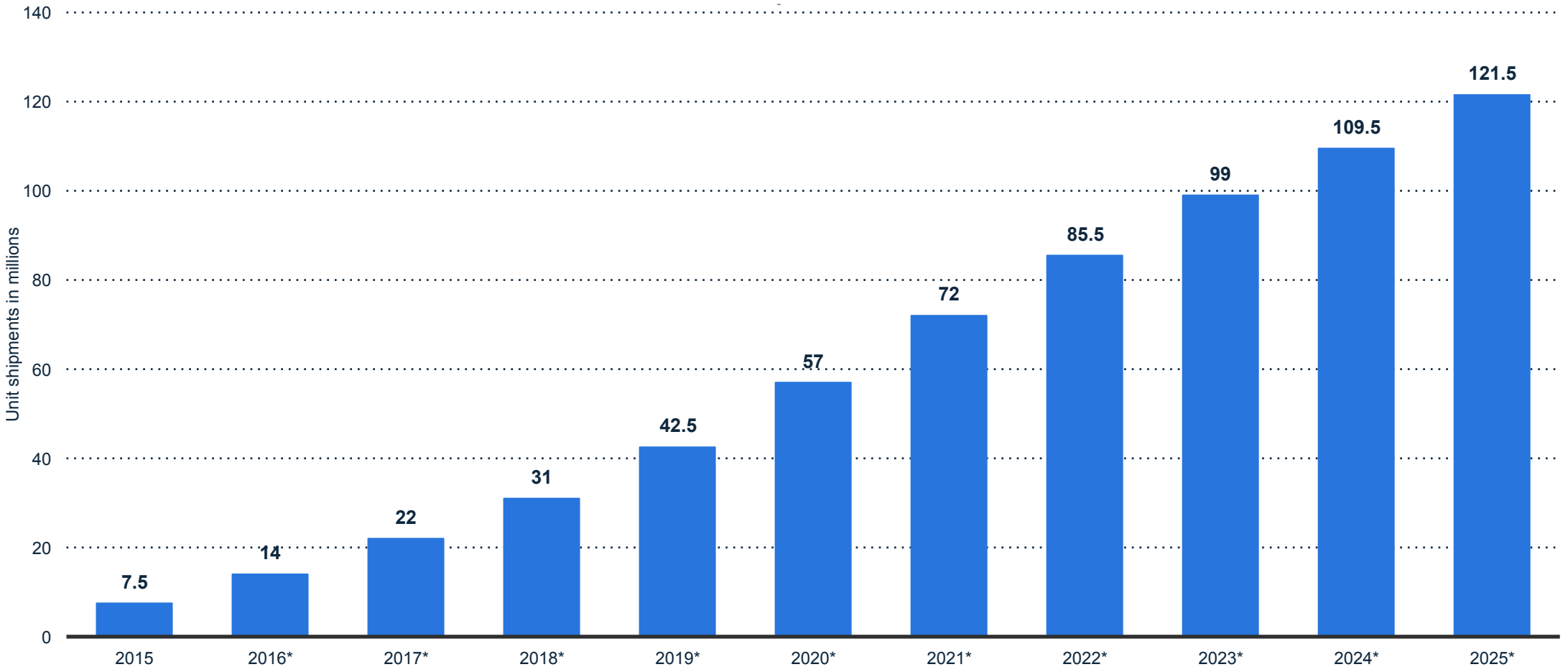
Leading countries in the field of autonomous vehicles 2017



Note: Worldwide
Further information regarding this statistic can be found on page 93.
Source(s): Roland Berger; Forschungsgesellschaft Kraftfahrwesen Aachen; ID 575351

Unit shipments of artificial intelligence (AI) based systems used for automotive purposes* from 2015 to 2025 (in millions)

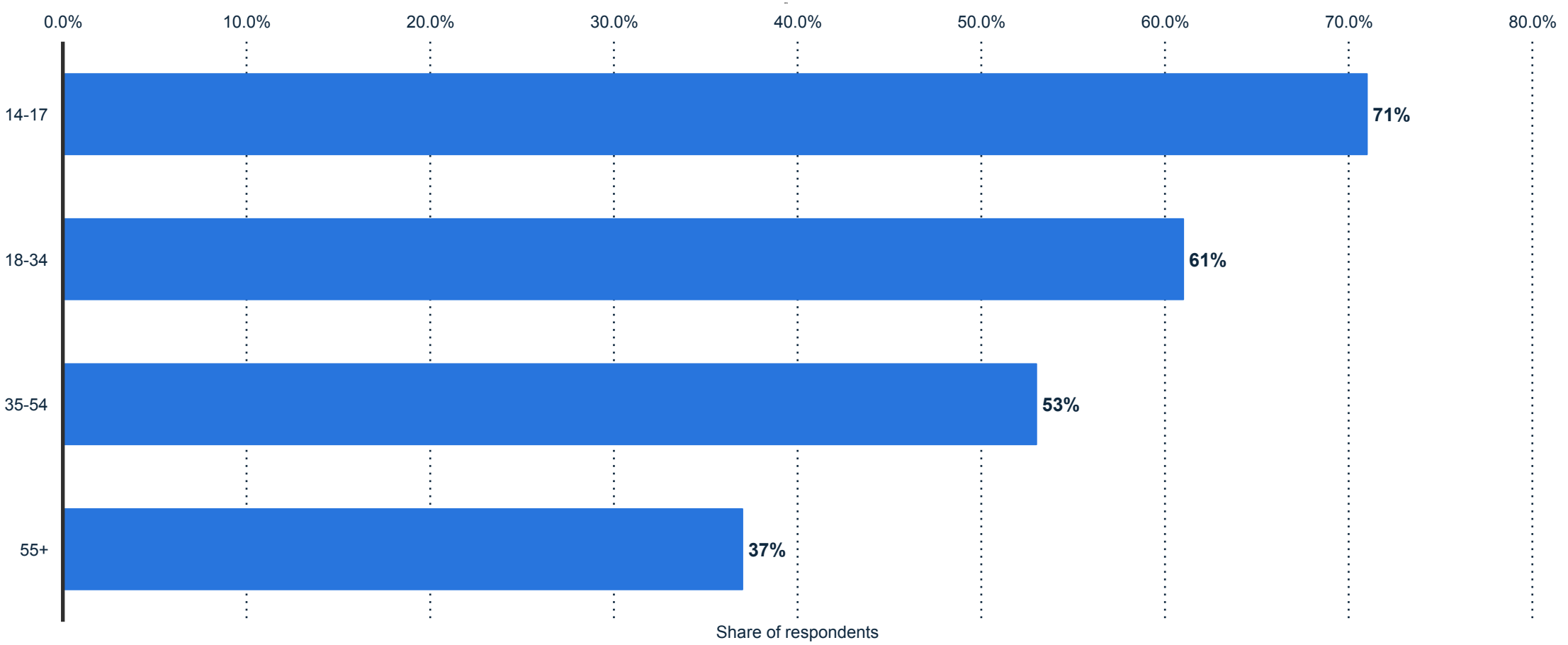
Global artificial intelligence based system shipments for automotive market 2015-2025



Note: Worldwide; 2016
Further information regarding this statistic can be found on page 94.
Source(s): Statista estimates; IHS; ID 620904

Share of global consumers willing to be a passenger in a self-driving vehicle as of November 2017, by age

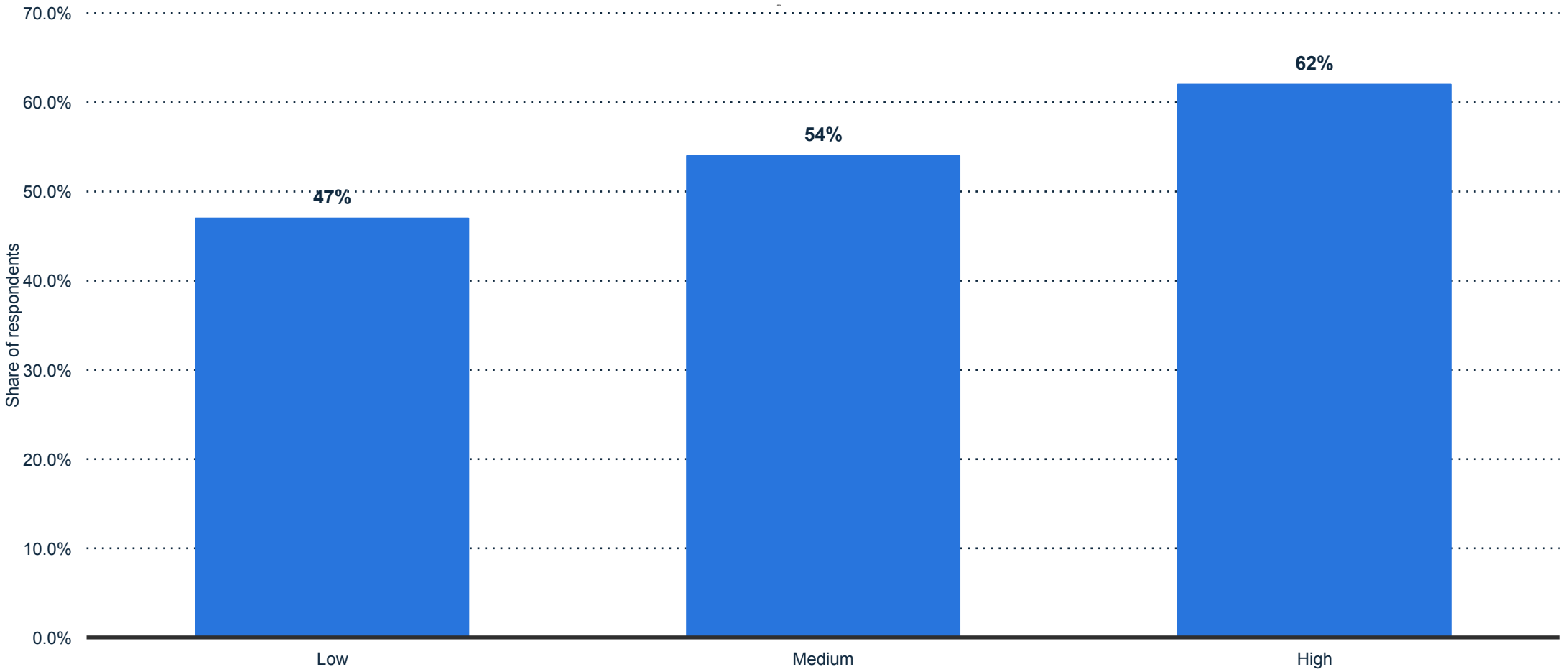
Self-driving vehicles: consumer willingness to be a passenger 2017, by age



Note: Worldwide; October to November 2017; 14-55 years; 21000 Respondents; online consumers
Further information regarding this statistic can be found on page 95.
Source(s): Accenture; Harris Interactive; ID 800898

Share of global consumers willing to be a passenger in a self-driving vehicle as of November 2017, by income

Self-driving vehicles: consumer willingness to be a passenger 2017, by income



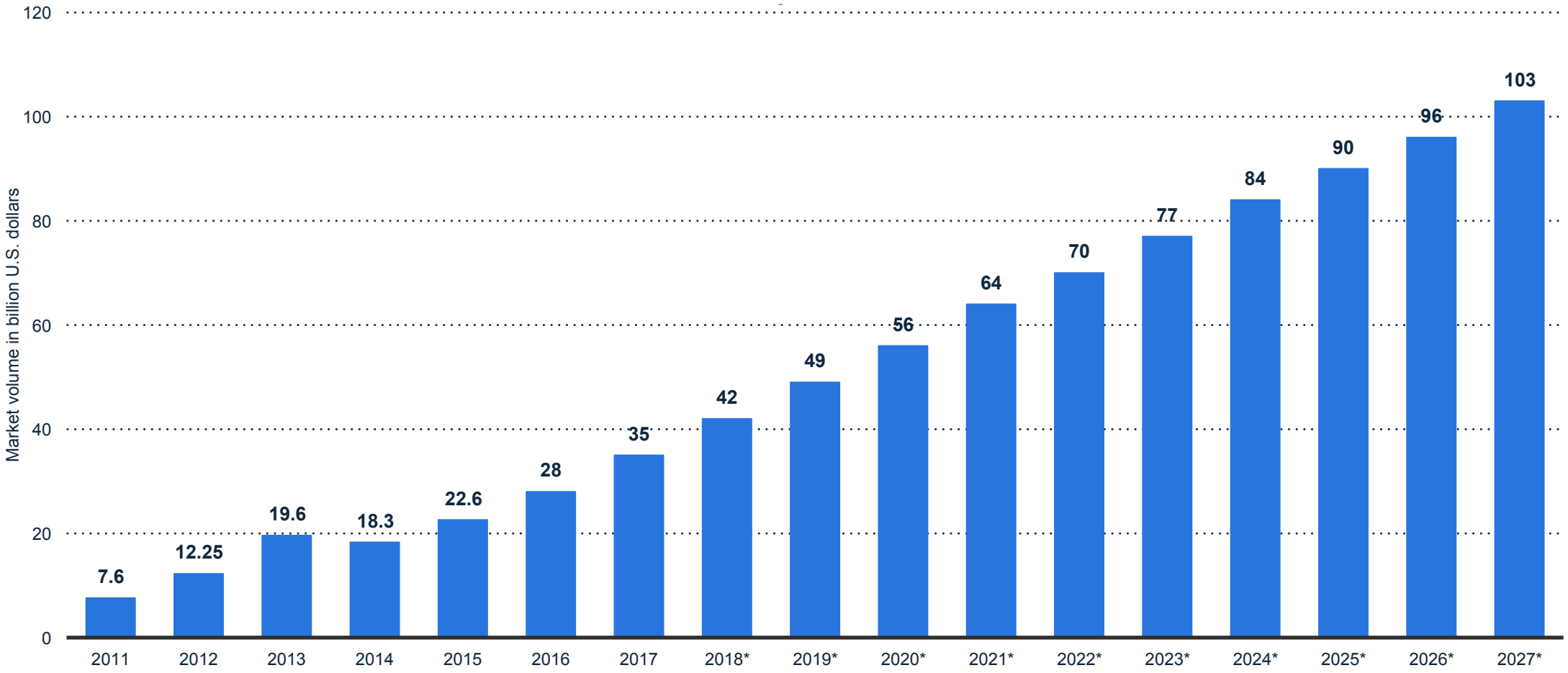
Note: Worldwide; October to November 2017; 14-55 years; 21,000; online consumers
Further information regarding this statistic can be found on page 96.
Source(s): Accenture; Harris Interactive; ID 800902

BIG DATA

Artificial Intelligence (AI)

Big data market size revenue forecast worldwide from 2011 to 2027 (in billion U.S. dollars)

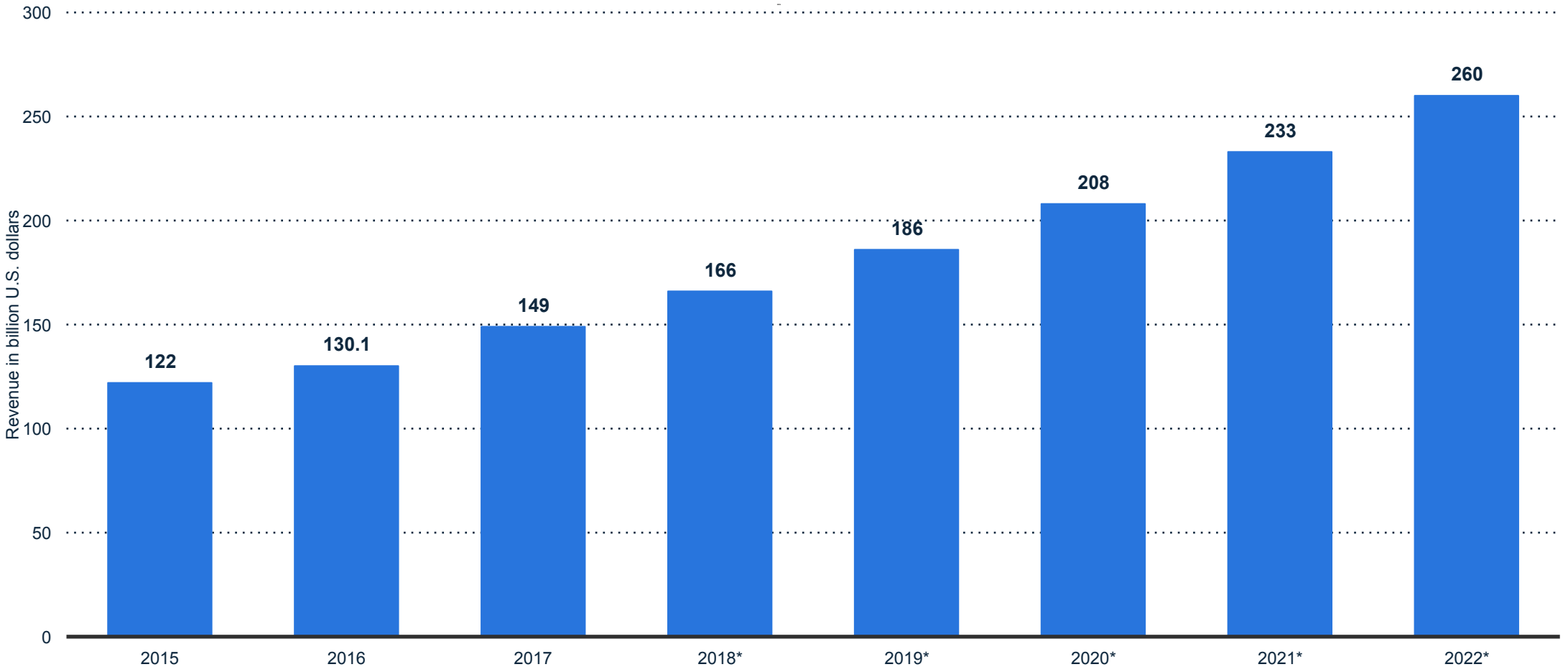
Forecast revenue big data market worldwide 2011-2027



Note: Worldwide; 2014 to 2018
Further information regarding this statistic can be found on page 97.
Source(s): Wikibon; SiliconANGLE; ID 254266

Revenue from big data and business analytics worldwide from 2015 to 2022 (in billion U.S. dollars)

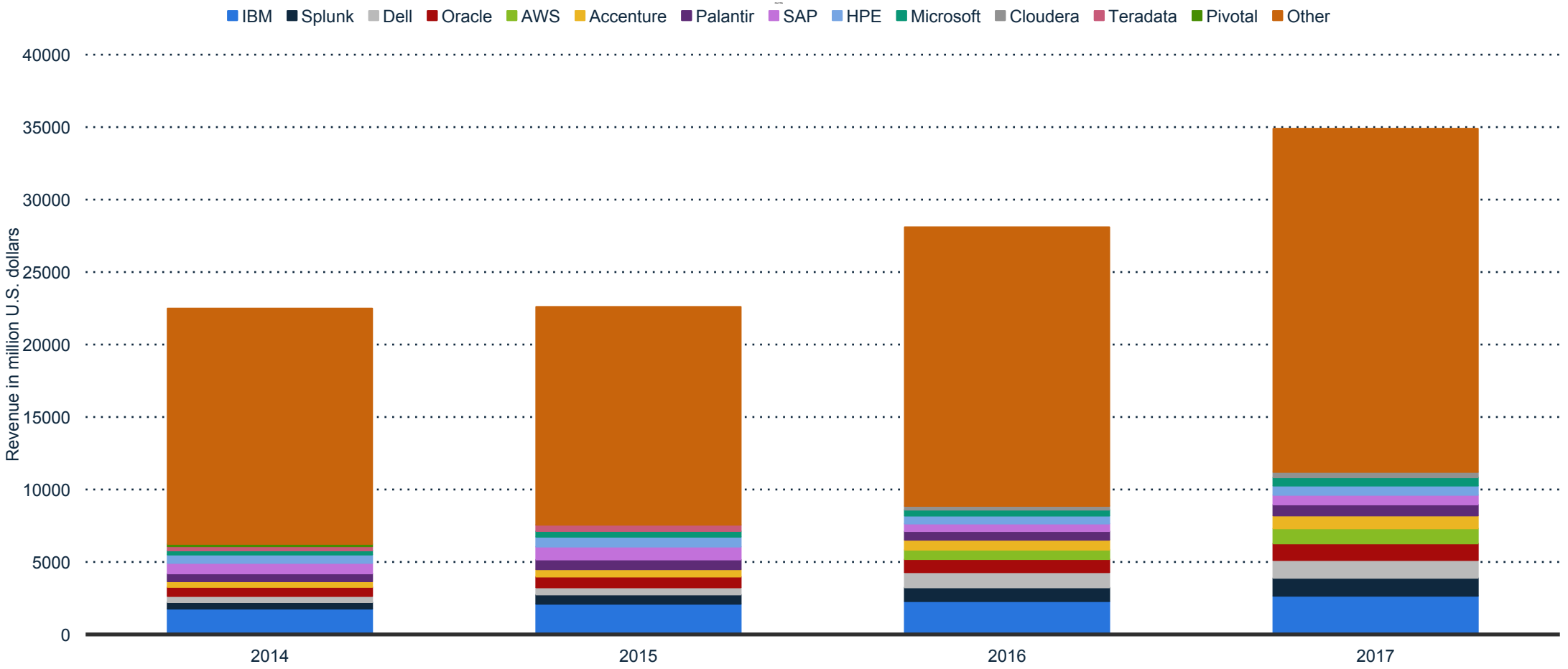
Big data and business analytics revenue worldwide 2015-2022



Note: Worldwide; 2015 to 2018
Further information regarding this statistic can be found on page 98.
Source(s): IDC; ID 551501

Revenue from the big data market worldwide from 2014 to 2017, by vendor (in million U.S. dollars)

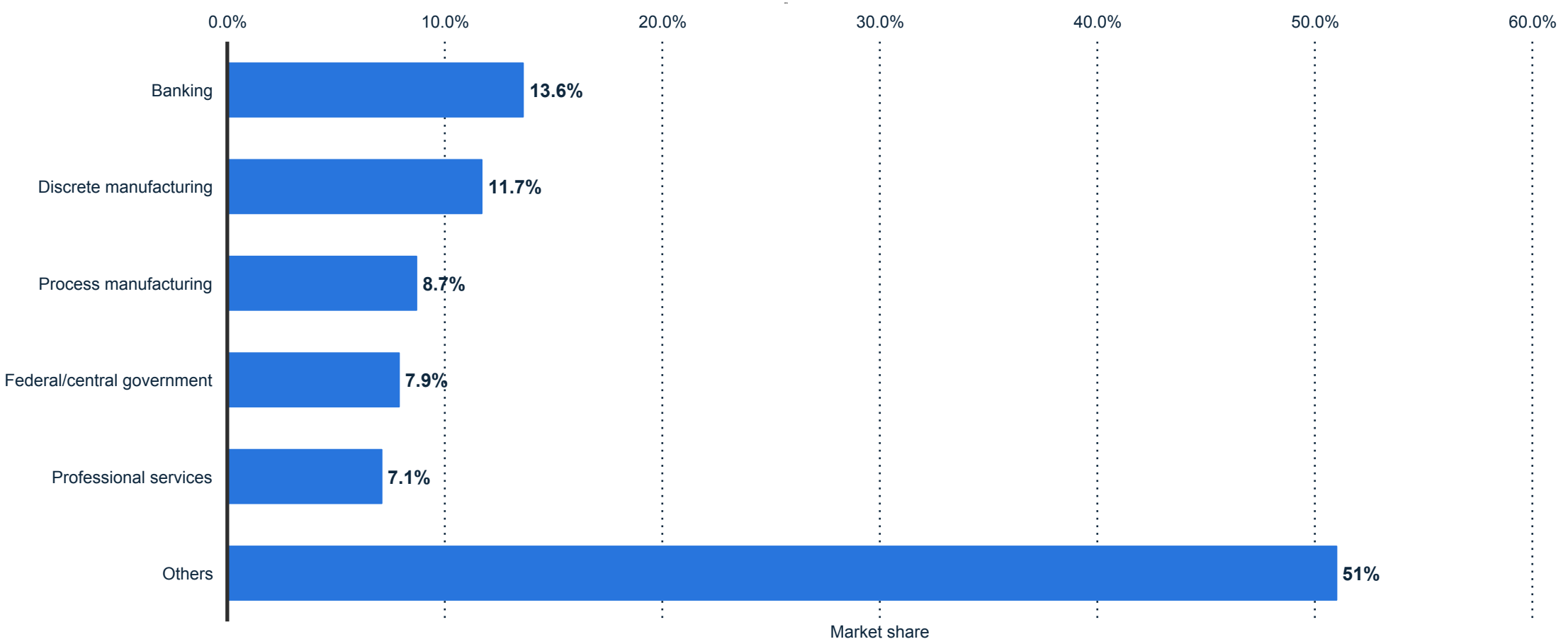
Leading big data vendors in 2014-2017, by revenue



Note: Worldwide; 2014 to 2017
Further information regarding this statistic can be found on page 99.
Source(s): Wikibon; ID 254271

Share of big data and business analytics revenues worldwide in 2018, by industry*

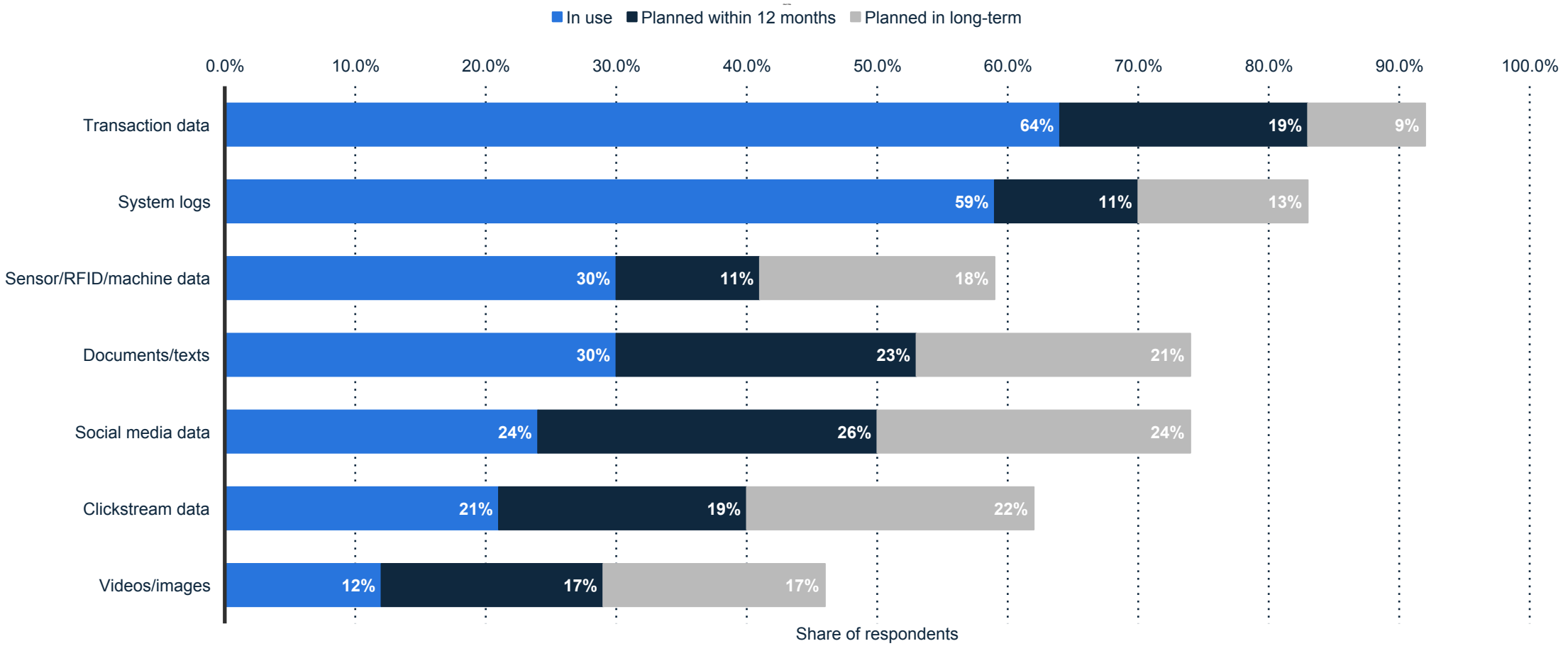
Big data and business analytics market distribution worldwide 2018, by industry



Note: Worldwide; 2018
Further information regarding this statistic can be found on page 100.
Source(s): IDC; ID 616225

Types/sources of big data used by industry professionals worldwide in 2016

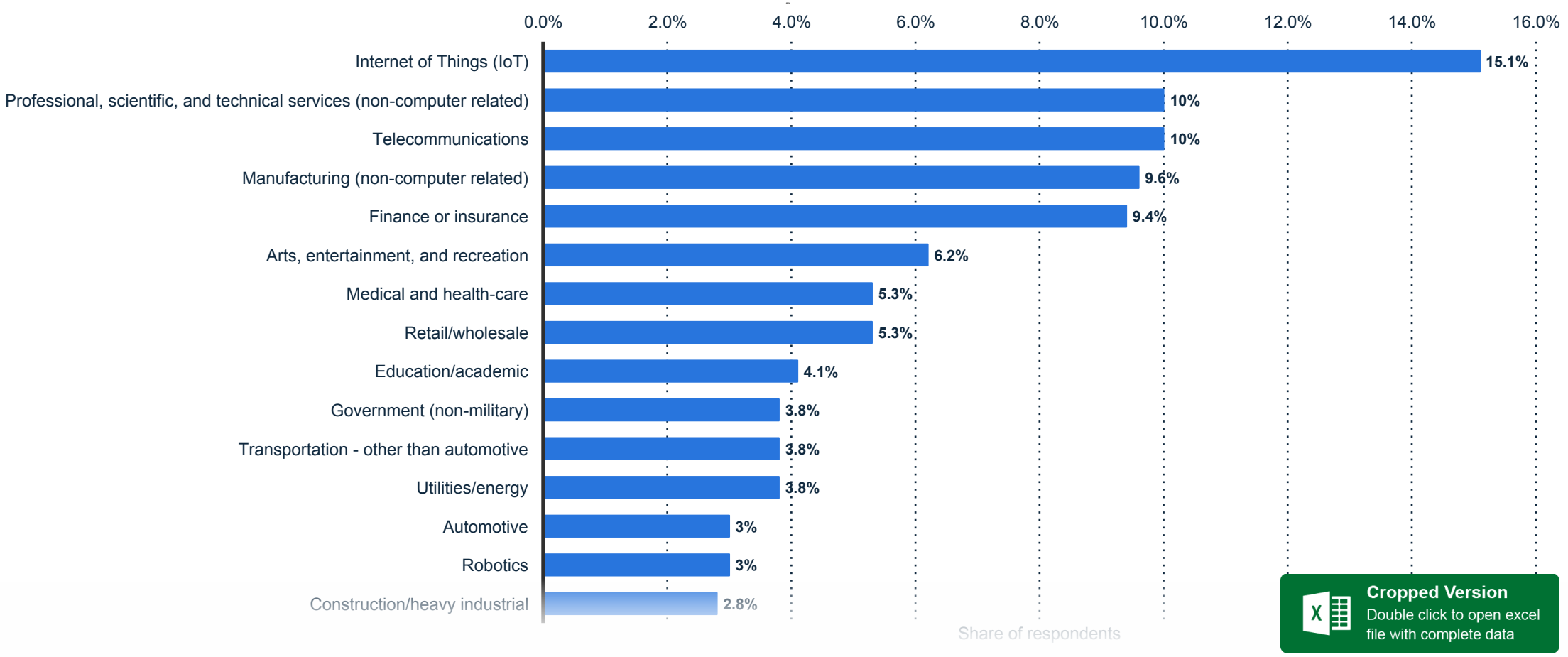
Sources of big data most often used globally 2016



Note: Worldwide; summer 2016; 208 Respondents; Big data professionals
Further information regarding this statistic can be found on page 101.
Source(s): BARC; ID 255613

Industries targeted by big data analytics application developers, as of 2016

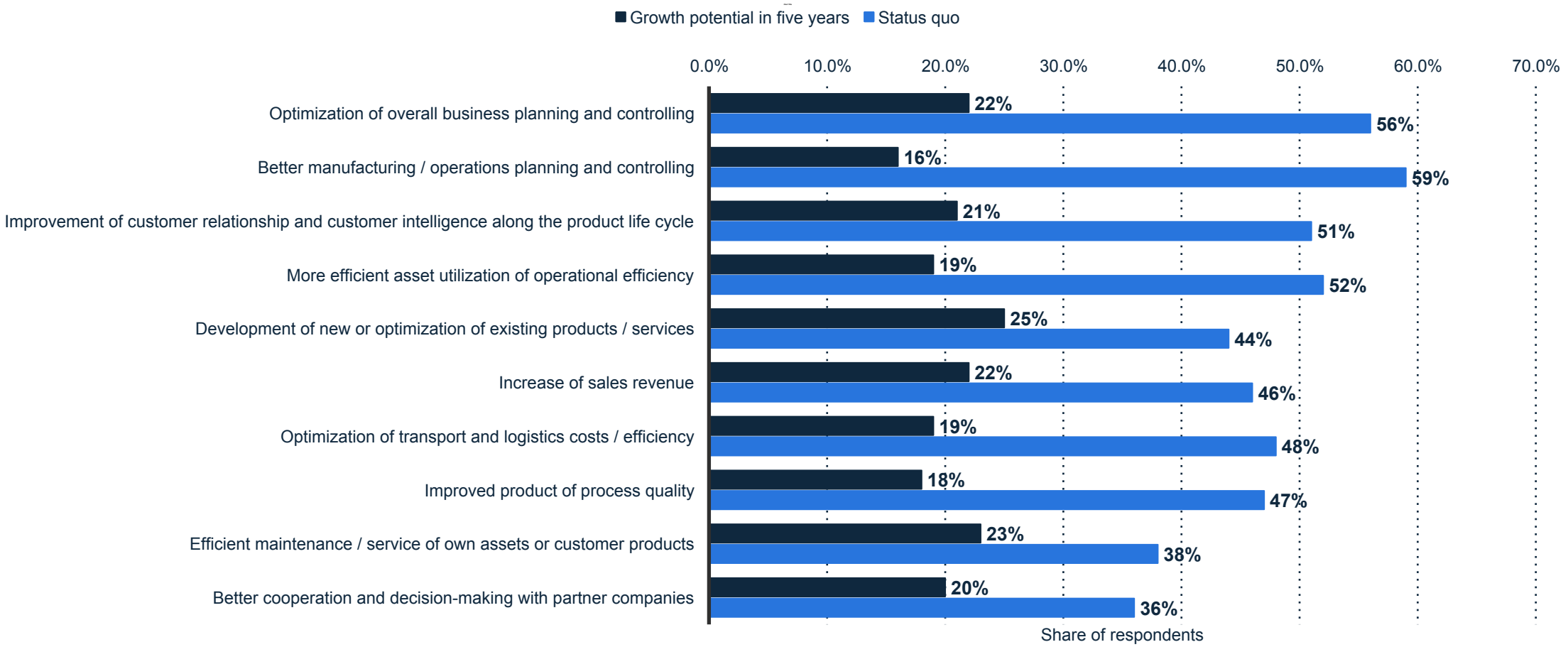
Sectors attracting big data analytics interest 2016



Note: Worldwide; first half 2016; 1,441; developers actively creating new applications with the latest technologies
Further information regarding this statistic can be found on page 102.
Source(s): Forbes; ID 602764

In which areas are you using big data analytics today? In which additional areas will your company use data analytics in five years?

Industry 4.0 current and future use of data analytics, by business area, as of 2016



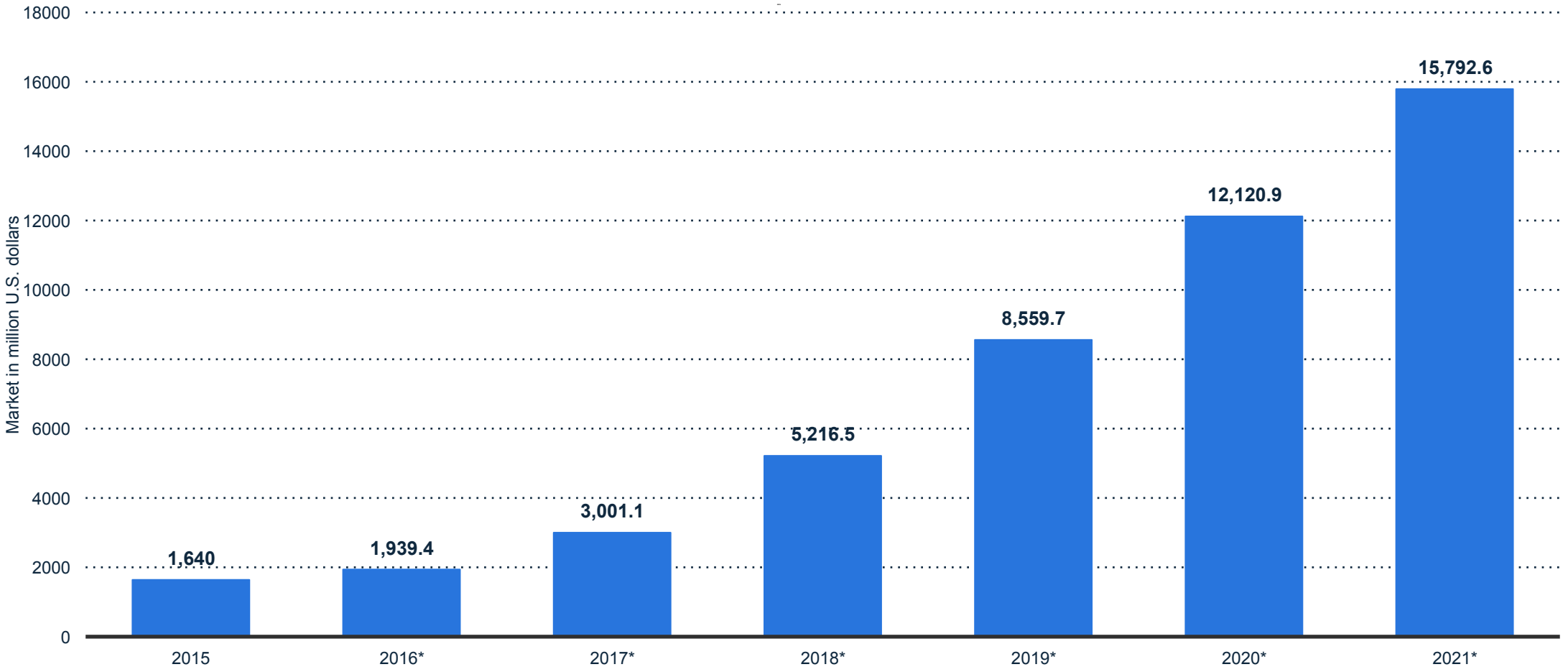
Note: Worldwide; November 2015 to January 2016; 2,000+
Further information regarding this statistic can be found on page 103.
Source(s): PwC; ID 549712

VIRTUAL DIGITAL ASSISTANTS

Artificial Intelligence (AI)

Size of the virtual digital assistant (VDA) market worldwide from 2015 to 2021 (in million U.S. dollars)

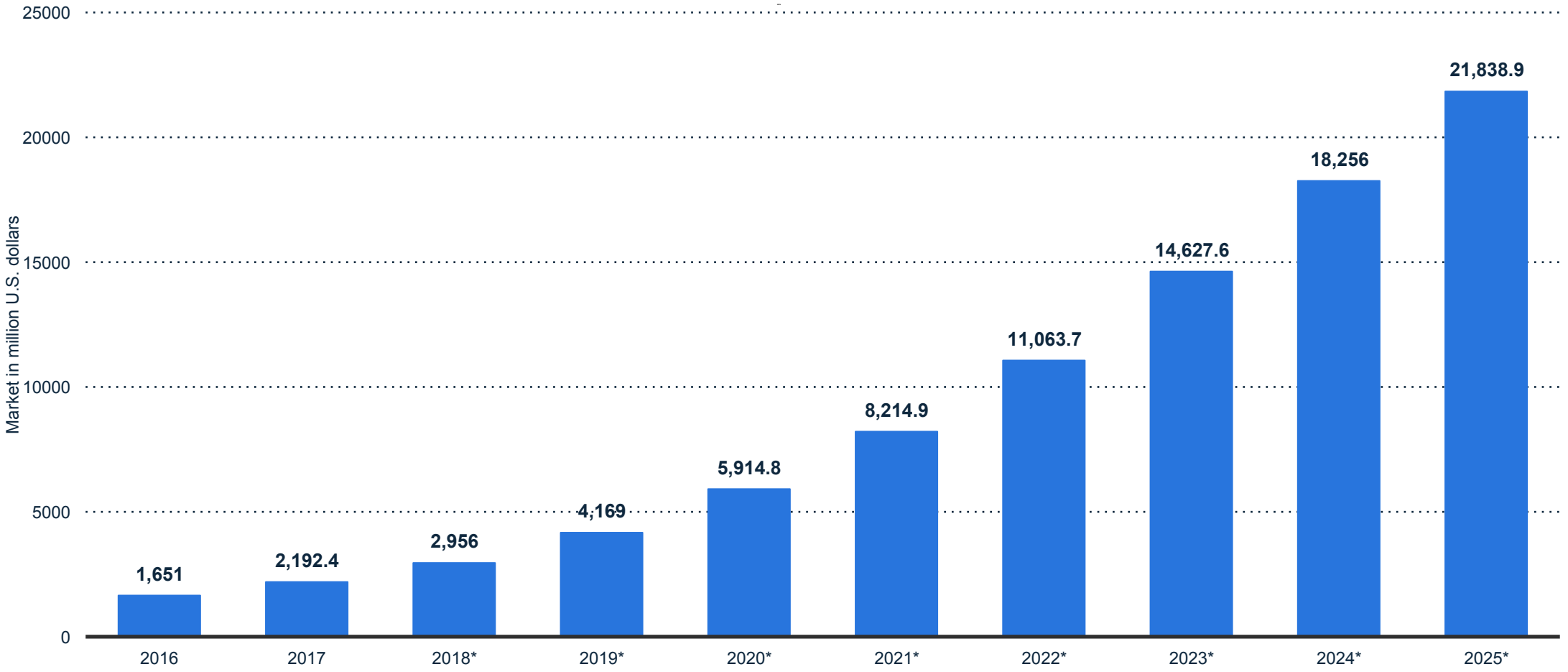
Virtual digital assistant market size worldwide 2015-2021



Note: Worldwide; 2015 to 3rd quarter 2016
Further information regarding this statistic can be found on page 104.
Source(s): Tractica; ID 589079

Size of the enterprise virtual digital assistant (VDA) market worldwide from 2016 to 2025 (in million U.S. dollars)

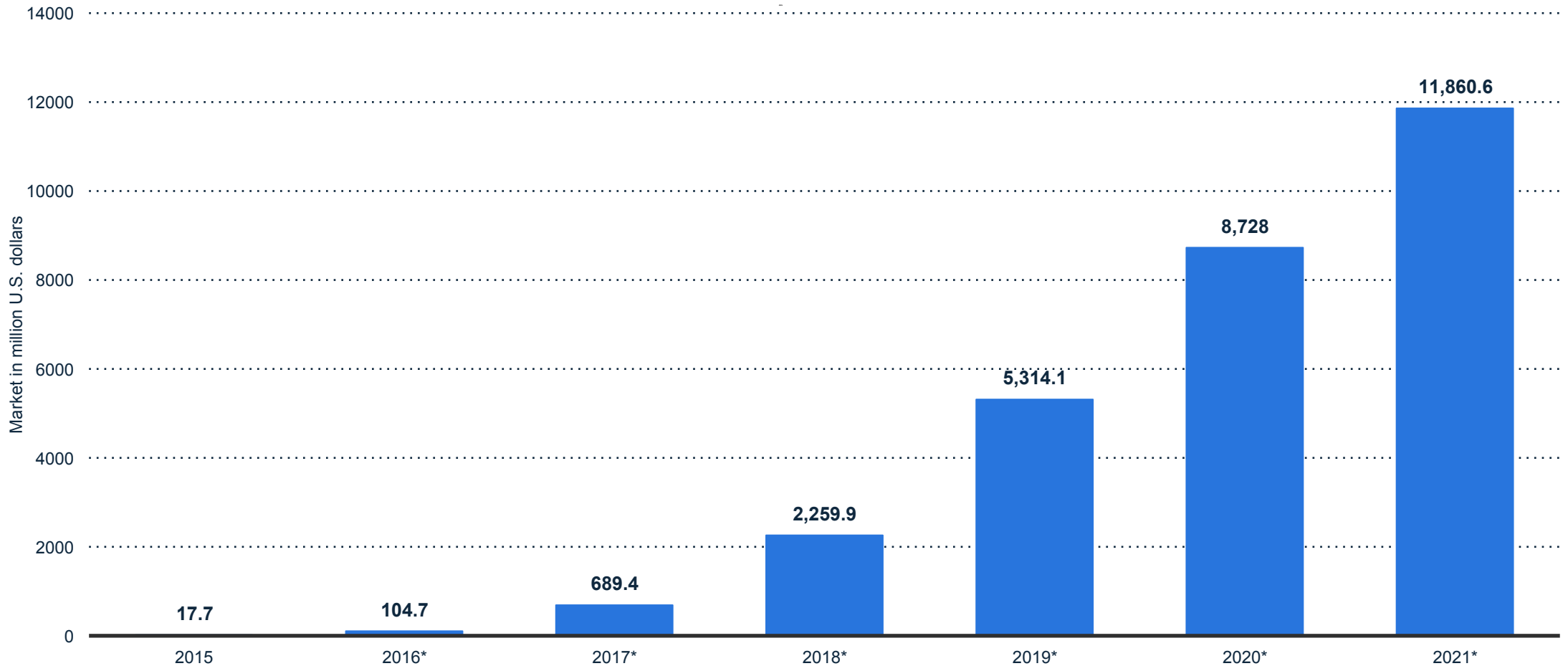
Enterprise virtual digital assistant (VDA) market size worldwide 2016-2025



Note: Worldwide; 2016 to 4th quarter 2017
Further information regarding this statistic can be found on page 105.
Source(s): Tractica; ID 589068

Size of the consumer virtual digital assistant (VDA) market worldwide from 2015 to 2021 (in million U.S. dollars)

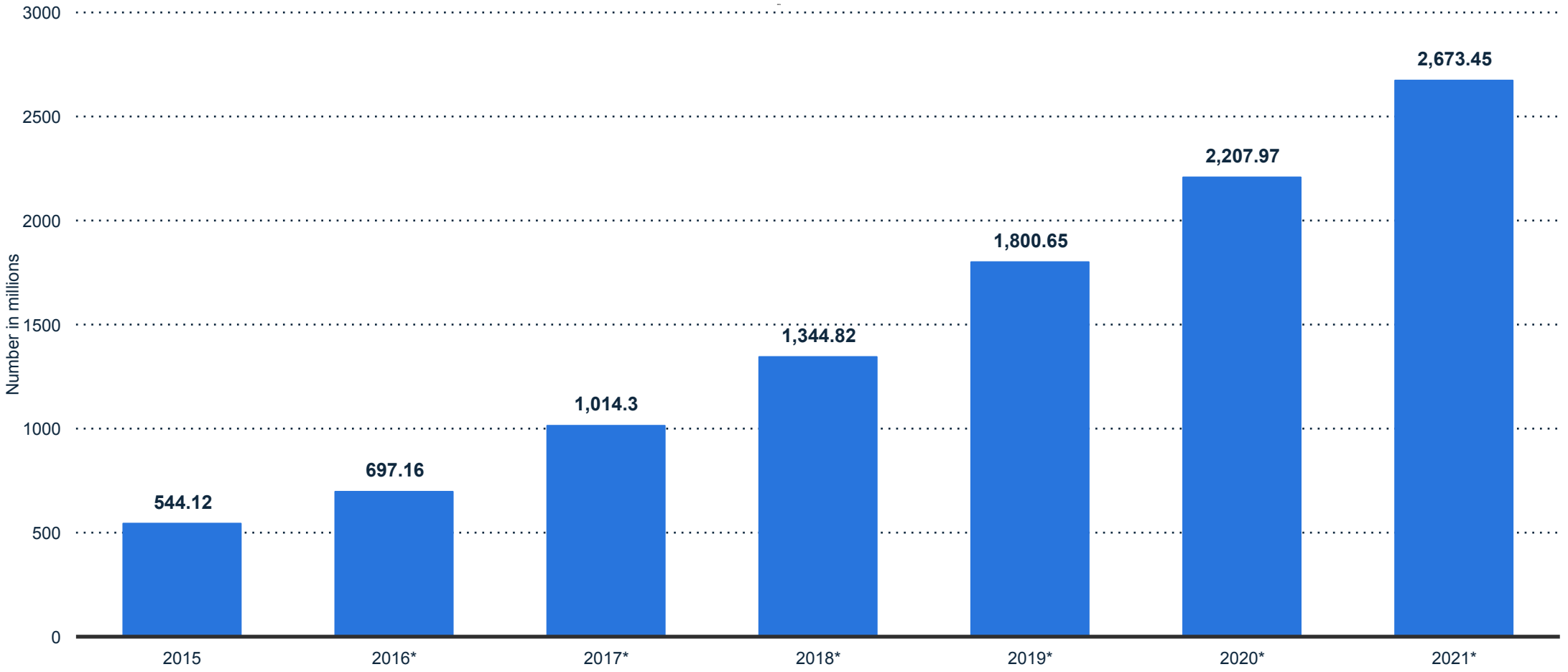
Consumer virtual digital assistant market size worldwide 2015-2021



Note: Worldwide; 2015 to 3rd quarter 2016
Further information regarding this statistic can be found on page 106.
Source(s): Tractica; ID 589077

Number of unique active virtual digital assistants (VDA) users worldwide, from 2015 to 2021 (in millions)

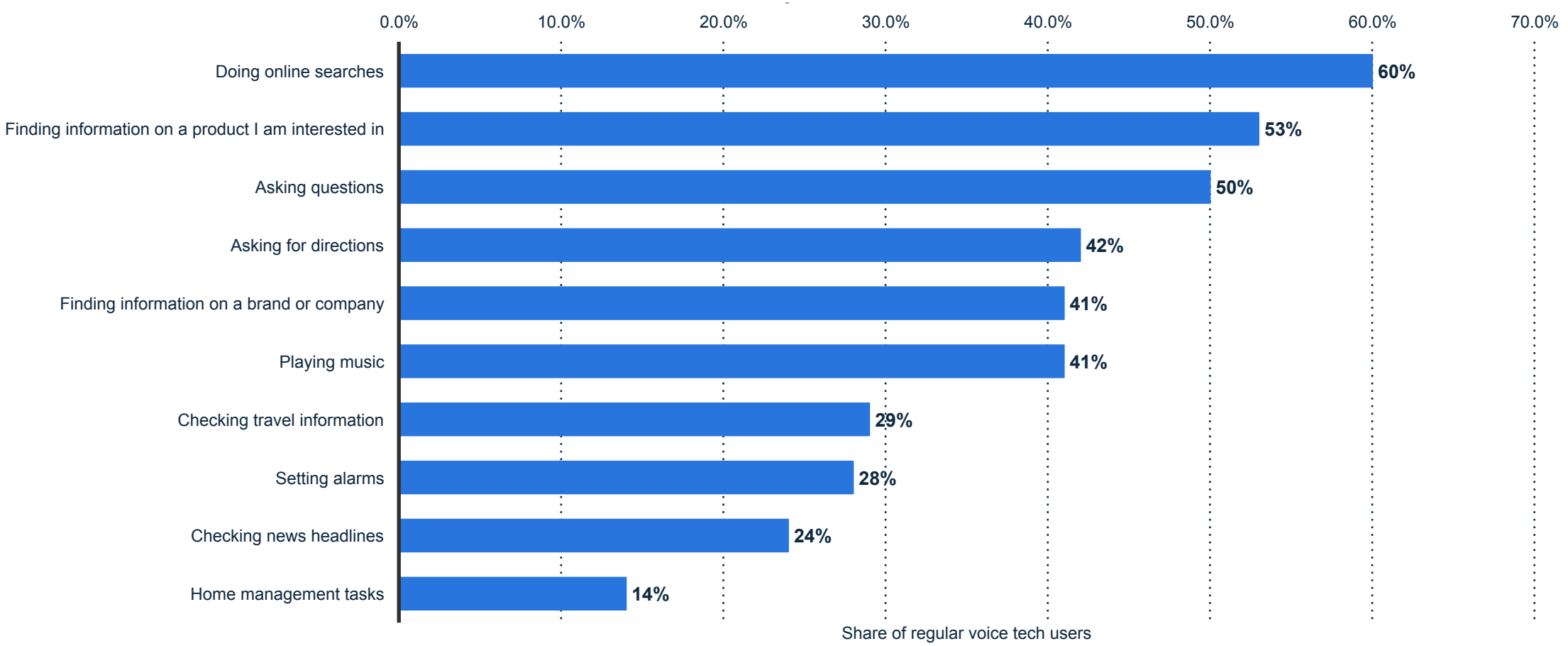
Unique active virtual digital assistants users worldwide 2015-2021



Note: Worldwide; 2015 to 3rd quarter 2016
Further information regarding this statistic can be found on page 107.
Source(s): Tractica; ID 589071

Most common tasks carried out using voice according to global voice tech users as of 2017

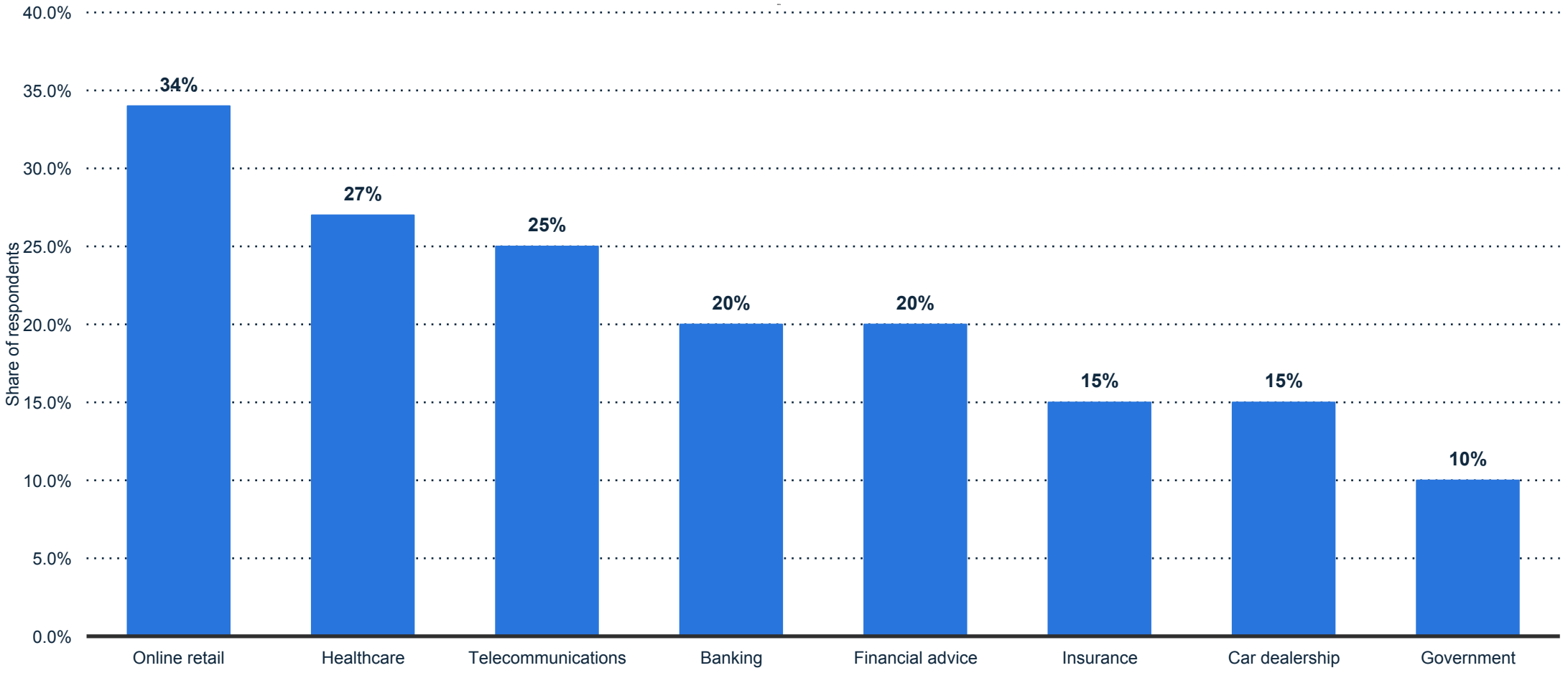
Leading tasks carried out by virtual assistants worldwide 2017



Note: Worldwide; January 2017 to June 2017; 18 years and older; 6,780
Further information regarding this statistic can be found on page 108.
Source(s): Kantar; JWT; ID 791636

Acceptance of artificial intelligence chatbots by customers worldwide, as of 2017, by service

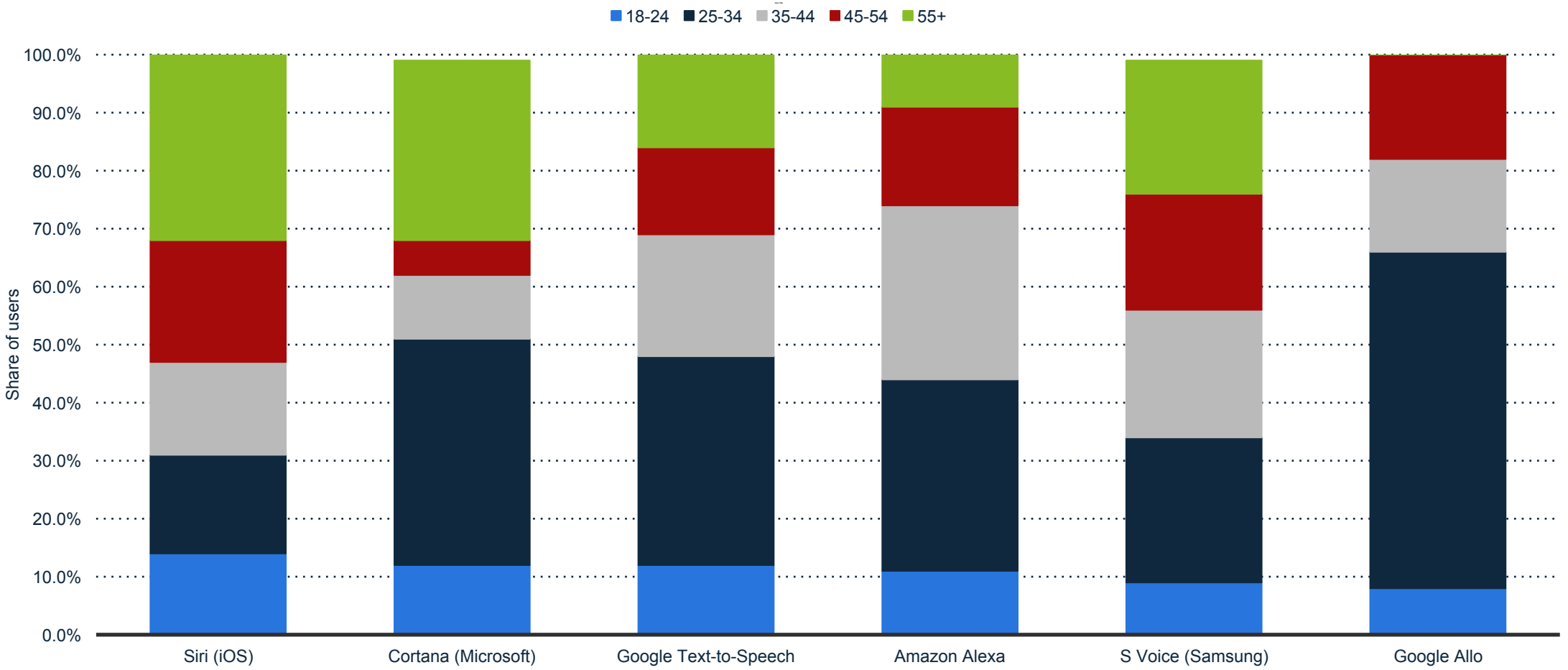
Customer comfort with AI chatbot service worldwide 2017, by service



Note: Worldwide; 2017; 18 years and older; 6000 Respondents
Further information regarding this statistic can be found on page 109.
Source(s): Pega; ID 717098

User demographics of leading virtual digital assistants (VDAs) in the United States, as of December 2016, by age group

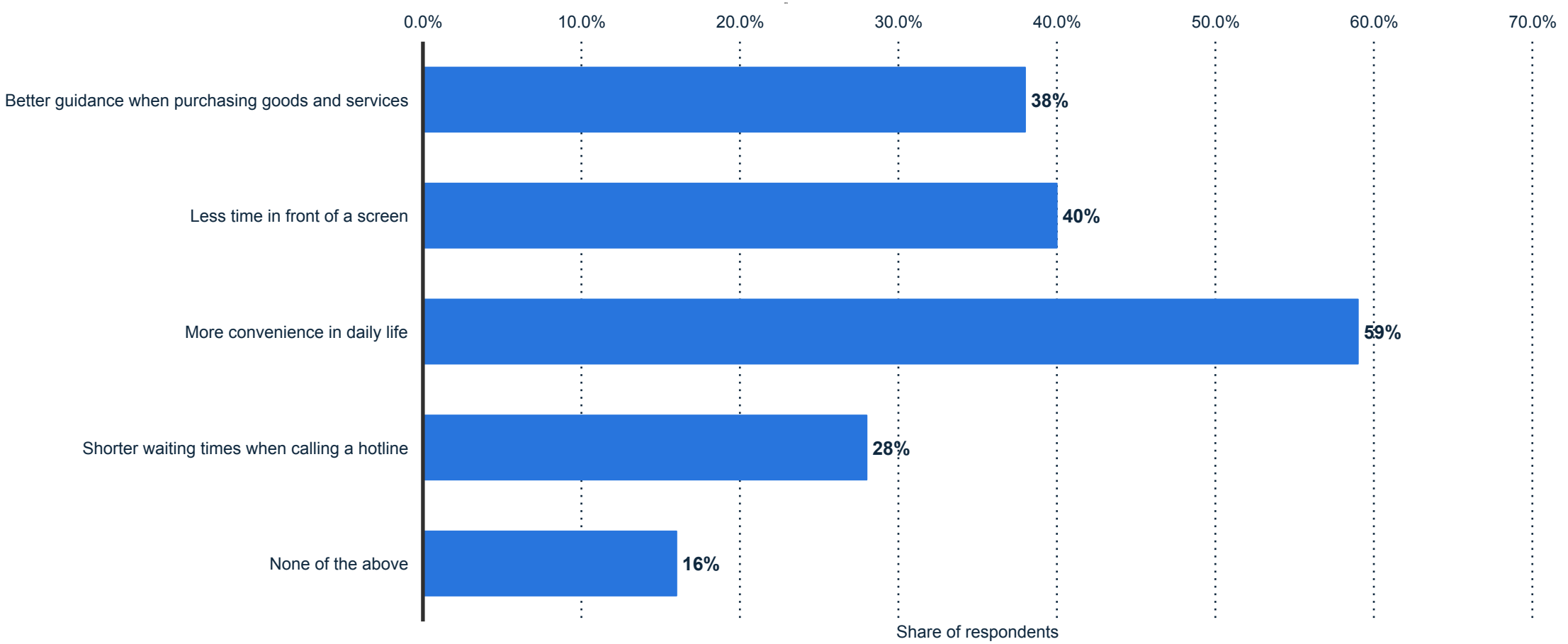
User demographics of personal assistant apps U.S. 2016, by age range



Note: United States; 2016; 18 years and older
Further information regarding this statistic can be found on page 110.
Source(s): Verto Analytics; ID 685095

In your opinion, what are benefits of the increasing popularity of virtual assistants?

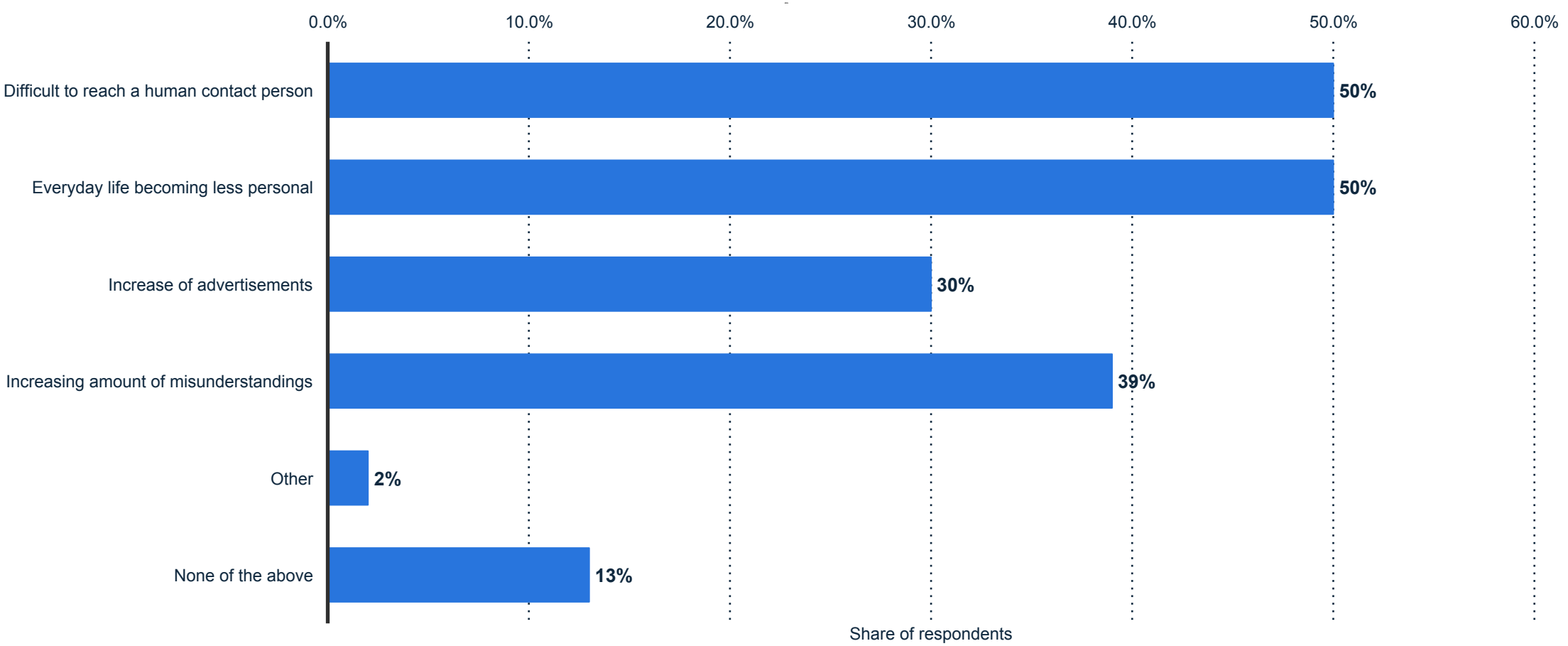
Opinion of the benefits of virtual assistants among U.S. residents 2017



Note: United States; April 11 to 22, 2017; 18-65 years; 1040 Respondents; U.S. residents
Further information regarding this statistic can be found on page 111.
Source(s): Statista Survey; ID 702942

In your opinion, what are dangers of the increasing popularity of virtual assistants?

Opinion on the danger of virtual assistants among U.S. residents 2017



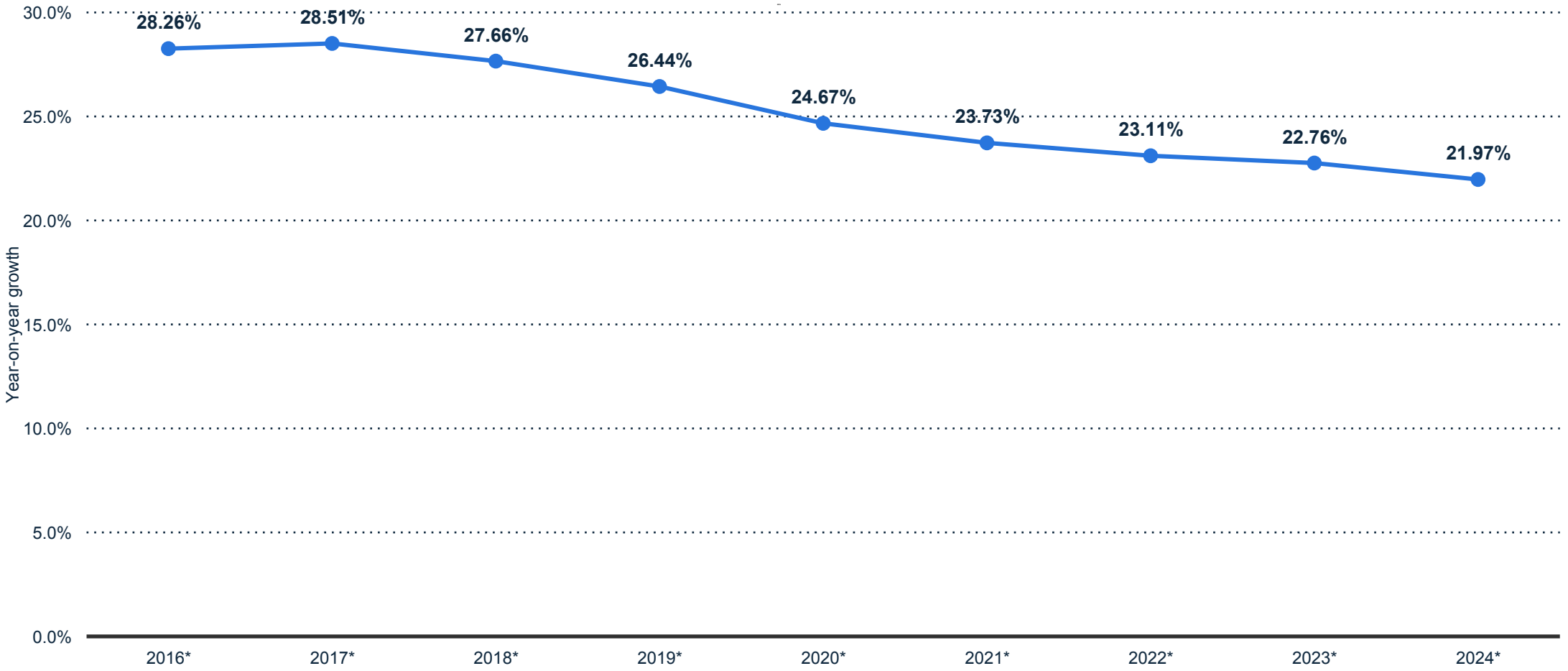
Note: United States; April 11 to 22, 2017; 18-65 years; 1040 Respondents; U.S. residents
Further information regarding this statistic can be found on page 112.
Source(s): Statista Survey; ID 702947

LANGUAGE PROCESSING & VOICE RECOGNITION

Artificial Intelligence (AI)

Growth of the natural language processing (NLP) market worldwide, from 2016 to 2024

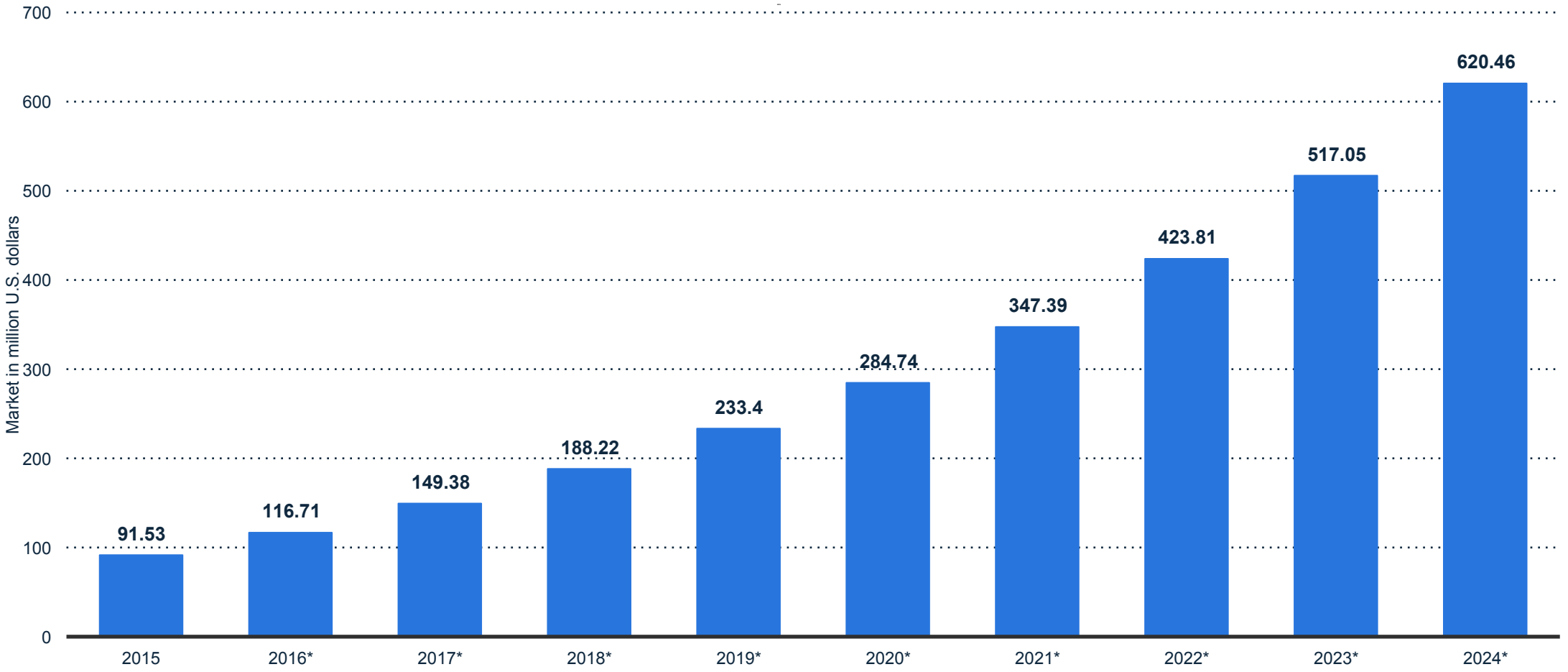
Natural language processing market growth worldwide 2016-2024



Note: Worldwide; 2015 to 2016
Further information regarding this statistic can be found on page 113.
Source(s): Tractica; ID 607946

Revenues from the natural language processing (NLP) market in North America, from 2015 to 2024 (in million U.S. dollars)

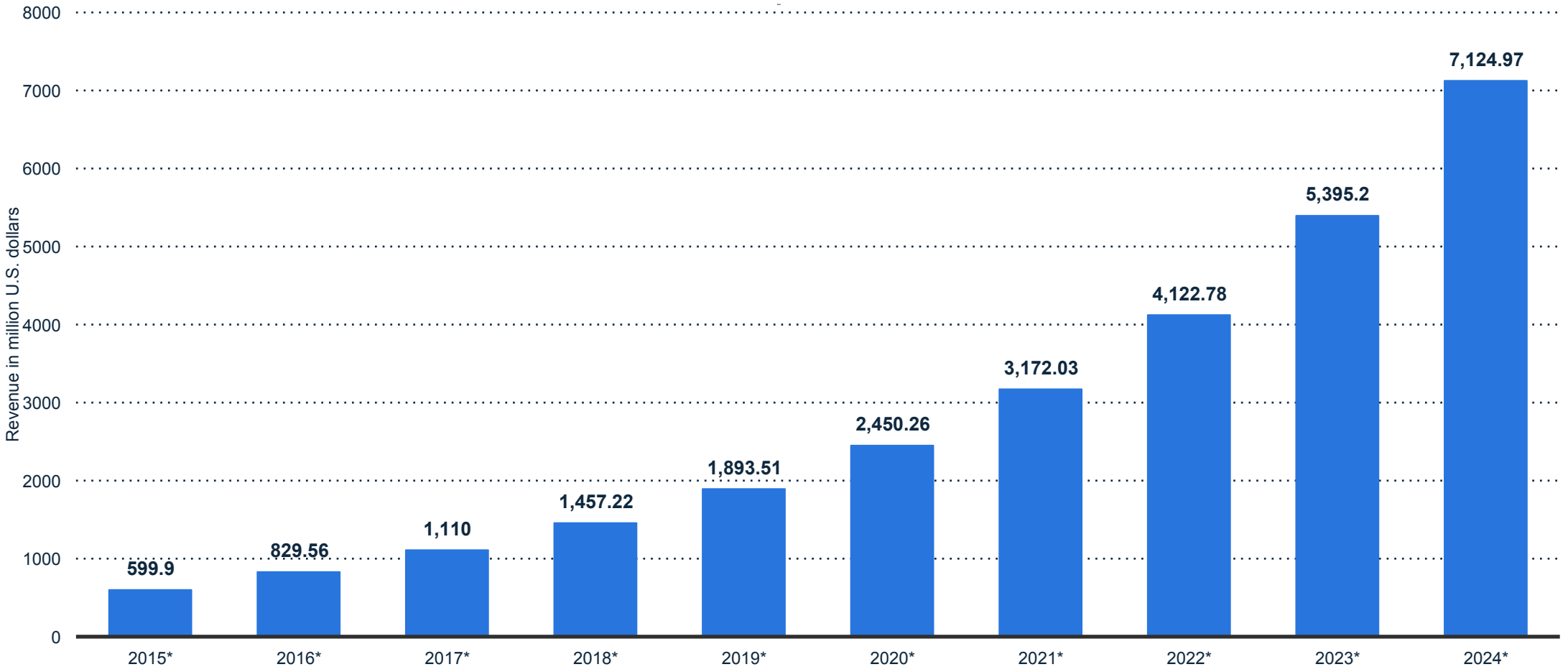
Natural language processing market revenue in North America 2015-2024



Note: North America, Canada, United States; 2015 to 2016
Further information regarding this statistic can be found on page 114.
Source(s): Tractica; ID 607909

Size of the voice and speech recognition technology market worldwide, from 2015 to 2024 (in million U.S. dollars)

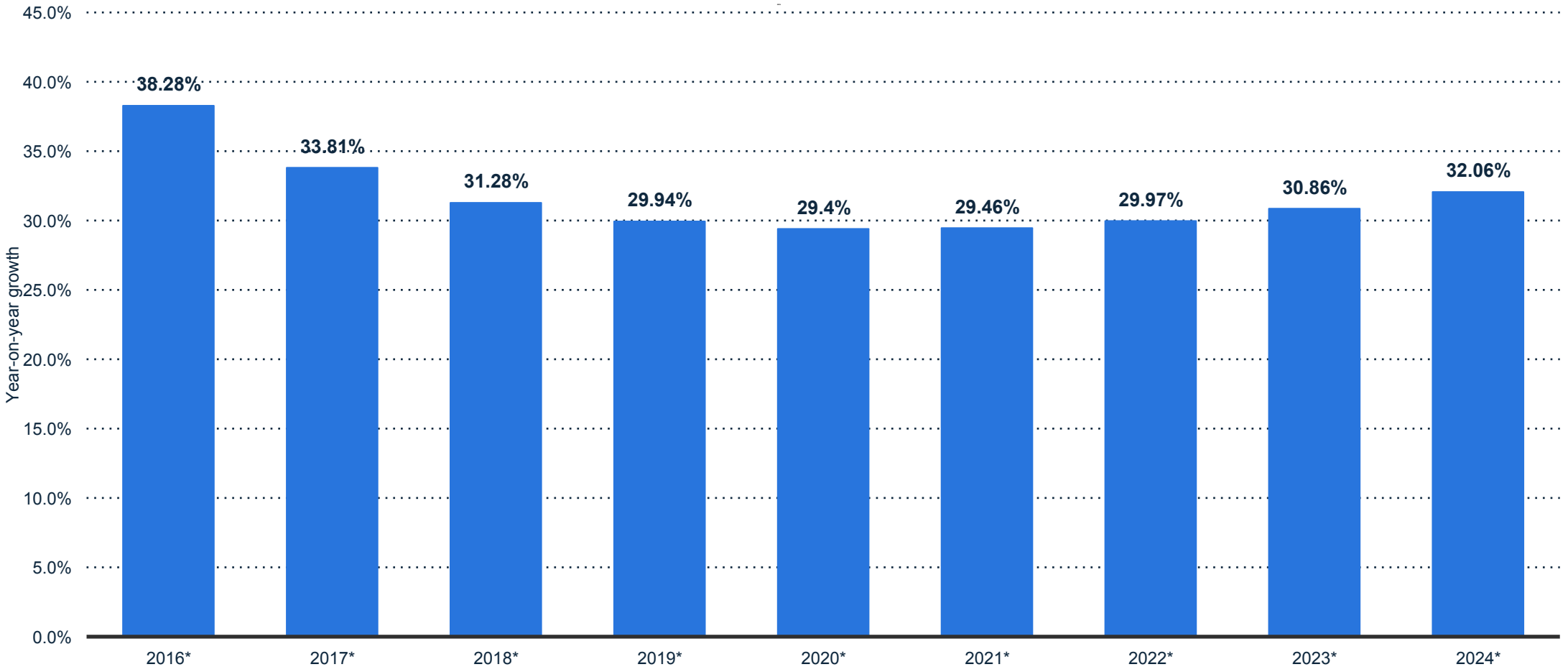
Voice and speech recognition technology revenue worldwide 2015-2024



Note: Worldwide; 2015
Further information regarding this statistic can be found on page 115.
Source(s): Tractica; ID 608523

Growth of the voice and speech recognition technology market worldwide, from 2016 to 2024

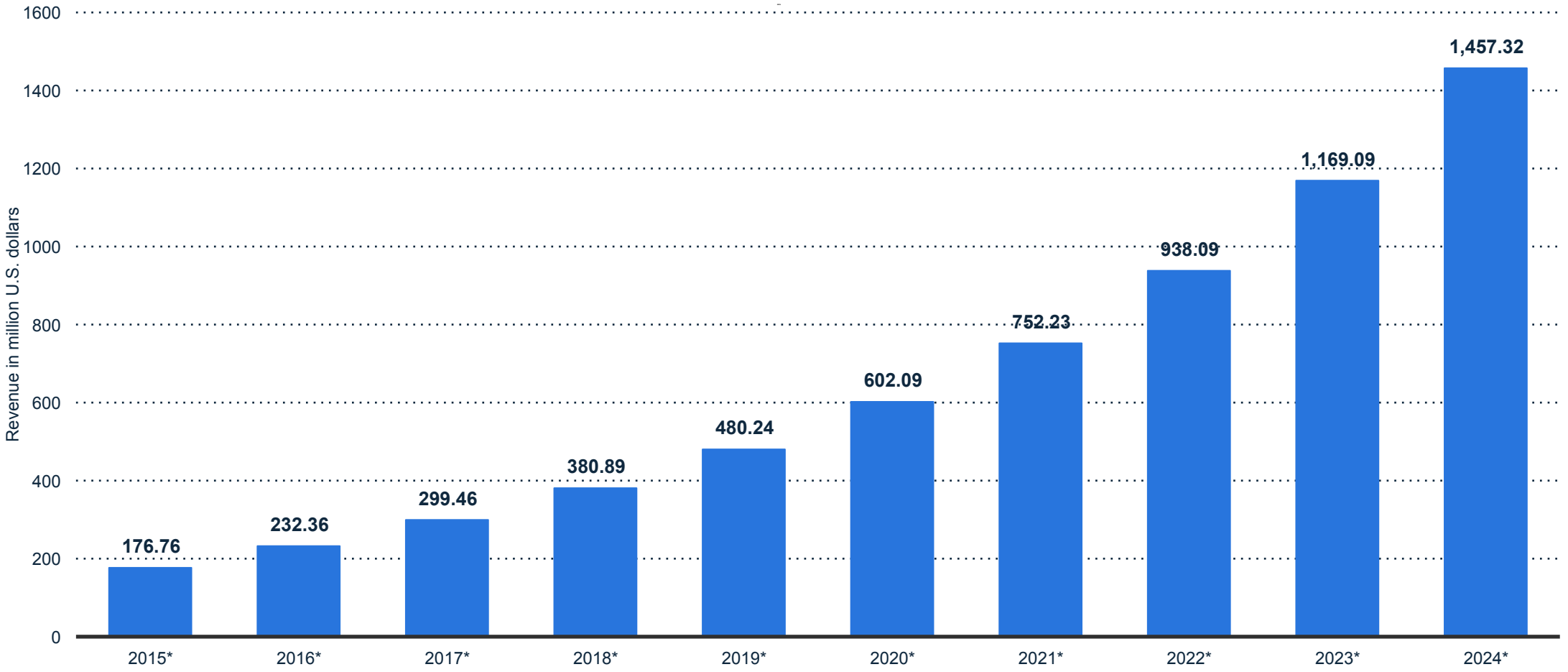
Voice and speech recognition technology revenue worldwide growth 2016-2024



Note: Worldwide; 2015
Further information regarding this statistic can be found on page 116.
Source(s): Tractica; ID 608549

Size of the voice and speech recognition technology market in North America, from 2015 to 2024 (in million U.S. dollars)

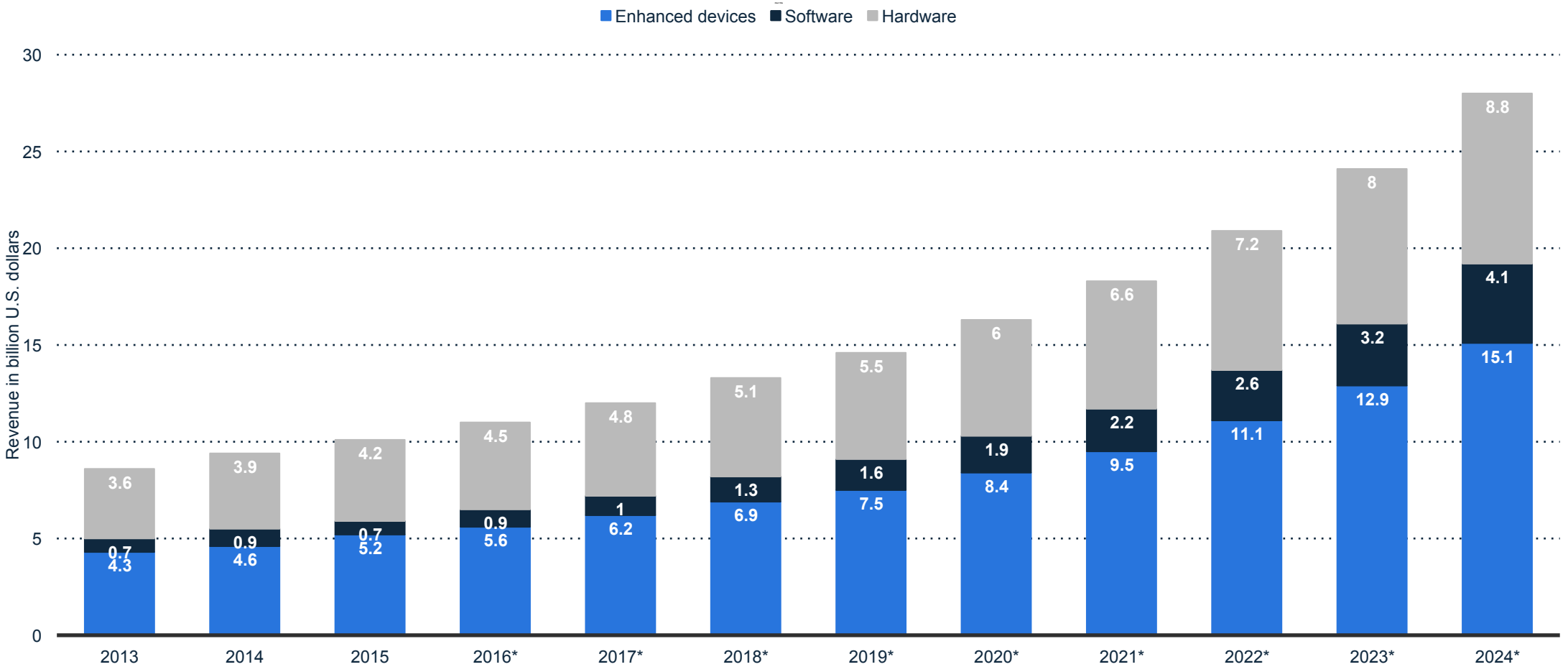
Voice and speech recognition technology revenue in North America 2015-2024



Note: North America, Canada, United States; 2015
Further information regarding this statistic can be found on page 117.
Source(s): Tractica; ID 608582

Size of the voice recognition market in the Asia-Pacific region, from 2013 to 2024, by segment (in million U.S. dollars)

Voice recognition revenue in Asia Pacific 2013-2024, by segment



Note: APAC; 2013 to 2016
Further information regarding this statistic can be found on page 118.
Source(s): Statista estimates; Grand View Research; ID 620884

REFERENCES

Artificial Intelligence (AI)

Revenues from the artificial intelligence (AI) market worldwide from 2016 to 2025 (in million U.S. dollars)

Artificial intelligence market revenue worldwide 2016-2025

Source and methodology information

Source(s)	Tractica
Conducted by	Tractica
Survey period	2016 to 2017
Region(s)	Worldwide
Number of respondents	*n.a.*
Age group	*n.a.*
Special characteristics	*n.a.*
Published by	Tractica
Publication date	June 2018
Original source	Artificial Intelligence Market Forecasts
Website URL	visit the website

Notes:

* Forecast

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References

Revenues from the artificial intelligence (AI) market worldwide from 2015 to 2024 (in billion U.S. dollars)

Artificial intelligence market revenue worldwide 2015-2024

Source and methodology information

Source(s)	Transparency Market Research
Conducted by	Transparency Market Research; Statista estimates
Survey period	2015 to 2016
Region(s)	Worldwide
Number of respondents	*n.a.*
Age group	*n.a.*
Special characteristics	*n.a.*
Published by	Transparency Market Research
Publication date	September 2017
Original source	transparencymarketresearch.com
Website URL	visit the website

Notes:

* Forecast. Figures from 2016 to 2023 were calculated using the constant annual growth rate (CAGR) between 2016 and 2024, as published by the source, of 36.1 percent.

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Growth of the artificial intelligence (AI) market worldwide from 2017 to 2025

Artificial intelligence market growth worldwide 2017-2025

Source and methodology information

Source(s)	Tractica
Conducted by	Tractica
Survey period	2016 to 2017
Region(s)	Worldwide
Number of respondents	*n.a.*
Age group	*n.a.*
Special characteristics	*n.a.*
Published by	Tractica
Publication date	June 2018
Original source	Artificial Intelligence Market Forecasts
Website URL	visit the website

Notes:

* Forecast.

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References

Robotic/intelligent process automation (RPA/IPA) and artificial intelligence (AI) automation spending worldwide from 2016 to 2021, by segment (in billion U.S. dollars)

Spending on automation and AI business operations worldwide 2016-2021, by segment

Source and methodology information

Source(s)	HfS Research
Conducted by	HfS Research
Survey period	2017
Region(s)	Worldwide
Number of respondents	*n.a.*
Age group	*n.a.*
Special characteristics	*n.a.*
Published by	HfS Research
Publication date	November 2017
Original source	horsesforsources.com
Website URL	visit the website

Notes:

* forecast The source defines the three categories as follows: " RPA Definition : RPA describes a software development toolkit that allows non-engineers to quickly create software robots (known commonly as "bots") to automate rules-driven business processes... Intelligent Process Automation Definition : Intelligent Process Automation (IPA) is the use of technology to allow a business function or part of the operation of a process workflow work automatically... AI Definition : AI refers to the simulation of human thought processes across enterprise operations, where the system makes autonomous decisions, using high-level policies, constantly monitoring and optimizing its performance and automatically adapting itself to changing conditions and evolving business rules and dynamics."

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References

Cumulative revenue of top 10 use cases/segments of artificial intelligence (AI) market worldwide, between 2016 and 2025 (in million U.S. dollars)

Top 10 artificial intelligence use cases by cumulative revenue worldwide 2016-2025

Source and methodology information

Source(s)	Tractica
Conducted by	Tractica
Survey period	2016
Region(s)	Worldwide
Number of respondents	*n.a.*
Age group	*n.a.*
Special characteristics	*n.a.*
Published by	Tractica
Publication date	September 2017
Original source	Artificial Intelligence Market Forecasts
Website URL	visit the website

Notes:

* Forecast.

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Revenues from the artificial intelligence for enterprise applications market worldwide, from 2016 to 2025 (in million U.S. dollars)

Enterprise artificial intelligence market revenue worldwide 2016-2025

Source and methodology information

Source(s)	Tractica
Conducted by	Tractica
Survey period	2016
Region(s)	Worldwide
Number of respondents	*n.a.*
Age group	*n.a.*
Special characteristics	*n.a.*
Published by	Tractica
Publication date	September 2016
Original source	Artificial Intelligence for Enterprise Applications
Website URL	visit the website

Notes:

* Forecast.

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Revenues from the artificial intelligence market worldwide, from 2016 to 2025, by region (in million U.S. dollars)

Artificial intelligence market revenue worldwide 2016-2025, by region

Source and methodology information

Source(s)	Tractica
Conducted by	Tractica
Survey period	2016 to 2017
Region(s)	Worldwide
Number of respondents	*n.a.*
Age group	*n.a.*
Special characteristics	*n.a.*
Published by	Tractica
Publication date	June 2018
Original source	Artificial Intelligence Market Forecasts
Website URL	visit the website

Notes:

* Forecast

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Potential impact of artificial intelligence (AI) on real gross value added (GVA) worldwide, by country, by 2035

Potential economic impact (growth) of artificial intelligence 2035, by country

Source and methodology information

Source(s)	Accenture; Frontier Economics
Conducted by	Accenture; Frontier Economics
Survey period	2016
Region(s)	Worldwide
Number of respondents	*n.a.*
Age group	*n.a.*
Special characteristics	*n.a.*
Published by	Accenture
Publication date	September 2017
Original source	Why Artificial Intelligence is the Future of Growth, page 16
Website URL	visit the website

Notes:

According to the source, gross value added represents a close approximation of gross domestic product (GDP). The two scenarios compared represent, firstly, the baseline, which shows the expected annual economic growth rate under current assumptions about the future. The second is the AI scenario, which shows expected economic growth once the impact of AI has been absorbed into the economy. As it takes time for the impact of a new technology to feed through, we used 2035 as the year of comparison.

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Impact of artificial intelligence (AI) on real gross value added (GVA) worldwide, by select country, in 2035 (in billion U.S. dollars)

Artificial intelligence impact on real gross value added (GVA) 2035, by country

Source and methodology information

Source(s)	Accenture; Frontier Economics
Conducted by	Accenture; Frontier Economics
Survey period	2016
Region(s)	Worldwide
Number of respondents	*n.a.*
Age group	*n.a.*
Special characteristics	*n.a.*
Published by	Accenture
Publication date	September 2017
Original source	Why Artificial Intelligence is the Future of Growth, pages 19-20
Website URL	visit the website

Notes:

According to the source, gross value added represents a close approximation of gross domestic product (GDP). The two scenarios compared represent, firstly, the baseline, which shows the expected annual economic growth rate under current assumptions about the future. The second is the AI scenario, which shows expected economic growth once the impact of AI has been absorbed into the economy. As it takes time for the impact of a new technology to feed through, we used 2035 as the year of comparison.

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Size of the chatbot market worldwide, in 2016 and 2025 (in million U.S. dollars)

Chatbot market worldwide 2016 and 2025

Source and methodology information

Source(s)	Grand View Research
Conducted by	Grand View Research
Survey period	2017
Region(s)	Worldwide
Number of respondents	*n.a.*
Age group	*n.a.*
Special characteristics	*n.a.*
Published by	Grand View Research
Publication date	August 2017
Original source	grandviewresearch.com
Website URL	visit the website

Notes:

*Forecast

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Funding of artificial intelligence (AI) startup companies worldwide, from 2013 to 2017 (in million U.S. dollars)

AI startup company funding worldwide 2013-2017

Source and methodology information

Source(s)	CB Insights
Conducted by	CB Insights
Survey period	2013 to 2017
Region(s)	Worldwide
Number of respondents	*n.a.*
Age group	*n.a.*
Special characteristics	*n.a.*
Published by	Website (geospatialworld.net)
Publication date	February 2018
Original source	geospatialworld.net
Website URL	visit the website

Notes:

n.a.

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References

Share of companies investing in artificial intelligence (AI) worldwide, by industry, as of 2016

Global share of artificial intelligence investment by industry 2016

Source and methodology information

Source(s)	TechEmergence
Conducted by	Spiderbook
Survey period	2016
Region(s)	Worldwide
Number of respondents	*n.a.*
Age group	*n.a.*
Special characteristics	*n.a.*
Published by	TechEmergence
Publication date	September 2016
Original source	techemergence.com
Website URL	visit the website

Notes:

n.a.

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References

Total funding of startup companies working in the artificial intelligence (AI) market worldwide, as of March 2016, by category (in billion U.S. dollars)

Artificial intelligence-focused startup company funding worldwide 2016, by category

Source and methodology information

Source(s)	Statista estimates; Medium
Conducted by	Statista estimates; Venture Scanner
Survey period	2006 to 2016
Region(s)	Worldwide
Number of respondents	*n.a.*
Age group	*n.a.*
Special characteristics	*n.a.*
Published by	Statista
Publication date	October 2016
Original source	*n.a.*
Website URL	visit the website

Notes:

n.a.

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References

Number of startup companies working in the artificial intelligence (AI) market worldwide, as of March 2016, by category

Artificial intelligence-focused startup company count worldwide 2016, by category

Source and methodology information

Source(s)	Statista estimates; Medium
Conducted by	Statista estimates; Medium; Venture Scanner
Survey period	2016
Region(s)	Worldwide
Number of respondents	*n.a.*
Age group	*n.a.*
Special characteristics	*n.a.*
Published by	Statista
Publication date	October 2016
Original source	*n.a.*
Website URL	visit the website

Notes:

n.a.

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References

Ranking of most well-funded artificial intelligence (AI) startups between 2010 and 2016 (in million U.S. dollars)

Ranking of most well-funded AI startup companies worldwide 2010-2016

Source and methodology information

Source(s)	CB Insights
Conducted by	CB Insights
Survey period	2010 to June 15, 2016
Region(s)	Worldwide
Number of respondents	*n.a.*
Age group	*n.a.*
Special characteristics	*n.a.*
Published by	CB Insights
Publication date	June 2016
Original source	cbinsights.com
Website URL	visit the website

Notes:

n.a.

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References

Average funding of artificial intelligence (AI) startup companies worldwide, as of March 2016, by category (in million U.S. dollars)

Average AI-focused startup company funding worldwide 2016, by category

Source and methodology information

Source(s)	Statista estimates; Medium
Conducted by	Statista estimates; Venture Scanner
Survey period	2016
Region(s)	Worldwide
Number of respondents	*n.a.*
Age group	*n.a.*
Special characteristics	*n.a.*
Published by	Statista
Publication date	October 2016
Original source	*n.a.*
Website URL	visit the website

Notes:

n.a.

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References

Global spending on robotics and drones in 2018 and 2022 (in billion U.S. dollars)

Spending forecast - global market for robotics and drones 2018/2022

Source and methodology information

Source(s)	IDC; Website
Conducted by	IDC
Survey period	as of July 2018
Region(s)	Worldwide
Number of respondents	*n.a.*
Age group	*n.a.*
Special characteristics	*n.a.*
Published by	Website (newsbytes.ph)
Publication date	July 2018
Original source	newsbytes.ph
Website URL	visit the website

Notes:

The values have been rounded. The figures are projections.

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Worldwide sales of industrial robots from 2004 to 2017 (in 1,000 units)

Industrial robots - worldwide sales 2004-2017

Source and methodology information

Source(s)	IFR
Conducted by	IFR
Survey period	2004 to 2017
Region(s)	Worldwide
Number of respondents	*n.a.*
Age group	*n.a.*
Special characteristics	*n.a.*
Published by	IFR
Publication date	June 2018
Original source	ifr.org
Website URL	visit the website

Notes:

The figures for 2004 through 2016 were taken from previous releases. The values have been rounded.

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Projected non-industrial robotics market size worldwide in 2025, by major segment (in million U.S. dollars)

Global non-industrial robotics market revenue 2025, by segment

Source and methodology information

Source(s)	Tractica
Conducted by	Tractica
Survey period	2018
Region(s)	Worldwide
Number of respondents	*n.a.*
Age group	*n.a.*
Special characteristics	*n.a.*
Published by	Tractica
Publication date	June 2018
Original source	tractica.com
Website URL	visit the website

Notes:

* Projected figures The values have been rounded. According to the source, their definition of the robotics market includes "industrial robots [and] service robots ... also unmanned aerial vehicles (UAVs) and autonomous vehicles..."

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Unit shipments of domestic consumer robots worldwide from 2015 to 2025 (in millions)*

Shipments of domestic robots worldwide 2015-2025

Source and methodology information

Source(s)	Loup Ventures
Conducted by	Loup Ventures
Survey period	2015 to 2016
Region(s)	Worldwide
Number of respondents	*n.a.*
Age group	*n.a.*
Special characteristics	*n.a.*
Published by	Loup Ventures
Publication date	June 2017
Original source	loupventures.com
Website URL	visit the website

Notes:

* Forecast figures for 2017 through 2025. Includes vacuum, lawnmower & wet floor robots

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Unit shipments of domestic consumer robots by category worldwide from 2015 to 2025 (in millions)*

Shipments of domestic robots worldwide by category 2015-2025

Source and methodology information

Source(s)	Loup Ventures
Conducted by	Loup Ventures
Survey period	2015 to 2016
Region(s)	Worldwide
Number of respondents	*n.a.*
Age group	*n.a.*
Special characteristics	*n.a.*
Published by	Loup Ventures
Publication date	June 2017
Original source	loupventures.com
Website URL	visit the website

Notes:

* Forecast figures for 2017 through 2025.

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Domestic service robots unit shipments worldwide from 2015 to 2020 (in millions)*

Global shipments of domestic service robots 2015-2020

Source and methodology information

Source(s)	Statista estimates; IHS
Conducted by	Statista estimates; IHS
Survey period	2015 to 2017
Region(s)	Worldwide
Number of respondents	*n.a.*
Age group	*n.a.*
Special characteristics	*n.a.*
Published by	Statista
Publication date	October 2017
Original source	*n.a.*
Website URL	visit the website

Notes:

* Forecast figures for 2017 through 2020. Domestic service robots are devices that autonomously carry out indoor and outdoor household chores, and they include vacuum cleaners, floor cleaners, window cleaners, lawn mowers, pool cleaners, as well as robots used for social and edutainment purposes and robotics kitchen/chefs.

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North American robot suppliers' orders and domestic sales of industrial robots in 2016 (in billion U.S. dollars)

North American industrial robots - sales 2016

Source and methodology information

Source(s)	Robotics Industries Association
Conducted by	Robotics Industries Association
Survey period	2016
Region(s)	Worldwide
Number of respondents	*n.a.*
Age group	*n.a.*
Special characteristics	*n.a.*
Published by	Robotics Industries Association
Publication date	January 2017
Original source	robotics.org
Website URL	visit the website

Notes:

n.a.

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Growth of North American industrial robot orders in 1st quarter 2017, by application (over the same period one year before)

North American industrial robots - order growth by application 2017

Source and methodology information

Source(s)	Robotics Industries Association
Conducted by	Robotics Industries Association
Survey period	Q1 2017
Region(s)	Worldwide
Number of respondents	*n.a.*
Age group	*n.a.*
Special characteristics	*n.a.*
Published by	Robotics Industries Association
Publication date	May 2017
Original source	robotics.org
Website URL	visit the website

Notes:

n.a.

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Projected size of the global autonomous vehicle market in 2025, by type (in billion U.S. dollars)

Size of the global autonomous car market by vehicle type 2025

Source and methodology information

Source(s)	BCG; Various sources
Conducted by	Various sources
Survey period	2014
Region(s)	Worldwide
Number of respondents	*n.a.*
Age group	*n.a.*
Special characteristics	*n.a.*
Published by	BCG
Publication date	January 2015
Original source	Back to the Future: The Road to Autonomous Driving, slide 11
Website URL	visit the website

Notes:

n.a.

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References

Projected autonomous driving revenue in 2016, by major market (in billion euros)

Autonomous driving - projected revenue by major market 2016

Source and methodology information

Source(s)	PwC; Strategy&
Conducted by	PwC; Strategy&
Survey period	2015
Region(s)	Worldwide
Number of respondents	*n.a.*
Age group	*n.a.*
Special characteristics	*n.a.*
Published by	PwC
Publication date	September 2015
Original source	Re-inventing the wheel: Scenarios for the transformation of the automotive industry, page 6
Website URL	visit the website

Notes:

n.a.

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Leading countries active in the field of autonomous vehicles as of 1st quarter of 2017, based on the Autonomous Vehicle Index

Leading countries in the field of autonomous vehicles 2017

Source and methodology information

Source(s)	Roland Berger; Forschungsgesellschaft Kraftfahrwesen Aachen
Conducted by	Roland Berger; Forschungsgesellschaft Kraftfahrwesen Aachen
Survey period	Q4 2017
Region(s)	Worldwide
Number of respondents	*n.a.*
Age group	*n.a.*
Special characteristics	*n.a.*
Published by	Roland Berger
Publication date	January 2018
Original source	Automated Vehicle Index Q4 2017, page 19
Website URL	visit the website

Notes:

According to the source, countries are ranked on a scale of 0-5, with 5 indicating the most advanced development.

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Unit shipments of artificial intelligence (AI) based systems used for automotive purposes* from 2015 to 2025 (in millions)

Global artificial intelligence based system shipments for automotive market 2015-2025

Source and methodology information

Source(s)	Statista estimates; IHS
Conducted by	Statista estimates; IHS
Survey period	2016
Region(s)	Worldwide
Number of respondents	*n.a.*
Age group	*n.a.*
Special characteristics	*n.a.*
Published by	Statista
Publication date	October 2016
Original source	*n.a.*
Website URL	visit the website

Notes:

* Forecast. Includes infotainment systems, such as virtual assistance, gesture and speech recognition, as well as autonomous advanced driver assistance systems (ADAS) and applications, like object detection and freespace detection.

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Share of global consumers willing to be a passenger in a self-driving vehicle as of November 2017, by age

Self-driving vehicles: consumer willingness to be a passenger 2017, by age

Source and methodology information

Source(s)	Accenture; Harris Interactive
Conducted by	Harris Interactive
Survey period	October to November 2017
Region(s)	Worldwide
Number of respondents	21000
Age group	14-55 years
Special characteristics	online consumers
Published by	Accenture
Publication date	January 2018
Original source	Time to Navigate the Super Myway: Giving Consumers Exactly What They`re Looking For, page 3
Website URL	visit the website

Notes:

14-17 (n=1,124) 18-34 (n=8,550) 35-54 (n=7,605) 55+ (n=3,721)

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Share of global consumers willing to be a passenger in a self-driving vehicle as of November 2017, by income

Self-driving vehicles: consumer willingness to be a passenger 2017, by income

Source and methodology information

Source(s)	Accenture; Harris Interactive
Conducted by	Harris Interactive
Survey period	October to November 2017
Region(s)	Worldwide
Number of respondents	21,000
Age group	14-55 years
Special characteristics	online consumers
Published by	Accenture
Publication date	January 2018
Original source	Time to Navigate the Super Myway: Giving Consumers Exactly What They`re Looking For, page 3
Website URL	visit the website

Notes:

Low (n=5,302) Medium (n=9.559) High (n=6,139)

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References

Big data market size revenue forecast worldwide from 2011 to 2027 (in billion U.S. dollars)

Forecast revenue big data market worldwide 2011-2027

Source and methodology information

Source(s)	Wikibon; SiliconANGLE
Conducted by	Wikibon
Survey period	2014 to 2018
Region(s)	Worldwide
Number of respondents	*n.a.*
Age group	*n.a.*
Special characteristics	*n.a.*
Published by	SiliconANGLE
Publication date	March 2018
Original source	siliconangle.com
Website URL	visit the website

Notes:

*Forecast. The values are based on the relevant software, hardware and services segment revenues.

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Revenue from big data and business analytics worldwide from 2015 to 2022 (in billion U.S. dollars)

Big data and business analytics revenue worldwide 2015-2022

Source and methodology information

Source(s)	IDC
Conducted by	IDC
Survey period	2015 to 2018
Region(s)	Worldwide
Number of respondents	*n.a.*
Age group	*n.a.*
Special characteristics	*n.a.*
Published by	IDC
Publication date	August 2018
Original source	idc.com
Website URL	visit the website

Notes:

* Forecast. Figures for 2017, 2019 and 2020 are calculated by Statista based on information provided by the source.

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Revenue from the big data market worldwide from 2014 to 2017, by vendor (in million U.S. dollars)

Leading big data vendors in 2014-2017, by revenue

Source and methodology information

Source(s)	Wikibon
Conducted by	Wikibon
Survey period	2014 to 2017
Region(s)	Worldwide
Number of respondents	*n.a.*
Age group	*n.a.*
Special characteristics	*n.a.*
Published by	Wikibon
Publication date	March 2018
Original source	2018 Big Data and Analytics Market Share Report
Website URL	visit the website

Notes:

n.a.

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Share of big data and business analytics revenues worldwide in 2018, by industry*

Big data and business analytics market distribution worldwide 2018, by industry

Source and methodology information

Source(s)	IDC
Conducted by	IDC
Survey period	2018
Region(s)	Worldwide
Number of respondents	*n.a.*
Age group	*n.a.*
Special characteristics	*n.a.*
Published by	IDC
Publication date	August 2018
Original source	idc.com
Website URL	visit the website

Notes:

* Forecast

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Types/sources of big data used by industry professionals worldwide in 2016

Sources of big data most often used globally 2016

Source and methodology information

Source(s)	BARC
Conducted by	BARC
Survey period	summer 2016
Region(s)	Worldwide
Number of respondents	208
Age group	*n.a.*
Special characteristics	Big data professionals
Published by	BARC
Publication date	March 2017
Original source	bi-survey.com
Website URL	visit the website

Notes:

Original question: "Which of the following data types does your company use for big data analysis?"

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Industries targeted by big data analytics application developers, as of 2016

Sectors attracting big data analytics interest 2016

Source and methodology information

Source(s)	Forbes
Conducted by	Evans Data
Survey period	first half 2016
Region(s)	Worldwide
Number of respondents	1,441
Age group	*n.a.*
Special characteristics	developers actively creating new applications with the latest technologies
Published by	Forbes
Publication date	June 2016
Original source	forbes.com
Website URL	visit the website

Notes:

The question was phrased by the source as follows: "Which best describes the industry that will be targeted by the application that uses big data analytics?"

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In which areas are you using big data analytics today? In which additional areas will your company use data analytics in five years?

Industry 4.0 current and future use of data analytics, by business area, as of 2016

Source and methodology information

Source(s)	PwC
Conducted by	PwC
Survey period	November 2015 to January 2016
Region(s)	Worldwide
Number of respondents	2,000+
Age group	*n.a.*
Special characteristics	*n.a.*
Published by	PwC
Publication date	April 2016
Original source	Industry 4.0: Building the digital enterprise, page 19
Website URL	visit the website

Notes:

The majority of participants were Chief Digital Officers or other senior executives with top-level responsibility in their company for industry 4.0 strategy and activity.

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Size of the virtual digital assistant (VDA) market worldwide from 2015 to 2021 (in million U.S. dollars)

Virtual digital assistant market size worldwide 2015-2021

Source and methodology information

Source(s)	Tractica
Conducted by	Tractica
Survey period	2015 to 3rd quarter 2016
Region(s)	Worldwide
Number of respondents	*n.a.*
Age group	*n.a.*
Special characteristics	*n.a.*
Published by	Tractica
Publication date	August 2016
Original source	tractica.com
Website URL	visit the website

Notes:

* Forecast. According to the source, the VDA market includes, "VDAs deployed by application players and platform providers (e.g., Apple, Google, Amazon), to serve consumers as a multi-purpose assistant with the ability to act as a conduit between consumers and a range of enterprises and services" - and - "VDAs deployed for interaction with a specific enterprise, using channels the enterprise typically controls, such as phone/interactive voice response (IVR), website, mobile applications, kiosks, and wearables."

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Size of the enterprise virtual digital assistant (VDA) market worldwide from 2016 to 2025 (in million U.S. dollars)

Enterprise virtual digital assistant (VDA) market size worldwide 2016-2025

Source and methodology information

Source(s)	Tractica
Conducted by	Tractica
Survey period	2016 to 4th quarter 2017
Region(s)	Worldwide
Number of respondents	*n.a.*
Age group	*n.a.*
Special characteristics	*n.a.*
Published by	Tractica
Publication date	August 2018
Original source	tractica.com
Website URL	visit the website

Notes:

* Forecast. According to the source, the enterprise VDA market includes VDAs controlled by an enterprise and deployed for interaction with a specific set of systems, using channels the organization typically controls, such as phone/interactive voice response (IVR), website, mobile applications, or kiosks; and channels they do not control, such as messaging applications like Facebook Messenger, LINE, or Telegram, or smart assistants like Amazon`s Alexa.

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Size of the consumer virtual digital assistant (VDA) market worldwide from 2015 to 2021 (in million U.S. dollars)

Consumer virtual digital assistant market size worldwide 2015-2021

Source and methodology information

Source(s)	Tractica
Conducted by	Tractica
Survey period	2015 to 3rd quarter 2016
Region(s)	Worldwide
Number of respondents	*n.a.*
Age group	*n.a.*
Special characteristics	*n.a.*
Published by	Tractica
Publication date	August 2016
Original source	tractica.com
Website URL	visit the website

Notes:

* Forecast. According to the source, the enterprise VDA market includes, "VDAs deployed by application players and platform providers (e.g., Apple, Google, Amazon), to serve consumers as a multi-purpose assistant with the ability to act as a conduit between consumers and a range of enterprises and services."

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Number of unique active virtual digital assistants (VDA) users worldwide, from 2015 to 2021 (in millions)

Unique active virtual digital assistants users worldwide 2015-2021

Source and methodology information

Source(s)	Tractica
Conducted by	Tractica
Survey period	2015 to 3rd quarter 2016
Region(s)	Worldwide
Number of respondents	*n.a.*
Age group	*n.a.*
Special characteristics	*n.a.*
Published by	Tractica
Publication date	August 2016
Original source	tractica.com
Website URL	visit the website

Notes:

* Forecast. According to the source, the VDA market includes, "VDAs deployed by application players and platform providers (e.g., Apple, Google, Amazon), to serve consumers as a multi-purpose assistant with the ability to act as a conduit between consumers and a range of enterprises and services" - and - "VDAs deployed for interaction with a specific enterprise, using channels the enterprise typically controls, such as phone/interactive voice response (IVR), website, mobile applications, kiosks, and wearables."

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Most common tasks carried out using voice according to global voice tech users as of 2017

Leading tasks carried out by virtual assistants worldwide 2017

Source and methodology information

Source(s)	Kantar; JWT
Conducted by	JWT
Survey period	January 2017 to June 2017
Region(s)	Worldwide
Number of respondents	6,780
Age group	18 years and older
Special characteristics	*n.a.*
Published by	JWT
Publication date	May 2017
Original source	Speak Easy: The Future Answers to You - Global, page 13
Website URL	visit the website

Notes:

*The source defined regular voice tech users as people who use voice technology at least once a week.

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Acceptance of artificial intelligence chatbots by customers worldwide, as of 2017, by service

Customer comfort with AI chatbot service worldwide 2017, by service

Source and methodology information

Source(s)	Pega
Conducted by	Pega
Survey period	2017
Region(s)	Worldwide
Number of respondents	6000
Age group	18 years and older
Special characteristics	*n.a.*
Published by	Pega
Publication date	April 2017
Original source	What Consumers Really Think About AI: A Global Study, page 12
Website URL	visit the website

Notes:

Original question: "In which situations would you be comfortable with a company using AI to give you better customer service?"
Multiple responses were possible.

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User demographics of leading virtual digital assistants (VDAs) in the United States, as of December 2016, by age group

User demographics of personal assistant apps U.S. 2016, by age range

Source and methodology information

Source(s)	Verto Analytics
Conducted by	Verto Analytics
Survey period	2016
Region(s)	United States
Number of respondents	*n.a.*
Age group	18 years and older
Special characteristics	*n.a.*
Published by	Verto Analytics
Publication date	February 2017
Original source	Mobile Apps and Multitasking, page 11
Website URL	visit the website

Notes:

Percentage points below 100 percent are probably due to rounding.

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In your opinion, what are benefits of the increasing popularity of virtual assistants?

Opinion of the benefits of virtual assistants among U.S. residents 2017

Source and methodology information

Source(s)	Statista Survey
Conducted by	Statista Survey
Survey period	April 11 to 22, 2017
Region(s)	United States
Number of respondents	1040
Age group	18-65 years
Special characteristics	U.S. residents
Published by	Statista Survey
Publication date	April 2017
Original source	statista.com
Website URL	visit the website

Notes:

n.a.

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In your opinion, what are dangers of the increasing popularity of virtual assistants?

Opinion on the danger of virtual assistants among U.S. residents 2017

Source and methodology information

Source(s)	Statista Survey
Conducted by	Statista Survey
Survey period	April 11 to 22, 2017
Region(s)	United States
Number of respondents	1040
Age group	18-65 years
Special characteristics	U.S. residents
Published by	Statista Survey
Publication date	April 2017
Original source	statista.com
Website URL	visit the website

Notes:

n.a.

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Growth of the natural language processing (NLP) market worldwide, from 2016 to 2024

Natural language processing market growth worldwide 2016-2024

Source and methodology information

Source(s)	Tractica
Conducted by	Tractica
Survey period	2015 to 2016
Region(s)	Worldwide
Number of respondents	*n.a.*
Age group	*n.a.*
Special characteristics	*n.a.*
Published by	Tractica
Publication date	September 2016
Original source	Natural Language Processing
Website URL	visit the website

Notes:

* Forecast.

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Revenues from the natural language processing (NLP) market in North America, from 2015 to 2024 (in million U.S. dollars)

Natural language processing market revenue in North America 2015-2024

Source and methodology information

Source(s)	Tractica
Conducted by	Tractica
Survey period	2015 to 2016
Region(s)	North America, Canada, United States
Number of respondents	*n.a.*
Age group	*n.a.*
Special characteristics	*n.a.*
Published by	Tractica
Publication date	September 2016
Original source	Natural Language Processing
Website URL	visit the website

Notes:

* Forecast.

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Size of the voice and speech recognition technology market worldwide, from 2015 to 2024 (in million U.S. dollars)

Voice and speech recognition technology revenue worldwide 2015-2024

Source and methodology information

Source(s)	Tractica
Conducted by	Tractica
Survey period	2015
Region(s)	Worldwide
Number of respondents	*n.a.*
Age group	*n.a.*
Special characteristics	*n.a.*
Published by	Tractica
Publication date	June 2015
Original source	Voice and Speech Recognition
Website URL	visit the website

Notes:

* Forecast.

Back to statistic

Growth of the voice and speech recognition technology market worldwide, from 2016 to 2024

Voice and speech recognition technology revenue worldwide growth 2016-2024

Source and methodology information

Source(s)	Tractica
Conducted by	Tractica
Survey period	2015
Region(s)	Worldwide
Number of respondents	*n.a.*
Age group	*n.a.*
Special characteristics	*n.a.*
Published by	Tractica
Publication date	June 2015
Original source	Voice and Speech Recognition
Website URL	visit the website

Notes:

* Forecast.

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Size of the voice and speech recognition technology market in North America, from 2015 to 2024 (in million U.S. dollars)

Voice and speech recognition technology revenue in North America 2015-2024

Source and methodology information

Source(s)	Tractica
Conducted by	Tractica
Survey period	2015
Region(s)	North America, Canada, United States
Number of respondents	*n.a.*
Age group	*n.a.*
Special characteristics	*n.a.*
Published by	Tractica
Publication date	June 2015
Original source	Voice and Speech Recognition
Website URL	visit the website

Notes:

* Forecast.

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Size of the voice recognition market in the Asia-Pacific region, from 2013 to 2024, by segment (in million U.S. dollars)

Voice recognition revenue in Asia Pacific 2013-2024, by segment

Source and methodology information

Source(s)	Statista estimates; Grand View Research
Conducted by	Statista estimates; Grand View Research
Survey period	2013 to 2016
Region(s)	APAC
Number of respondents	*n.a.*
Age group	*n.a.*
Special characteristics	*n.a.*
Published by	Statista
Publication date	October 2016
Original source	*n.a.*
Website URL	visit the website

Notes:

* Forecast

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