

# Global Artificial Intelligence (AI) Semiconductor Market: Size, Trends & Forecasts (2018-2022)

August 2018



# Global Artificial Intelligence (AI) Semiconductor Market: Coverage

Executive Summary and Scope

Introduction/Market Overview

Global Market Analysis

Dynamics

Competitive Landscape

Company Profiling

# Global Artificial Intelligence (AI) Semiconductor Market: Coverage

## Scope of the Report

Attributes	Details
Title	Global Artificial Intelligence (AI) Semiconductor Market: Size, Trends & Forecasts (2018-2022)
Coverage	Global
Market Influencing Variables	Growth Drivers, Challenges, Market Trends
Forecast Period of Market	2018-2022
Competition in the Market	Dominated
Key Players	Nvidia Corporation, Intel Corporation, ASML Holdings, International Business Machines Corporation (IBM) and Hitachi, Ltd. (Hitachi High-Technologies Corporation)

# Global Artificial Intelligence (AI) Semiconductor Market

## Executive Summary

A semiconductor is a substance designed to manage and control the flow of current in electronic devices and equipment. A semiconductor can conduct electricity between conductors (copper, gold, etc.) and insulators (glass), under certain conditions, and is commonly used in the development of electronic chips, computing components and devices.

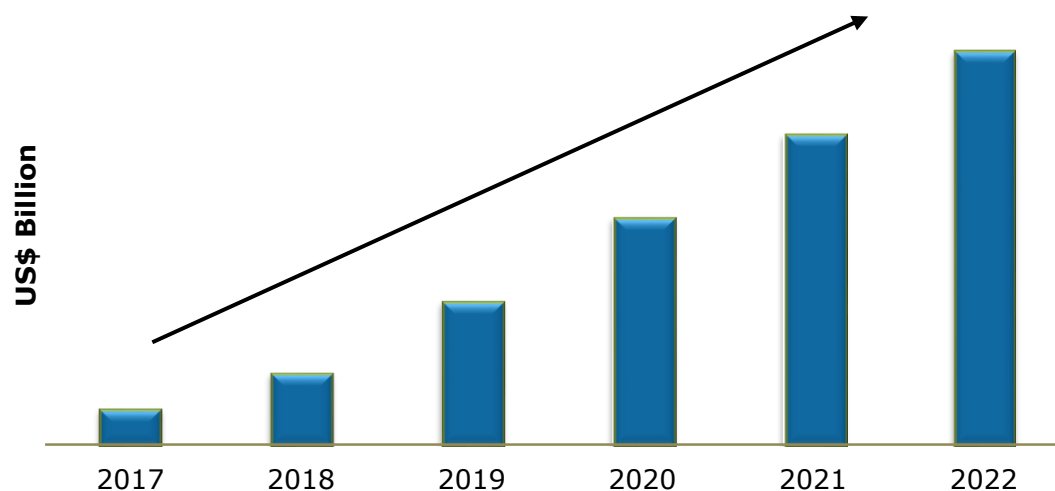
Artificial intelligence (AI) is a branch of computer science that emphasizes the creation of intelligent machines that work and react like humans. AI brings about improvements in semiconductor manufacturing, by speeding up the process, increasing chip performance, reducing production costs, and increasing output. AI is influencing the semiconductor market by creating demand for new technologies, opening up new market opportunities, and by improving the semiconductor fabrication process as well. Growth in AI is one of the major reasons for the growth of semiconductors and has led to the development of AI-based semiconductors.

The artificial intelligence (AI) semiconductor market can be segmented on the basis of process and platform used. On the basis of process, AI semiconductors are segmented as AI training and AI inference. On the basis of platform, AI semiconductors are segmented as AI in the cloud and AI at the edge.

The global artificial intelligence (AI) semiconductor market has increased at a significant CAGR over the years and projections are made that the market would rise in the next four years i.e. 2018-2022 tremendously. The AI semiconductor market is expected to increase due to growing AI applications, increasing demand from memory sectors, rising Internet of Things (IoT), growing personal electronics, increasing smartphone users, etc. Yet the market faces some challenges such as shortage of raw material and challenge in edge computing etc.

# Artificial Intelligence (AI) Semiconductor Market: Global Analysis

## Global AI Semiconductor Market by Value



CAGRs

2018-2022

xx%

The global AI semiconductor market, valued at US\$... billion in 2017. The global AI semiconductor market is anticipated to grow at a CAGR of ....% from 2018 to 2022, and reach up to US\$... billion by 2022, from US\$... billion in 2018.

# Artificial Intelligence (AI) Semiconductor Market: Global Analysis

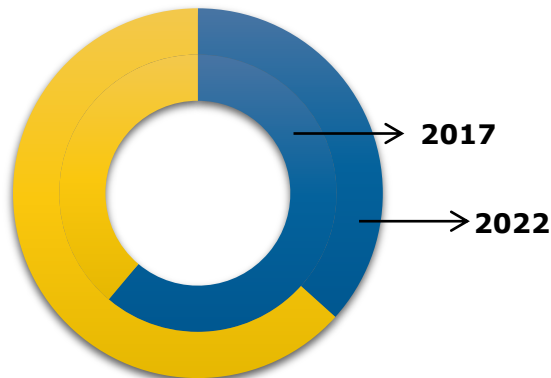
## Global AI Semiconductor Market by Platform; 2017



AI in the Cloud, xx%

AI at the Edge, xx%

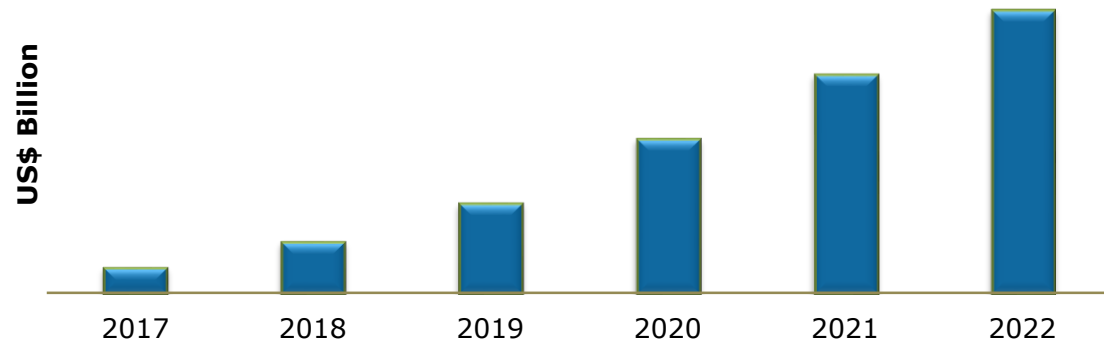
## Global AI Semiconductor Market by Segment; 2017 & 2022



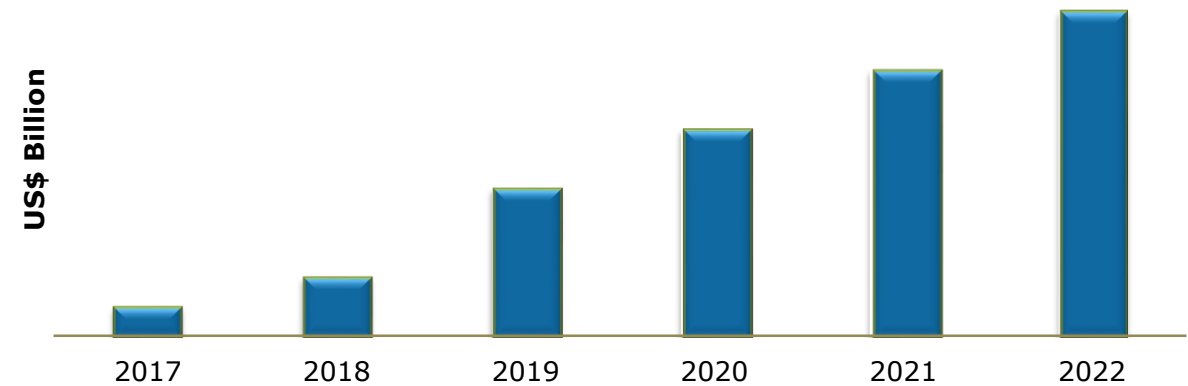
Segments	Share	CAGRs
AI Training	xx%	xx%
AI Inference	xx%	xx%

# Artificial Intelligence (AI) Semiconductor Market: Platform Analysis

## Global AI Semiconductor in the Cloud Market by Value



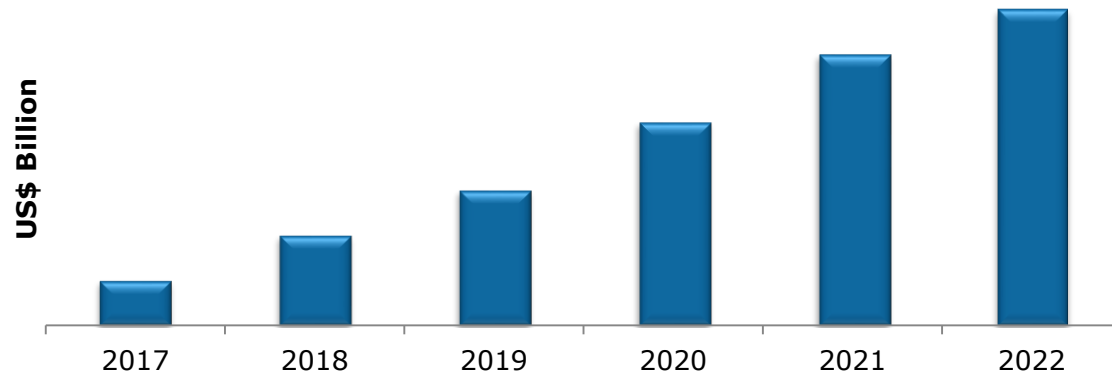
## Global AI Semiconductor at the Edge Market by Value



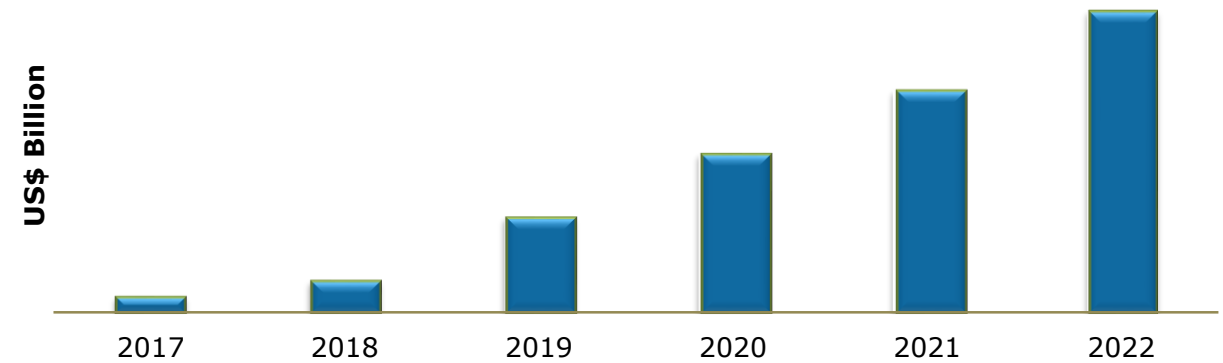
Platform	CAGR
	2018-2022
AI in the Cloud	xx%
AI at the Edge	xx%

# Artificial Intelligence (AI) Semiconductor Market: Segment Analysis

## Global AI Training Market by Value



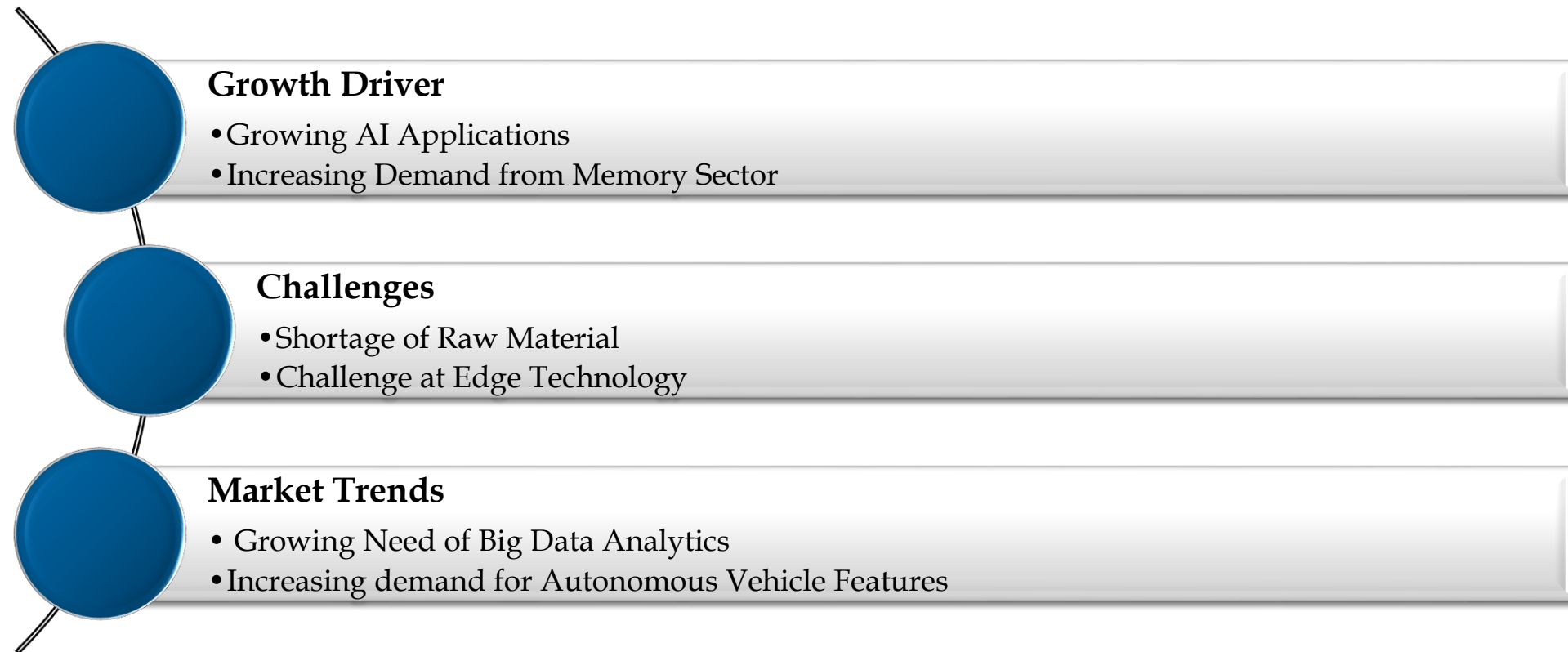
## Global AI Inference Market by Value



Segments	CAGR
	2018-2022
AI Training	xx%
AI Inference	xx%



# Artificial Intelligence (AI) Semiconductor Market: Dynamics



# Artificial Intelligence (AI) Semiconductor Market: Competitive Landscape

## Players Profiled

- Nvidia Corporation
- Intel Corporation
- ASML Holdings
- International Business Machines Corporation (IBM)
- Hitachi, Ltd.  
(Hitachi High-Technologies Corporation)

Global AI Semiconductor Market Players by Share

