

# ARTIFICIAL INTELLIGENCE

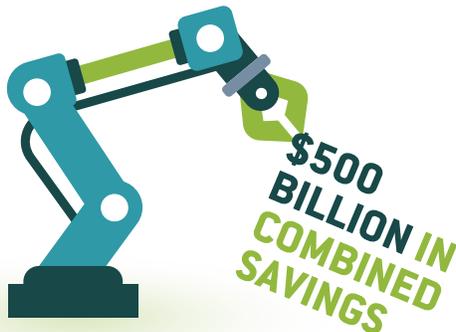
Artificial intelligence is defined as the development of computer systems capable of performing tasks that used to require human intelligence. While artificial intelligence is still in its infancy, the market is rapidly growing. **We believe that artificial intelligence will have profound effects** upon industries ranging from healthcare to renewable energy.

## \$ 190.6 BILLION BY 2025

The artificial intelligence market is expected to be worth \$190.6 billion by 2025, representing a 36.6% compound annual growth rate between 2018 and 2025.<sup>1</sup>

## \$118.6 BILLION BY 2025

The software required for artificial intelligence is projected to reach \$ 118.6 billion by 2025, representing a 37% compound annual growth rate between 2018 and 2025.<sup>2</sup>



Artificial intelligence will improve manufacturing. Robots can be taught to interact with humans, or to make self-adjustments to improve efficiency. The combination of artificial intelligence and machine learning technologies has the potential to deliver more than **\$500 billion in combined savings** for manufacturers and customers.<sup>3</sup> Artificial intelligence enables machines to perform predictive maintenance and achieve a **60% or more reduction in unscheduled system downtime.**<sup>4</sup>

## 60% OR MORE REDUCTION IN UNSCHEDULED SYSTEM DOWNTIME.



Artificial intelligence will improve healthcare. When combined, key clinical health AI applications can potentially create **\$150 billion in annual savings** for the US healthcare economy by 2026.<sup>5</sup>



Energy can have **\$140 billion in cost savings** due to fusing geological and production data, and improving equipment reliability<sup>6</sup>



Artificial intelligence makes renewable energy more efficient. One problem with wind and solar power is that it is intermittent. Better intelligence can lead to better matching of supply and demand. Demand forecasts can be generated that are **30% more accurate.**<sup>7</sup>



Artificial Intelligence can improve accuracy and speed in fraud-detection throughout the financial services industry, leading to a **\$3 billion market by 2020.**<sup>8</sup>



In agriculture, artificial intelligence can be used to optimize seed planting, fertilization, and irrigation. The precision farming market could be a **\$240 billion market by 2050.**<sup>9</sup>



The United States has been the leader in investments into AI technology. In 2016, The USA received **66% of external investment** (venture capital, private equity, and mergers & acquisitions) into artificial intelligence. China was second at 17% of external investment.<sup>10</sup>

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3. <https://www.goldmansachs.com/insights/pages/factory-of-the-future.html>  
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7. <https://www.goldmansachs.com/insights/pages/precision-farming.html>  
8. <http://www.smallake.kr/wp-content/uploads/2017/05/P020161223538320477062.pdf>  
9. <http://www.mckinsey.com/business-functions/mckinsey-analytics/our-insights/how-artificial-intelligence-can-deliver-real-value-to-companies?cid=eml-app>  
10. <http://www.mckinsey.com/business-functions/mckinsey-analytics/our-insights/how-artificial-intelligence-can-deliver-real-value-to-companies?cid=eml-app>

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