



# D&I Words of Visionaries

Module: Turning Dreams into Reality

The current module, 'Turning Dreams into Reality' at Dreamers & Innovators goes beyond our previous efforts of bringing relevant knowledge and skills to 21st-century learners. With stories of the evolution of billion-dollar ventures from simple idea seeds, we endeavor to bring many essential thinking strategies adopted by entrepreneurs in their journey to young minds.

This week's newsletter showcases the ideas of three of our Dreamers: Ananya, Aryan, and Damita, who help build for you the context in which Big-Tech companies like Amazon Inc. have surged and how this Revolution imprint's upon so many versatile aspects of life.

Dreamers & Innovators is a knowledge and skill-building platform for 21st century learners. We aspire, design and execute interactive learning experiences where global knowledge relevant to today and tomorrow is brought to young Dreamers. At D&I, 21st century skills are honed, confident communication is developed and independent, informed opinions are nourished.

## Amazon: The Dawn of Smart Business



Ananya Kumar  
18 years

"Industrial Revolution 4.0" aims to define the impact of things like AI, Autonomous driving, Cloud computing etc. on our lives. It was coined by the founder of the World Economic Forum, former professor Klaus Schwab for his book titled "The Fourth Industrial Revolution". In the 1900s Amazon was just a thought in the mind of an entrepreneurial personality, Jeff Bezos. The internet had been introduced in later half of Industrial Revolution 3.0 and had taken the world by storm making the lives of individuals uncomplicated. Many companies thought of using it to their benefit but very few like Amazon were able to make it to the fourth revolution which established them as pioneers of the same.

Mr. Bezos saw the potential in the internet and knew the impact it was going to make in the coming years and accordingly started Amazon inc. as a simple books-only platform delivering books to households at their doorstep instead of them walking out. Soon Amazon delivered almost everything at the doorstep of individuals. The ease of not having to go out for the simplest things like home appliances, toiletries etc. led to the amplification of Amazon Inc. Jeff Bezos's vision of making Amazon customer-focused had worked admirably in his favor which led to him establishing Amazon as a conglomerate with subsidiaries like Audible, AWS, IMDb etc. turning Amazon into one of the most valuable companies on planet earth.

## Industrial Revolution 4.0's Impact



Aryan Bansal  
13 years

The Fourth Industrial Revolution is the ongoing automation of traditional manufacturing and industrial practices, using modern smart technology. It is based on the foundations laid by the first 3 industrial revolutions. The system of industrial revolution 4.0 is completely automated. This aims to unlock the potential of cutting-edge technologies such as artificial intelligence, robotics, bioengineering, programming tools to transform society. For eg: advances in automotive safety through Fourth Industrial Revolution technologies can reduce road fatalities and insurance costs, and carbon emissions.

Industrial revolution also aims at improving agricultural yields by modernising agriculture and forecasting extreme weathers. Efficiency in manufacturing, transportation, Internet and communication can be increased by using web search engines and developing industrial robots. Of most immediate concern was the observation that the revolution has already led to substantial job losses. To ensure India's success in this capacity Prime Minister Narendra Modi on 23rd January 2018 at the World Economic Forum annual meeting announced the creation of a Centre for the 4th industrial revolution.

"The changes are so profound that, from the perspective of human history, there has never been a time of greater promise potential peril." - Klaus Schwab.

## Manufacturing & the Great Wave of Evolution



Damita  
13 years

For more than 25 years, Amazon has designed and manufactured smart products and distributed billions of products through its globally connected distribution network using cutting-edge automation, machine learning and AI, and robotics, with AWS at its core. From product design to smart factory and smart products, AWS helps leading manufacturers transform their manufacturing operations with the most advanced set of cloud solutions available today, while taking advantage of the highest level of security.

Industry 4.0 stands to a new phase in the industrial revolution that specifically focuses on machine learning and real time data. Amazon has capitalized the opportunity created by IR 4.0. Amazon's automated shipment centers are examples of the new technology systems driving toward Industry 4.0 which relies on more than 15,000 robots to pick out merchandise for orders. The company also utilizes one of the largest robotic moving arms in the world to help transfer pallets. A classic example of how man has been replaced by machines.