



THE MATHEMATICS OF ENTREPRENURSHIP

Shyam.p

Students of SSMRV Degree College , Jayanagar ,Bangalore Karnataka.

Abstract

Entrepreneurships plays an emphasis role in a growth of economy using the skills, ideas and initiative of the emerging entrepreneur's deduces, to bring good innovation producing the better quality and new tech products and service to satisfy the needs in the whole. Revolution on country's growth and standards is focused how well the ideas, desires of the person has changed into business and made profits, fame and constant growth expansions. Major reasons for growth of entrepreneurship are there are various number of opportunities availed in the economy in the various field. In this mathematics of entrepreneurship, we will be focused on the destructive and constructive measures of how an entrepreneur can evolve in the market as well as worldwide.

Keywords: Innovation, Desire, Skills, Initiative, Growth/Expansion.

Introduction:

Entrepreneurship is the process of starting and developing a company, with the aim of delivering something new or improved to the market, or by organizing the means of production in a superior way. This process is principally organized through the formation of a start-up company, is managed by entrepreneurs, often under considerable personal and financial risk, and is temporary in duration, as a phase in a business's lifecycle. A key distinction between start-ups and other small or young businesses is an aspiration (realized or not) to substantially grow. As companies mature out of the start-up phase, they evolve into sustainable businesses, are acquired or sold to public investors, or decay and may eventually shut down, as new companies, start-up and take their place. He is a person responsible for the existence of a new industrial enterprise.

Objectives:

- To be engaged in the online dynamic presence so that the reach of the innovation is emphasised in the world.
- To maintain a professional management in the business work environment and focusing mainly on customer obsession, constant invention and innovation, operational excellence and thinking long term underscores, abiding optimism of the future.
- Producing the product or service based on the needs of the customers, the main intension is to focus on the quality of the product or service and fulfilling the betterment of the customer needs.
- To focus on maintaining a diversified investment portfolio of their fund and maintain a prerequisite risk management as well as. Position sizing of their funds through different investment channels and in different emerging start-ups in the country.

Methodology Applied

- **Primary source:** The research is done through gaining knowledge through learning the India's growth in the recent trends through news,journals,YouTube. Etc
- **Secondary source:** Secondary data is collected from books, magazines, journals to develop the theory
- **Books :** Learn to earn by Peter lynch and John Rothchild ,ONE UP ON THE WALLSTREET BY Peter lynch and John Rothchild) ,THINK AND GROW RICH BY NAPOLEON HILL
- **Magazines:** Business Insiders, Forbes, Goldman Sachs,
- **Convenient data:** Data is collected as per the information given in the official startupIndia.com and various other news website [Indiantimes, Inshots ...etc]

The Entrepreneurship Rules onSectors of The Economy

While thinking about business opportunities, I am remained of the statement of Douglas Macarthur – ‘Opportunity never knocks on the door, you have to knock on opportunity’s door and they are all around’The fact remains that there is opportunity available everywhere in and around us in the business environment

Entrepreneurship emphasis in creating an innovation/ idea in different field in the economy they are:

1. **Tourism:** Tourism has emerged as number one largest smokeless and fast-growing industry in the world, due to its ample promise and prospects presently it accounts for 8% of the world trade and around 20% of service sector in the world



2. Evidences indicate that many countries have progressed from backward to developing to developed, mainly due to tourism development. For example, tourism industry contributes to more than 70% of the national income of some of the countries like Malaysia and Singapore. Tourism industry Is making a drastic move in the upcoming years, because of the innovative business being created by young entrepreneurs EX: IRCTC, CONFIRMTKT, GOIBIBO ...ETC this intense adds to the GDP of the country.
3. **INFORMATION TECHNOLOGY:** Technology is the core of every business today, be it the core products or services, or management of the them with technologies like CRM[Customer Responsibility Management], the IT sector has been India's sunshine sector for quite some time now. This industry has contributed considerably to changing India's image from a slow developing economy to a global player in providing world class technology solution, as per the recent information the IT industry have accounted an 8% of India's GDP in 2020. Exports from the Indian IT industry are expected to increase by 1.9% to reach US \$ 150 billion in FY21, the upcoming tech- emerging entrepreneurs are mainly focused on IT industry and its innovation off technology and taking its rapidness due to dynamic business world
4. **TELECOM:** The Telecom industry in India is the second largest in the world with a subscriber base of 1.17 billion. The number of broadband -subscribers rose to 765.1 million in February 2021. The industry has witnessed exponential growth over the last few years primarily driven by affordable tariffs, wider availability, roll-out of Mobile Number Portability (MNP), expanding 3G and 4G coverage, evolving consumption patterns of subscribers and a conducive regulatory environment. The Government has emphasized bolstering India's domestic telecom manufacturing capacity. Efforts are also underway to develop a foundational network for 5G technology deployment in India. India has the second-largest number of telephone connections in the world. As of February 2021, the total telephone connection rose to 1,187.9 million. The tele density of the rural market, which is largely untapped has increased to 59.48%, there is also an increase of around 20% in the number of internet subscribers by the end of dec 2020, The Telecom sector is the 3rd largest sector in terms of FDI inflows, contributing 7.1% of total FDI inflow. The sector contributes directly to 2.2 Mn employment and indirectly to 1.8 Mn jobs. The sector is expected to contribute 8% to India's GDP.
5. **HEALTHCARE:** Amidst the recent COVID_19 virus outbreak around the world, every industry is seen today facing the troubles, the healthcare and pharmaceutical industry however is one of the few which are in high demand. The investment in healthcare start-ups is hence essential. The sector holds the power of stimulating growth as the Indian healthcare industry. Also has advantages over other developing countries in becoming a global hub for medical tourism. The medical treatment and educational services in India are a fraction of the cost in developed countries. Many recent IPO [Initial Public Offer] related to the healthcare sector have been launched and made a debut in the countries growth EX: Appollo Hospital, Max Healthcare, DR Lal Path Lab ,Fortis Health ,Metropolis etc
6. **Automobile:** India has made much headway in automobile industry and by now has emerges as a hot spot for automobiles and auto-components. A cost- effective hub for auto components sourcing for global auto makers, the automobile sector is by all indications a potential sector for entrepreneurs in India, India have seen a great stupendous move in the growth of automobile sector, the automobile sectors contribute of around 7% in the GDP of the country with the annual turnover of 7.5 lakh crores and exports of around 3.5 lakh crores India is the first in producing world largest tractor manufacturer and two-wheeler manufacturer and second largest bus manufacturer and 3rd largest heavy truck manufacturer As per the recent norms, government of India have taken a step to support electric vehicles and it became a boost to the Indian automobile market where few recent young entrepreneurs have taken a part in producing innovative electric scooter such as OLA, ATHER ... etc
7. **Education and Training:** due to recent upgradation in the technology the education and training industry as seen its boom In a rapid face , where at one government's increasing Emphasises on spreading education and on the other there is a constant good demand for education and through online means education and training industry as seen its up move in the growth of the emerging companies EX: Byju's , Unacademy , Akashetc and the entrepreneurs who took an idea of creating an online educational platforms have made an emerging career , which intense leads to prosperity of the country .



8. **FMCG:** One of the most suitable industry, who is in constant face of creating a new products to satisfy the need of the customers, Fast Moving Consumer Goods [FMCG] in India is Expected to increase at a CAGR of 14.9% to reach US\$ 220 billion by 2025 from US\$110 billion in 2020 in the upcoming prospective years we can see a huge demand for readymade products or produced products is already indicated by metro tic growth
9. **Banking and finance:** Indian banking system play's major role in the GDP of the country of around 7.7% in the overall GDP. The banking institution controls the cash flows in the country through repo rates, bank rates, open market operation, CRR (cash reserve ratio), statutory liquidity ratio (SLR) in the country, banking system in the country have evolved in a short period of time, where there is a greater innovation, massive growth and its functions through online means and there is an increased security issues threats made by the banks in order to maintain an healthy flow in the country's economy. In this study we have made a detailed representation of how to control the uncertainties in the banking institution and its functions.
10. **Others:** This is our research that the above industry can see its major growth in the coming years and we can see the unemployment rate is being decreased at YOY [Year on Year] basis
Whereas few industries which is not mentioned above like Infrastructure, mining, organic farming, software, textile, ...etc are a apart for the contribution of GDP in the country.

Thoughts of Entrepreneurship To The Above Sectors

- ❖ Entrepreneur's have a wide range of opportunity to procure a business in this field and make a competitive advantage in the upgrowing industry
- ❖ As per the National Statistical office, the official agency of the government, the growth of the GDP as increased by 20% in the FY21 and it indicates even though in this pessimism the business and the entrepreneurial innovation have got its face to the emerging entrepreneurs of the country
- ❖ One of the statement from global entrepreneurship monitors over 100 million business are launched each year, that is 11000 per hour or 3 new business per second and by this we can see good stupendous growth in the growth of the country's economy as well as the standard of living of the people will be increased
- ❖ Descriptions: India has about 50000 start-ups in 2018 around 8900-9300 of these are technology led start-ups 1300 new tech start-ups were born in 2019 alone implying there are 2-3 tech start-ups born every day by this we have known the entrepreneurs are increasing day by day and hence entrepreneurial activities will be encouraged in every sectors of the economy

Entrepreneurial constructiveness

1. You have an opportunity to find genuine growth.
2. You get to decide which business sector to pursue.
3. You have more independence when working as an entrepreneur.
4. You have an ability to earn as an entrepreneur.
5. You have more excitement in your life.
6. You gain an opportunity to develop your community.
- 7.

Entrepreneurial traits

1. You must be a natural leader to find success in this field.
2. You won't earn much in the first year (or more) of your efforts.
3. You won't have flexible hours all the time.
4. You will experience more stress than you can ever remember.
5. You may need to find investors to help you take those first steps.
6. You may discover financial instability in your future.

Entrepreneurial Ecosystems

There is research that shows high levels of self-employment can stall economic development: Entrepreneurship, if not properly regulated, can lead to unfair market practices and corruption, and too many entrepreneurs can create income inequalities in society. Overall, though, entrepreneurship is a critical driver of innovation and economic growth. Therefore, fostering entrepreneurship is an important part of the economic growth strategies of many local and national governments around the world.



To this end, governments commonly assist in the development of entrepreneurial ecosystems, which may include entrepreneurs themselves, government-sponsored assistance programs, and venture capitalists. They may also include non-government organizations, such as entrepreneurs' associations, business incubators, and education programs.

Conclusion and Recommendation

In conclusion it may be said that the above discussed are based on the several studies and experiences most of which are not conclusive. an entrepreneur is responsible for the business perspective, research has shown that entrepreneurs do not take a extreme risk they take moderate risk, usually entrepreneurs spend considerable amount of time planning their enterprises, they study the market situation, explore profitability in alternatives lines of business, products,machinery, technology and processes, finance, and entrepreneurs are the main reasons for the growth of the country, because there is an increase in the demand and opportunities in various sectors of the economy, and India can see its growth ,as government have taken various steps in empowerment of entrepreneurs and providing various aids to the emerging entrepreneurs by supporting there business in the country

The various government schemes to support Entrepreneurs in India

- Start-up India
- Atal Innovation Mission
- Multiplier Grants Scheme [MGS]
- eBiz portal. Etc.