



## A Study for Boosting the Economy Indicator like GDP. & Finance Innovation like Stocks Market Vibrations on Fellows Acquired PhD Degree and Progressed Post-Doctorate Experiences Continuously I

By

Run Xu<sup>1</sup>, Sangshik Kim<sup>1</sup>, Xianglan Piao<sup>2</sup>, Wanhao Wu<sup>3</sup>, Yonggen Wu<sup>4</sup>, Tianyi Yan<sup>5</sup>

<sup>1</sup>Gyeongsang National University, School of Nano New Materials Engineering, JinJu-si 52828, Gyeongsangnam-Do, Korea

<sup>2</sup>Yanbian University, School of Engineering, Mechanical Engineering Dept., Yanji 133000, China

<sup>3</sup>Yantai Institute of Science & Technology, Business & Management Dept., Yantai 264000, Shandong Province, China

<sup>4</sup>Yantai University, Faculty of Electron-mechanical Engineering & Automotive, Yantai 264005, Shandong Province, China

<sup>5</sup>Qingdao University, School of Electron-mechanical Engineering, Qingdao 266071, Shandong Province, China



### Article History

Received: 05/05/2025

Accepted: 11/05/2025

Published: 13/05/2025

### Vol – 4 Issue –5

PP: - 17-21

### Abstract

*The cutting-edge-field reformation will provoke our endeavour and interest whose significance is about to be longer than our anticipation, so all the aspects for the sake of progressing its speed can be processed sustainably by government institution policy maker upon supporting capital urgently. Thereby, the educational fellows may play an important role on continuing to process new research project who needs to grasp advance mathematics skill combined into melting other multi-disciplines to create new research achievement like initiatives to make a new skill measure currently which may apply to the practical utilizing like software, new materials etc. aspects. Nano material as an important one who may wield their role in developing some new composite materials. Some composite materials like Al-Carbon tube etc. through regulating carbon amount in Aluminium matrix is possible in experimental stage now. At the same time, earning more money has become a prevalent theme currently through sharing financial tool with some capital, so the more one will flow into our account or pocket which makes us to be wealthier than before. Furthermore, the more fitted person will be educated contributing to the upgrade product skill, so that the more work can be formed with more diversity expertise and discipline created at last. So the more research fields and divisions may be developed for recruiting more fellows and senior engineers continuously.*

**Keywords:** Financial; innovative; cutting-edge-field; initiation; fellows; PhD Degree

### 1. Introduction

The cutting-edge-field skill would wield its role on many occasions like new energy vehicle etc., so many fellows who were educated through university and trained through company will be found for the sake of creating more products continuously. We front many difficulties probably like the expertise difference, little project experience etc. so the enough talents must be maintained near our surround. The corresponding educational system may be established so as to progress our programme which is able to propose more utilized capability and experience for targeting person owned enough toughness & perseverance. Thereby, the product skills may be continue heritage continually and update continuously

the joint for creating innovative product skills whose significance may be surpassing product itself. So we must retain relevant expertise fellows and senior engineer so as to educate the nest generational fellows continually.

Furthermore, the more fitted person will be educated contributing to the upgrade product skill, so that the more work can be formed with more diversity expertise and discipline created at last. So the many research fields and divisions may be developed for recruiting more fellows and senior engineers. Certainly, they may be educated from units and chosen by human resource or manager in a unit which will form a good circulation for promoting our innovation enterprise. In the end they could continuously develop new

one pushing into modern society with their wisdom and character sustainably. [1~6]

Overviews, the fitting fellows etc talents must had good educational course and research experience for wielding their capacity towards developing continually the cutting-edge-field skills, which is to be destination in this paper. We should continuously education fitting ones with perseverance and develop their capability and experience so as to make some initiative and skills products for progressing society sustainably.

## 2. Discussions

The financial innovation would like lead to modern society since it has gamble characteristics which may learn many methods like stock market tendency forecasting simultaneously. So we need to learn the basic principles and then behavior with capital so as to earn additional money. AI(artificial intelligence) tools will give us much help to accurately predict the big plate tendency some what, thereby we should credit it and follow for the sake of believing its judgement. There are many stocks choosing tools for us to use, we have only do some behaviors in light of its indication. Overview, the GDP will carry when to enhance the estate price and how much to increase problems, so we may forecast the GDP value correctly and then invest capital to estate business to anticipate its raising value. Because there were so less house to live the house price would raise non-limited in past years recently. Now the excessive house may cause its declined price, so we should proceed others. At the same time, the stocks price will increase with GDP enhancement, so the predicting GDP increase may cause the stocks market raising too. They will become the proportional correlation as well according to this study. Overview, the economy development may push stocks market forwards so bring in the stocks price enhancement sustainably.

### 2.1 The whole financial income top ten in China

The whole country financial income top five in 2024 would exhibit in Figure 1 where the Shanghai, Beijing, Shenzhen, Hangzhou and Chongqing occupied the top one~five positions with 761~236 billion yuan accordingly. Meantime, the average one may afford 434 billion yuan in those cities then[1]

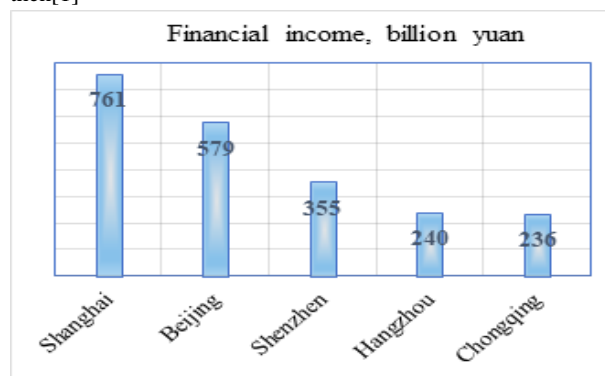


Figure 1 The whole country financial income top five in 2024.

The whole country financial income top six~ten in 2024 would exhibit in Figure 2 where the Suzhou, Tianjin, Guangzhou, Chengdu and Ningbo occupied the top six~ten positions with 223~162 billion yuan correspondingly. At the same time, the average value might afford 186 billion yuan there.

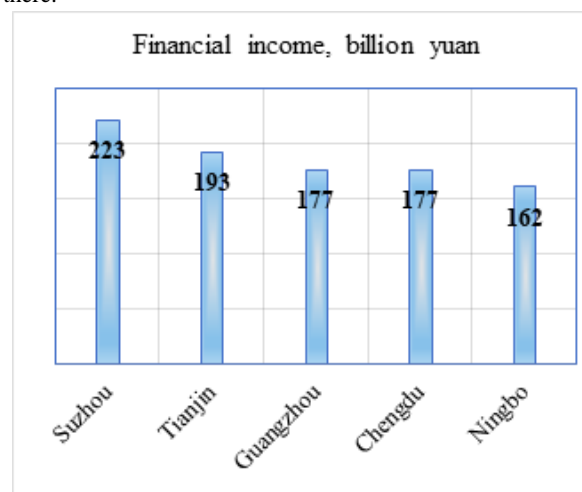


Figure 2 The whole country financial income top six~ten in 2024.

### 2.2 Mumbai & Jiangsu provincial cities GDP listing in 2022~2023

The Mumbai & Jiangsu provincial cities GDP would exhibit 2.5~1.5 trillion yuan by Suzhou~Wuxi in light of Figure 3 in 2023 where the speed may provide 6.2%~1.3% for them respectively in 2022~2023. [2] Therein, the Mumbai maintained the highest speed with 8.7, then The Suzhou retained the second one with 6.2% exhibited the strong economic entity while the Nanjing remained the middle 2.3% and the Wuxi recorded -1.3% expressed the lowest speed then. Moreover, the Suzhou's amount beyond the Nanjing's one became stronger than the Nanjing, which expresses the secondary city entity would be more than the first-class city ie. capital in Jiangsu province.

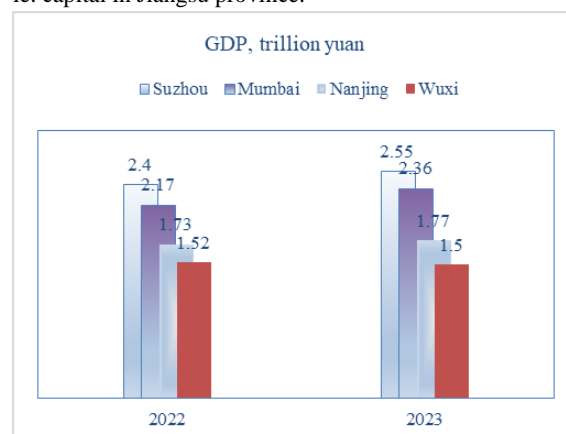
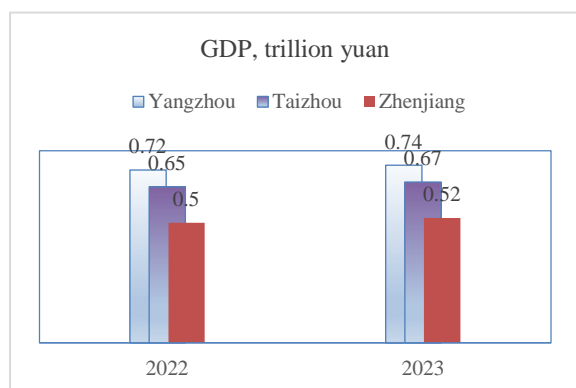


Figure 3 The Mumbai & Jiangsu provincial cities GDP in 2022~2023. [2]

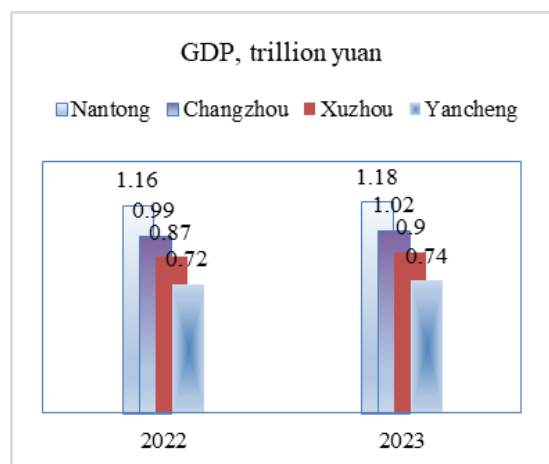
The Yangzhou~Zhenjiang GDP would attain 0.74~0.52 trillion yuan in 2023 in terms of Figure 4 whose speed indicated 2.7%, 3% & 4% accordingly in the same year.

Therein, the Zhenjiang speed provided the highest one while the Yangzhou recorded the lowest one on the contrast.



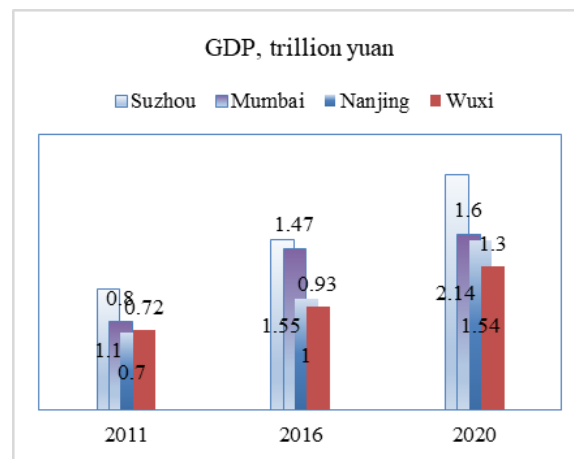
**Figure 4 The Yangzhou, Taizhou & Zhenjiang etc. Jiangsu provincial cities GDP in 2022~2023. [2]**

The Figure 5 presents that the Nantong~Yancheng GDP would realized 1.18~0.74 trillion yuan in 2023 according to the Figure 5 whose speed attained 1.7%~2.7% accordingly in the same year. Meantime the Changzhou & Xuzhou recorded the highest speed value exhibited the better economic developing speed, on the contrary the Nantong realized the lowest one expressed the weaker economic developing situation. However, the Nantong & Changzhou maintained highest GDP value with more than 1 trillion yuan so that it explained that the more developed economic level had been completed by them then.



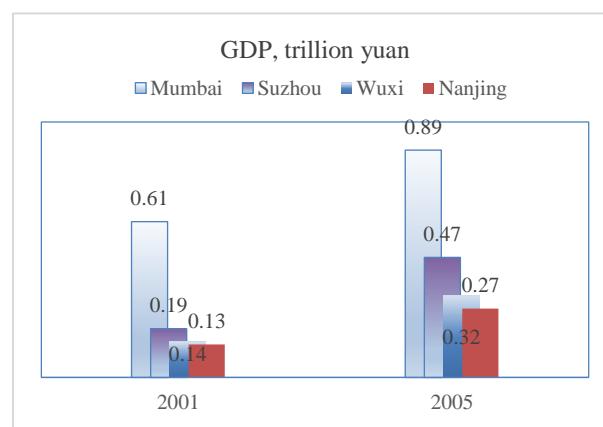
**Figure 5 The Nantong~Yancheng etc. Jiangsu provincial cities GDP in 2022~2023. [3]**

The Figure 5 presents that the Suzhou~Wuxi GDP would realized 2.1~1.3 trillion yuan in 2020 according to the Figure 6 whose speed attained 38%~54% accordingly in 2016~2020. Meantime the Nanjing recorded the highest speed value exhibited the best economic developing speed, on the contrary the Mumbai realized the lowest one expressed the weak economic developing situation. However, the Suzhou & Mumbai & Nanjing maintained highest GDP value with more than 1.5 trillion yuan so that it explained that the more developed economic level had been completed by them then. [3]



**Figure 6 The Mumbai~Wuxi etc. Jiangsu provincial cities GDP in 2011~2020. [3]**

In Figure 7 the Mumbai~Nanjing GDP would exhibit 0.89~0.27 trillion yuan in 2005 which afford 147%~128% speed in 2001~2005 respectively. Therein, the Mumbai recorded the highest speed with 147%, on the contrary the Suzhou realized the low one with 46% in those four years explained the middle one in economy development speed.



**Figure 7 The Mumbai~Nanjing etc. Jiangsu provincial cities GDP in 2001~2005. [3]**

### 2.3 GDP per capita city listing

The GDP per capita in Chinese cities would exhibit 6,450~4,050 yuan by Kalamay~Shanghai in turns in terms of Figure 8 while the speed was attaining 5.5%~1.7% accordingly in 1986. [3] Thereby, the Kalamay could attain the highest speed explaining its strong economy status, and then the Shenzhen occupied the No. two position exhibiting its strong economy entity with stably progressive status, and then the Shanghai dominated the No. four one bringing out the middle-little level and explaining stably progressive one at the same time.

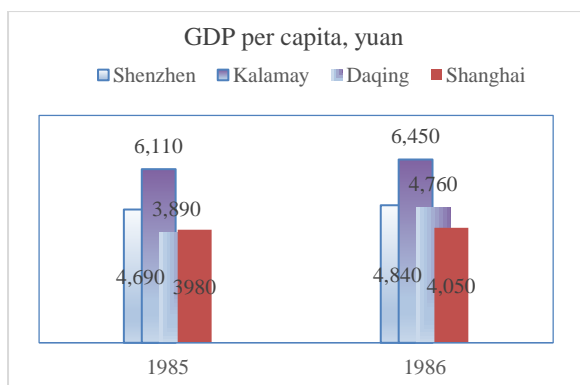


Figure 8 The GDP per capita in China city explanation.

The GDP per capita in Chinese cities would exhibit 4.2~3.0 ten yuan by Kalamay~Shanghai in turns in terms of Figure 9 while the speed was attaining 18%~12% accordingly in 2000. [3] Thereby, the Daqing could attain the highest speed with 40% amount explaining its strong economy status, and then the Shenzhen occupied the No. three & four position with its 12% year-over-year exhibiting their strong economy entity with stably progressive status in 2000. Herein, the Daqing dominated the No. two one bringing out the highest level and explaining highest progressive one at the same time.

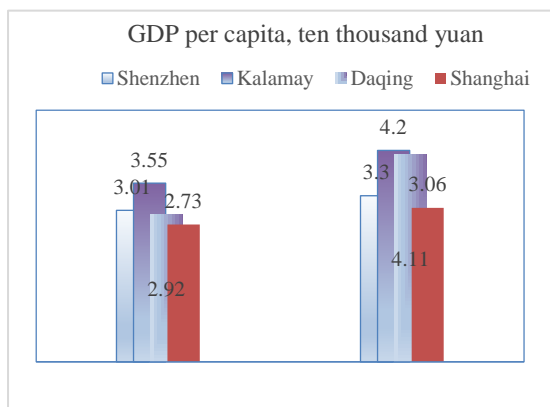


Figure 9 The GDP per capita in China cities explanation in 1999~2000.

The GDP per capita in China cities explanation would exhibit the status from 2009 to 2010 in details which may discuss as below statement. The GDP per capita in those cities would exhibit 9.2~8.1 ten thousand yuan by Ordors~Shanghai in turns in terms of Figure 10 while the speed was attaining 16%~8% accordingly in 2010. [3] Thereby, the Ordors could attain the highest speed with 16% amount explaining its strong economy status, and then the Dongying and Zhuhai occupied the No. two & three position with its more than 10% year-over-year exhibiting their strong economy entity with stably progressive status in 2009~2010.

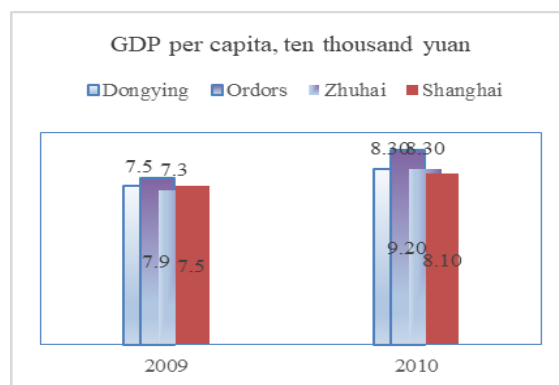


Figure 10 The GDP per capita in China cities curve explanation in 2009~2010.

### 3. Conclusions

The cutting-edge-field research and development would need many engineers to participate, so their education and development might become an important task in front of us. We should carefully educate and judge their capacity to proceed a certain target for them to process and then the achievement will be clarified which may become an achievement criterion to choose the fitting fellows and engineers in a unit. Before their work starting the introduction train will be processing within a certain time, so they may be familiar to knowledge and technological skill which has been convenient to be entry the work stage in a unit after some periods. So after their entry position they may be proceeding some design work firstly and then they can become R & D main deputy-manager even manager who may lead that kind of work eventually. Moreover, the working atmosphere will be arranged with clean, low-noise etc. aspects and their salary and welfare like house and dinner-room could provide the better conditions. Afterwards, they will do their best to retain a competitive state to process their research & development activities and make good achievement for continuously maintaining their open positions. On the other side, after ten or twenty years the bonus will be earned through other financial opportunity like fund and collection, here the stocks change will earn much capital so we need to know its rule for earning some money. And then the monitoring role will be necessary and essential for our financial healthy development which may influence the whole economic level finally and sustainably.

#### Foundation

This paper was supported by the Korean Science & Engineering Fund, under the Granted No. 96-0300-11-01-3 with the Specified Basis Research Programme.

#### Conflict of Interest

The authors declared that there were not conflicts of interest to disclose.

### References

1. Tencent News, Apr. 25, 2025, Internet
2. News, Apr. 25, 2025, Internet
3. GDP ranking, News, Apr. 25, 2025
4. GDP per capita, News, Apr. 25, 2025

5. News, May 5, 2025, Internet

6. News, May 4, 2025, Internet