

UAI JOURNAL OF MULTIDISCIPLINARY & CULTURAL STUDIES

(UAIJMCS)



Abbreviated Key Title: UAI J Mult Cul Stu.

ISSN: 3049-2351 (Online)

Journal Homepage: <https://uaipublisher.com/uaijmcs-2/>

Volume- 2 Issue- 1 (January- February) 2026

Frequency: Bimonthly



An Innovation Searching for Boosting GDP Value Enhancement with the Asian & European Top Nations and Chinese & Japanese Ones by Sustainability

Run Xu^{1*}, Wanhao Wu², Guanghui Yu²

¹ Gyeongsang National University, School of Nano New Materials Engineering, Jinju-Si 52828, Gyeongsanganm-Do, South Korea

² Yantai Institute of Technology, Economics and Management Dept., Yantai 264005, Shandong Province, China

Corresponding Author: Run Xu

ABSTRACT

This highlights the significant regional disparities in economic growth rates across different provinces and countries. Guangdong's strong performance underscores its leading role in driving national economic development, while Henan's rapid expansion reflects the growing momentum in central China. In contrast, Saudi Arabia's relatively slower growth suggests external factors may be constraining its economic pace, despite favorable conditions in other areas. The data collectively indicate that inland provinces like Sichuan and Henan are catching up, contributing to a more balanced national growth pattern. Meanwhile, coastal regions continue to innovate their dedicated the advantage of geography aspect to the coastal regional economy development continuously through widely transacting the foreign trade with multi-countries relationship in shipments. We believe that the whole China included coastal and internal regions will bring out a balance development between them through the cooperative method like transferring the super-voltage electricity from the west to east and north supported by south through the new energy equipment like wind turbine and solar panel generator and nuclear generation. We may erect more those new energy industries with a long-term strategic plan to maintain our high-level cutting-edge-field capacities for the sake of continually developing modern society request in future with high-profitable ones by our scientist and engineers. Thereby those new energy ones may create more additional value industrial positive development from now to more than thirty years by experimental laboratory to application products gradually and eventually. That will make our world more conveniently and efficiently following the potential difficult joints resolved constantly by plenty our senior engineer and scientists endeavour. Therein the more promise future will be formed under emerging high-technique skill and product frequently and sustainably that will highlight our hope and target in future. Hence the GDP value for a nation is able to frequently be enhanced and promoted according to the both of the historical steps and modern requests. Because we have the sharp weapons to make all around the AI (artificial intelligence) application, Robots making, battery reserved-energy technique, big plane making and exploring the out-space etc. many aspects. All of those need us to work closely and collaboratively so as to solve the current difficult problem and open a new inter-disciplinary and crossing-disciplinary subjects for us to process and develop continuously.

Keywords: boosting GDP value increasement; Asian & European GDP; Chinese & Japan Nations; innovation research; sustainably

1. Introduction

The GDP (gross domestic product) which indicates national economic status has provided an important role in every aspect in the world. So that the population increasing rate would be maintained for the sake of raising high-technique product with the entire industrial chain constantly which might enhance our new-quality-productivity. Hence we should consider the effective factors for example the population quantity, new quality productivity with high-technique etc. Like big plane electric vehicle battery AI robot quantum computer medicine making disease diagnosis AI(artificial intelligence) ocean source space exploration etc. other ones. Low population is enable to offer high life & quality with improving GDP per capita value. Meanwhile, it can enhance the national whole GDP value and help us to boost the economic recovery and many things to do. So the certain population is about to improve our national confidence some degree and make us to become priority one as early as possible even the super-country to lead the world to leadership right.

In contrast, the GDP increasing rate may play a significant role with regulating population increasing rate mutually and cooperatively. Hence the two aspects may be emphasized and paid attention to in thriving the whole national economic developed degree through enough wielding our generations positively and efficiently by our government institution endeavor and evaluation. For the sake of making relevant policies and allocating capital into the necessary industries the corresponding strategic plan needs to be made under various background and entities. Then the according monitor and estimation will be followed and estimated periodically and frequently by the observer in government’s institution. At last as to the developed speed in one nation the corresponding population increasing quantity and high-technique product producing will be discussed and considered more preciously and correctly according to the near past years experience and variation.

Therefore, the high-technique products will be completed through wielding our scientist & senior Engineers coordination tightly for the sake of reviving the industrial and tertiary modernization. We should constantly look for and seek the new quality productivity sustainably so as to take place of our traditional industry becoming modernity. An innovation industry like new energy electric generator will be in front of our path forwards, so that the corresponding tactic must be put up and seek the opportunity and fortune in order to burden our responsibility quickly and not to forget recommend the fitting one to appoint new occupation. Like the Bole identified horse or Maosui self-recommended the recommendation will be represent one aspect for our human resource department to consider and evaluate the recommended included a full research room with a set of computer high-technique instrument & device, subordinate, subsidiary staff, salary, house, welfare etc. a series of work so as to appoint his new occupation reasonably and willingly. [1~15]

2. Discussions

The auto-maker sale amount will represent one nation mechanical industry strength as an entity, thereby the importance may become very significant in futural development course. So the request can be more and more even by individual family or person who has a willing to buy the vehicle for convenient travel with his family in weekend and vacation. With regards to the promoting live in future there will be more requirement for clients to buy the new power vehicle which may be diversified into very detail difference. So our engineers and scientists need to process more new advance one to

exhibit into general market that will cause a bigger talking about with emerging technology like autonomous-driving function. On the other side, we should classify and verify the high-technology as a tool for us to take the GDP enhancement so as to progress our modernization and industrialization step more advanced. So let our scientist and engineers find more convenient functional chips and hardware for the sake of utilized in modern industry making flow-line automatically. At the end through our top experts checking those new AI(artificial intelligence) and automatic products applied to detailing diversity flow-line to make an entire vehicle with robotic labour and automatic-flow-line sustainably.

2.1 Asian & European top nations GDP ranking

The Asian & European top nations GDP and y-y value in 2017~2018 showed about 14~2.8 trillion dollars by China ~Britain in 2018 respectively in light of Figure 1 indicated the China strong economy situation whilst the y-y value attained 8% & 3% accordingly by them expressed their normal development speed generally.

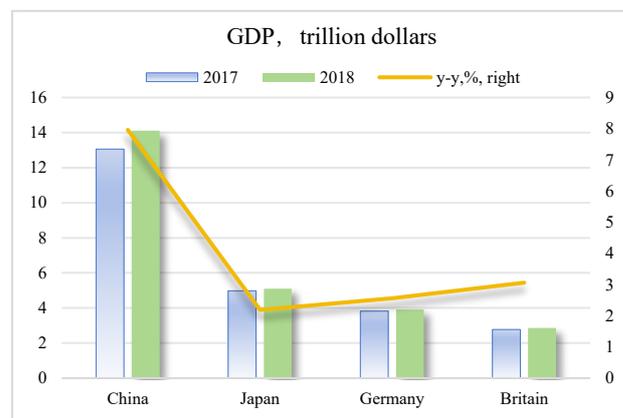


Figure 1. The Asian & European top nations GDP and y-y value. [1]

The Asian & European top nations GDP and y-y value in 2019~2022 showed about 8~4 trillion dollars by China ~Japan in 2022 respectively in light of Figure 2 indicated the China strong economy situation whilst the y-y value attained 8% & 3% accordingly by them expressed their more normal development speed generally.

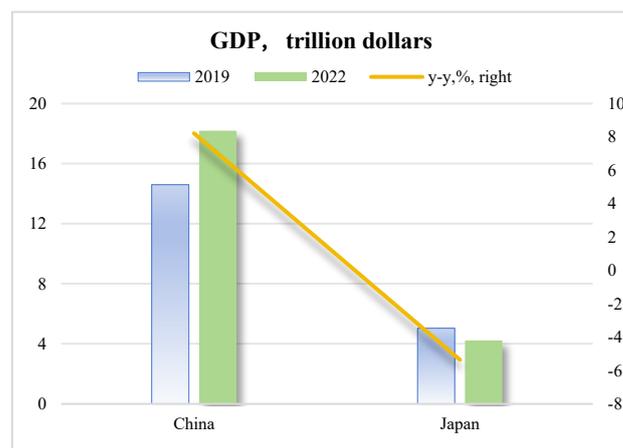


Figure 2. The China & Japan’s GDP and y-y value.

Moreover, the Asian & European top nations GDP and y-y value in 1961~1962 showed about 79~80 billion dollars by France ~Germany in 1962 respectively in light of Figure 3 indicated their strong economy situation whilst the y-y value attained 15% & 13% accordingly by them expressed their faster development speed generally.

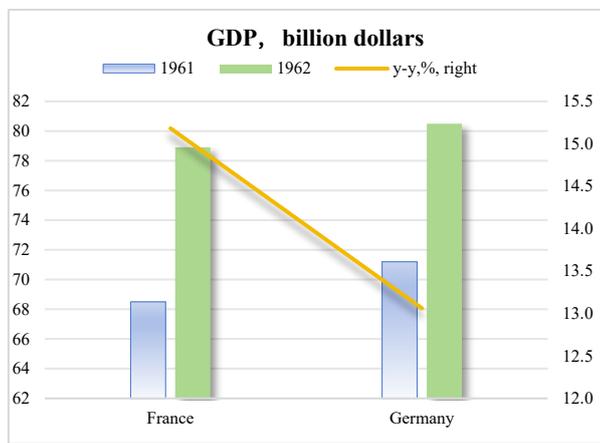


Figure 3. The France &Germany’s GDP and y-y value in 1961~1962.

Furthermore, the Asian &European top nations GDP and y-y value in 1961~1962 showed about 43~53 billion dollars by India ~Italy in 1962 respectively in light of Figure 4 indicated their strong economy situation whilst the y-y value attained 12% &18% accordingly by them expressed their faster development speed generally.

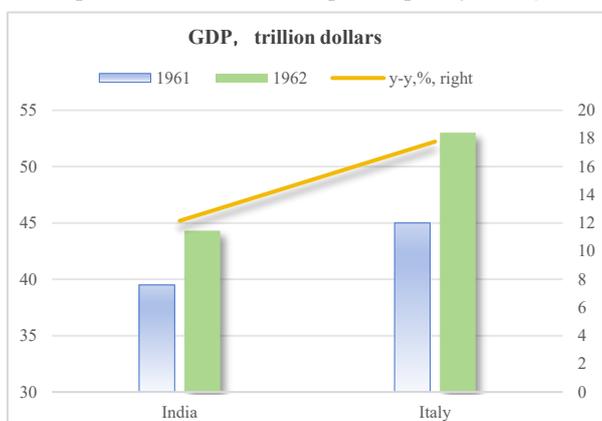


Figure 4. The India &Italy’s GDP and y-y value in 1961~1962.

2.2 China &Japan GDP comparison

The Asian &European top nations GDP and y-y value in 1961~1962 showed about 64~49 trillion dollars by Japan~China in 1962 respectively in light of Figure 5 indicated their strong economy situation whilst the y-y value attained 17% &-1.5% accordingly by them expressed the Japan faster development speed generally.

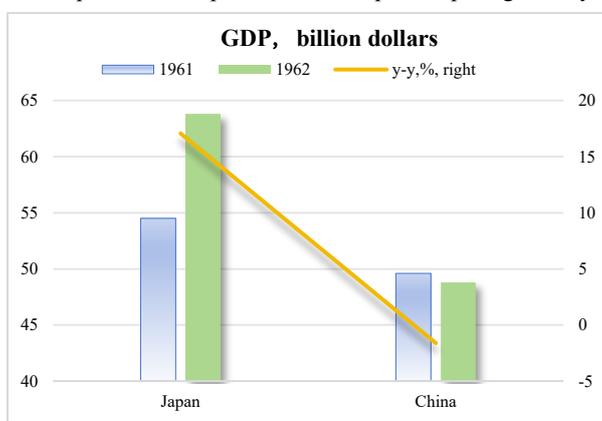


Figure 5. The China &Japan’s GDP and y-y value in 1961~1962. [2]

Moreover, the Asian &European top nations GDP and y-y value in

1961~1962 showed about 226~83 trillion dollars by China ~Japan in 1962 respectively in light of Figure 6 indicated the China strong economy situation whilst the y-y value attained 8% &6% accordingly by them expressed their more normal development speed generally.

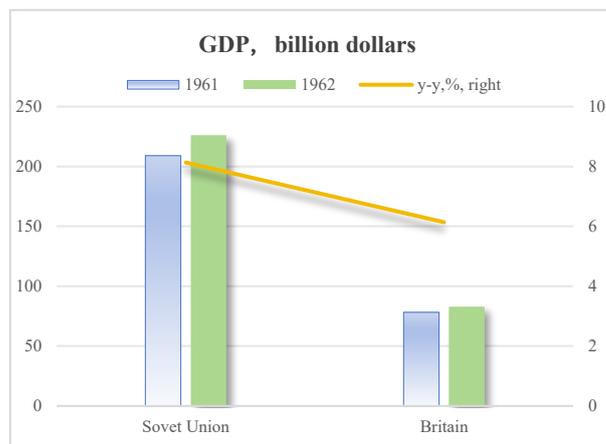


Figure 6. The Soviet Union &Britain’s GDP and y-y value in 1961~1962.

Summarily, the high-technique product can create the more advanced one for serving to people conveniently, thereby we must fast look for the track of new phenomenon and theoretic proof so as to quickly grasp new one sustainably. Only if we master enough new ones we can avoid going around the longer path with wasting much time and labour. Therefore, we should investigate detailing documentary materials frequently and know the one thing tendency with regulating all over our prior research and development in a library. We should fast occupy the advantage one and then the labor will become more brilliant. Let us continue make a good and new thing everyday. At the same time, the request research and project can wield more innovative loop and then it pushes the GDP value to make an increasing every year. [16~18]

3. Conclusions

This highlights the significant regional disparities in economic growth rates across different provinces and countries. Guangdong's strong performance underscores its leading role in driving national economic development, while Henan's rapid expansion reflects the growing momentum in central China. In contrast, Saudi Arabia's relatively slower growth suggests external factors may be constraining its economic pace, despite favorable conditions in other areas. The data collectively indicate that inland provinces like Sichuan and Henan are catching up, contributing to a more balanced national growth pattern. Meanwhile, coastal regions continue to innovate their dedicated the advantage of geography aspect to the coastal regional economy development continuously through widely transacting the foreign trade with multi-countries relationship in shipments. We believe that the whole China included coastal and internal regions will bring out a balance development between them through the cooperative method like transferring the super-voltage electricity from the west to east and north supported by south through the new energy equipment like wind turbine and solar panel generator and nuclear generation. We may erect more those new energy industries with a long-term strategic plan to maintain our high-level cutting-edge-field capacities for the sake of continually developing modern society request in future with high-profitable ones by our scientist and engineers. Thereby those new energy ones

may create more additional value industrial positive development from now to more than thirty years by experimental laboratory to application products gradually and eventually. That will make our world more conveniently and efficiently following the potential difficult joints resolved constantly by plenty our senior engineer and scientists endeavour. Therein the more promise future will be formed under emerging high-technique skill and product frequently and sustainably that will highlight our hope and target in future. Hence the GDP value for a nation is able to frequently be enhanced and promoted according to the both of the historical steps and modern requests. Because we have the sharp weapons to make all around the AI (artificial intelligence) application, Robots making, battery reserved-energy technique, big plane making and exploring the out-space etc. many aspects. All of those need us to work closely and collaboratively so as to solve the current difficult problem and open a new inter-disciplinary and crossing-disciplinary subjects for us to process and develop continuously.

Funding

This work was supported by the Korean Science & Engineering Fund (KSEF) under the granted No. 96-0300-11-01-03 with the Specified Basis Research program.

Ethic Declarations

The authors declared that there were not conflicts of interest.

References

1. China Tianjin & Qingdao GDP and y-y value, Jan. 19, 2026
2. China GDP overview in 2025, Tencent News, Wechat, Jan. 19, 2026
3. Run Xu, Zhiqing Chen, Technological Analysis on Motor Stall and its Perspective [J], Electrical Science & Engineering, 2020, April 02 (1):26~29, DOI: <https://doi.org/10.30564/ese.v2i1.1773> **Google Scholar, CrossRef, Scilit, Cnki**
4. Run Xu, Zhiqing Chen, The Study on Simulation of Resistance in Stall Motor [J], Journal of Electronic & Information Systems, 2020, April 02 (1):18~20, DOI: <https://doi.org/10.30564/jei.s.v2i1.2045> **Google Scholar, CrossRef, Scilit, Cnki**
5. Run Xu, An Innovation Searching for Prospering Economy GDP Enhancement with Osaka & Shanghai and Hong Kong Cities & Shandong and Fujian Provinces on Scientists' Analyzing Behavior and Judgement by Sustainability, UKR Journal of Economics, Business and Management, Volume 1, Issue 10, 2025, 303~307 **Impact factor 4.33**
6. Run Xu, An Innovation Searching for Prospering Financial Reformation e.g. ETF and Economy GDP Enhancement with Indian Cities & Shandong and Fujian Provinces on Scientists' Analyzing Behavior and Judgement by Sustainability, UKR Journal of Economics, Business and Management, Volume 1, Issue 10, 2025, 308~313
7. Run Xu, An Innovation Searching for Prospering Financial Reformation e.g. ETF and Economy GDP Enhancement with G20 Group etc. on Scientists' Behavior and Judgement with Sustainability, UKR Journal of Economics, Business and Management, Volume 1, Issue 10, 2025, 184~188 **Impact factor 4.33**
8. Run Xu, An Innovation Searching for Prospering Financial Reformation e.g. ETF and Economy GDP Enhancement with Hubei & Hunan Provinces on Scientists' Published Behavior and Judgement by Sustainability, UKR Journal of Economics, Business and Management, Volume 1, Issue 10, 2025, 204~208 **Impact factor 4.33**
9. Run Xu, The Relationship of Properties with Variable Mass of Block on Crank Linkage Mechanism in Multibody System, (American) SunText Review of Material Science, 2021, S1: 105 **Crossref, Goolge scholar Impact factor 2.6**
10. Run Xu, Boyong Hur, A Simulation between Torque and Angle with Speed on Five Freedoms of Robot Mechanical Arm in Multibody Systems, Saudi Journal of Civil Engineering, 2021, 5(5): 91~93 **Impact factor 1.2**
11. Run Xu, Boyong Hur, The Relationship between Force and Time with Lagrange Equation by Regulating Piston Mass on Crankshaft of Vehicle, Saudi Journal of Engineering and Technology, 2021, 6(4): 73-76 **Impact factor 1.2**
12. Run Xu, Jiaguang Liu, The Kinematics Model Establishment of Crank and Linkage with Time under Low Speed in Vehicle, 2021, 6(4): 67~72, Saudi Journal of Engineering and Technology, 2021, 6(4): 57~61, DOI: 10.36348/sjet,2021,v06i04,004 **Impact factor 1.2**
13. Run Xu, The Kinematic Models of Crank with Angle and Time in Motor Housing Process, (American) SunText Review of Material Science, 2021, S1: 104, DOI: <https://doi.org/10.51737/2766-5100,2021,S1,004> **Impact factor 2.6, Scilit, Crossref, Google Scholar**
14. Run Xu, The Modelling between Force & Torque and Crank Angle on Crank Linkage of Engine in Vehicle by Lagrange Formula I, Scholars International Journal of Chemistry and Material Science, 2021, 4(4): 36-39, DOI: 10.36348/sijcms,2021,v04i04,005
15. Run Xu, The Dynamic Modelling of Vortex Axis Blade between Speed, Force and Rotation under Variable Angle & Power in Helicopter, (American) SunText Review of Material Science, 2021, S1: 103
16. Run Xu, The Study of Relationship between Current and Acceleration on Simulation in Motor, (American) SunText Review of Material Science, 2021, S1: 101, **Impact factor 2.6, Scilit, Crossref, Google Scholar**
17. Run Xu, Xianglan piao, Changfu Jin, Boyong Hur, Sugun Lim, Wanhao Wu, Guanghui Yu, Enji Li, An Innovation Searching for Retrieving Nuclear-Energy Generating Electricity Amount's GDP Enhancement Variations, Additionally the Nuclear Bomb Amount by Sustainability, UAI J Mult Cul Stu., Volume-2 Issue-1 (January~February) 2026, 45~48
18. Run Xu, An Innovation Searching for Prospering Financial Reformation like Stock's Sectors Increasing Amount and Economy GDP & its Per Capita Enhancement on Scientists Sustainably, UKR Journal of Economics, Business and Management, Volume 1, Issue 10, 2025, 153~157