

# An Innovation Searching for Prospering Financial Reformation e.g. ETF and Economy GDP Enhancement with High-Speed Train Milage on Scientists' Published Behavior and Judgement through Sustainability

Run Xu<sup>1</sup>, Changfu Jin<sup>2</sup>, Wanhai Wu<sup>3</sup>, Yonggen Wu<sup>3</sup>, Tao Yu<sup>3</sup>, Tianyi Yan<sup>4</sup>, Zhenguo Li<sup>5</sup>

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

<sup>2</sup> Yanbian University, Dept. of Mechanical engineering, Yanji 133000, Jilin Province, China

<sup>3</sup> Yantai University, Faculty of Electron-mechanical & Automotive Engineering, Yantai 264005, Shandong Province, China

<sup>4</sup> Qingdao University, School of Electron-mechanical Engineering, Qingdao 266071. Shandong Province, China

<sup>5</sup> Yanshan University, School of Electric Engineering, Yanshan 066004, Hebei Province, China

\*Corresponding Author: Run Xu

DOI: <https://doi.org/10.5281/zenodo.18098716>

Article History	Abstract
Original Research Article	
Received: 12-12-2025	
Accepted: 22-12-2025	
Published: 30-12-2025	
<p>Copyright © 2025 The Author(s): This is an open-access article distributed under the terms of the Creative Commons Attribution 4.0 International License (CC BY-NC) which permits unrestricted use, distribution, and reproduction in any medium for non-commercial use provided the original author and source are credited.</p>	<p><i>The ETF as an important financial tool will wield its effectiveness continually in stocks market and fund dealing with investors. Meantime, it has the advantage e.g. construction narrating and common burden risk two ones which own the low cost and high transparency. So it has the personality and market relationship so as to avoid future big risk mainly. It is included in Zhifubao &amp; Wechat as a service item for us to use and invest for satisfying our enhancing request day by day. Thereby, the financial reformation like ETF as a funds enables to educate in subject for learner to grasp its content so that he can process funds dealing behavior. It has an advantage pursuit in an exchange and for decreasing risk somewhat with portfolio concept. Moreover it may trace one defining index like Hushen 300 index representing all the composition ones with that index of 300 ones actively in exchange. On the other side, the national &amp; regional GDP with different ones can monitor the entire economy activities within one year and more than one year like ten years. As for enhancing that one the economy activities including consuming business behavior and working at advanced factories for earning money and even retirement salary simultaneously. Thereby the working position will become an important thing for us to earn more money for the sake of using after retirement. Certainly our consuming behavior can increase the goods quantity and quality that may activate economic thriving one. Thereby enhancing GDP has to promote high-technology product with owning a better beneficial price for us to earn more money for stabilizing our old years. Please try to consider if one has no enough money how he may live normally and happily many years later, hereby we must put our capital into the Social Security Bureau with enough money and time more than 20 years. At the same time the scientist must write their papers continually to famed journal so as to maintain some achievement in research activity. Hence he may acquire titled as an academician in China academy of Science &amp; Engineering maintaining a permanent title which may carry out bonus permanently per month after he becomes old. We must continually process our research on innovation field to find new phenomenon and project in detail subject. Don't forget to cooperate with others already grasping some internal cause-effect relation to enlarge the relevant skill into products which may bring in new wind on the searching route of technology.</i></p>
<p><b>Citation:</b> Run Xu, Changfu Jin, Wanhai Wu, Yonggen Wu, Tao Yu, Tianyi Yan, Zhenguo Li, (2025). An Innovation Searching for Prospering Financial Reformation e.g. ETF and Economy GDP Enhancement with High-Speed Train Milage on Scientists' Published Behavior and Judgement through Sustainability. UKR Journal of Economics, Business and Management (UKRJEBM), Volume 1(10), 320-325.</p>	<p><b>Keywords:</b> prospering economic GDP enhancement; financial reformation; ETF; innovation; scientist; sustainably; High-Speed train milage.</p>

## 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. [1~8]

## 2. Discussions

The GDP might be significant with exciting our scientist and engineers confidence for the sake of enhancing our high-technology product constantly with an innovation view. As knew it can take up new industrial innovative result for us to pursuit and grasp knowledge and experience armed by new technology spirituality which may last long time until next generation innovation exhibition completely and clearly. We can image the world one hundred years later we know some scenarios from the novel story and movies. There will be many ship-crafts that is to be created with advance technology and they fly from one place to another for the sake of completing save human mission. Maybe our earth-out-space &planet will be conquered somewhat so as to save earth resource and safe they have to transit into near planet for the reserving another route once the earth risk occurring we must get away the earth, or we will die in earth. No matter what will be we primarily seek to enhance our industrial product for promoting our GDP value, that is best way to want doing firstly. [9~16]

### 2.1 Analysis of the Advantages of ETF

It has been an examination of financial Instruments from an Interdisciplinary Perspective. [1] In the context of the increasingly complex contemporary financial system, exchange-traded funds (ETFs), as an innovative financial instrument that combines the characteristics of funds and stocks, have gradually become an indispensable investment vehicle in the capital market. Although they are essentially financial products, when viewed from the dimensions of literature and social cognition, the "structured narrative" and "risk-sharing mechanism" embodied by ETFs are like a modern economic life allegory. Their advantages not only lie in the technical aspect but also contain profound social psychology and institutional logic. Firstly, ETFs possess a significant risk diversification function, which forms the core "safety narrative" of them. By purchasing a broad-based ETF, investors actually hold a basket of stocks of listed companies. For instance, the CSI 300 ETF covers the 300 most representative large enterprises in China. This "de-individualized" investment approach effectively avoids the "tragic collapse" caused by the failure of corporate governance or industry fluctuations of a single stock, just like the buffering effect of collective fate on individual fate in literary works. Under the deepening of the registration system reform and the trend of regular delisting, this characteristic is particularly valuable. Secondly, the low

cost and high transparency of ETFs form the cornerstone of the "rational narrative". Management fees are generally lower than 0.5% per year, much lower than those of active funds; and the holdings are disclosed daily, and the net value can be checked in real time, eliminating the risk of "black box operations". This transparency aligns with the psychological demands of modern investors for fairness and the right to know, just like the "open-ended interpretation" of a text, granting market participants equal information status. Thirdly, the flexible trading mechanism of ETFs is flexible, combining T+0 and T+1 systems, covering various asset categories such as stocks, bonds, cross-border, and commodities, forming a "multi-part symphony" of asset allocation possibilities. Especially for retail investors lacking professional analytical capabilities, ETFs provide a "convenient channel" to the global market. For example, the Nasdaq ETF enables domestic investors to share the technological dividends of the United States, reflecting the trend of financial democratization. Fifthly, the tax advantages of ETFs, such as exemption from stamp duty and no income tax after dividends, constitute the key joints of its "efficiency narrative". Such institutional design reduces transaction friction and improves capital circulation efficiency, reflecting the policy layer's incentive orientation towards long-term investment behavior. In conclusion, ETFs are not only the product of financial engineering but also the concrete expression of rationality, fairness and efficiency values in the modern context. Their advantages lie not only in the superiority of technical parameter, but also in reshaping the relationship between individuals and the market, providing a stable and poetic response to the uncertainty era.

## 2.2 High-speed-train mileage ranking

The High-speed-train mileage top eight ranking showed 3,437Km~2,386Km by Guangzhou~ Liaoning provinces in 2025 in terms of Figure 1 exhibited the Guangzhou etc. strong transit capacity correspondingly. At the same time, the Shandong & Anhui ones following Guangdong one became the second and third position with 3,055Km and 2,971Km of high-speed train in 2025.

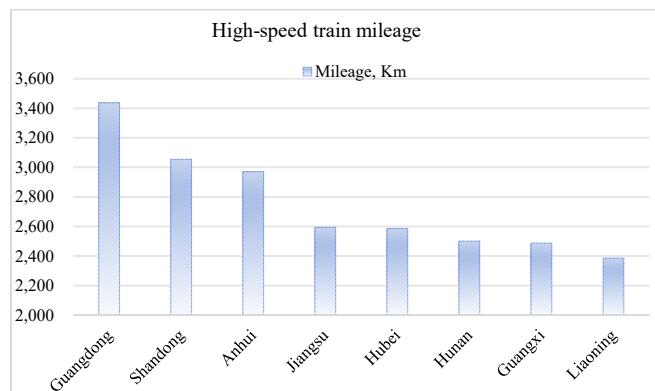


Figure 1. The High-speed-train milage top eight ranking [2]

Furthermore, the High-speed-train milage top nine~sixteen ranking showed 2,322Km~1,808Km by Zhejiang~Guizhou provinces in 2025 in terms of Figure 2 exhibited the Zhejiang etc. strong transit capacity correspondingly. At the same time, the Jiangxi & Henan ones following Zhejiang one became the tenth and eleventh position with 2,286Km and 2,263Km of high-speed train in 2025.

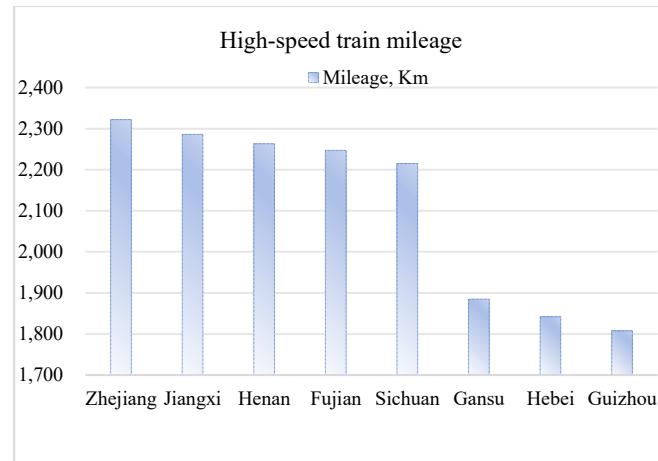


Figure 2. The High-speed-train milage top nine~sixteen ranking [2]

At last, the High-speed-train milage top seventeen~twenty-four ranking showed 1,501Km~653Km by Heilongjiang~Hainan provinces in 2025 in terms of Figure 3 exhibited the Heilongjiang etc. strong transit capacity correspondingly. At the same time, the Shanxi & Yunnan ones following Heilongjiang one became the eighteenth and nineteenth position with 1,359Km and 1,212Km of high-speed train in 2025.

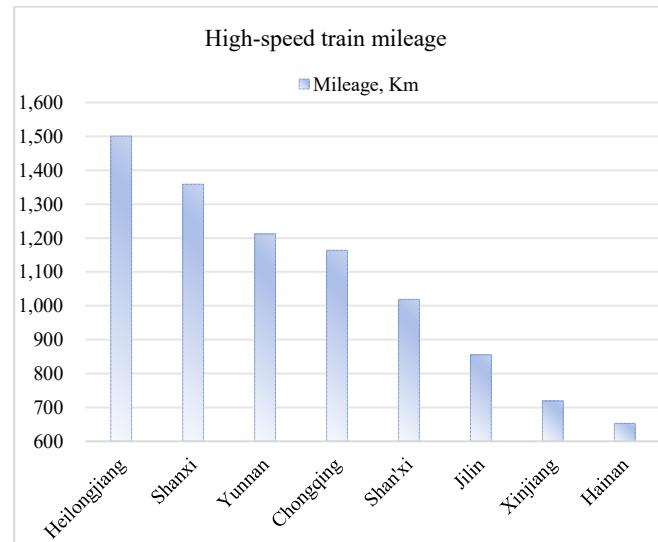


Figure 3. The High-speed-train milage top seventeen~twenty-four ranking [2]

## 2.3 Stocks change in market

The sectors increasing amount tendency would show that <Big plane>~<Horse-race concept> realized 3%~2.8% accordingly in terms of Table 1 with the big main-force net amount and capital.

Table 1 The sectors increasing amount tendency. [3]

Name	Increasing amount, %	Main force net amount	Main force capital, billion yuan
Big plane	3.0	0.22	14.6
Military electron	2.9	-0.6	-6.3
Satellite navigation	2.8	1.3	46
Horse-race concept	2.8	2.45	2.3

## 2.4 The ETF vs. General stock variation

The ETF vs. general stock variation showed total five aspects like feature, general stock &ETF differences like in Table 1 to express the EFT the advantages compared with the stocks. The diversifying risk, stamp duty &judging tendency will become advantaged in total.

Table 1. The ETF vs. General stock variation. [4]

Feature	General stocks	ETF
essence	Represent a company ownership	Represent a basket security (stocks、bonds) ownership
risk	Risk concentration (company bankrupt returning to zero)	Diversify risk (a basket capital, eggs not put on only one)
exchange	T+1 exchange (A stocks)	Like stocks exchange, part types support T+0 (sell &buy within one day)
expense	Buy &sell only needing to pay stamp duty	Exempt stamp duty, exchange commission usually lower
Investment difficulty	Need to search for company financial report、business	no need to choose, only judge big sector and business tendency

In short, the high-technology product will meet our modernized requirement day by day, so our experimental laboratory and factory research &development departments would continually produce the innovation ones for us to share and enjoy from now on. Firstly the former will look forwards to finding some new things like new function and materials procedure, and secondly the mature ones will be transforming into factory to trial sample towards the customer downstream maker and dealer, then thirdly the new product may be pushed into market and consumer in the end. Thereby the more sophisticated and advanced function and lowering cost, enhancing effect path and measure still will be searched for sustainably. [12~18]

## 3. Conclusions

The ETF as an important finance tool will wield its effectiveness continually in stocks market and fund dealing

with investors. Meantime, it has the advantage e.g. construction narrating and common burden risk two ones which own the low cost and high transparency. So it has the personality and market relationship so as to avoid future big risk mainly. It is included in Zhifu Bao &Wechat as a service item for us to use and invest for satisfying our enhancing request day by day. Thereby, the financial reformation like ETF as a funds enables to educate in subject for learner to grasp its content so that he can process funds dealing behavior. It has an advantage pursuit in an exchange and for decreasing risk somewhat with portfolio concept. Moreover it may trace one defining index like Hushen 300 index representing all the composition ones with that index of 300 ones actively in exchange. On the other side, the national &regional GDP with different ones can monitor the entire economy activities within one year and more than one year like ten years. As for enhancing that

one the economy activities including consuming business behavior and working at advance factories for earning money and even retirement salary simultaneously. Thereby the working position will become an important thing for us to earn more money for the sake of using after retirement. Certainly our consuming behavior can increase the goods quantity and quality that may activate economic thriving one. Thereby enhancing GDP has to promote high-technology product with owning a better beneficial price for us to earn more money for stabilizing our old years. Please try to consider if one has no enough money how he may live normally and happily many years later, hereby we must put our capital into the Social Security Bureau with enough money and time more than 20 years. At the same time the scientist must write their papers continually to famed journal so as to maintain some achievement in research activity. Hence he may acquire titled as an academician in China academy of Science &Engineering maintaining a permanent title which may carry out bonus permanently per month after he becomes old. We must continually process our research on innovation field to find new phenomenon and project in detail subject. Don't forget to cooperate with others already grasping some internal cause-effect relation to enlarge the relevant skill into products which may bring in new wind on the searching route of technology.

## 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 to disclose.

## References

1. Generative, qianwen.com, Quark
2. High-speed-train milage ranking, Wechat, Dec. 24, 2025
3. TOPCJ, Dec. 25, 2025
4. ETF Generative I, Quark
5. Run Xu, Modelling of Parameters with K, K2, N & M for Superplastic Deformation in TiAl Alloys, 2023, TESS Res Res Rev. 2(1): 111. **SCOPUS**
6. Run Xu, The Relationship between Constant A/D<sub>p</sub> and Activated Energy Q & Parameters in Creep Experiment of TiAl Alloys, 2023, TESS Res Res Rev. 2(1): 139. **SCOPUS**
7. Run Xu, The Regression Formula between Crack Propagation  $da/dn$  and Threshold  $\Delta K$  in Experiment of Fatigue Crack Growth Rate, TESS Res Res Rev, 2023, 2(1): 136 **EI, SCOPUS**
8. Run Xu, A Study of the Schmid Factor in Defaults of Ti<sub>3</sub>Al-Nb Intermetallic Compounds, TESS Res Res Rev, 2023, 2(1): 107 **EI, SCOPUS**
9. Run Xu, Dynamics Equations of Power and Force on Wind Speed and Pitch Angle Parameters of Wind Turbine Blades, TESS Res Res Rev, 2023, 2(1): 108 **EI, SCOPUS**
10. Run Xu, Boyong Hur, NS Reddy, TH Nam, Younwook Kim, A Study of Dislocation and Twins in Deformation of Ti<sub>3</sub> Al-Nb Intermetallic Compounds, International Journal of Engineering Inventions, 2023, 12(3): 35-38 **Google Scholar, ESCI, Impact factor 7.2**
11. Run Xu, Kiwon, Kim, N Subba, Reddy and Younwook Kim, The Morphology of Gradient and Growing Rate on the Solidification of TiAl Intermetallic Compounds, TESS Res Res Rev, 2023, 2(1): 108.
12. Run Xu, Anh HJ, Kim K, Influence of Directionally Solidified Parameters with Drawing Velocity on Behaviours of  $\gamma$ -Tial, SunText Rev Mat Sci 2023, 4(S1): 151 **Impact factor 2.6, Scilit**
13. Run Xu, Ahn HJ, Yong HB, Kim YW, The Dislocation and Twins on Deformation Behaviours by Calculating DS in  $\gamma$ -Tial, SunText Rev Mat Sci 2023, 4(S1): 152 **Impact factor 2.6, Scilit**
14. Run Xu, Boyong Hur, HJ Ahn, N S Reddy, KW Kim, Younwook Kim, Study of Dislocation in Crystallography of TiAl Intermetallic Compounds, International Journal of Engineering Inventions, 2023, 12(2): 98-101. **Google Scholar, ESCI, Impact factor 7.2**
15. 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**
16. Run Xu, An Innovation Searching for Prospering Financial Reformation like ETF and Economy GDP Enhancement with Some Various Regions on Scientists by Sustainability, UKR Journal of Economics, Business and Management, Volume 1, Issue 10, 2025, 178~183 **Impact factor 4.33**
17. Run Xu\*, Changfu Jin, Yonggen Wu, Wanhao Wu,

Tianyi Yan, An Innovation Searching for Boosting Financial Reformation e.g. ETF and Economy GDP Enhancement on Scientists' Behavior and Judgement Writing Papers by Sustainability, UKR Journal of Economics, Business and Management, Volume 1, Issue 10, 2025, 199~203 **Impact factor 4.33**

18. 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**