

THE RQ-TQ IMBALANCE PROBLEM

Author: Suresh K Maran

Founder, Director, CEO

UNITESERVE® Group of Companies

www.sureshmaran.com

www.linkedin.com/in/sureshmaran

www.uniteserve.com

IP Warning: www.uniteserve.com/ip-warning

[Released under CC BY-NC-ND 4.0 license](https://creativecommons.org/licenses/by-nc-nd/4.0/)



UNITESERVE® *Publications*

Scientific Relationism® Series

Abstract: The imbalance between advancement in relationships and technology is introduced as the RQ-TQ imbalance problem. The relationship of this to global problems such as poverty, overpopulation, and conflicts is introduced. The root cause of the RQ-TQ imbalance problem is discussed such as education, and inherent structure of the human mind, etc. References are given for further discussion. This paper is an excerpt from the introduction to the bookset of 'The Emotional and Relational foundations of human advancement'.

Contents

1	ECONOMY AND SOCIETY	2
2	RQ-TQ IMBALANCE PROBLEM.....	2
2.1	INTRODUCTION	2
2.2	RQ-TQ IMBALANCE IN POLITICAL AND ECONOMIC HISTORY.....	3
2.3	RQ-TQ IMBALANCED EVOLUTION AND POVERTY	4
2.4	IMPORTANCE OF TACKLING RQ-TQ IMBALANCE EVOLUTION	5
2.5	RQ-TQ IMBALANCE IS WORSENERD BY CURRENT EDUCATION METHODS	5
2.6	RQ-TQ IMBALANCE AS A LIMITATION OF THE HUMAN BRAIN	6
3	REFERENCES.....	7

Note: The RQ-TQ imbalance problem was introduced in the introduction to the bookset 'The Emotional and Relational Foundations of Human Advancement'. Please see reference [2] for more information. This paper is simply an excerpt from the introduction to the bookset. There are two videos available illustrating the problem links given in reference [7]. Further research regarding this is available in reference 3A

1 Economy and Society

One of the important issues we focus on in the book [2] is economic growth. We can roughly summarize economics as follows:

Economics = Technology + Relationships

Economic production is all about people getting together and working together to produce products and services using the available technology. In any economic activity, people, apart from manipulating the technological tools to produce products or provide services, rest is all relationship activity. So economic production depends very much on relationship activity.

Nowadays, technology is rapidly evolving. Innovation requires a relational environment that promotes creativity. Only a few places in the world seem to have the proper social environment for innovation. Most places in the world rapidly assimilate technological innovations available. But,

Technological skills themselves don't become productive economics.

The relational processes involved such as business teamwork, industry-consumer interaction, industry-government interaction, people-nature interaction, political processes, government-people interaction and, advertisement and sales, etc., to promote effective production and utilization of services and products to improve the overall quality of life in people, etc. are crucial. Also, stock market investment and return depend so much on relationship processes. Managing environment-people relationships is an important part of healthy economics.

Failure of technology can prevent people from solving day-to-day issues. Failure of relationships can lead to misuse of technology to be detrimental to oneself, others, and the environment. Healthy economics can also be considered as one that helps in long-term survival and good emotional well-being. The theoretical foundations and ideas in the book [2] aim to help people to balance technology and relationships in a way that promotes healthy and constructive economic development. We will discuss all factors discussed in the last paragraph throughout the bookset [2].

2 RQ-TQ imbalance Problem

2.1 Introduction

Let me now discuss how to tackle what I call the RQ-TQ imbalanced evolution, which I consider as the root cause of many major human problems throughout history and a threat to the survival of humanity. *For more up-to-date information regarding the threat of the imbalance in the advancement of*

technology and relationships, please read the authors paper “Analysis of global crises, catastrophic long-term trend, and prevention”, available online at scientificrelationism.com, researchgate.net, or academia.edu.

Despite the positive factors that nations acquire when they get richer, technology and economy grow at a faster rate than the rate of growth in relationship factors. This imbalance in growth in technology without compensating growth in relationships has led to general and deeper problems. For example, family and social networks have weakened. They have problems relating to each other in close relationships. This can be seen in high divorce rates. There is also an increase in violence, drug abuse problems, teenage pregnancy, etc. I will discuss this imbalance in detail in this section. Throughout the bookset [2], I will discuss how this problem may be the root cause of many or most major problems in the world and provide necessary ideas to solve this problem.

From section 1, we see that healthy economics needs advancement in technology and relationships. In line with this, roughly, we can split IQ (intelligence quotient) into TQ (Technical Quotient) and RQ (Relational Quotient).

$$IQ = TQ + RQ$$

We can consider technical quotient TQ to be a hypothetical measurement of overall ability in technical aspects in any field without consideration to relational aspects; Good TQ makes people good in technological capabilities. Similarly, let relationship quotient RQ is a hypothetical measurement of ability in managing relationships. For good RQ, one needs an understanding of the human mind and skills in managing it. EQ (emotional intelligence quotient) that is popular nowadays can be considered as a part of RQ. Usually, only TQ is tested in standardized tests in schools, colleges, and other recruitment agencies¹.

When a nation develops in time, people become relationally better and technologically better. However, the problem is that the technical ability in various fields (TQ) increases much faster than the ability to solve relationship problems (RQ). This is what I would like to refer to it as RQ-TQ imbalanced evolution. As we have seen in section 1, healthy economic activity depends on both social and technological (technical) activity: a specific effect of this imbalance is economic problems because of lagging of RQ compared to TQ. Next, let me discuss the RQ-TQ imbalanced evolution in various contexts and explain why this imbalance is the greatest threat to the survival of humanity, then further, explain the possible root cause of this problem based on brain science, and how the bookset [2] provides the necessary foundation to defeat it. Readers can watch the YouTube short documentary videos posted online regarding the RQ-TQ imbalance problem².

2.2 RQ-TQ imbalance in political and economic History

There is an important lesson to be learned from our human political history. Let's start with the renaissance in Europe. Europe was making steady progress in technology. With advancing technology in Europe after the beginning of the industrial revolution, political relationships did not show the same progress. The progress in military, communication, and navigational technology brought about colonialism. There were frequent wars between European states with ever-increasing sophistication in

¹ RQ and TQ need to be standardized, and further research need to be done in this regard.

² RQ-TQ Imbalanced Evolution: Greatest Challenge Facing humanity? <https://youtu.be/HAX51nXbqBI> ; RQ-TQ Imbalanced Evolution2: Physical vs Human Sciences <https://youtu.be/6ihUzcQhFY>.

weapons. What we see is that advances in technology did not bring about progress in relationships. The same pattern is often repeated all over human history and in every part of the world.

As soon as industrial-technological power strength builds up, it is usually used for political power and warfare, bringing economic, social, and psychological problems. We consider these ill effects as due to low RQ and high TQ.

Ultimately, people do make progress in relationships. For example, Europe has become united as a union; most nations have their freedom from colonialism and have become good trading partners with their former colonizing powers. So usually, we see that progress has been made. But the pattern we need to see is that usually, economic and technological power grows much faster than progress in national and international relationships.

We need to realize that the RQ-TQ imbalance in individuals influences politics. A nation is made of individuals, so the problem at the individual level must relate to that of the national political level and vice versa. So, addressing the RQ-TQ imbalance at the political level means that it needs to be fixed at the individual level also. The bookset [2] has sufficient ideas to tackle this.

2.3 RQ-TQ imbalanced evolution and poverty

The major factor for poverty in many developing nations is the population growth patterns. The population of developing nations had almost risen three times during the twentieth century; a significant part of the rise was during the second half of the century. To maintain the standard of living, one must build schools, hospitals, roads, and other infrastructures, at the same rate to compensate for the rising population. But these nations were already poor and illiterate. This means such compensating infrastructure cannot and had not been built, and the result is the drastic reduction in the quality of life: overpopulation, lack of medical facilities, roads, electricity, poverty, etc.

To understand the different patterns of population growth, we need to understand what has been going on internally in the nations of the world. The major cause of the drop in death rates during the 20th century all over the world is due to extraordinary advances in science and technology that gave new medicines. Some of these were the development of antibiotics, immunization, etc., which reduced both adult and infant death rates all over the world. Important things to note is that these advances mostly happened in industrialized economies. This means industrialized economies were societies that were already advanced enough to invent these medicines. This implies such societies are modern similar to now, with both men and women well educated, with lots of working women. In such conditions, we would expect a low birth rate. Both industrialized and developing nations received the knowledge of medicines that helped reduce the death rate. Since the birth rates of economically developed nations were already low, this did not cause much of a problem. But in the case of developing nations, the birth rate was still high because of the large rural population with highly traditional cultural values that is comfortable with having many children (4 or 5). The reduction in death rate but persisting high birth rate resulted in high population growth, with many significant impacts on the society.

The birth rate in developing nations has been dropping but not fast enough. Almost all developing nations have adopted using technologies invented in the advanced developed world. This includes electronics, automobiles, including the medicinal advances that were responsible for the reduction in

the death rate. What we see is that these nations have absorbed technologies faster, but the social advances needed to reduce the birth rate have happened slowly. In other words, we have an imbalanced development: fast technological advances but slow social changes, which is responsible for the significant problem with poverty and low quality of life.

In today's world, the same TQ-RQ imbalance pattern is involved in poverty again. Even though many of the developing nations are adopting modern methods such as free-market capitalism, yet the attitudes of people are still as those of an agricultural society. For example, in India, the majority of businesses are sole-proprietorship with a small number of employees or only with family members as workers. They lack the skill and motivation to grow, compete, innovate or encourage these aspects in the community. The relational values followed is that of family-owned farming, with the ultimate purpose of sustaining a family. This lack of skill and motivation for growth results in a lack of job creation, poor wages for employees, low production, ultimately resulting in the continued existence of poverty. Yet, they often own modern equipment such as the latest mobile phones, computers, internet, homes built with modern architecture, etc. We see that the TQ factor has evolved, but the RQ factor has not.

One of the major factors is how people are trained in education. Most countries in the world give more importance to technological education rather than that is related to RQ, such as behavioral sciences, management, sociology, economics, team and entrepreneurship skills, etc. The consequence is that new graduates are not fully able to convert their technological skills into businesses, failing to create employment and manufacturing to the maximum extent possible. The result is the prolonging of poverty, unemployment, inflation, etc.

2.4 Importance of tackling RQ-TQ imbalance evolution

Nations military power has been growing continuously throughout history. Now mankind has enough power to destroy the entire species, yet major powers in the world don't have healthy relations among them. Humanity has the power to destroy the planet by abuse of technology or weapons. Technology will replace manual labor and even many white-collar jobs through development in artificial intelligence, jobs that will be relevant are those that depend on RQ.

Even though the overall RQ factor is improving, the TQ factor is increasing much faster, as we can observe around the world. This is a great threat to human survival. Until now, Academia has always focused on TQ. Hereafter we need to focus on RQ, and it should be given primary importance. So, the book [2] aims to use new models of mind and relationships based on the latest development in brain science to understand relationship issues and come up with solutions to improve RQ.

2.5 RQ-TQ imbalance is worsened by current education methods

During the last sixteen years, I observed numerous problems that were hindering scientific research. I have met students and researchers from the top institutes throughout the world. I have personally interacted with them. I repeatedly noticed despite their intellectual talents, they often had relationship problems much like normal people and sometimes very worse. This indicates the severity of the RQ-TQ imbalance in education throughout the world. This can be easily understood as a problem with education itself. Like how I pointed out before in the context of poverty in section 4, academic institutions give most importance to attributing skills necessary for learning, using and

producing technology, ignoring education in relationships, emotional management, teamwork, etc. There is no surprise that this will promote RQ-TQ imbalance. If we want to change the way people are educated to solve the RQ-TQ imbalanced evolution, we need to understand the science behind these phenomena, which we will discuss next.

2.6 RQ-TQ imbalance as a limitation of the human brain

In the bookset [2], we will discuss theories of how the human mind/brain functions in relationships. But let me give a simple explanation of how human brain architecture leads to the RQ-TQ imbalance, based on ideas from brain science. The brain of a living being has been organized inside out, with humans having the most advanced outer layer referred to as the neocortex that helps in the higher thinking process. The outer layers, particularly the well-developed prefrontal cortex, are

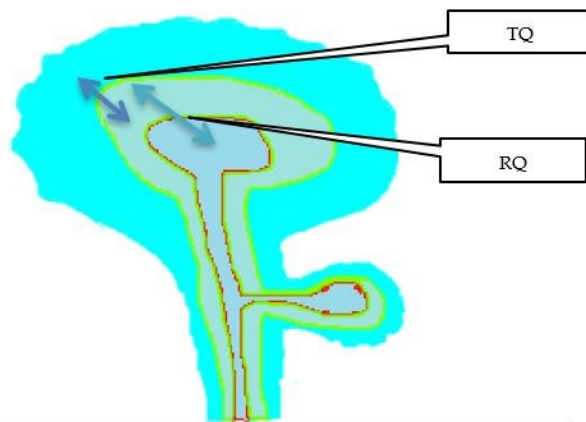


Figure I.2: Human Brain and RQ –TQ imbalance evolution based on triune brain theory. The inner layers important for RQ are rigid and outer layers important for TQ are flexible. So RQ tend to lag behind TQ, causing major problems in the world. Fixing this requires PQ: the knowledge of functioning of human mind and the skills to manage it.

responsible for our ability to think and learn. These are very flexible, so learn and adapt quickly. But the inner layers, which significantly govern our emotional behavior and relationship manners, are rigid. They rapidly learn from the environment when we are young, and hard to change as we grow older, but continuously influence everything we do. For example, in a multistore building, new stores can only be built on top, and the bottom layers are difficult to alter. This is the origin of the RQ-TQ imbalanced human evolution: TQ is determined by the outer layers of the human brain, which are flexible and so evolve faster. RQ is determined by the inner layers, which are rigid and so evolve slower, taking generations for even small improvement.

Tackling RQ-TQ imbalance involves understanding how the various layers of the human brain function, how the inner layers of the brain get wired in childhood, and how they interact with outer layers influencing our ideas and behavior. In other words, tackling RQ-TQ imbalance requires understanding one's mind. Having good knowledge of this helps offset the problem discussed in the last paragraph. The book [2] goes into detail in explaining the necessary ideas to understand the functioning of the human mind, including the interaction between various layers of mind, and will help in increasing RQ.

3 References

- 1) Author Site: www.sureshmaran.com. The site has author information and a blog. The author uses www.linkedin.com/in/sureshmaran as the primary communication site. The author is available on Twitter, and Facebook, at handle @sureshmaran

Files related to all research work from the author can be downloaded from the following sites:

publications.uniteserve.com (in not, look in the following.)

www.researchgate.net/profile/Suresh_Maran

independent.academia.edu/sureshmaran

For company documents please look at reference [5] below.

- 2) Emotional and Relational Foundations of Human Advancement by the Suresh K Maran
 - A. Volume I: The Individual – The human mind, relationships, and personal success.
 - B. Volume II: The human evolution – The relational and economic evolution of nations and groups.
 - C. Volume III: Scientific Relationism – The Relational Principles for a fit society.

The official Website is www.scientificrelationism.com

The book is available on Amazon Kindle, and other online eBook platforms. Please visit scientificrelationism.com/shop for more information.

- 3) Research work by Author:
 - A. Analysis of global crisis, Highly Adverse Long-Term Trend, and Prevention by Suresh K Maran
 - B. Grand Unification of Human Knowledge. Please download the paper here: Download from [Research Gate](#), or Academia.edu
 - C. Organization and Management of Human Knowledge. Please download the papers from: [Research gate](#), or Academia.edu

- 4) The UNITESERVE project

The official Website is www.uniteserve.com

LinkedIn <https://www.linkedin.com/in/uniteserve>

Instagram, Twitter, and Facebook: @uniteserve

[linkedin.com/company/uniteserve](https://www.linkedin.com/company/uniteserve)

[Company files can be downloaded at the following links:](#)

- A. www.uniteserve.com/documents, which will have up-to-date info and briefing. The documents will be also available in the list next.
 - B. publications.uniteserve.com
 - C. <https://archive.org/details/@uniteserve>
 - D. [linkedin.com/company/uniteserve](https://www.linkedin.com/company/uniteserve)
 - E. [linkedin.com/in/sureshmaran](https://www.linkedin.com/in/sureshmaran)
- 5) A list of company documents is given below. They can be downloaded from webpages list in reference 4.
 - A. The UNITESERVE Proposal
 - B. The UNITESERVE Manual
 - C. The UNITESERVE Constitution
 - D. The UNITESERVE Organization Plan
 - E. The UNITESERVE Feedback System
- 6) YouTube videos: [UNITESERVE YouTube channel](#)
 - A. Author Experience: [Founder Introduction Series](#) YouTube Playlist.
 - B. UNITESERVE feedback system: [How to manage.](#)
 - C. UNITESERVE platform: [YouTube Playlist.](#)
 - D. Book Introduction: [Scientific Relationism Playlist.](#)
- 7) RQ-TQ imbalance problem
 - A. RQ-TQ Imbalance problem by Suresh K Maran. This is an excerpt from the introduction in the bookset [2]. Refers to this document. This paper can be found also available in [researchgate.net](https://www.researchgate.net) or [academia.edu](https://www.academia.edu).
 - B.
 - C. RQ-TQ Imbalanced Evolution: Greatest Challenge Facing humanity? <https://youtu.be/HAX51nXbqBI>.
 - D. RQ-TQ Imbalanced Evolution 2: Physical vs social sciences [https://youtu.be/ 6ihUzcQhFY](https://youtu.be/6ihUzcQhFY).
 - E. [Amygdala, Defensive Emotions and Global Problems: https://www.scientificrelationism.com/content/amygdala-defensive-emotions-and-global-problems](https://www.scientificrelationism.com/content/amygdala-defensive-emotions-and-global-problems) (link to YouTube videos and references).
- 8) Foundation research work from scientists and scholars
 - A. LeDoux, J.E., [The Emotional Brain](#).
 - B. Daniel Goleman, The Emotional Intelligence.
 - C. Descartes Error, by Antonio Damasio.
- 9) Papers on Collapse of Civilizations

- A. Herrington, G. Update to limits to growth: Comparing the world3 model with empirical data. *J Ind Ecol.* 2021; 25: 614– 626. <https://doi.org/10.1111/jiec.13084>
- B. Society is right on track for a global collapse, new study of infamous 1970s report finds: <https://www.livescience.com/collapse-human-society-limits-to-growth.html>
- C. Physicists: 90% Chance of Human Society Collapsing Within Decades <https://www.ecowatch.com/human-society-collapse-deforestation-2646869167.html#toggle-gdpr; Original article> Bologna, M., Aquino, G. Deforestation and world population sustainability: a quantitative analysis. *Sci Rep* **10**, 7631 (2020). <https://doi.org/10.1038/s41598-020-63657-6>
- D. [Global warming will hit 1.5C by 2040, warns IPCC report.](https://www.ft.com/content/9a11b08c-4fb3-49ec-8939-9d853745bfce) <https://www.ft.com/content/9a11b08c-4fb3-49ec-8939-9d853745bfce>
- E. [The next recession: Here's when the 'everything bubble' will burst;](https://fortune.com/2021/12/09/next-recession-heres-everything-bubble-markets-2021-2022-covid-murray-sabrin/) [https://fortune.com/2021/12/09/next-recession-heres-everything-bubble-markets-2021-2022-covid-murray-sabrin/;](https://fortune.com/2021/12/09/next-recession-heres-everything-bubble-markets-2021-2022-covid-murray-sabrin/)
- F. [High inflation & liquidity, bubble in asset prices: What can RBI do now? Read more at;](https://economictimes.indiatimes.com/markets/stocks/news/high-inflation-liquidity-bubble-in-asset-prices-what-can-rbi-do-now/articleshow/84589047.cms) <https://economictimes.indiatimes.com/markets/stocks/news/high-inflation-liquidity-bubble-in-asset-prices-what-can-rbi-do-now/articleshow/84589047.cms>