Migration as Separation of Human Community - Analysis and Forecast

By Dr. Boris Rozin

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The proposed mathematical model consumm-atesthat the process of human segregation leads to a break down on non-active and active communities. As a result, more active community has a tendency to develop much faster and dominate over non-active community. This result of this hypothesis can help to determine and eliminate various risks of denomination, and develop scientifically proven recommendations to improve immigration politic.

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Glossary

There are three levels on which to measure personality uniqueness :

- Genus : Human beings (*Homo sapiens*) are a biological species/genus, and are carriers of a predefined genetic structure that is similar throughout.
- Genotype : Endowments implemented into individ-uals' genetic code that are unique to individual and can be carried on to succeeding generations. For instance, underlying genes for eye color, hair type, skin, tendency to weight gain, or even predispositions to hereditary diseases are all properties defining our genotype.
- Phenotype : Is the physical characteristic of individ-ual, controlled by genotype and environmental influence. For example, actual hair/eye color, behavior, temperament, actual weight, and diseases.
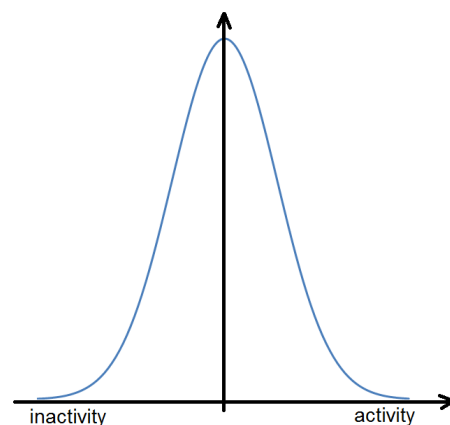
I. Introduction

As a result of a unique character of individual, its inherited endowments and observable traits are researched throughout the years in different disciplines. Numerous scientific approaches developed various theories and hypothesis about individual's abilities to inherit certain qualities and pass them into posterity, or adopt traits influenced by environmental factors. Needless to say, fundamental genes control numerous individual's characteristics and make up the genotype, while phenotype is an obvious observable trait. The phenotype results from collaboration between numerous genetic capabilities and the expressions of individual's genes, while also controlled by environmental influence. Its physical manifestation and inheritable information can be expressed within two categories - physiological (physical qualities of individ-ual) and psychological (mental type of individual). In analyzing the psychological category of individual's phenotype, a number of traits come to mind - namely, level of IQ, behavior, temperament, etc. However, taken into an account that these traits are observable and originate from genes that control individual's capabilities, we can assume psychological traits are implemented into individual's genetic code.

The focus of this article is to mathematically examine genotypic influence on observable psychological traits of an individual. Traits such as level of IQ, behavior and temperament can be integrated into one mathematical parameter - Activity. *Activity* is assumed to be a firm desire of an individual to progress (make better) his social status, to put significant effort for achieving goals, to get prepared for migration, risks, innovation and leadership.

Every individual possesses relatively different levels of *Activity* that can be expressed quantitatively. The relative level of *Activity* of every individual has incidental value. The statistical distribution of this incidental value, like most natural processes, has the normal (or Gaussian) distribution that has a bell-shaped probability density function (Picture 1).
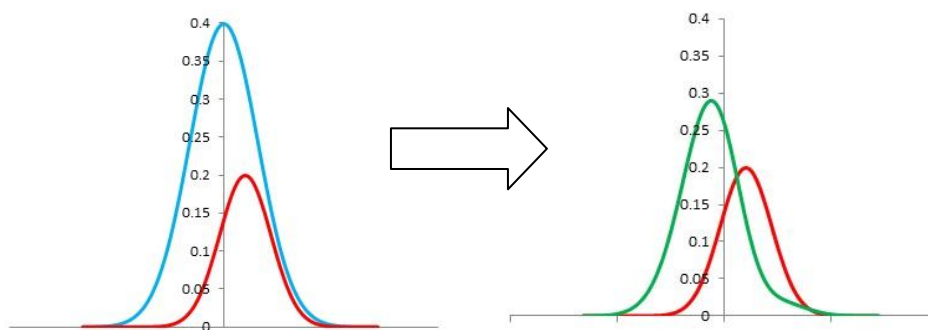

Picture 1 : The normal (or Gaussian) distribution.

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The probability that the *Activity* level of a newly born child will be close to the *Activity* level of the parents is relatively high, compared to the probability of deviation from the *Activity* level of the parents in descendants. Picture 1 represents a colloquial function of normal distribution of probability, with the *Activity* level on the horizontal axis and the probability of a born child with the corresponding Activity level on the vertical axis.

The probability density distribution of relative activity for a sufficient big group of randomly chosen individuals also has the normal distribution. On a horizontal axis, as before, it's the activity level, and on a vertical axis the relative quantity of individuals with the given degree of activity.

II. DIFFERENTIATION BY THE ACTIVITY LEVEL

As an example, let us consider a rural community mired in a resource crisis. For example, climate change has decreased edible resources. One possible solution for rural communities is migration. However, the entire community can't migrate. From the entire community, only a group that is ready for risks would migrate. As it was mentioned above, the readiness to risk and migration is the vivid activity sign, thus, the migrating part of community would have a high *Activity* level.

Picture 2a

Picture 2b

In Picture 2a, the blue line represents the statistical distribution of activity of the entire community before division, and the red line the part of the community that decided to migrate. In Picture 2b, the green line represents the distribution of the activity level of part of the community that remained. So above all, the genotypic factor and its transference according to inheritance become important while determining the activity level. Thus, the different distributions of activity level for the two community groups (in fact, two new communities) will be transferred to future generations. Therefore, we can say that migrants bring with them "The Gene of Activity".

This micro-model of the distribution of communities is the basis for this hypothesis.

The migration processes are the main factor which derives to the nonuniform distribution of the individuals with the high Activity among the whole human population.

III. BABYLONIAN CAPTIVITY

The first reference about segregation of the elite and the remaining population can be found in the Bible (in the second book of Kingdom). Babylonian king Nebuchadnezzar, after occupying Jerusalem and destroying the First Temple, deported the Jewish elite to

Babylon and sent off all dwellers of Jerusalem, all grandees, all powerful warriors, tens of thousands of refugees, cultural masters, Border Protectionists (Priests), everyone, except for the poor/deprived. "He carried into exile all Jerusalem: all the officers and fighting men, and all the craftsmen and artisans. Only the poorest people of the land were left" (2 Kings 24:14). A total of about 20 thousand people were kicked-off. According to various sources, the population of Jews then consisted of 0.5 to 1 million people, of which about 2-4% were refugees.

The Bible continues to say that further development of these communities turned out to be diametrically opposed. The Babylonian community could have occupied an important/worthy place in the political and trade life of the Babylonian Kingdom and established one of the greatest models of Jewish religious ideas, the Babylonian Talmud. After 70 years, the Jews returned from the Babylonian Tribe (Ezra 2:1, Nehemiah 7:8-63), and saw that the remained Jewish population practically lost all its national and religious identity.

Thus, the removal of the 'best population'-even less than 5% from its total population brought about catastrophic consequences.

IV. GREAT MIGRATIONS AND THE FORMATION OF ACTIVE NATIONS

The appearance of the active nations can be explained by the nonuniform distribution of the people with the high Activity. Interesting to point that many great countries formed on peninsulas such as ancient Greece, Roman Empire, The Spanish Kingdom. It can be explained by the convenient transport location as well as emigrants did not have choice to move farther.

There are several evidences that prove that migrants are carriers of "the *Activity* gene." Some examples include :

The Great Migration of peoples : From northern India and Asia to central Europe, this brought about very active migrators and formed the European nations. Europe became as a "big peninsula" for these people.

Tatar-Mongolian Invasion : The Mongolian and North China migrators, who occupied Eastern Europe and mixed with Slavs, established the Russian nation. The population that remained in Central Mongolia now happens to have a hypertrophied low level of activity.

Anglo-Saxon Nation : The British Isles many times proved to be a nation of conquest. The conquerors were settling and assimilating so that Britain succeeded to gather active genotype from across the North Europe. This genotypic activity of the Anglo-Saxons brought about in establishing the Britain Empire.

V. THOUGHTFUL EXPERIMENT

Let's collect half of the active population belonging to any territory and move them to another territory possessing similar natural resources, but not having a native population. The new population will create a society which has been not burdened with an aristocracy. During the first generation, the land will be distributed by self-capture. The second and third generation will self-organize in the new state and will build a more dynamic socio-political system than one with an ancestral base. In the following generations, owing to raised genotypic activity, the new state will expand its influence into nearby and far territories, through military and economic forms.

Isn't it very similar to the history of the United States that without American Revolution, Civil War, and destruction of indigenous population of the North America? Americans like to speak about themselves as a nation of immigrants, with a high genotypic activity level. Regardless of the stimulus for voluntary migration, be it economic, religious or safety-based, only the part of the population with the high activity level would take the risk. Only those with a high activity level emigrate, those without it remain in the homeland and reconcile to oppressions and the absence of the prospect for self-realization. Hence, this de facto emigration and immigration allow for the segregation of human population under the factor of genotypic activity level - strong (active) leave, weak (passive) remain.

VI. IMMIGRANT COUNTRIES

The territories in which more than 40% of the population consists of descendants of immigrants over the last 400 years can be considered as immigrant countries. This includes many former British colonies: the U.S., Canada, Australia, and New Zealand. The USA will be considered in detail in this article, and Canada not only territorially adjoins the USA, but also forms a uniform territory with the USA within the limits of the given hypothesis. In both countries, the population consists of descendants of protest immigrants from Europe where similar policies were carried out in relation to the natives and to the peoples from Africa who were enslaved. Although this immigrant country status is somewhat weakened by generations of descendants from the original immigrants, it doesn't prevent Australia from being the regional leader. While New Zealand carries out an active immigration policy, it does not have the critical weight of immigrants to be nominated among world leaders in the field.

On the other hand, immigrant countries such as Mexico, the Southern and Central Americas (the former colonies of Spain and Portugal) had similar immigration patterns to the U.S., but the evolution of the blended society was much different. The difference is that immigration to South America wasn't on a mass scale and was not violent. The Latin American immigrants didn't resist the indigenous population - they actively mixed up with it. As a result, the genotypic high activity level advantage has been dissolved in indigenous genotype.

It is also possible to include the Republic of South Africa in the group of immigrant countries. Unfortunately, the white minority of the Republic of South Africa wouldn't cross through prejudices and give the majority a way of self-realization. The future of this country depends on what the African majority will do to construct a society of equal competition.

The last and the youngest immigrant country is Israel. Jews and the Jewish state deserve a more detailed analysis.

VII. JEWS - THE NATION OF HEREDITARY IMMIGRANTS

It is known that the European Jews have a genotypic anomaly iV their average IQ level is approximately 15% above that of a Central European's. The uneasy mutual relations between Jews and the Christians among who the Jews lived generated this trait.

In Europe, Jews were perceived as competitors in trade and crafts. The persecution of Jews did not stop until the mid-20th century namely because of economic

reasons. Exile and compulsory assimilation were the general forms of this prosecution. Exile, for the Jews, was the same as immigration iV strong leave, weak assimilate.

As is known, the basis of the Jewish nation is not the territory, but the religion. By centuries-old tradition, all Jewish boys are obliged to study the Five Books of Moses, known as the Torah. Those without high genotypic activity levels have not studied the Torah as much, have become less religious and therefore have assimilated more. The genotypic activity level in the European Jewry has therefore become suppressed. Meanwhile, the modern state of Israel has demonstrated its huge genotypic potential by being in several wars in which it has surpassed its numerically larger opponents.

VIII. The Invitation to Immigration

Other than the immigrant countries which are traditionally open for immigration, some countries have invited immigrants in large quantities. The most known invitations :

- Poland in the 13th and 14th centuries invited and gave protection to Jewish communities,
- The First Russian emperor, Peter the Great, actively involved foreigners such as the Germans and the Dutch for army and navy fleet construction,
- The Russian Empress Catherine II involved not only the European nobility in Russian government, but also entire communities from Germany.

In the 20-30 years after these immigration waves, these countries showed considerable economic growth. Peter the Great had created the Russian Empire, and Catherine II of Russia had become a highly recognized European leader. In addition, by the 15th century, Poland was one of the largest and most powerful states in Europe.

IX. World Leadership and the Usa

The U.S. is the world leader because it possesses a population with the highest genotypic activity level in the Earth. Therefore, statements about a rapid decline or loss of leadership by the U.S. have no real truth. World crises don't bear a direct threat on the U.S., though they are painful enough. As was shown during the last crisis 2008 - 2010, the relative falling of a standard of living in the majority of other countries was worse than what was experienced by the U.S. Constant inflow of the Active people from all over the globe is necessary for the maintenance of a stable high rate of development. This inflow can be so called as a "pumping out" the Active people. While the "pumping out" is working from across the World, the U.S. will be dominating.

X. "Pomp" Adjustment on Pumping Out the Active People and Federal Government's Role on Immigration

The immigration policy of the U.S. should be more pragmatic. Residual elites from every corner of the globe should be the target group.

As mentioned above, the high rate of development and leadership directly depends on the average genotypic activity level of the population. Therefore, the system of attraction of the active population from every corner of the globe is an important strategic function of the government. As a first generation immigrant, I recognize that the system works well, but it could perform more effectively.

The current ways of immigration to the U.S. are as follows :

1. *The refugee program :* Settlement in the USA under the refugee program from the underdeveloped countries possibly has political value; however, it is necessary to mention that strategically the U.S. often receives the genotypic ballast. There were some exceptions like the immigrations of Jews from the USSR in 1975-2000. In reality, it was immigration of the Jewish residual elite. This elite became residual as the result of the state anti-Semitism in the USSR.

2. *Professional immigration :* Canada has exemplified this over the last 20 years. This program has helped nominate Canada as leaders in fields from IT to technologies and has given an impulse of development to the entire economy. However, half of the beneficiaries from this program already live and work in the USA. Liberalization and expansion of the program of professional immigration will create an inflow of active populations from around the globe.

3. *Green Card Lottery :* It's an extremely successful program but needs a correction. For today, quotas in the Green Card Lottery are proportional to the countryi¦s population. However, the various countries do not have identical genotypic activity levels; therefore, it is necessary to bring into consideration a correcting factor in creating quotas. It is essential to factor in what the labor consumption of the population of a given country is; therefore, in the first stage, it is possible to apply a factor of education of the population.

4. *Illegal immigration :* The overwhelming majority of illegal immigrants arrive in the U.S. from Latin America and Mexico. As it was written above, the Spanish-speaking nations possess lower average genotypic activity levels in their populations. The reason why a huge presence of natives of Latin America are in the labor market of the U.S. is not

because of their genotypic activity level but rather their territorial affinity to the U.S., a low standard of living, and a permanent surplus of hardworking population in their native countries. Because of low genotypic activity levels, the second generation of immigrants from Latin America born in the U.S. cannot compete on equal terms in the labor market, creating a big social pressure.

Professional immigration, together with a student and scientific exchange, are the best ways of attracting active population of any given country. The system of working visas should be more pragmatic. Working visas should be held for a longer fixed period without the obligation of granting a Green Card. Green Cards should be given to only those having a successful business or four-year college degree. Illegal immigration can be forced out by the system of giving out working visas for a fixed period without granting a Green card. It is necessary to be ready for the new wave of immigration of the indigenous population of Europe related to the deepening economic and interfaith enmity crises in continental Europe.

XI. Afro-american Community of the Usa

Ancestors of many Americans weren't voluntary immigrants. The African American community was not built on voluntary immigration, and many of those brought over involuntarily as slaves would not have possessed high genotypic activity levels. I again emphasize that no particular race possesses any genotype advantages. If Africans would have started to occupy North America first and imported Europeans as slaves, the majority of US presidents and the top ten richest people on the Forbes list would be descendants of Africans. However, the history does not take into account what could have been, so American society and the American state bear responsibility for 200 years of slavery. However, it is necessary to take into consideration that the protectionist policy on a labor market yields huge losses to the economy and social development. The monetization of benefits and privileges given to descendants of slaves would considerably help recover the economy and government of the USA.

On a side note, the current US president, Barrack H. Obama, is on one hand the descendant of the African aristocracy, and on the other of European immigrants. His father obviously was a person with a high genotypic activity level. Therefore Obama's positioning as a member of the African American community is incorrect - his ancestors were never slaves. Obama, the descendant of free immigrants, may have made use of privileges offered to African Americans due to his skin color when in fact he has no relation to them. The reasoning behind this discussion is that it is sometimes interesting to observe as immigrants

from Africa in the first and second generations use privileges for the African Americans though their ancestors never were slaves.

XII. The Short-Term Forecast of World Leadership

It is not necessary to build a complicated mathematical model to forecast the economic development and the world leadership for the next 50 years. It is enough to put on a map of the immigration streams for the last several decades. The population with high genotypic activity levels determines this development through their migrations.

In the given context of research, the short-term period is 2-3 human generations or 40-60 years. During the next 50 years, world leadership of the USA does not have any obvious external threats. No state or territory can currently offer more to the Active immigrants than the US.

XIII. Intermediate Term Forecast of World Leadership

The intermediate term period is from 3 to 10 human generations or 50 - 200 years. In the intermediate term, the creation of a new immigrant state for the population with high genotypic activity levels is possible. Territories suitable to mass settling on the Earth could be Siberia, Tibet, Sahara, deserts of Australia and Antarctica. Given the level of development of current technology, there would be high probability of mass migration to Siberia. The main contenders for settling in Siberia are the Chinese ethnic groups.

As the result of the disintegration of the USSR, the immigration policy of Russia became more liberal, and there are weakened economic conditions in Moscow and territories behind the Ural Mountains. Chinese migration to Siberia has not reached mass proportions yet, but the Chinese communities have become a common trend in the cities of Siberia. The probability of global political crisis and disintegration of the Russian Federation remain high. Upon receiving independence, Siberia and the Russian Far East would fall under the influence of China and would completely open doors to the Chinese immigration stream. The Active Chinese people, having left in their homeland's communistic ideology and the clan structure, and having considerable experience in modern finance and information technology, would construct a super-competitive state within a short period of time. The proverbial Chinese dragon would wake up not in China, but in Siberia. This Chinese state of Siberia would be the strongest competitor against the US. Therefore, though it sounds paradoxical, maintaining the integrity of Russia should be a major strategic direction for the US.

XIV. THE LONG-TERM FORECAST OF WORLD LEADERSHIP

Undoubtedly, a time will come when humankind will start to occupy space; there will be colonies on neighboring and faraway planets. The future space migrants will be people with high genotype levels of activity. Therefore, extraterrestrial settlements would develop very dynamically.

After resettlement of 10-15 % of the population, the Earth would rather quickly lose the status of space mother country. Many fantasy writers have intuitively guessed this tendency, especially Isaac Asimov.

XV. ACKNOWLEDGEMENT