

Written Solution: Goose Brain

i. Ideology

In brief, the ideology of the team Goose Brain is the transformation of Aerok into a more **egalitarian, pro-global, neo-humanist** society.

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Declaration/Ideology

Core Values and Principles:

1. **Egalitarianism**

Foremost, we promote the political philosophy that all members of society are equal. In order to promote the happiness and fulfilment of Aerok's citizens, our policies aim to reduce the disparity between the elite working class and the unemployed majority. By implementing strategies to decrease the intensity of competition in education and employment, the opportunities for social mobility will be raised. Overall, an egalitarian society elevates national stability.

2. **Pro-globalism**

Our policies aim to promote globalization and the formation of a more international mindset amongst Aerok's population. The success of the AI industry in Aerok has created economic reliance on this primary sector. While the dominant conglomerates wield global influence, the job market and education system of Aerok have instead become very insular. This dependence on a singular sector restricts the adaptability of Aerok's society for future development past 2071, which will also require extensive international cooperation.

3. **Neo-humanism**

In line with the previous two core values, the neo-humanist approach places value on social equality, economic democracy, and sustainable development. In the AI era of Aerok, these principles must be both supported by and protected from the effects of technological development. Our policies and innovations endeavor to supervise public freedoms and dignity while fostering opportunities for the sought-after potential of self-realization.

Issues/Challenges/Problems that conflict with core values and principles:

- **Lack of jobs and hypercompetition**

The development of Aerok's AI, and the subsequent changes to the nation's job market and economy, have fostered a culture of hypercompetition. This permeates both the workforce and the education system. The rift between the elite class and the majority population directly conflicts with our core ideologies of equality and humanism, but cannot be solved in a single stroke. Limited employment opportunities and emphasis on the AI sector have persisted for several decades. Altering the cultural attitude of the population requires long-term policy and strategically robust innovation.

- **Homogeneity**

Aerok remains culturally homogeneous, which has been reinforced by the single focus on the AI sector. This cyclical mindset opposes change and hinders Aerok's adaptation beyond 2071 on the global scale. A more diverse, pro-global demographic will promote the acceptance of change and innovation.

- **Corporate monopoly**

The success of Aerok's top 18 AI corporations has led to their rapid expansion and monopolization of the economy. While there exist some "freelance researchers", there is not much room for healthy economic competition or start-up development. Combined with limited regulation on the activities of these corporations, they wield great power to continue to increase their wealth and elite class. This situation directly opposes our ideologies of humanism, individual freedoms, and social equality.

- **AI Ethics Regulation**

Advanced AI has huge potential to become a threat to humanity. Countries that have advanced AI research, such as Aerok, have the potential to invest in AI for military purposes. However, Aerok also has the opportunity to become a global leader. Regulation of future AI development and usage is important to protect human dignity.

Aims/Goals to achieve:

Goose Brain has designed policies and innovations to address the challenges described above, and support the transformation of Aerok in line with our ideology of an egalitarian, pro-global, neo-humanist society. The achievement of these specific objectives will result from the effective adoption of our policies.

Objectives:

- Increase population happiness and quality of life
 - World Happiness Report index increase
 - Decrease suicide and mental illness rates
- Increase job and education opportunities
 - GDP increase with job creation

- Higher percentage of students completing high school education
 - Employment rate increase
- AI development and increased corporate control
 - Implement data tax
 - Promote global cooperation on AI ethics

ii. Policies

Policy #1 (Job Market):

[Relevant topic] Issue: Tourism

Aim/Purpose:

- To increase the service sector employment in the tourism field
- To provide high quality entertainment and social engagement
- To attract foreign capital

Implementation methods:

1. Designate a historical district that resembles the lifestyle in the early 21st century. Offer in person services in restaurants, hotels, beauty salons, etc. and appoint it as luxury tourism.
2. Host an annual AIRT festival and award innovative artists that combine AI technology and human creativity.
3. Expand the AI-Art (AIRT) fusioned field as a potential tourism sector by creating a specific ministry that focuses on ART development.

Justification:

In the year 2071, AI assisted services will be much preferable due to the convenience and the cheap price, but many people also reminisce on the old days of imperfect yet warm human encounters. A trip to Aerok's historic district will give people a fun taste of how life might have been like in the early 21st century. A term called "nostalgic" marketing can be applied in this scenario; research done in 2016 mentioned that nostalgic past-focused advertisements (as compared to those focused on the present) elicited higher perceived self-continuity, leading to more favorable ratings of brand attitude and greater intent to purchase the product (Ilyoung Ju et al., 2016)¹. This study focused on the innovative marketing frameworks linked to the consumer's identity. With this being said, we can apply this marketing technique towards this new tourism sector.

Also, since the advancement of AI, artists are one of the last remaining champions of human creativity and ingenuity. Instead of viewing AI as a threat to human creativity, Aerok, as the leading nation in AI, can demonstrate how AI and Art can be combined and produce new forms of media. This AI-art fusioned sector can be designated as a new tourism sector, where we can take advantage of Aerok's position as a leading AI-centered nation towards expanding the job

¹ "Nostalgic marketing, perceived self-continuity, and consumer" 19 Sep. 2016, <https://www.emerald.com/insight/content/doi/10.1108/MD-11-2015-0501/full/html>. Accessed 31 Jan. 2021.

market through tourism. In fact, although AI-related solutions are still not widespread within the tourism sector, they are predicted to be used more often in the future in order to increase the quality of the products and services² (Martin Zsarnoczky, 2017). To create a sustainable tourism market, we can create various models by doing several case studies on existing recreation (Anthony Dvarskas, 2017)³.

Conclusion: Shape Aerok as a popular tourist attraction that provides a unique array of experience and entertainment, including nostalgic luxury tourism and an AI-art fused hub.

Expected effects:

1. Growth in size of the service sector and the overall GDP
2. A significant increase in the number of people in the art sector, which automatically promotes the GEESE track and reduces the competitiveness caused by TITLE.
3. Pushes Aerok into becoming a well-known art hub.

Limitations and further suggestions:

1. Since the art and entertainment sector is heavily neglected in Aerok (people who work in this sector are considered as people who struggle with “self-realization”), to rebrand Aerok as a hub of art fused with AI will be a big challenge. The perception of the sector itself should be changed and a high investment is required.
2. Adverse effect on inequality when non professionals serve customers who will mostly consist of rich elites.

² "(PDF) HOW DOES ARTIFICIAL INTELLIGENCE AFFECT THE" 15 Nov. 2017, https://www.researchgate.net/publication/321085023_HOW_DOES_ARTIFICIAL_INTELLIGENCE_AFFECT_THE_TOURISM_INDUSTRY. Accessed 31 Jan. 2021.

³ "Dynamically linking economic models to ecological condition for" 3 Nov. 2020, https://www.researchgate.net/publication/311679544_Dynamically_linking_economic_models_to_ecological_condition_for_coastal_zone_management_Application_to_sustainable_tourism_planning. Accessed 31 Jan. 2021.

Policy #2 (Job Market):

[Relevant topic] Issue: Employment in Social Media

Aim/Purpose:

- Utilize social media as a new job market
- Implement AI in the creation of a steady connection platform between employer and employee.
- Optimize non-AI job sectors.
- Maintain the idea of freedom-of-speech and protect the people's privacy.

Implementation methods:

1. The establishment of an official influencer vocational school, aimed towards citizens who aspire to pursue a professional social media career. Graduates can choose to either be freelancers, a professional influencer, or an honorary ambassador that works with the government to be stated below.
2. A government program called "Honorary Ambassador" that will consolidate relationships with influencers and their fanbases, thus keeping track of current social trends and the consumer market. This program will enable the influencer to become an advisor to the government and voice out the people's opinion directly.
3. Creation of a "connection platform", which is an official platform that serves to optimize the communication among content creators and their potential team members. The team will recruit people with skills not strictly restricted to the AI sector. This will be in the form of a website as well as an application accessible to all citizens, that is assisted by AI.
4. Solidify regulations regarding social media power in employment stages, including the use of social media in employment to avoid unwanted privileges as well as privacy regulations that do not restrict freedom of expression.

Justification:

Since people in Aerok may view the influencer career as only a side-job, the establishment may change the perception of social media as a large job market and opportunity instead. Honorary ambassadors will become a pathway for the government to better address the current trend and the consumer market, at the same time give more exposure to the influencer. However, in order to create a sustainable job market in this area, a clear regulation should be created for this government program. Furthermore, due to cyber-vetting and advances in monitoring and

surveillance technology, the fundamental rights of individuals (in particular their rights to privacy and freedom of expression) are at significant risk and they are in many respects less free than ever before (Payne, 2018)⁴. With this being said, we believe that by connecting the social influencers with the government will enhance transparency among both parties and effectively deliver the “voice” of the people in Aerok to the government.

Furthermore, to carry out necessary tasks done by a content creator who has a wide audience, a large team will be required. With the advancement of AI, we can create a platform in the form of a website and an application focused on easing the communication between the client (the influencer) and the potential employees that possess non-AI abilities (an example of this are managers, marketing advisors, and creative directors).

Conclusion

Expected effects:

1. The establishment of the vocational school will encourage the unemployed population to start anew, by either becoming freelancers afterwards, pursuing a professional career in social media or becoming an honorary ambassador.
2. By point 1, we expect an automatic creation of a new job market.
3. The enhancement of the transparency of data among the government and the people.
4. The creation of an effective communication pathway of the people’s opinion to the government.

Limitations and further suggestions:

1. Since the honorary ambassadors will work hand-to-hand with the government, we want to avoid any possible advantages that can be obtained by the ambassadors themselves that may lead to personal gains.
2. A thorough screening process for honorary ambassadors will be conducted by considering moral character, content quality and performance in the expert interview.
3. People may get into debt while trying to mimic lifestyles of influencers which is unsustainable for their income level.
4. The unworking population may become addicted to social media
5. Since freedom of speech is one of the most paramount rights in a democratic society such as Aerok, it will be almost impossible to control negative publicity from influencers if they decide to go against Aerok.
6. Solidify regulations such that social media will become a tool that enhance Aerok’s social development, instead of becoming a weapon that can be used against the government.

⁴ "Employment law for the digital age: how social media and IT have"
<https://cora.ucc.ie/handle/10468/6773>. Accessed 31 Jan. 2021.

Policy #3 (Job Market):

[Relevant topic] Issue: Startup Ecosystem

Aim/Purpose:

- Advance entrepreneurship and innovation in Aerok
- Prevent monopoly of large conglomerates and diversify the market

Implementation methods:

1. Establish the Ministry of Entrepreneurship that will monitor and sponsor rising startups in Aerok and implement all government programs regarding them.
2. Tax incentives for qualifying startups up to five years
 - a. Qualification criteria including but not limited to:
 - i. Corporate Social Responsibility
 - ii. Number of employees
 - iii. Growth potential
3. Host annual startup conference
4. Establish an incubator and accelerator program
5. Integrate business education into the education curriculum
 - a. Elective business course in high school
 - b. Government sponsored Student Mock Business Contest

Justification:

To increase employment and diversify Aerok's economy which are both essential for sustainable economic growth, Aerok needs to foster entrepreneurship and innovation. Qualification criteria will include corporate social responsibility and growth potential. Aerok will also build a hub for investors and startups - a virtual Silicon Valley. With the advancement of technology, physical barriers no longer a concern, but information gaps still exist. The new initiative for encouraging entrepreneurship will decrease this information gap and change the Aerok's market to become more welcoming towards new innovation.

There are numerous successful cases of government subsidized growth of the startup sector. After the Seoul Metropolitan Government committed to spending \$1.6 billion in the startup ecosystem and creating a thriving network of investors, mentors, and entrepreneurs the number of startups doubled between 2015 and 2018.

LINKS TO REFER

This paper states that a mature and self-sustaining startup ecosystem will survive, because entrepreneurship in the new sector will supplant firms in older sectors within the local ecosystem.

Entrepreneurship and entrepreneurial ecosystems

<https://onlinelibrary.wiley.com/doi/pdfdirect/10.1111/gec3.12359>

This paper studies the patterns and anti patterns that help education institution design and implement curricula and teaching materials and required for project based startup education.

Conclusion

Expected effects:

Aerok will have a more vibrant and innovative market. New startups will generate revenue and provide new products and services for the citizens. Getting a well paid job in one of the large conglomerates will no longer be seen as the 'best path' for students. Instead, ambitious youths will be encouraged to start their own business and make their ideas become reality.

Limitations and further suggestions:

1. Large conglomerates dominate the market, and it may be hard for new startups to compete against them. However, even in the most advanced economy, there is always an area of improvement and innovation. New startups that are more flexible and adventurous with their ideas have some advantage over large companies.
2. With basic income, will there be enough incentives for people to risk starting a new business when they can already make a comfortable living? Precisely because there is basic income, people will be less risk averse and more open to new ideas. There will always be people who want to make a higher income and make a name of themselves. Those ambitious ones will become the drivers of change.

Policy #4 (Job Market):

[Relevant topic] Issue: Limiting working hours

Aim/Purpose:

- To have a significant increase in the job openings.
- To create a cheerful and efficient working environment
- To relieve stress from the working class
- To help the working population lead a happier life.

Implementation methods:

A new law will be introduced to prevent anyone working more than 6 hours per day. (exceptions will be made for some such as a doctor working on a specific case etc.)

Justification:

In a country where the unemployment rate is 54%, the working class is facing high stress levels, there is extreme competition among individuals in the society for the small number of jobs available. In such a scenario there must be some law that limits working hours.

Moreover, according to present research data, working for shorter hours increases productivity and efficiency. And because the individual gets a lot of time for himself/herself, they spend more time with their families or on the things that make them happy. Thus, limiting working hours will have a net positive impact on psychological levels of the whole society. And resultantly, we will get a happier, cheerful population. The best example in this regard is Sweden.

Furthermore, the biggest problem faced by 2071's Aerok is the limited job openings. So in such a case if one person is doing a job that requires two people and is taking a lot of time to do that job then by this law that job will require two individuals. Thus it is expected that because of this law there will be an additional of approximately 30% jobs, due to which the unemployment rate will decrease significantly.

LINKS TO REFER

Working hours and productivity

<https://www.sciencedirect.com/science/article/abs/pii/S0927537116302445>

The association between long **working hours** and health: a systematic review of epidemiological evidence:

https://www.jstor.org/stable/43187983?seq=1#metadata_info_tab_contents

Can **work** make you mentally ill? A systematic meta-review of **work**-related risk factors for common mental health problems

<https://www.jstor.org/stable/pdf/44214169.pdf>

Work life balance by businessculture.org

<https://businessculture.org/northern-europe/sweden/work-life-balance/>

Conclusion

Expected effects:

- A more productive, efficient and cheerful working population.
- Overall increase in the happiness of Aerok's population (Aerok will rank higher in reports such as 'World Happiness Report' etc.)
- Significant increase in the number of job openings, hence significant reduction in the unemployment rate.
- Reduction in economic disparity in the population
- The proportion of the population getting basic income will decrease as more people are employed, and hence the government can channel the money saved from the welfare system to the wages of these newly employed population as well as invest in other job creating sectors.
- There will be a net positive increase in the economic activities in Aerok as more working people will face towards entertainment and tourism to spend their free time.

Limitations and further suggestions:

- Government will have to come up with a system to monitor individuals' working hours.
- It is expected that some of the present working population may protest, as working shorter hours may cut their wages.
- It will be difficult for the public and the private sector to provide each newly employed person with a proper wage and benefits.
- The government will have to fund some research into who will be allowed to work longer hours and for how long and come up with the most fair policy which is acceptable to almost the whole working population.

Policy #5 (Corporate Management):

[Relevant topic] Issue: Advanced Tax System

Aim/Purpose:

- Refine existing tax system to account for increased digitization of the economy
- Limit the concentration of wealth on handful companies
- Raise budget for education and other policy reforms

Implementation methods:

1. Design a system that measures the amount of data that is collected from users and classify it based on its importance
2. Tax will be imposed on companies as per the amount and type of data they collect.

Justification:

The more Aerok develops its AI, the more important the value of data becomes. In a digitalized society like Aerok, the contemporary tax system is not adequate; it doesn't impose enough tax on the large AI companies. This gives them more power and financial advantage over other sectors. Moreover, the divide between digital economy and physical economy will be very narrowed, if not diminished at all. To account for these facts, the existing tax system should be reformed. This is done by putting as much emphasis on the digital economy as that of the physical. Companies will be taxed not only on the physical assets they hold but also on the amount of data they collect.

LINKS TO REFER

[The Singular Economy: End of the Digital/Physical Divide](https://www.koreascience.or.kr/article/JAKO201854860239097.page)

<https://www.koreascience.or.kr/article/JAKO201854860239097.page>

[It's Time to Tax Companies for Using Our Personal Data](https://www.nytimes.com/2017/11/14/business/dealbook/taxing-companies-for-using-our-personal-data.html)

<https://www.nytimes.com/2017/11/14/business/dealbook/taxing-companies-for-using-our-personal-data.html>

Conclusion

Expected effects:

The data tax is a small proportion of the revenue companies earn from the data they collect, spread out over an entire industry. By incorporating a data tax system into the existing tax system, the Aerok government will not only raise enough funds for education reform, but also eliminate the concentration of wealth and power in corporations. Companies will be mindful of the amount and type of data they collect.

Limitations and further suggestions:

- There is a difficulty in assigning a fixed value on a set of data.
- A too severe tax implementation could drive away big tech companies from the country.

Suggestion:

As a possible solution to the difficulty of assigning a fixed value on data, a value which fluctuates according to the demand for the data type can be assigned.

Policy #6 (Corporate Management):

[Relevant topic] Issue: Workspace diversification

Aim/Purpose:

- Reduce the separation among social classes
- Boost the economy by providing more working opportunities
- Encourage inclusiveness within the corporations, regardless of TITLE exam results

Implementation methods:

In order to reduce the prevalent elitism and nepotism in Aerok, companies should implement corporate management strategies that will make their workspace as diverse as possible regarding socioeconomic backgrounds of the employees. In order to incentivise the companies to do so, tax cut policy for cooperating companies will be implemented.

Workforce transformation will be conducted in the following ways:

- 1 - Implementation of group projects
- 2 - Thorough job application assessment process
- 3 - Raised awareness of the company's transparent admission and diversification policies

Justification:

Collaboration among workers from different backgrounds will positively benefit the company's workspace in terms of its diversity and introduce a more fresh outlook on the existing problems.

When it comes to making decisions regarding employment, companies in Aerok tend to focus only on exam scores. As a result, jobs are being occupied by the upper class, which inevitably facilitates the separation paradigm. By making companies assess job applications while taking into account personal characteristics and capabilities of the applicant, we not only give those who do not belong to the upper class a "second chance", but also improve the chances of employing valuable professionals.

The strategies mentioned above will take effect more quickly if public awareness of the company's policies is raised. By showing their transparency in the hiring process to the general public, companies will get more public approval, interest, and as a result - a wider pool of applications to choose applicants from. Ultimately, more civic participation is needed to reduce inequality and promote social good. In order to meet this goal, an observing group consisting of diverse volunteers will be established and granted the authority to monitor and evaluate companies' record on corporate social responsibility and fair hiring process.

LINKS TO REFER

The Importance of Work Groups in Companies

<https://smallbusiness.chron.com/importance-work-groups-companies-61667.html>

How to Create an Effective Candidate Evaluation Process

<https://www.roberthalf.com/blog/evaluating-job-candidates/how-to-create-an-effective-candidate-evaluation-process>

Conclusion

Expected effects:

As with the policy #5, there will be big charges imposed on the companies by the newly established data tax system. Companies can benefit from the tax cuts if they implement strategies similar to the ones outlined above. This will become a win-win situation for both sides: companies will not be required to pay as much in taxes, and the Aerok's society will not be as segregated. Finally, these strategies will result in a more diverse working environment with little to no loss in productivity and performance.

Limitations and further suggestions:

- It is assumed that companies avoid paying tax as much as possible to maximize their revenue. In the unlikely event that companies prefer to pay the tax imposed on them rather than follow the workspace diversification policy, it will be hard to fulfill the purpose of the policy.

Policy #7 (Corporate Management):

[Relevant topic] Issue: AI Ethics

Aim/Purpose:

- Prevent the AI from becoming the dominant organism in Aerok's society
- Regulate the usage of AI
- Spearheading global co-operation in AI Ethics

Implementation methods:

- Establish a government body that would design policies on AI ethics and regulate their implementation.- **AI Ethics Regulating body**
- Define the core values of the body:
 - AI should complement, not replace, humans
 - AI should be considered as a man-made product, not as a self-sustainable entity. With this in mind, human oversight will be implemented.
 - The use of AI in weaponry should be regulated

Justification:

In a society where AI has gained massive capabilities, the need for assessing ethical concerns about AI systems and their further development vector is imperative. To this end, we propose the establishment of a government body that is responsible for designing policies on AI ethics and regulating their implementation. This body is organized with three core values in mind:

First, any AI system should be designed with an aim to supplement human activities and tasks rather than to replace them. AI structures, if used correctly, can aid humans in practically any field - from everyday chores to financial analytics. But if humans give AI too many resources to build its "knowledge" and skills on, they are in danger of completely downsizing human impact in the job sector, which will lead to severe employment problems.

Second, human oversight should be in place for any AI system that is developed in Aerok. If humans let AI take over as the most developed, superior species, the control over future development and implementation of AI in humans' lives will be lost. Therefore, limiting AI systems to operate only in the realms specified, humanity will stay responsible, and, ultimately, safe.

Third, there must be clear rules set prohibiting the usage of AI in weaponry. Again, if AI is used in weapons and the military in general, humanity as a whole will be threatened due to the yet unimaginable destructive potential in the AI-enhanced weapon systems.

LINKS TO REFER

[The **Global** Landscape of **AI Ethics** guidelines](https://www.nature.com/articles/s42256-019-0088-2)

<https://www.nature.com/articles/s42256-019-0088-2>

[Artificial Intelligence: examples of **ethical dilemmas**](https://en.unesco.org/artificial-intelligence/ethics/cases)

<https://en.unesco.org/artificial-intelligence/ethics/cases>

Conclusion

Expected effects:

An AI Ethics Regulating Body will ensure that no human rights are violated, as well as prevent the AI systems from surpassing human capability in power and control. Humans will be responsible for all actions taken regarding the usage and development of AI, while being in control and, consequently, keeping the world in peace.

Policy #8 (Education):

[Relevant topic] Issue: Private Education Reform

Aim/Purpose:

- **Eliminate elitism** in education.
 - Equalise education opportunities for all Aerok citizens.
- **Phase out the private education** sector.
 - Prevent affluence from being a factor in education quality.

Implementation methods:

Private education will be phased out over a multi year process of transition.

The first stage will involve the restricting sector growth. Preventing new private institutes from being established as well as restricting the development or expansion of existing institutions restrains sector growth. All new education providers will be required to receive government approval, and any unofficial institutions will be closed.

Later, the policy will provide incentive for education staff to work at public institutions, and accelerate the process of improving the quality of education in the public sector. Teacher wages in public education will be increased, while private sector salaries are restricted.

The final stages would be to close down the private education sector, targeting the larger institutions first and then smaller private tutoring centres. Through this process, education can become equal for all Aerok citizens.

Justification:

The transitional phase-out and eventual ban on private education is a significant but necessary policy change to combat the inequality in Aerok's education system. We have chosen to implement a stepped process of phase-out, rather than an immediate ban, in order to gradually shift perspectives on education, and negate the possibility for a sudden negative economic shock on the education sector.

The economic and social disparity between the elite and lower majority classes in Aerok both stems from and causes unequal access to education opportunities. Some imbalance in the distribution of wealth is inevitable in any modern society. However, this should not affect the quality of education available to any student, or by extension, their chance of passing the TITLE, or achieving social mobility.

Ensuring that high-quality teachers and resources from the private sector are transferred into the public sector will raise the standard of the public education system. It will eliminate the possibility for education to remain a 'pay-to-win' game dominated by the elite, and improve the quality of teaching for the majority.

Removing access to private education will also target the circular phenomenon of the elite class solely interacting with others from the same socio-economic demographic. Having a universal public education sector will expose the younger generations to a wider range of people in Aerok. This will result in citizens having a lower tendency to exclude those outside the elite class later in life and in the workforce. Since the policy will eventually phase out all forms of private education in Aerok, employment opportunities will be less affected by socioeconomic status.

Leveling the education sector to provide equal opportunities follows Goose Brain's first ideology of egalitarianism, pursuing a greater overall happiness within Aerok's citizens which aims for national stability, greater trust in governmental policies, and a healthy competition within the overall population.

Conclusion

Expected effects:

Since the policy will be implemented over an extended period of time, the expected outcome is a gradual shift in the paradigm for education in Aerok. The younger generations will be more accustomed to interactions between socioeconomic classes in a well-funded public education system that rewards proficiency rather than wealth. This will create greater opportunities for social mobility in Aerok. The demand for private education will be phased out entirely, creating a government-funded education system at a higher standard.

Limitations and further suggestions:

The removal of access to private education will be initially opposed by the majority of the elite class, since they will no longer be able to ensure the success of their children with money. To transition the attitudes of the elite class away from this selfish and exclusive form of education, there will need to be a firm government implementation of this policy, which includes an eventual ban on even private tutors. Compromises with the elite class will always snowball in their favour, so to ensure the success of the policy, each stage must be carried out strictly. The ideal situation would be to immediately ban private education, but that would be a massive shock on the education job market, which would rely on the private sector. The multi-stage process is a result of this, having to re-direct the growth of private education into the public sector, and then start encouraging the movement of existing private education staff into the public market with added benefits and easier career opportunities.

Policy #9 (Education):

[Relevant topic] Issue: GOOSE Pathway + TITLE Reform

Aim/Purpose:

- Provide support for gifted TITLE Pathway students with passions in **areas outside of AI** and computer science
- Increase interest and investment into the human service sector with tertiary **vocational** school opportunities, and the **GOOSE pathway** which caters towards this career path
 - Taking advantage of career opportunities that will still be centred around humans
- Reduce the number of students dropping out of school after the age of 15
- **Reduce hypercompetition** in education

Implementation methods:

First, the TITLE will be reformed. The new TITLE will be less restrictive; most importantly, the new policy will eliminate the harsh pass/fail cut-off for the top 5% of students. Instead, students will receive proficiency scores in multiple areas, building from the existing fields of testing provided to allow pathways into not only AI careers, but also law, medicine, political science, and more areas that still support and require human input. These exam scores will be graded on an absolute scale rather than relative, such that the proportion of students achieving top scores each year will fluctuate slightly. Implemented in conjunction with the standardization of education created by removing the private sector, this will provide a more fair evaluation of each student.

Meanwhile, GOOSE will be implemented as an alternative pathway to the TITLE. Standing for General Occupation Oriented Student Examination, it allows students to gain higher education in subjects that have previously been regarded as irrelevant in the AI-driven society of Aerok. Students can choose to enter the GOOSE pathway in their third-last year of high school as an alternative to preparing for TITLE. This will encourage fewer students to drop out of school after the age of 15.

The GOOSE curriculum will include streams such as sports, art, business, and hospitality training. During the GOOSE program, students receive work experience as well as theory lessons, and receive scores based on their theory and practice proficiency, rather than a ranking or pass/fail system. In line with the reformed TITLE, these will also be absolute scores.

Justification:

Aerok is justifiably a very AI-centred economy, and its education system has developed to cater towards this. The corollary of this is that there is a distinct lack of support for gifted students whose passions lie outside of AI. The original TITLE curriculum does include some space for

elective subjects, however the intensity of the pressure to pass - to work in the AI field - undoubtedly means that these subjects are largely ignored. In this reform proposal, medicine, engineering, law, and political science have been added as separate TITLÉ streams, since they are fields that have been identified that will be human centred in the future. More can be added later on as this program develops, and new fields open up as Aerok's economy evolves.

The General Occupation-Oriented Student Examination (GOOSE) program fosters interest and career opportunities in fields that have been viewed as irrelevant in the Aerok. It will nurture the training of workers for the revitalized human service and business sectors as outlined in the Job Market policies above. GOOSE also increases interest in other non-service human sectors such as art and sports, and formalizes education in these fields as a respectable alternative to pursuing the TITLÉ qualification and an AI research career. Having GOOSE as an alternative pathway allows Aerok to maintain its position in the AI sector whilst simultaneously growing in other sectors. GOOSE allows citizens to pursue their passions in education to achieve self-fulfilment. Following the ideology of pro-globalism, having growth in many more diverse areas means Aerok is better equipped to adapt to a rapidly changing global society in the future, rather than becoming irrelevant through reliance on a single job sector.

Conclusion

Expected effects:

The reform of TITLÉ and the establishment of a second pathway - GOOSE - will broaden education and improve inclusivity in Aerok.

Aerok will develop a workforce that is more fulfilled and well-educated through its support of a wider variety of industries. The working class will gain better experience in collaboration rather than competition through the removal of a pure ranking and competition system in secondary education. Thereby, the formation of a more open-minded job market will be supported in conjunction with our job market policies. More diverse education will improve Aerok's potential to adapt to new global economic phenomena.

We expect the GOOSE pathway to be studied by approximately 15 - 20% of the student population.

Limitations and further suggestions:

Any alternative to the TITLÉ pathway will be initially viewed as an inferior system given the existing elitism afforded to those who are successful, and so it is possible that GOOSE students will be seen as lesser than those in the TITLÉ path. We will endeavour to minimise this limitation through the implementation of the private education reform policy as detailed previously. These two policies will co-function to form a diverse and open minded student body.

Policy #10 (Education):

[Relevant topic] Issue: International Exchange

Aim/Purpose:

- Provide students with a wider **range of experiences and perspectives** on different education systems
 - Allows students to view education as more than grades and rankings
- Allow students to experience an environment where they are considered unique
- Foster **interest in sectors outside of AI**, helping place students into the GOOSE pathway

Implementation methods:

Goose Brain will implement an international exchange program for highschool students to complement the other education policies in changing societal attitudes to education. A two-way exchange program will be implemented, meaning that foreign students will also be encouraged to come to Aerok. This policy is designed to expose younger generations to other education systems, which could be less stressful or competitive than the existing system in Aerok.

Application for a semester-long exchange will be open to all students from age 15, who enrolled in highschool. The application system will be voluntary but need-blind; funding will be need-based. For students from households earning up to \$20,000 per year excluding basic income, the exchange program will be fully funded by the government. Above this, personal contribution increases in scale according to household income.

The admissions criteria is designed to select students from across social strata. It will involve relevant linguistics grades depending on destination, a personal motivation essay, and an interview process to learn about a student's personality and drive. Crucially, other school grades are not considered, as another step to reducing academic competition.

Justification:

The population of Aerok is largely homogenous. Allowing students an opportunity to identify their unique passion will promote happiness and self-realization in education. The exchange system allows students to experience other countries' education systems; not only different curriculums, but also different cultural environments. Their status as exchange students differentiates them from other students which will allow their own unique personalities and a more globalized mindset to form.

This exchange program is designed to cater mainly to students who don't want to have a career in AI research. The existing TITL system is good at what it is designed for - to funnel gifted students into the AI workforce to further advance the AI industry upon which Aerok is built. However, it disregards all other potential in students. Since the selection criteria for the exchange program does not include most academic scores, students who have yet to find their passion in their schooling still have a chance at being selected for the exchange program through showing their drive to develop as a person.

The two-way exchange also creates an influx of international students into Aerok, which promotes Aerok as a country of work and residence on the global scale. The exchange program has lasting effects past the educational experiences it provides.

Conclusion

Expected effects:

The exchange program will facilitate Aerok's globalisation through the education process, as per our pro-global ideology. It is expected to boost immigration; this not only furthers the growth of the already-established AI industry, but broadens Aerok's range of industries to improve its adaptability.

This is compounded with the outbound exchange program for Aerok's students. These students inevitably learn about other countries firsthand, and bring in global cultures into Aerok's younger generation - the most impressionable and malleable generation. Being offered the chance to explore environments not specifically catered towards AI industries will allow students to foster interests in other industries, which makes the GOOSE pathway much more attractive to further their careers.

Limitations and further suggestions:

The exchange program will be partially government funded, and this cost may fluctuate between years. These costs will be met by the results of the corporate management policies revolving around data tax, and so this will not cause the government to reduce spending in other sectors.

More efforts than just offering an exchange program are required to make Aerok a more appealing place to work and live in. It can be safely assumed that Aerok's education system and working style is well-known around the world, since 18 of the top AI companies are located there. Improving the status of Aerok as a destination will be addressed with our Job Market policies of tourism and the human service sector. Aerok's traditional culture as well as an increasingly globalised population will be integrated to form a popular destination for all global citizens.

iii. Innovative Ideas

Idea Proposal 1

Name: General Occupation-Oriented Student Examination (GOOSE) Curriculum

Description/Abstract:

GOOSE is an alternative secondary education path designed for students who have aspirations in fields outside of those catered to by the TITLE pathways. Students may choose either the GOOSE or the TITLE path as well as their individual streams and subjects within those paths prior to their final two years of high school. In the GOOSE curriculum, students take theory lessons and undertake work experience either through virtual reality (VR), or in real life, depending on placement availability. Students are given a proficiency score in their respective streams at the end of those two years which can be used to enter straight into the workforce or for tertiary education admission for the relevant vocations.

Background research:

The GOOSE curriculum is loosely based on the VET (Vocational Education and Training) system in Australia. As of 2019, over 70% of students participating in this stream as a replacement for their high school diploma passed with their required certificates to enter directly into the workforce. The number of students taking part in this stream has been constant over the past half decade, but the value of the education courses provided has increased by 7.4% since 2018 and 6.8% from 2017 to 2018. The curriculum is frequently updated to account for changes in the job market and the required skills for said jobs. The number of hired young labourers in Australia increased by 3.7% from 2018 to 2019, following an increase in investment into the VET system.

The GOOSE curriculum aims to follow this Australian model. In combination with Education Policy #10, students who may have simply dropped out of school will be diverted into the arts, sports, and human service sector, among others. By diversifying the career goals of the student body, it reduces the pressure on each student that previously existed through the hypercompetitive pass/fail TITLE exam.

VR is already becoming a more viable vehicle for education, especially during the COVID-19 pandemic. VR provides a virtual reality that can be scaled to real-life environments, with avatars representing each person. It removes the barrier of physical distance and provides the closest imitation of interpersonal interaction to actually being present with a group of people. In Aerok, work experience for all GOOSE students will not realistically be possible, given the limited job market. Therefore, a VR system can be implemented to simulate the real life work experience environment. It will also work as better training for their service career paths.

Assumptions:

The given scenario states that as people's physiological and safety needs are met, they begin to yearn "for respect, position, and honor, and desire for self-realization regarding perfection of self and a life worth living". Humans find self importance and respect through having a role in society that is valued and needed. Having a larger variety of career options supported during secondary education will provide the training required to have a more diverse workforce that sees value in other careers through their reliance on each other.

From the scenario employment data given for 30-39 year olds, we can assume the unemployment rate for all school graduates (19+ years) is 50-60%. It is undoubtedly impossible to reduce the unemployment rate to levels of 2021, since AI has taken over so much of the workforce. However, with new job markets being created for more niche, first-world and luxury jobs as well as investment into the arts and sports, the unemployment rate can be significantly reduced, and jobs will be available for graduates of the GOOSE program.

The scenario does not provide details on the prevalence and importance of sports of Aerok. However, it can be assumed from the employment data that it is not a significant or respected career path. Providing a sporting pathway in the GOOSE curriculum will start the reinvigoration of a career path that began as a way to find humans' peak physical ability. It will be one direct remedy for the lack of opportunities for self-realization and self-respect that much of Aerok's society is experiencing.

Methods and Procedures:

1. During the third-last year of secondary school, Aerok students will select either the GOOSE or TITLE pathway, and make their choice of which streams to do within each
 - a. TITLE contains AI and Computer Science, Medicine, Political Science, Law, and STEM fields with potential for additions.
 - b. GOOSE contains Sports, Art, Hospitality, Business, and SNS education, with potential for additions.
2. During the final two years of high school, GOOSE students receive hands-on education (depending on their field).
 - a. Art and sport students will partake in competitions and contests and expos, etc
 - b. GOOSE students will all receive work experience to prepare them for the workforce after graduating high school
3. Meanwhile, TITLE students' final exam will provide them with a proficiency score for each stream within TITLE that they partook in. GOOSE students will get proficiency scores from both their work experience and their theory tests.

Application:

A GOOSE completion certificate will act as both a trade certificate for employment, as well as a high school diploma for tertiary education in the relevant fields. Students may therefore proceed to further education, or enter the workforce directly after highschool.

Possible limitations:

As described in the implementation of the GOOSE pathway section (Education Policy #9), any alternative to the TITLE pathway will be initially viewed as an inferior system. However, in conjunction with all other policies - designed to expand and improve the culture and economy of Aerok in line with our ideology - it will prove a crucial part of Aerok's future education.

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- Australian Government, Department of Education. "Australian Jobs 2019." 2019, <https://docs.employment.gov.au/system/files/doc/other/australianjobs2019.pdf>. Accessed 29 January 2021.
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- Nooriafshar, Mehryar, et al. *The use of Virtual Reality in Education*. Toowoomba, University of Southern Queensland, 2004.
- OECD. "Vocational Education and Training (VET) and Adult Learning." *Organisation for Economic Co-operation and Development*, Organisation for Economic Co-operation and Development, 18 January 2021, <http://www.oecd.org/education/innovation-education/vet.htm>. Accessed 29 January 2021.

Idea Proposal 2

Name: Tourism & Arts Propaganda

Description/Abstract:

The goal is to make Aerok a popular tourist attraction and a hub of new age art. Aerok will designate and build a historical district that will resemble the town in the early 21st century. Both domestic and foreign tourists will visit the historical district, and the service sector will grow larger as the historical district will offer in person services for customers interested in luxury. The older generation will enjoy a trip to the historical district as it would remind them of their childhood. The new generation will also enjoy a trip as it would offer them a whole new array of experience, and give them a taste of the past.

Aerok, as the country with the most advanced AI technology, will become a leader in the new genre of art that combines AI and human creativity. It will host an annual AIRT festival and invite innovative artists all around the world. The festival will provide entertainment for Aerok's citizens and visitors, and also generate economic value as it creates a whole new sector.

Background research:

OECD Tourism Trends and Policies- South Korea

Tourism is a significant driver of economic growth in Korea. In 2018, it accounted for 4.7% of GDP and is estimated to support 1.4 million jobs, representing 5.3% of total employment. Travel exports represented 15.5% of total service exports in 2018. We can apply this mechanism similarly to that of Aerok, to automatically both increase the GDP and number of available jobs.

<https://www.oecd-ilibrary.org/sites/6e8b663c-en/index.html?itemId=/content/component/6e8b663c-en>

Towards a theory of visitor's evaluation of historical districts as tourism destinations: frameworks and methods

This paper suggests the efficacy of the methods in investigating the mixed effects of some variables such as the presence of other people or commercialization on visitors' evaluation of a historical district as a tourism destination.

<https://core.ac.uk/download/pdf/113636.pdf>

Harmony between Tradition and Modernity

Among popular tourist attractions in South Korea are historic sites such as Hanok Villages, Palaces, and Gwanghwamun square. Tourists can experience harmony between cultural heritage and modern culture. Distinctive local identities, beautiful natural environment, and unique cuisine are what makes the trips to these sites more memorable.

<https://www.korea.net/AboutKorea/Tourism/Historical-Heritage-Seoul>

Examples of Successful Tourist Destinations

Furthermore, we have an active example of Dubai of how it became the central piece of luxury tourism. Dubai's ruler's goal was to make it a hub for the rich across the world, and he succeeded. The biggest reason behind his success was not just his government's policies but also a carefully-designed promotional strategy. Social media and the entertainment industry helped Dubai in achieving that goal, making it a successful propaganda.

Links for reference as presented below:

http://www.tradearabia.com/news/LIFE_342195.html

<https://passionbuz.com/luxurious-lifestyle-of-dubai/>

Moreover, in the present world, Paris is known as the center of arts and culture, thanks to its exceptional history. But again the reason behind Paris's success was the promotion of Paris itself as an icon for arts and culture present in news, as well as the romanticization in hollywood movies, blogs etc. It was all the movies that made French the most romantic language in the world.

Links for reference as presented below:

Emily in Paris (Netflix series): https://en.wikipedia.org/wiki/Emily_in_Paris

Assumptions:

- Physical travel has substantial merit over virtual travel
- There is significant demand for luxury travel domestically and abroad
- In future, while most of the hotel and other services will be provided by AI, being served by humans will become a thing of luxury.

Methods & Procedures:

Materials and resources & Procedures:

1. Propaganda through social media influencers. Let them romanticise the idea of nostalgic tourism and inflict a mindset of life in the 2000s as a luxury.
2. Portray an aesthetic image of people working in the art industry in dramas, movies, TV shows to influence people into working in the art industry.
3. Build AI-ART Museum and hold regular exhibitions (both virtual and in real life) of rising artists
4. Hold an annual AI-ART international competition in Aerok
5. Using Aerok's entertainment industry such as movies and dramas for advertisements -> highlight the tourism sector.
6. Provide funding to artists and fund different tourism related projects
7. Creating a TV show that depicts life in early 2000s

Application

- Video concept
Reply 2020
- Poster of AI-ART exhibition
- Aesthetic image of the life in the 21st Century through social media influencers:
Ex: <https://www.youtube.com/watch?v=OxXUQExTyZQ&t=921s>

- News propaganda of traditional remains adapted into suitable for current life. (in our case we will depict the traditional remains as the houses in the 21st century and current life as the year 2071).
Ex: https://www.youtube.com/watch?v=rbuUFZETVmY&ab_channel=ArirangNews
- Luxury tourism depiction 2071 of in-person services as AI will be considered as overused.
Ex: https://www.youtube.com/watch?v=Y88uxC0Omwa&ab_channel=AdenFilms
https://www.youtube.com/watch?v=2B-ZJablpkY&ab_channel=EliteLife

Possible limitations:

- Traditional artists may view AI-ART as a threat and oppose government sponsoring the AI-ART sector
- Excessive reminiscence and glorification of the past may hinder future technological development
- Due to budget constraints, excessive investment in tourism and entertainment sector may detract attention from Aerok's important social policies

References:

The AI Art Gold Rush is Here: This Article describes a solo show of an AI Artist at the Chelsea gallery.

<https://www.theatlantic.com/technology/archive/2019/03/ai-created-art-invades-chelsea-gallery-scene/584134/>

Koreans transforming traditional hanok houses for 21st-century living

https://www.youtube.com/watch?v=rbuUFZETVmY&ab_channel=ArirangNews

Week in my life in Korea: Eating in a minimarket & New Semester

<https://www.youtube.com/watch?v=OxXUQExTyZQ&t=921s>

Alain Ducasse: Le Louis XV [3 Michelin star] in Monaco, Monte Carlo

https://www.youtube.com/watch?v=2B-ZJablpkY&ab_channel=EliteLife

Lobster & Steak Teppanyaki - Gourmet Food in Las Vegas

https://www.youtube.com/watch?v=Y88uxC0Omwa&ab_channel=AdenFilms

Dubai Lifestyle in 2021 with Expensive Luxury

<https://passionbuz.com/luxurious-lifestyle-of-dubai/>

Idea Proposal 3

Name: Data Tax System

Description/Abstract:

A system that is designed to measure the amount of data that companies collected from users. The system is a software that is installed on every device with an internet connection capable of data transactions. Measuring the amount of data that is collected by companies makes it possible to tax corporations for data collection. The system also classifies collected data into different types such as personal information, location information, monetary information etc. This classification enables the government to impose different amounts of tax on different data types.

Background research:

Over the past few years, there has been raising concern about the unfair advantage the international tax system gave to mainly digital multinationals. To solve this, the OECD has put forward the adoption of digital tax in the international tax system. The European members of OECD were the first to tax the digital economy. To date, Austria, France, Hungary, Italy, Poland, Spain, Turkey and the United Kingdom have officially implemented digital taxation. But digital taxation proposed by these countries is a turnover tax, which means they are based on gross revenue rather than net income. This has been criticized to be unfair against less profitable businesses. As an alternative, tax on data collection could be implemented. The closest we came to data tax was in 2017 when Austrian government considered imposing tax on data transferred by social media companies. Since then there has been discussions over the need to implement data taxation in the near future. Especially in an AI driven economy, it is very important to not only understand the value of data, but also value data as an asset and impose tax on its transactions.

Assumptions:

- The government is capable of mandating the installation of the software on every device in Aerok.
- The system doesn't store the data that is being transferred. Rather, it measures the amount and type of data, and stores this information for further use.

Methods:

Materials and resources:

- Experts in software engineering and data science which will work on software design and data classification.
- Data processing centers and servers

Procedures:

1. Develop a software that is compatible with all operating systems
2. Train the system to be able to classify data according to its kind
3. Mandate every electronics company to install the software with the operating system
4. Have a strict control over the import of devices manufactured abroad
5. Establish a set of laws prohibiting the circulation of devices without the software

Application:

This system allows the government to impose data tax on the companies depending on the amount and type of data they collect. Companies will be indirectly controlled by the taxing body, and the money collected from them will be spent on welfare, funding GOOSE curriculum, and international exchange programs.

Possible limitations:

- Like in any other computer system, there will be vulnerabilities associated with cybersecurity. In the unlikely event of cyber attacks, the system will notify the experts in charge to act swiftly to counteract the attack; all necessary measures will be taken, and the odds of being attacked will be further minimized.

References:

- Madsbjerg, Saadia. *It's Time to Tax Companies for Using Our Personal Data*. 14 November 2017. <https://www.nytimes.com/2017/11/14/business/dealbook/taxing-companies-for-using-our-personal-data.html> .
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