

SPACE IN EMERGING ECONOMIES

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REFERENCES

See authors for references.



INTRODUCTION

Emerging space economies have different rates of involvement and contribution to the space sector, however, despite different objectives and challenges, investing in the space economy contributes to the socio-economic development and growth of these countries. The main objective of this research is to investigate space in emerging economies. More specifically, through literature reviews, subject matter expert interviews, and data analytics, we investigate both the benefits of space technology and applications to socio-economic development and space industry development and support. In our research, investigating industry, politics, and law is critical to understanding the future opportunities for space in emerging economies. Our focus of research will be pertaining to nations in Latin America instead of the whole global scale.

OBJECTIVE

The purpose of our research is to gain knowledge of the potential positive benefits for emerging economies as well as identifying policy recommendations for our countries under study. We will mainly focus on four countries in Latin America that are classified as emerging economies that have a stronger presence in the space industry as compared to others. The countries of focus will be Argentina, Colombia, Mexico, and Brazil, with Brazil the only Latin country capable of launching.

METHODOLOGY

To conduct this research, we will be collecting secondary and primary data. We will complete this by examining the space economy from the perspective of socio-economic development and growth in Latin America as well as researching the Latin American industry, policies, and law to understand current and future space opportunities.

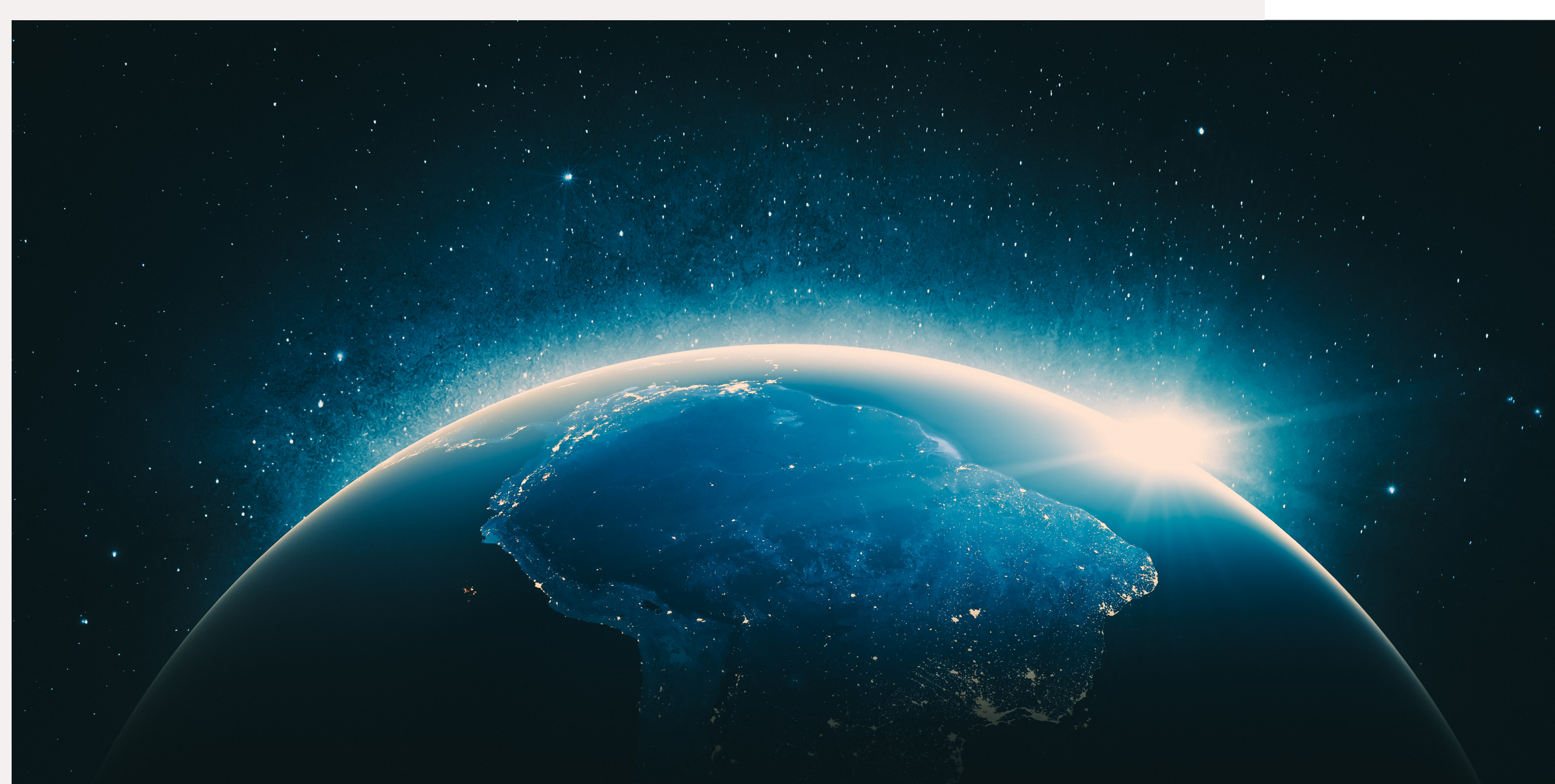
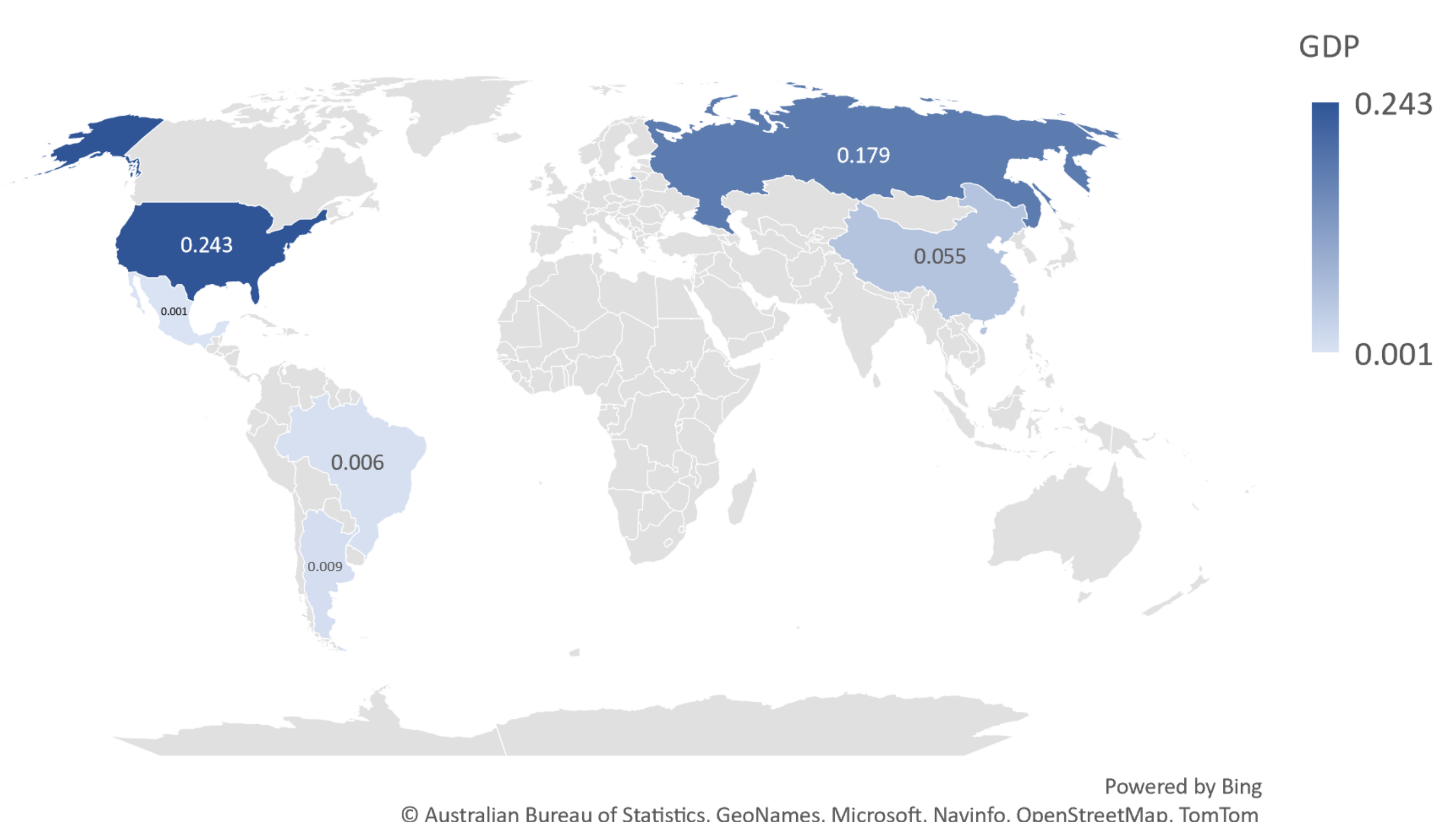
SIGNIFICANCE

The significance of this research is for the push of inclusivity in the space industry. Emerging economies need the push for their own space agencies to be a part of the growing space industry to close the gap to their space-faring nation counterparts in terms of socio-economic advancement. This research will help us understand the current situation of the space industry in Latin America and allow us to recommend what the next steps should be to further develop the industry. This research will also aid Embry-Riddle Aeronautical University (ERAU) and the OCOB in enhancing the university's knowledge base and reputation worldwide in the business of space. For us as researchers, this research will heighten our experience within the space industry and provide an examination into the space economy for emerging countries in our region of the world.

ANALYSIS

- Benefits of the space economy in Latin American countries have yet to be realized to the full potential.
- Benefits of space technology and applications to socio-economic and space industry development have become increasingly dependent on the global agendas.
- United Nations Office for Outer Space Affairs (UNOOSA) recognizes the need to promote space-based opportunities and education to emerging economies.
- Emerging economies, in particular, are at a disadvantage in realizing socio-economic benefits of the space economy.
- Lack of political support and government funding
- Lack of private investments
- Lack of infrastructure
- Space professionals often leave for opportunities elsewhere

Government Space Budget Estimates for G20 Countries
As a share of GDP in 2019 (%)



NEXT STEPS

- Conduct interviews with professionals from our countries of focus
- Collect primary data from our survey that will be distributed to institutions from our countries of focus
- Propose recommendations for countries to develop their space presence and close the gap
- Present and publish results
- Share findings in hopes to give back to our communities