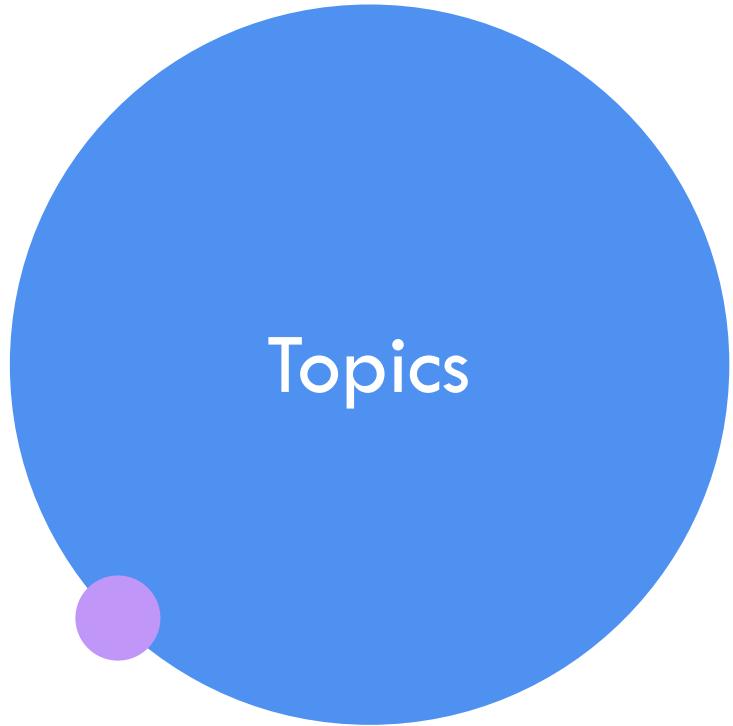




# Internship Challenge

By: Kevin Quach



1. What is the issue?
2. Why is the cause important to me?
3. My solution to the issue

# Topic 1

What is the Social Issue?



# Lack of Education in Developing Nations

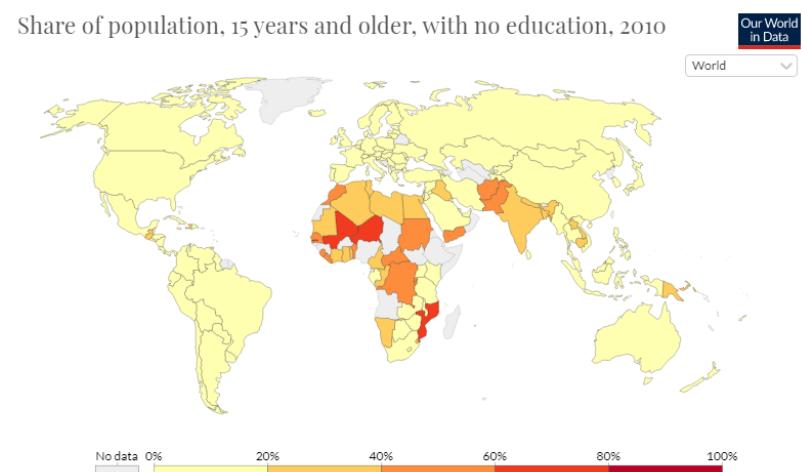
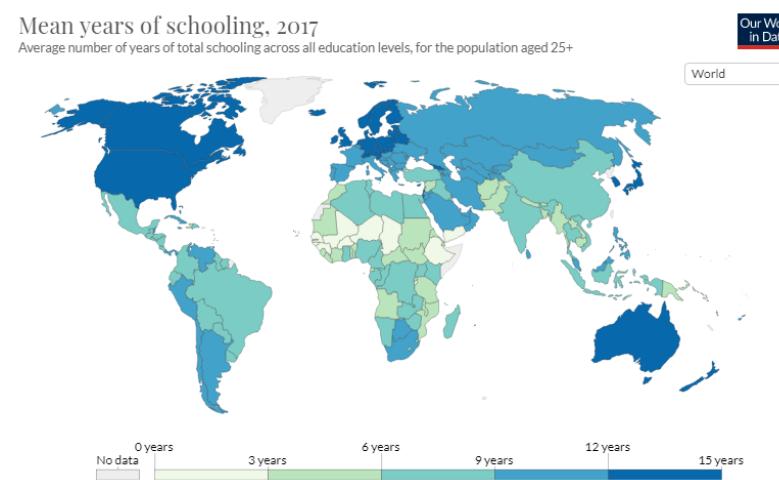
- 59 million children in developing countries do not have access to basic education
- Children in developing nations face many barriers
  - Unsafe schools
  - Poor quality of teaching
  - Fees family are unable to afford





# To Paint the Picture Graphically

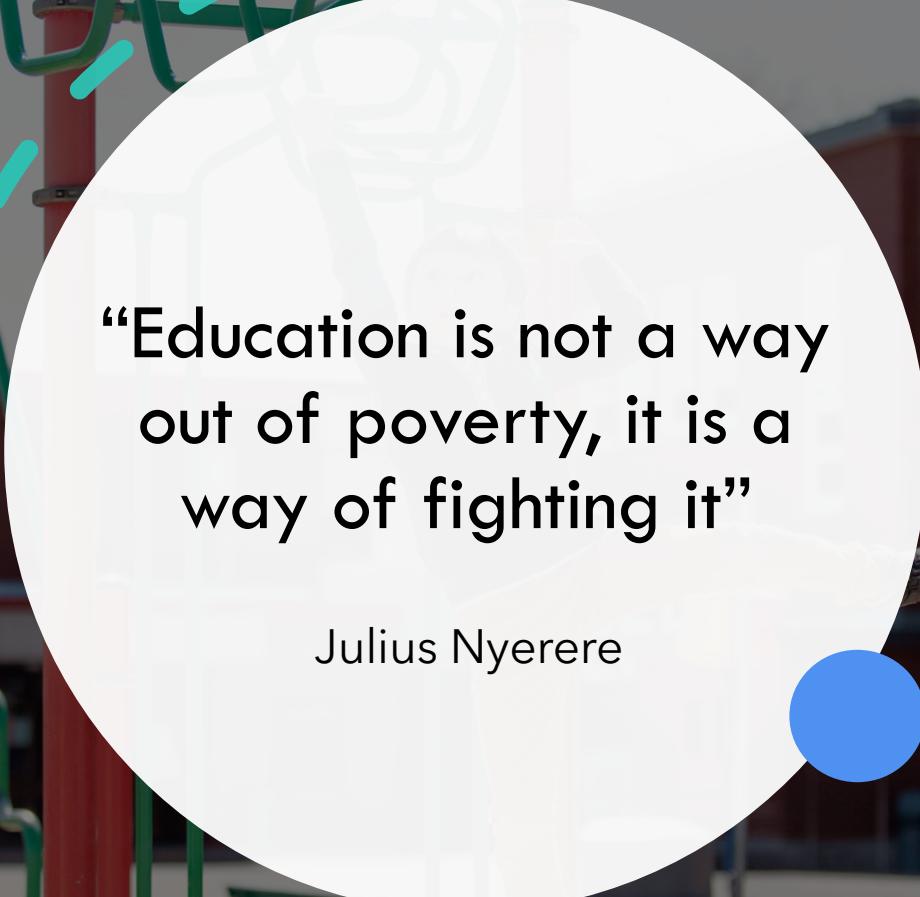
**Developing nations have dramatically lower education provided**



# Topic 2

Why is this Important to me?

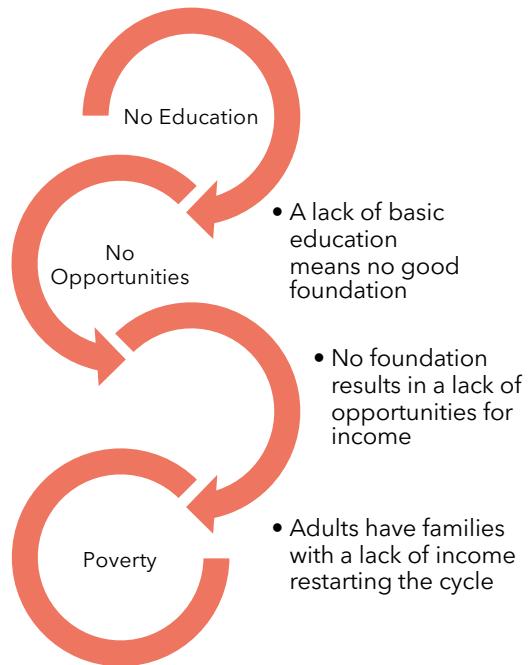




**“Education is not a way  
out of poverty, it is a  
way of fighting it”**

Julius Nyerere

# Education and Poverty Cycle



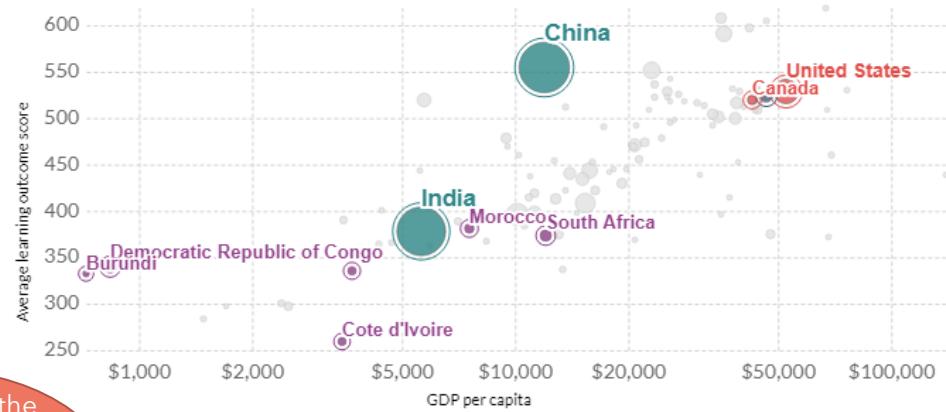
# Education's Positive Impact

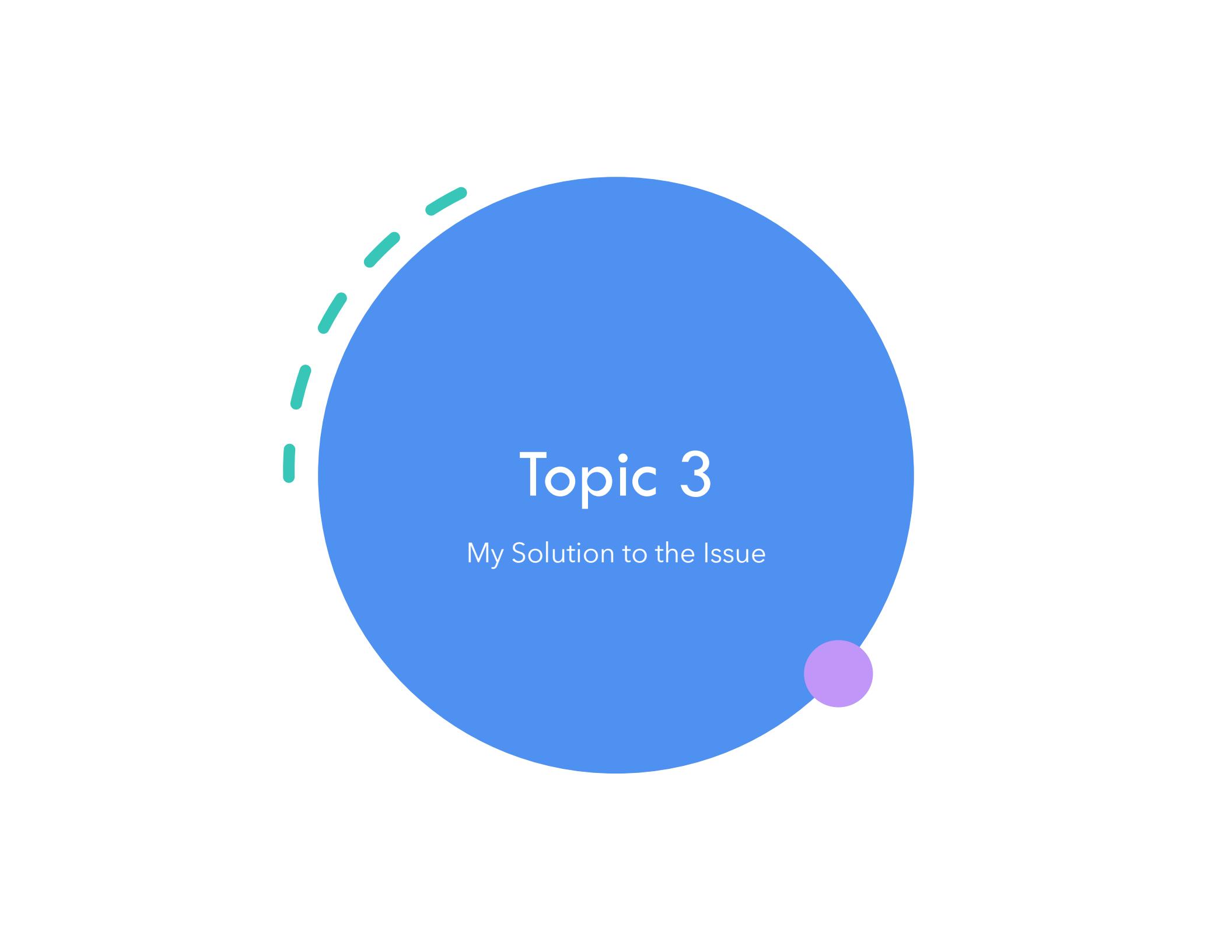
- The graph to the right illustrates education's positive impact
- When citizens in a country are more educated the overall wealth of the country goes up
- This means that investing in education in developing nations, more families can be lifted out of poverty



NELSON MANDELA APPROVES

"Education is the most powerful weapon which you can use to change the world."





# Topic 3

My Solution to the Issue



# Barriers in Providing Education



- Teachers are the most important predictor of student learning
- Developing nations lack trained teachers
- Result of this children go without learning basic math, writing, and reading skills



- Classrooms are often overcrowded in developing nations
- Schools can be falling apart, unsafe, and lack basic facilities
- Distance from home and school may be too far



- Learning in school is useless when it isn't being reinforced
- Learning materials are in short supply
- Learning materials are often outdated or worn out





# My Solution: If Packages can Fly, Education can Soar

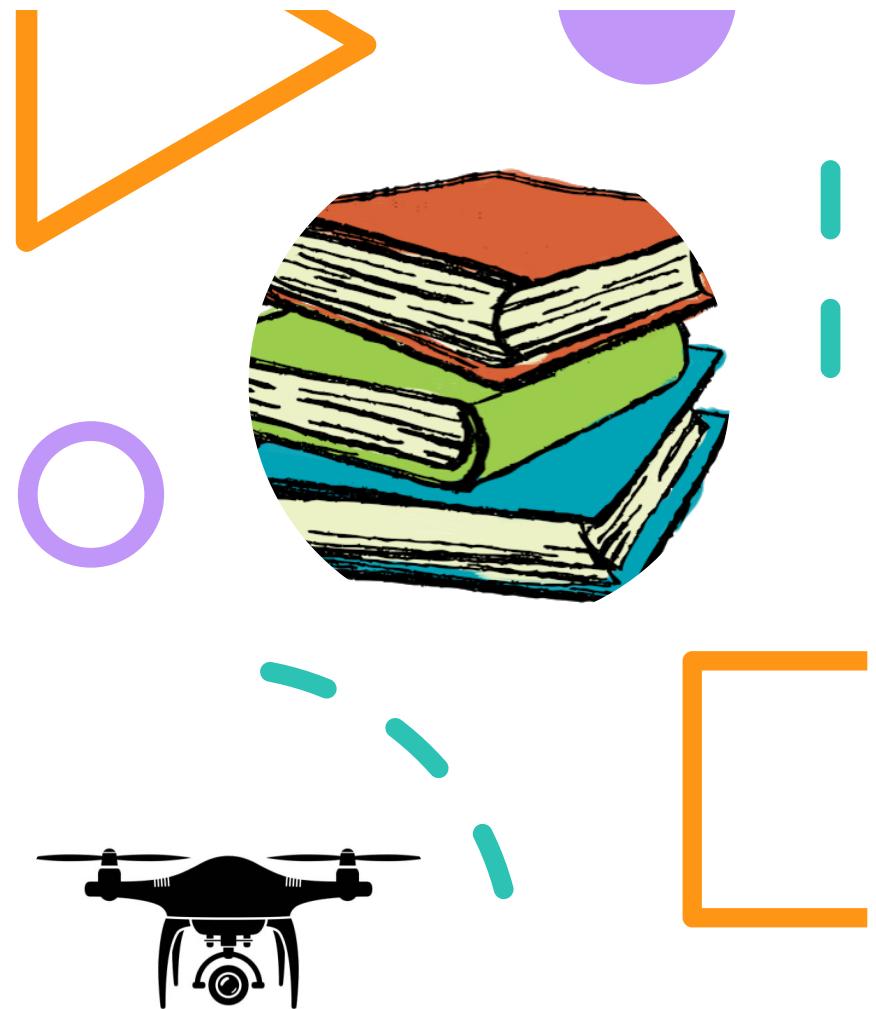
10/21/2020

My Solution to the Issue

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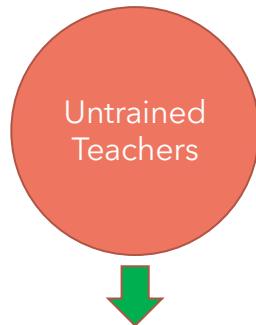
# Use of Drones in Providing Children Education

- Run Down of the Idea:
  - If you attach projectors and webcams to drones then you can project videos onto many places from far away
  - Then you can fly the drones to communities to teach basic reading, math, and writing skills
  - Drones can also be used to deliver learning materials in a new way
    - A “new way” could be educational programs similar to shows like Dora the Explorer
  - Bi-monthly or monthly check-ins could be used to determine the effectiveness of said education

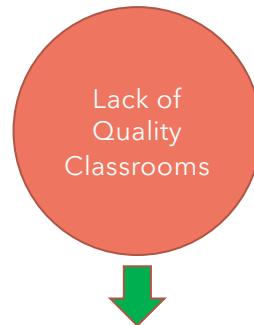




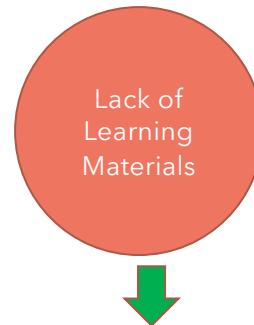
# How does it Overcome the Barriers?



- Only one trained teacher is needed to teach materials
  - If drones can relay the same class to different communities than only one recording is needed
- The only hurdle becomes how would one teach the materials through a video



- By using drones to project video in communities children could have classrooms virtually anywhere
- Children no longer have to travel vast distances to receive schooling
- Schooling becomes safer as it is in the presence of safe communities



- Learning materials can also be provided via video format
  - Video format may be similar to educational kid programs aired on the TV
- With videos learning material can't be worn out
- Videos also enable materials to be easily shared unlike books



# Overall Timeline



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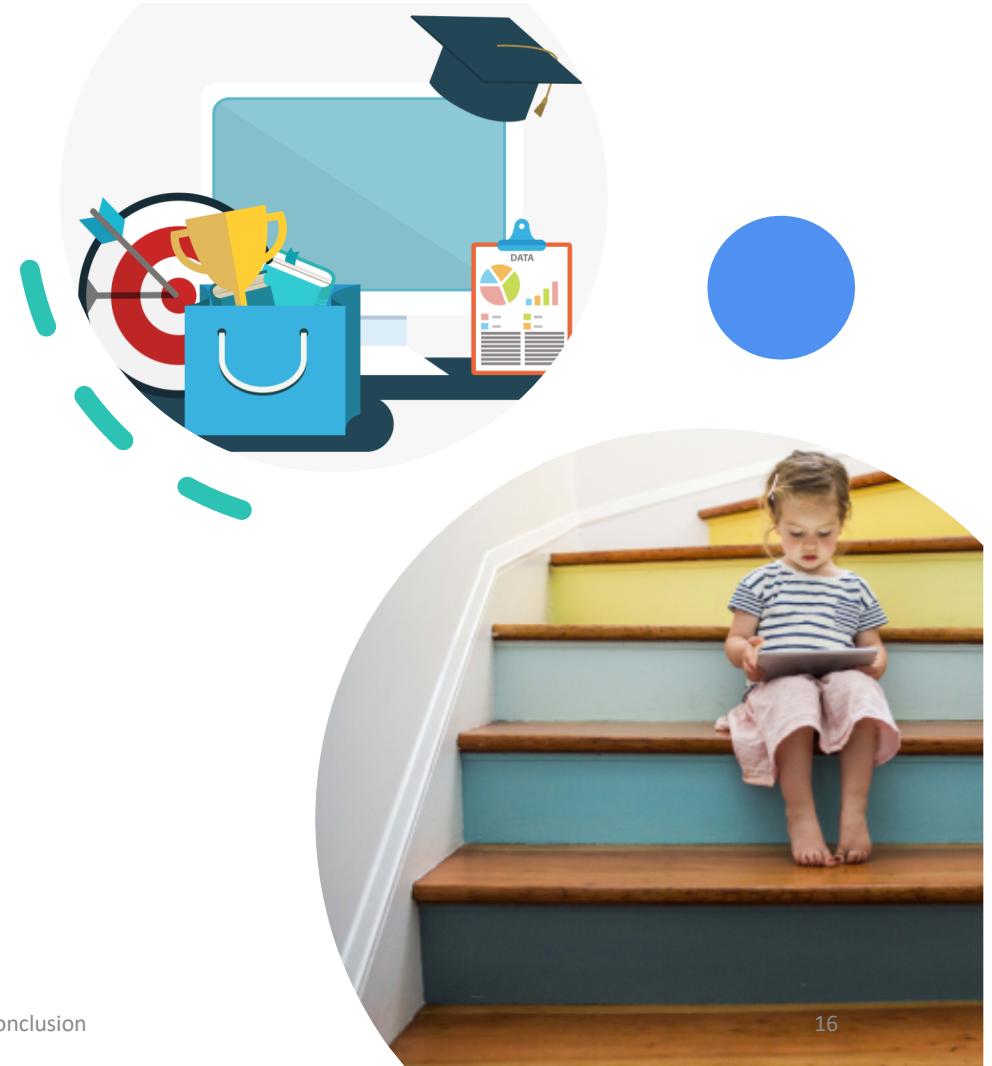
My Solution to the Issue

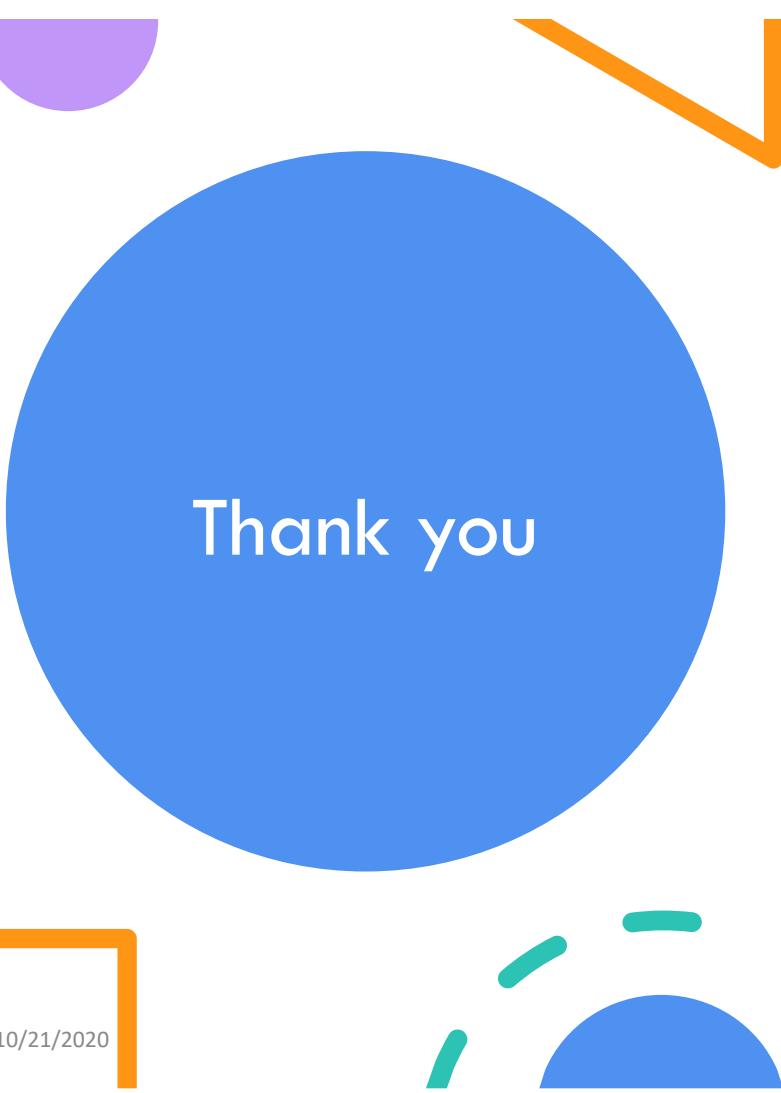
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# Summary

Education is important and vital to the growth and success of a nation. Many developing countries do not have the basic formal education needed to provide for children. This reduces the opportunities that children may have for the future, resulting in the education-poverty cycle.

With the use of drones and technology, basic education can be provided to virtually almost anywhere.





# Thank you

10/21/2020

## How to Contact

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## Sources:

[https://www.international.gc.ca/world-monde/issues\\_development-enjeux\\_developpement/human\\_rights-droits\\_homme/education.aspx?lang=eng](https://www.international.gc.ca/world-monde/issues_development-enjeux_developpement/human_rights-droits_homme/education.aspx?lang=eng)

<http://documents.worldbank.org/curated/en/706141516721172989/Global-data-set-on-education-quality-1965-2015>

<https://www.globalcitizen.org/en/content/10-barriers-to-education-around-the-world-2/>

Conclusion

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