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India, Factor 12: Human Diseases

Saving India

Throughout all human history there has been several problems that plague the world, but there are always people who are willing to take on these challenges to overcome and defeat the problems, to help this world and its people. I am striving to be one of these individuals. Starvation, pollution, and extreme population density. These are problems that plague India and make up a horrific titan of humanities mistakes.

Starvation, it affects 15.5 percent of India's general population, or in other words 194.6 million people. Looking from a different perspective for every 1,000 children born in India, 155 will be born into a life of starvation. With India having an average birth rate of 42,434 births per day it makes India's starving population increase by 6,577 . These new lives will have to grow up with the constant question of not "what's for dinner" but instead "will there be dinner", the even darker side of this shows that everyday 3,000 lose their life. This means only half of the children who are born into starvation will make it to adulthood.

The pollution is, a deadly cloud that engulfs the land stealing its peoples life slowly but effectively by causing health issues. Pollution is on the rise in India and it's not only affecting them, but is spreading into the surrounding countries as well poisoning their people as well. India and surrounding countries hold over half of the top 20 most polluted cities in the world, India itself holds 12 of the top 20 cities. India's overwhelming population holds 1.252 billion people but only has 1.269 million square miles. This totals out to be 986.6 people per square mile or 380.8 people per square kilometer. That is certainly a lot, but imagine how much more crowded the city's are. The spread of disease and crime is rapid among this tightly packed environment. Living in these types of conditions will only further destroy the country. It may thrive economically now but one day there might not be an economy to thrive due to disease taking over. Truly this is a concerning problem for any family living in India, even if your family doesn't starve you still have to live in overcrowded streets with the fear of disease and pollution which is already taking from your life every day. These three major problems make for a dangerous enemy. This titan that takes hundreds of thousands of lives each year, or over 4,700 lives per day. Even with such an epidemic, I believe every titan has its Achilles heel. Using a special type of plant I will be able to extract the pollution from factories and the outside air, filter them through the planet and still have it be edible and full of essential nutrients for those who are in need.

The three problems that I face when trying to save India were mentioned before starvation, pollution, and the extreme density of a expansive population. Together these three problems make the perfect situation for diseases to form. I say these problems make a titan because all of them are deadly and equally dangerous but since they have combined in one area they could wipe out the entire nation. The core problems is starvation. With 1.252 billion people who need to be fed in this country it is no surprise that there is starvation throughout the land but the amount is not a small matter, nearly 15.5 percent of its population 194.6 million living breathing people are fighting and striving for that next meal. Lack of nutrition at this level is causing things like anemia and malnutrition to become more common. Affecting the children, 30.7 percent of all children are underweight, 58 percent of children's growths are stunted by two years one, in every four children are malnourished, and every day 3000 children have their lives taken by illnesses caused by starvation. Starvation is causing larger and larger portions of the population to be trapped in becoming anemic or malnourished. This itself is problematic, think what if one of those children are going to be the next Einstein, world famous doctor or maybe they could be the boy or girl

who grows up to save someone precious to you, but instead they died because they couldn't get enough food to make it until tomorrow. Starvation is not easily preventable, humanity has seen that throughout history, but it is possible, in this day and age so our only boundary is us.

Next is pollution a deadly part of these three problems and a good part of what makes me see these problems as a titan. Pollution is a deadly force it is everywhere, it spreads similar to fog, and can cause health issues. In the year 2000 there was about 100,000 deaths per year due to pollution related causes, whereas in 2010 it increased by a factor of 6 rising to 620,000 deaths per year. This is a concerning view if it increases it will not only affect the citizens in India but everyone around the world as the pollution spreads. Pollution is causing anyone who lives in India to be at higher risks of asthma, lung cancer, strokes, or heart attacks due to this thickening cloud of pollution that they have to inhale every day. The more pollution India spews out the higher the death toll will be and one day the death toll will be higher than the birth rate. The number rose from 100,000 to 620,000 per year last time how much will it have increased in the year 2020 900,000, one million this number will only keep rising till it we do something. Pollution is weakening the citizens it's making physical work harder, increases the price of living, allows pathogens to invade the human body with ease, and shortens human life expectancy.

Finally, we come to the titans final piece the last part to have this titan completely wreak havoc upon India's people. The cluster of people condensed together, the people per square miles is about 986.6 but this an average number from across the total distance of India. The population in urban areas this number increases dramatically the proof is in India's capital New Delhi where there is 66,135 people per square mile . The population density, when it comes to things such as disease it will spread quickly throughout the India's cities because of how condensed every things is there. With a weakened body from pollution the average citizen will be more susceptible to disease in nearly every form. This will begin to make things like the tuberculosis, dengue fever, and pneumonia become even more widespread in this country and likely increase the damage they can inflict. The disease are scary enough on their own they don't need pollution and starvation ramping up their ability. In India there are all ready forms of tuberculosis that are antibiotic resistant if the disease mutates again it could form a high fatality rate being antibiotic resistant and fatal would put India and maybe the rest of the world in a hard position to face. This is a real threat to humanity as a whole imagine getting treatment to India's entire population it would be a impossible thing to do. These 3 problems acting together will slowly destroy India or take it out in one swoop. Unless something is to be done now. These types of conditions will only accelerated the spread of disease. In India's modern society if a fatal disease formed that was contagious by touch, air, or water it could wipe out India, removing more than one seventh of the world's current population all due to overcrowded cities, under nutritious diets and weakened bodies from pollution. These problems are a deadly combo and I believe they need to be addressed before a pathogen strikes India, or just as daunting and these three problems continue having the snowball effect they've been on then it won't need a deadly disease, it will take out India by it self.

If you're wondering "How is this my problem?" Every individual on this planet is affected in some way from this whether it be a new disease is made from this deadly combo, the pathogen goes from India to your country, or India's pollution cloud travels through your country.

Earlier I wrote as if this was some giant or titan with three main parts to it and that I believed it had an achilles heel. This achilles heel or weakness I write of is a simple plant that has been around for millions of years, it can destroy pollution and use it to produce food for the people. This miracle plant I speak of is called algae. Algae thrives off the atmosphere that polluting factories release making the algae cell size grow comparably larger and multiply nearly twice as fast compared to normal growing methods. Algae is a nutrient packed plant that could provide the extra boost to help save India from its deadly problem. There are different types of algae that produce different types of nutrients growing a variety of algae will be beneficial to the health of the citizens. Adapting the algae genetically or some other way so that it can

filter out more harmful pollutants or produce more food for less water would also be beneficial. The algae growing systems themselves need to be connected to some kind of plumbing system. The algae will work by having a fan take in the pollution allowing water to leak in using a plumbing system and an area to break down the algae cells so it can have a more nutritious effect. If there is no plumbing system near by then we will have to construct one because getting food to the people, getting rid of pollution, and stopping new diseases from forming is more important than money. We have a solution to the food and pollution but what about the population density problem, of course we won't be able to lower the numbers of people per square mile but we will be able to lower the amount of homeless citizens per square mile. This can be done by stationing block homes for people to live in. The block homes will use a foam technology where no air can get through, rodents are deterred, fires cannot be started, temperature stays the same, and the home easily stays up through disasters. The company that builds homes like this is called Extreme Panel Technology Inc. This company ships buildings all over the world and it takes them only a few to days build a house when on the construction site. They can ship an entire 2000 square foot home by boat across an ocean for about 6000 dollars. I spoke with the company and they can build an 8'x 8'x 8'foot living block for 2208 dollars each which can then be added onto and stacked. This will work well if the houses are stacked like blocks because India has 1.66 million homeless and not much space to put them. The 2208 dollar block does not include things like siding or sheet rock but is still plausible space to live in as it will keep out pollution and bugs which spread and enable disease. The fact that these buildings are some of the healthiest homes in the world helps because all the people in India do need a break from the excess pollution. Lots of people in India are experiencing health problems as well which the block house will minimize because the bugs, pollution, and close quarters won't be able to touch anyone inside and that means minimal risk of disease for the amount of time spent in one of these buildings. An algae station can either be put by easily obtainable areas, or near these block house. The algae station will focus on removing pollution from the atmosphere and using it to grow the algae so the people have a source of food and won't be as susceptible to pathogens. The funding for this is another thing, India has a vast amount of wealth and their citizens want to change the air quality, but it doesn't seem like India is pouring out money from their pockets. India issued a day where people weren't supposed to use their cars to help with the pollution. From this India's pollution dropped drastically that day, but this came of no cost to the government so asking them for money seems to be a questionable matter. I could go around and ask the 185,000 millionaires in the country to provide help as the matter seems to concern them as well, if this were to fail I would resort to social media and hopefully start a movement that could drag in money that is needed. Whether it be from other countries or India the pollution the world is spewing out is drastic and helping to put an end to it is a goal many people are trying to achieve so I believe I could get funding to produce the block houses and algae units.

Saving India is not an easy task, it has 3 major problems that may cause it to gradually disappear: starvation, pollution, and population density. As I stated before when these three combine they can be a titan to defeat with a population of 1.252 billion citizens it is a tricky task to supply all of them with food and water. It is no surprise that India is having problems with anemia and malnourishment along with other diseases. The pollution adds on to this by causing health problems. The people are starting to slowly developing disease or illnesses because of these factors, but it may be the density of the cities that wipes out the people of this land. India has the perfect condition for disease to spread and quickly take over, the tight spaces, close quarters and the hot climate all attribute to this. The cities are the perfect position for a mutated disease to take over. These three major problems are affecting the individual citizen majorly as well. Starvation even if a citizen of India is not part of the group that classifies as this. They will still have to deal with problems of the overcrowded street which increases the chance of getting sick, and deal with the fog like pollution that plagues the country. India is not a safe place for the any citizen it is at a high risk for health problems and disease. Even with all of these problems algae may be able to fix them. By having an apartment where the algae is grown and the homeless can live you take out the overcrowded streets and have vents that take the pollution through the algae to get filtered but also end up helping the algae grow after this the algae can then be used to feed the people. The only foreseeable problem with

these homes with algae is the cost, it may be cheaper than normal but housing 1.66 million homeless is a tall order and requires a lot of money. If you were to house everyone 4 people per block you would end up with 415,000 blocks costing 916,320,000 dollars getting that much money takes a long time and that's just for the homes. Food is not a privilege, it is a right shared by all, do not make the mistake that allows your wealth or greedy to be more important than another man living right. Greed can make you value objects or materials more than others lives, men and women have constructed buildings that damage the lives of those around them all for money, this is greed. These problems are constructed by human mistakes. This is why I call these problems a titan and what it takes to bring the titan down.

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