Envision | Issue Statement Paper

Group Name
Zeus

Authors
1. Victor Moreno
2. Anastasia Lerma
3. Andrew Keenan
4. Alyssa Lawson
5. Tristan Murray
6. Maria Jose Guerrero

Issue and Topic
Drone Safety / Drone Production

Background on the Issue
In Britain, there were 15 reports of near misses between drones and airplanes throughout 2016. Recently, pilots have been calling altitudes that drones fly at as "unacceptably high" and risky. In 2016, TV presenter Richard Madley called the police reporting a drone hovering outside of his home, monitoring him. More seriously, "suicide drones" have been used in the battles between Azerbaijan and Armenia; drones have been equipped with explosives set to explode at a specific time. All of these instances are security threats and need to be addressed.

Problem Statement
What can be done in order to govern drones in order to ensure that they play a safe and healthy role in society?

Description of the Problem
These laws ensure that the people who are piloting drones are healthy and qualified to do so, which would also ensure the public's safety. Perhaps these laws have never been set in place since drones are relatively new and we are still learning new uses for them.

Major Area(s) and Population(s)
Affected Azerbaijan and Armenia, America and Great Britain.

Description of Needs to Fulfill
Put laws in action to make drones safer and more helpful in today's society. We also need to make sure to do background checks before selling drones, just in case the buyer wants to use it to spy on someone or as a suicide bomb.

Sustainable Solution: Laws and background checks.
1. Before purchasing a drone, one must have completed a background check with Zeus©.
2. In order to fly a drone, one must have a pilot's license. If one does not have a valid pilot's license, they will not be allowed to fly a drone.
3. One may not pilot a drone anywhere above people.
4. A drone's speed may not exceed 100 mph.
5. A drone must be flown in line of sight and no further.
6. One must give notice to an airport if one intends to fly their drone within 2 miles of the airport.
7. One must obey their community's guidelines concerning drones.
8. During disasters or states of emergency, there will be temporary restrictions on flying drones.
9. Pilots must only fly their drones in designated fly zones. If pilots fly their drone on a private property or no fly zone, they can be fined up to $10,000.

Description of Solution
The U.S. government can put laws in place to make them safer. They could also make drone companies do background checks before allowing a consumer access to a drone.

Key Partners and Resources Needed
The U.S. government, GoPro, Alphabet and Parrot. All of these companies are major producers of drones, and we would need their support. We will also need sponsors.

Potential Challenges and Workaround
No sponsorships from drone companies to do background checks. We would also need the government to approve of our laws that govern fly zones and no fly zones.

Timeline
In the span of 5 years, we could make drones safe and helpful in society.

Expected Impact
We want to decrease near misses and increase public safety.

Action Requested

The government and ALL drone companies must help us put these laws in place to make drones safe and helpful in society.

Research Sources

www.droneblog.com
www.telegraph.co.Uk
www.informit.com