

THE Port - Hackathon at CERN

Drone Planning Platform for Conflict Zones



Summary:

Drones are becoming increasingly viable and invaluable as tools for monitoring and assessing disaster and relief zones. However there remains a need for defining flight plans, particularly in areas where airspace may be restricted, such as a conflict zone. Legislation and permission procedures vary strongly by region and therefore cause significant delays in the planning of flights. Discovering these restrictions and implementing an algorithm to plan flights around them would be ideal.

Goals:

Define ways to input and discover flight restrictions on drone usage.
Online platform to define flight paths and resolve flight plans to avoid restrictions as well as coordination between different aid organizations.
Further developments as of interest:

- Usage of drones to deliver aid needed (depending on size/distance)
- Drones as camp monitoring/situational monitoring tools
- Different types of drone (fixed wing, rotary wing, tracked)

Resources:

<http://irevolution.net/2014/07/09/uavs-for-disaster-risk-reduction-haiti/>

<http://www.rescue.org/blog/drones-r-us-reflections-use-uavs-humanitarian-interventions>

<http://www.ictworks.org/2015/01/09/how-to-ethically-use-drones-in-international-development/>



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