

# The Good Drone Lab: Codebook – 2016

www.gooddronelab.com

## **Report**

*Up in the Air: A Global Estimate of Non-Violent Drone Use (2009-2015)*

## **Dataset**

*GDL – 2016 Report – Dataset.xls*

## **Dataset authors**

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## **Dataset compilation and cleaning**

*Elizabeth Cychosz and Merlynn Yurika Tulen*

## **Final+Clean\_ID**

*Designated primary identification for individual cases for final clean dataset for web*

## **Actual\_ID**

*Designated identification for individual cases from original dataset*

## **Code\_Categ**

*Coding categories to distinguish between Lexis Nexis baseline and other sources (New America Foundation, Bard's Drone Lab, etc.) not included in the baseline*

*LN = Lexis Nexis baseline. Original source of coding data, dates ranging from January 1, 2010 to September 9, 2015.*

*O = Other sources not included in the Lexis Nexis baseline. Primarily: Bard's Center for the Study of the Drone, iRevolution.org, and New America's Drone Project.*

## **Coder\_Name**

*Names of researchers who coded the individual cases*

## **Use\_Date**

*The date of reported drone use. If none was listed, the date it was reported was used.*

## **Use\_Year**

*The year of reported drone use, based on Use\_Date.*

## **User\_Name**

*The name of the reported drone user. If no name, then profession; if no profession and no name, user was coded as unknown.*

**User\_1**

*Coded categories of primary drone users:*

- 1=Unknown
- 2=Named Individual
- 3=Civil Society Group
- 4=Science and Academia
- 5=Business
- 6=Government
- 7=Intergovernmental Organizations

**User\_2**

*Coded categories of secondary drone users according to typology listed above.*

**User\_3**

*Coded categories of tertiary drone users according to typology listed above.*

**UserCollab**

*Distinguished between cases that did or did not have collaboration between two or more user categories.*

- 1=No
- 2=Yes

**UserHome\_1**

*The home/origin country of the drone user(s).*

**UserHome\_2**

*The home/origin country of other drone user(s) in a collaboration.*

**UserHome\_3**

*The home/origin country of other drone user(s) in a collaboration.*

**UserHome\_Cont1**

*The home/origin continent of the primary drone user(s).*

- 1=North America
- 2=South America
- 3=Europe
- 4=Asia
- 5=Africa
- 6=Australia
- 7=Antarctica
- 8=Others

**UserHome\_Cont2**

*The home/origin continent of the secondary drone user(s) in a collaboration, according to typology listed above.*

**UserHome\_Cont3**

*The home/origin continent of the tertiary drone user(s) in a collaboration, according to typology listed above.*

**UseDescrip**

*Brief description of the drone use. Often taken from the source document (i.e., blog post or website).*

**IntendUse1**

*Categories of primary drone uses. See Appendix A for detailed descriptions.*

- 1=Personal use
- 2=Agriculture
- 3=Art and entertainment
- 4=Commerce
- 5=Emergency services and disaster response
- 6=Journalism
- 7=Health and public safety
- 8=Social movements and advocacy
- 9=Surveillance
- 10=Scientific research
- 11=Environmental and wildlife conservation
- 12=Crime
- 13=Military
- 14=Police
- 15=Other

**IntendUse2**

*Categories of secondary drone uses, according to the typology listed above. See Appendix A for detailed descriptions.*

**Use\_Disc**

*Distinguished between drone uses that did or did not need to be verified by research group*

**UseExtent**

*Described whether the drone use was theoretical, a test, or an actual use.*

- 1=Theory
- 2=Test
- 3=Real Use

**FocusedUse**

*Was the drone use targeting a particular subject? In other words, were police using it to find a suspect, or marine biologists using it to track marmots?*

- 1=No
- 2=Yes

**FocCntry\_1**

*The primary location country of the drone use.*

**FocCntry\_2**

*The secondary location country of the drone use.*

**FocCntry\_3**

*The tertiary location country of the drone use.*

**FocCntry\_Cont1**

*The primary location continent of the drone use.*

1=North America

2=South America

3=Europe

4=Asia

5=Africa

6=Australia

7=Antarctica

8=Others

**FocCntry\_Cont2**

*The secondary location continent of the drone use, according to typology listed above.*

**FocCntry\_Cont3**

*The tertiary location continent of the drone use, according to typology listed above.*

**FocusedRes**

*Was there any government response reported?*

1=No

2=Yes

**FocRespDef**

*Defined specific response (if any).*

**Source\_1**

*The primary source name. Usually the name of a source (iRevolution; Center for the Study of the Drone, etc)*

**URL\_1**

*The link or citation of primary source.*

**Source\_2**

*The secondary source name.*

**URL\_2**

*The link or citation of secondary source.*

**Source\_3**

*The tertiary source name.*

**URL\_3**

*The link or citation of tertiary source.*

**Notes**

*Additional notes or comments on individual cases.*

**Code+Clean\_ID**

*Designated identification for individual cases for dataset analyzed in Global Drone Report*

## Appendix A: Definitions of Types of Use

	Type of Use	Definition of Use Type	Example of Use
1	<b>Personal use</b>	"Personal use" indicates all usage undertaken by an individual for no visible material gain, artistic contribution, research objectives, and so forth.	Recreational flights, hobbyist activities, etc.
2	<b>Agriculture</b>	"Agriculture" describes any type of farming or production of food stuffs through agrarian means. Can also include uses that preserve farmland, crops, etc.	Using drones to spray pesticides to kill avocado fungus in Florida.
3	<b>Art and entertainment</b>	"Arts and entertainment" includes the use and capture of the expression of creative imagination and skill in visual form. This also encompasses the activities, events, or performances designed to provide enjoyment and/or amusement.	Drone graffiti, X-Games drone coverage, scenic landscape/landmark photography or videography, etc.
4	<b>Commerce</b>	"Commerce" indicates all for-profit drone usage by commercial actors, such as small and large businesses.	Construction, building / land / safety / health/population/animal inspection, delivery services, data collection, photography.
5	<b>Emergency services and disaster response</b>	"Emergency services and disaster response" includes uses with the assumed purpose of short-term emergency response and disaster relief, whether or not the state is involved (as is often the case).	Examples include any use of a drone in response to natural disasters, accidents, etc.; by any actor, most commonly first responders such as fire departments, police departments, and medical personnel.
6	<b>Journalism</b>	"Journalism" includes the broadcasting, collection, and dissemination of information and news. Monitoring, investigating, either as a collective or individual entity to provide knowledge to the public ... (corporate, advocacy, citizen)	The New York Times, iReporting, Mother Jones, Charlie Hebdo
7	<b>Health and public safety</b>	"Health and public safety" includes all uses with the assumed purpose of ensuring public health and/or safety.	Examples include crowd monitoring by law enforcement, pre-emptive dispersal of medical supplies not associated with emergency services or disaster response, and the monitoring or mapping of locations (such as intersections) in order to improve safety protocols or policies.
8	<b>Social movements and advocacy</b>	"Social movement and advocacy" use includes efforts by civil society actors to document protest events, or to use drones as a component of the protest itself.	Drones in Kiev, Baltimore, Budapest

9	<b>Surveillance</b>	"Surveillance" includes close observation over a designated target or group of targets. This typology is often associated with government officials and law enforcement; yet, it can be associated with private actors as well. Examples include: police monitoring crowds during riot or protest, individual(s) monitoring private property.	Police use drone to survey riot and monitor crowds
10	<b>Scientific research</b>	"Scientific research" includes investigations into the natural world that appear to exhibit a "science for science's sake" mentality rather than an industrial research and development mentality. Oftentimes this typology is associated with academic institutions, public or private.	Examples include undersea mapping or extraterrestrial exploration, as well as flying into dangerous weather conditions.
11	<b>Environmental and Wildlife Conservation</b>	"Environmental and Wildlife Conservation" includes all efforts to monitor and protect habitats, ecologies, particular species and animals in general.	Examples include observing wildlife, habitat monitoring, anti-poaching operations and animal welfare
12	<b>Crime</b>	"Crime" indicates uses in which drones are used to achieve an illegal objective.	Delivering contraband to prison inmates, firing a weapon, terrorism, hacking
13	<b>Military</b>	"Military" use in this study captures non-weaponized use of drones in support of non-combat operations.	Supporting humanitarian aid, transport, infrastructure (e.g. mobile WIFI platform)
14	<b>Police</b>	"Police" use involves the incorporation of drones into traditional police efforts.	Monitoring international borders, identifying tax evaders, monitoring riots, surveilling criminal suspects
15	<b>Other</b>	"Other" describes any other use that does not fit into this category.	Mapping, peacekeeping, humanitarian use