



Drone Photography

UNMANNED AERIAL VEHICLES
WITH CAMERAS

Drone Photography

The History

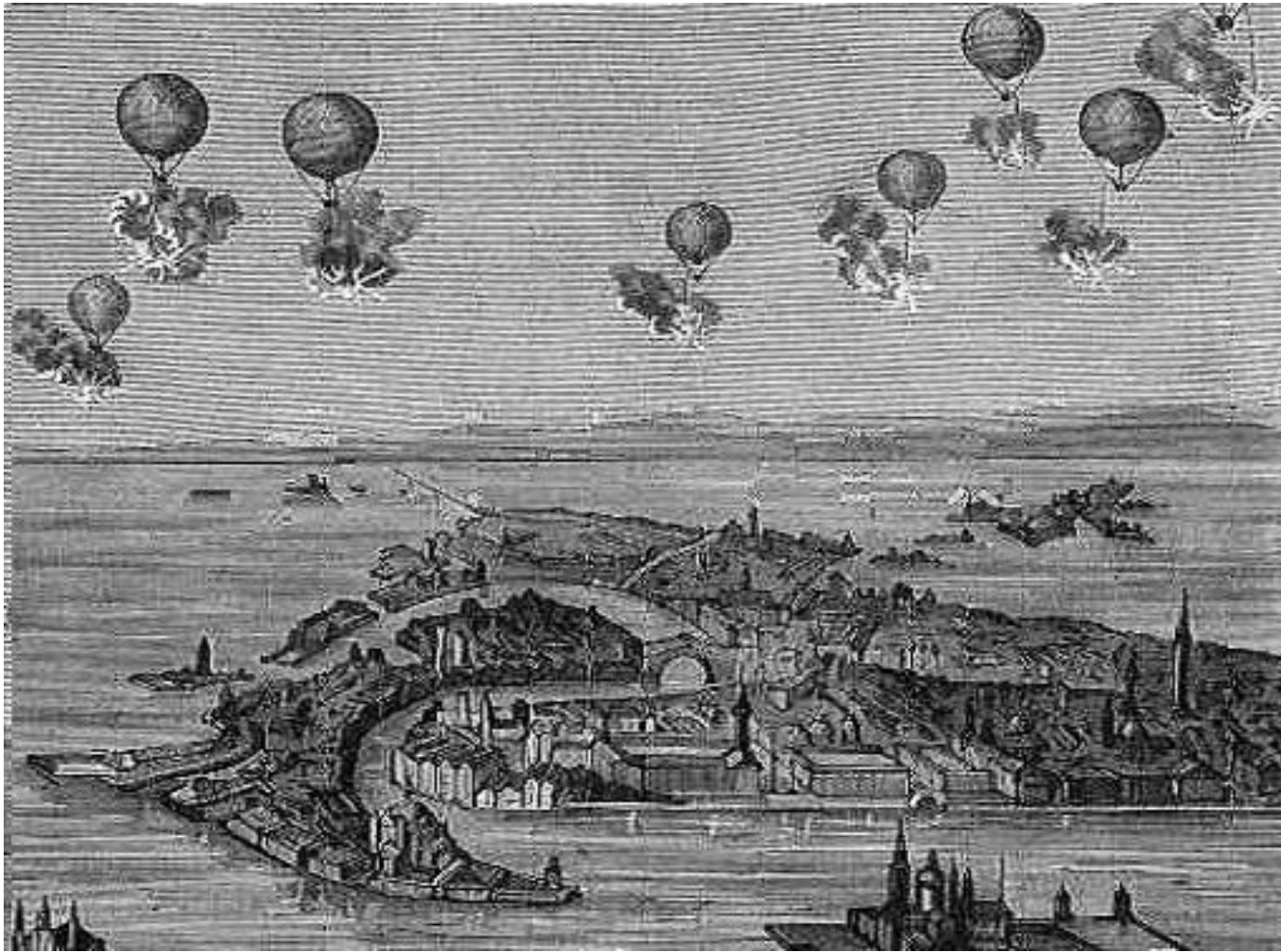
The Technology

The Photos

The Rules

The Issues





Military History

1839 – Austrian soldiers attacked the city of Venice with unmanned balloons filled with explosives.

Quadcopters

First Quad was built in 1907. It held one person and flew two feet above the ground for about a minute



Recent History

Non-military drone use began around 2006.

Mostly used by Government agencies for disaster relief, border surveillance and wildfire fighting. Corporations began using drones to inspect pipelines



History of Recreational Drones

2010 – Parrot – First
“ready to fly”
drone.

2013 – DJI
Introduces the
“Phantom”



The Technology

Remote controlled flying cameras that send live 4k video to your phone.

Technology

- ❖ GPS
- ❖ Anti Collision Sensors
- ❖ Remote
- ❖ Return To Home
- ❖ Intelligent Flight Modes
- ❖ GEO Fencing
- ❖ First Person View – FPV Goggles
- ❖ Onscreen Real Time Flight Parameters





In Flight (GPS)



GPS



19



HD



59%



12:55

ISO
100

SHUTTER
120

EV
+0.0

WB
Sunny

SD
2.7K/24

CAPACITY
99:59



AE

Exposure



D 1232 FT H 310 FT





Photos

Robson Ranch Photo Club

RR













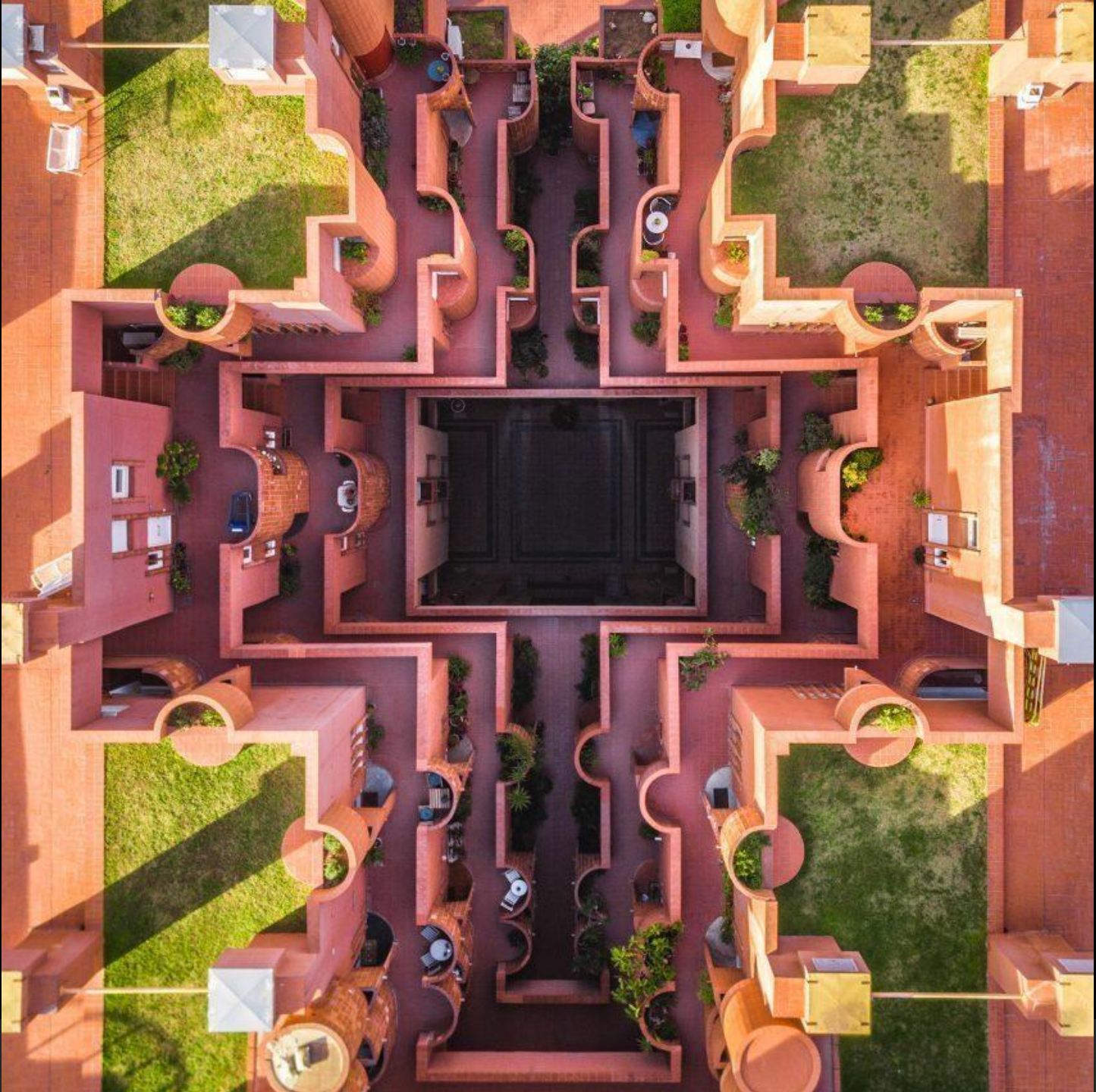






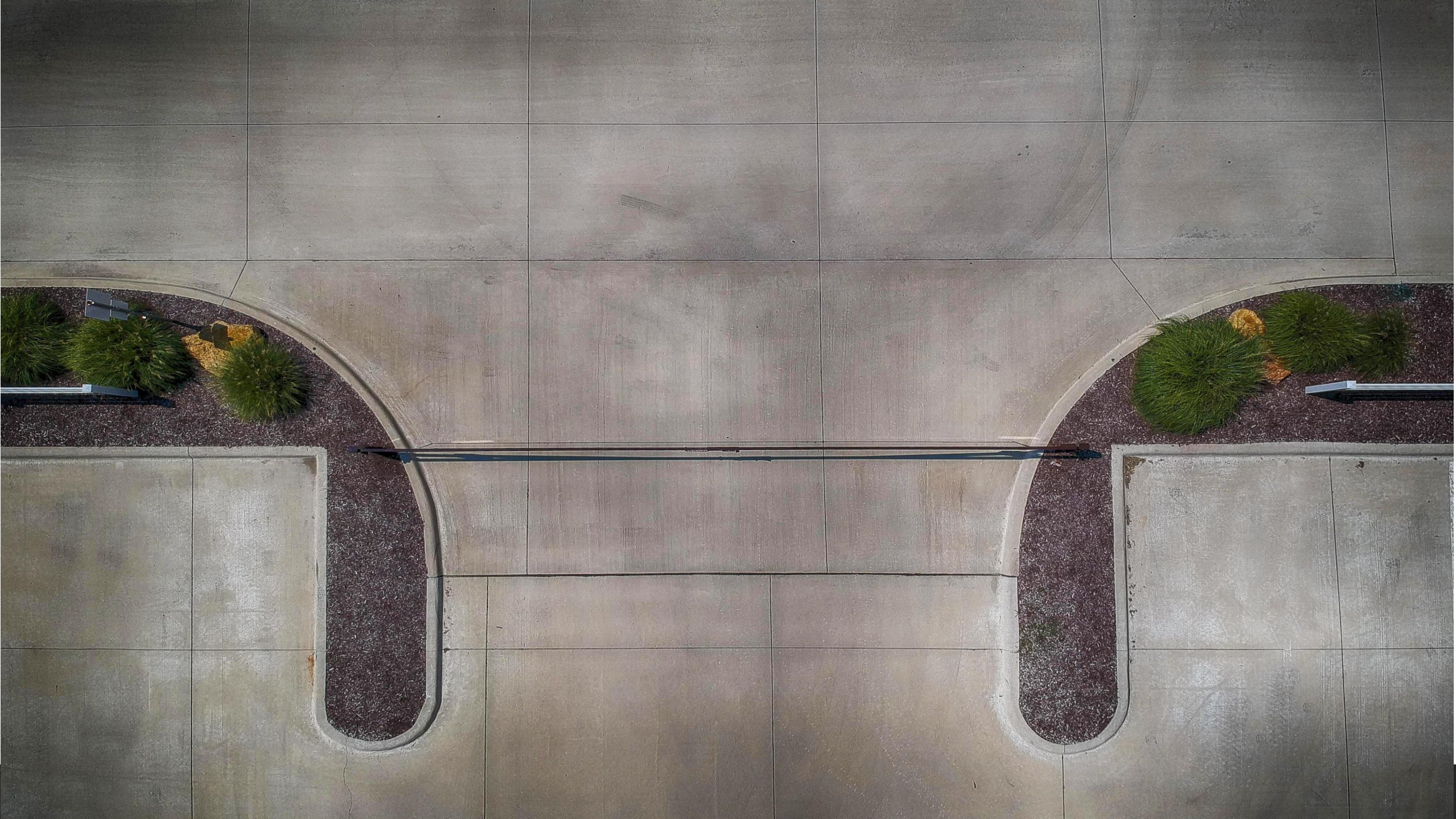










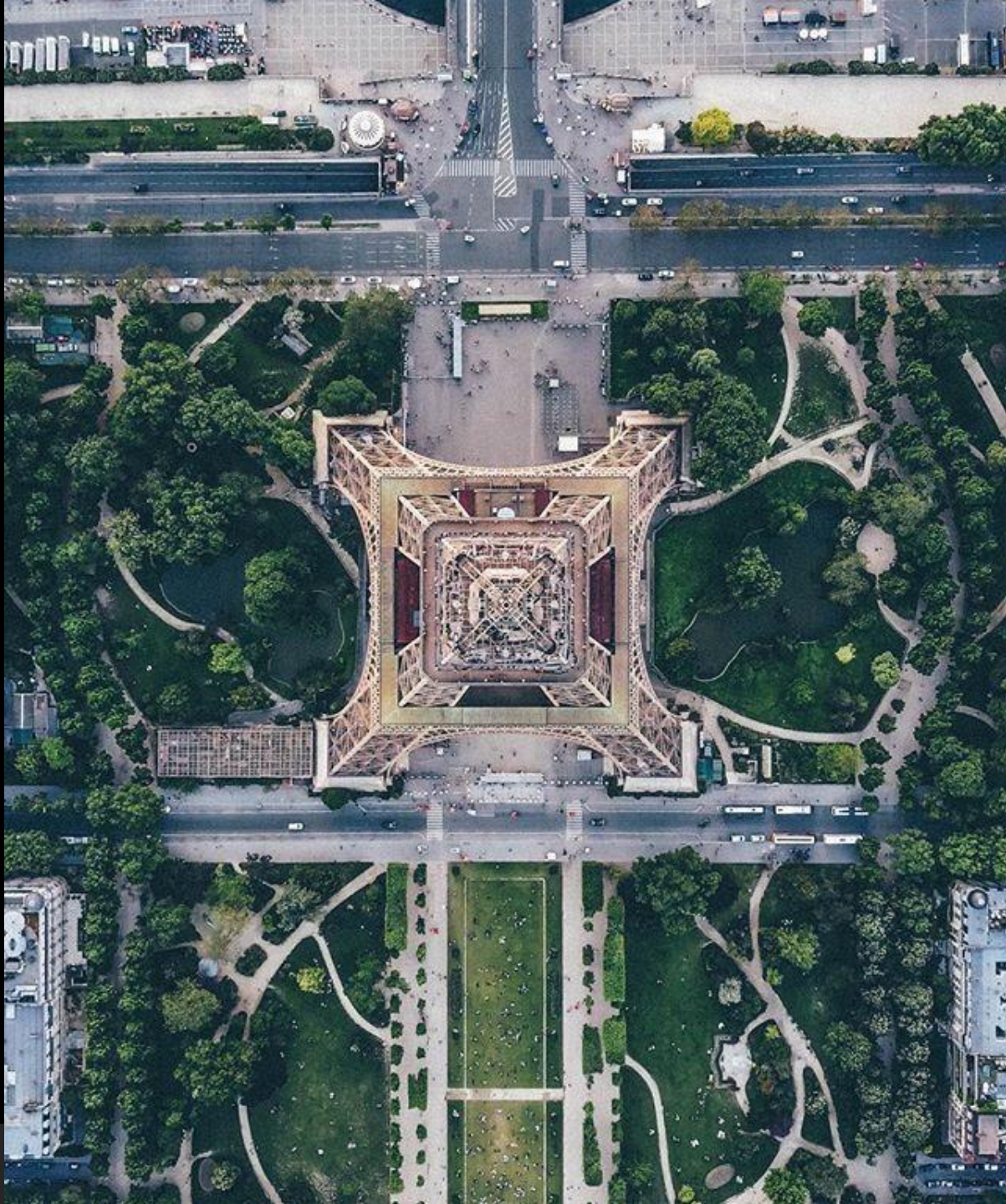














SMITHY & PAULSON

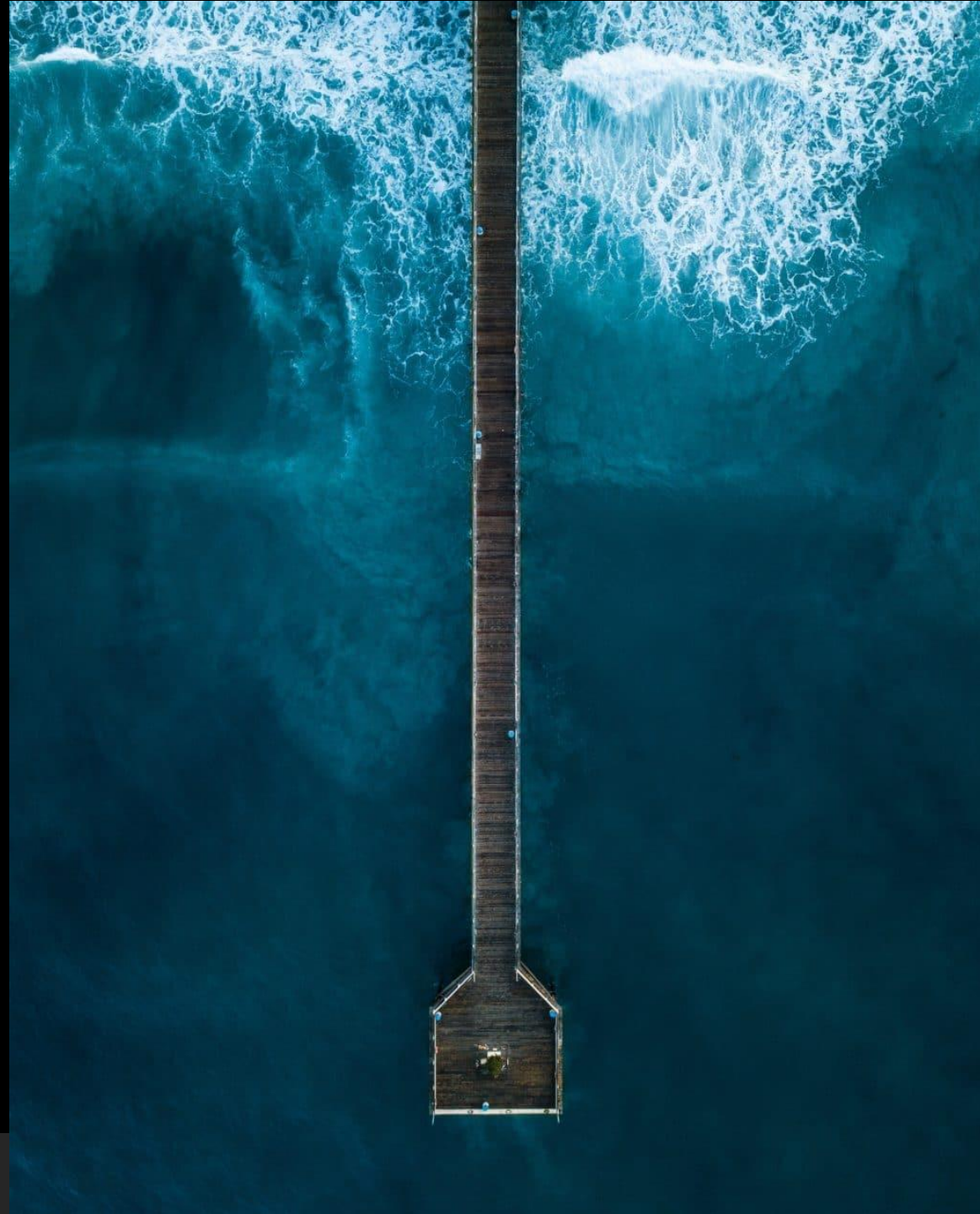


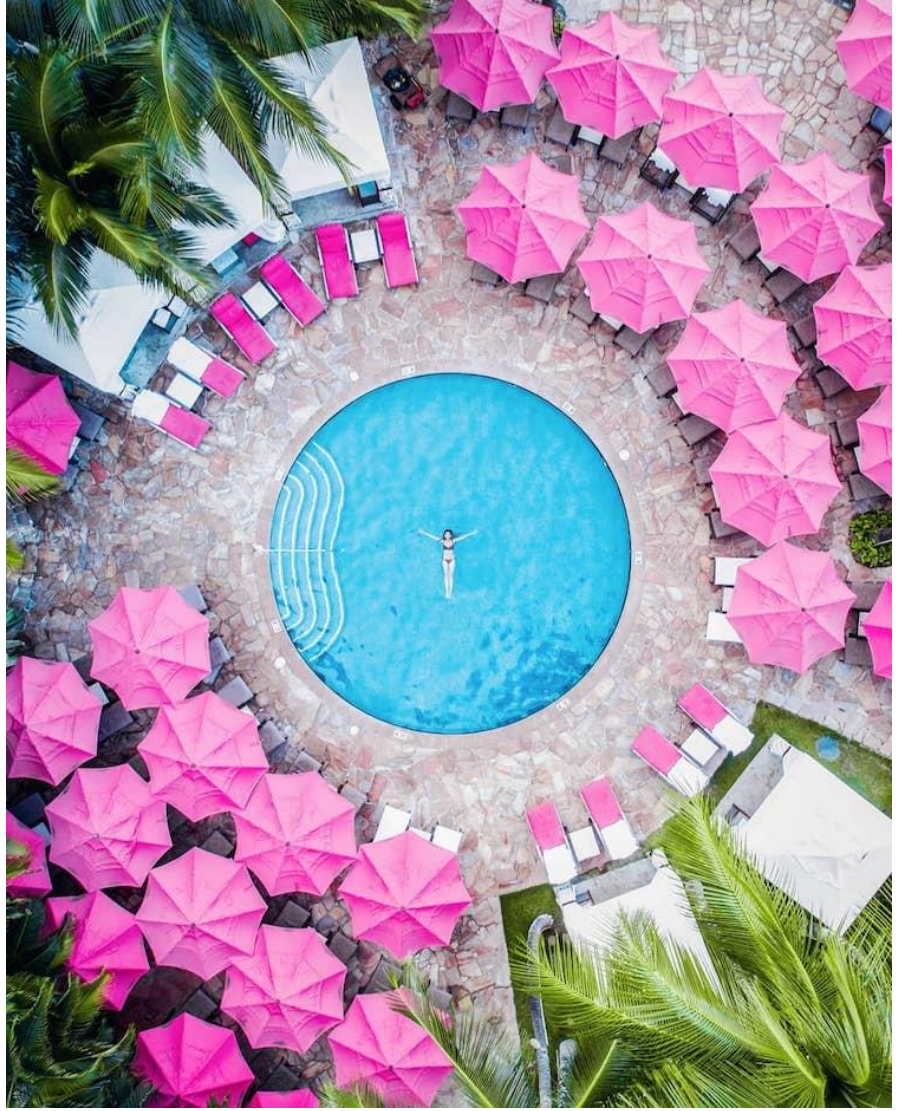
















Rules

- ❖ The FAA establishes rules and regulations for Drone Use
- ❖ 400 foot altitude limit
- ❖ Must keep within line of sight
- ❖ Must observe FAA regulations with regard to airspace restrictions
- ❖ Commercial Drone Pilots must be licensed
- ❖ Recreational users do not have to have a certificate
- ❖ You must register your Drone with the FAA
- ❖ You cannot fly over crowds people
- ❖ You cannot fly at night

Issues

1. Safety
2. Privacy
3. Nuisance