



VTOL Infrastructure Standards and Guidelines

Rex J Alexander – President
Five-Alpha, LLC
rex@five-alpha.com
260-494-0891

5α
Five-Alpha LLC

3/7/2019



Vertical Flight
Society

"Electric VTOL Revolution"



**2019
HAI HELI-EXPO**
BY HELICOPTER ASSOCIATION INTERNATIONAL
March 4-7 • Atlanta

WHO HAS OVERSIGHT?

- Federal Aviation Administration (FAA)
- International Civil Aviation Authority (ICAO)
- State D.O.T.
- Local Municipalities
- Fire Marshall

ASTM

- Currently recognized standards for Vertiports: **ZERO**

FAA INFRASTRUCTURE OVERSIGHT



ADEQUATE
135 vs 121
CERTIFICATED

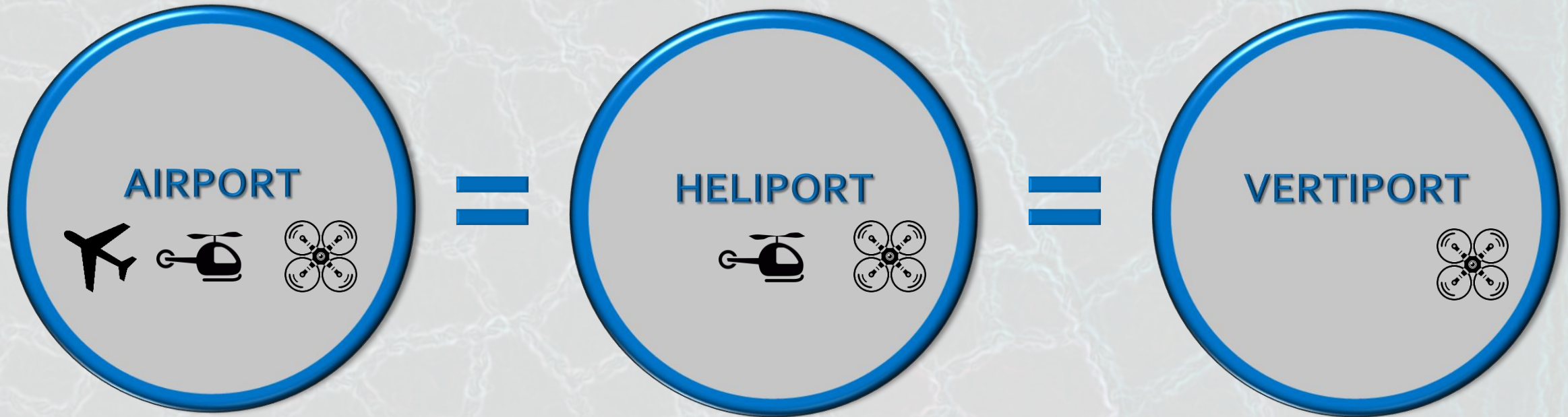
BASIC FAA 5010 STATISTICS

Reference: FAA 5010 data base



Landing and Takeoff Sites in U.S.	19,629
Heliports in the U.S.	5,869
Public Owned Heliports	664
Public Use Heliports	60
Private to Public Ratio	99 to 1
True Heliports That Used AIP Funding	1 <i>(since 2007)</i>
Estimated Missing Hospital Heliports	1,900

ASSUMPTION?



WHAT IS THE “DESIGN AIRCRAFT”



>150



Questions