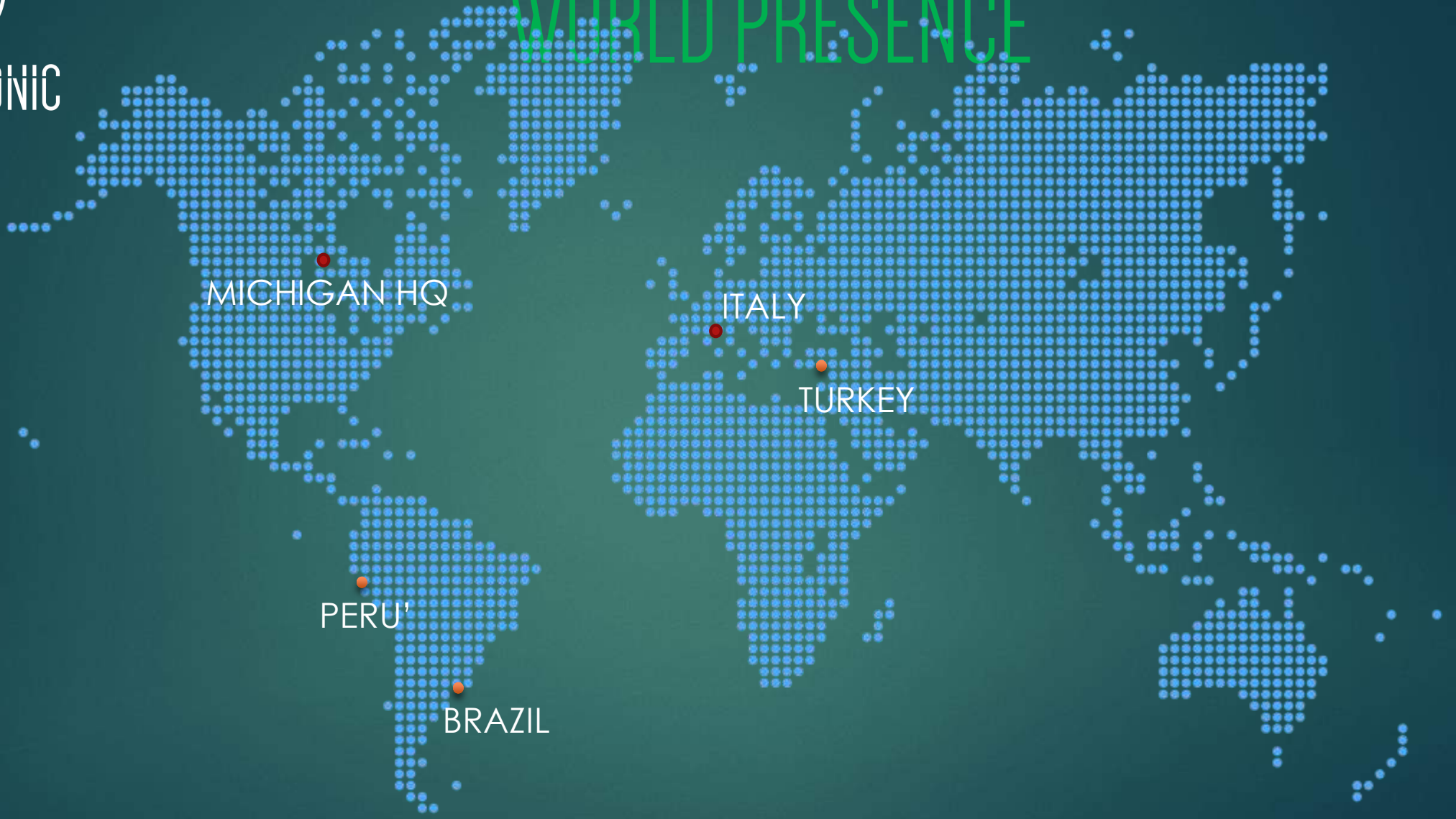
SKYPERSONIC

SOCIETA' AMERICANA DI PRODUZIONE DI UAV INDOOR E SISTEMI DI NAVIGAZIONE

WWW.SKYPERSONIC.NET

SKYPERSONIC

WORLD PRESENCE



ISPEZIONI INDUSTRIALI, INDOOR E INFRASTRUTTURE
PERCHE IL DRONE?

4693 morti sul lavoro nel 2016
2.9 milioni di infortuni

RIDUZIONE COSTO E RISCHIO
MAGGIORE SICUREZZA
ACCESSO AD AREE OFF-LIMITS

SKYPERSONIC

COSA VUOL DIRE INDOOR E INFRASTRUTTURE?

- PONTI
- BRUCIATORI
- CIMINIERE
- IMPIANTI A RISCHIO
- IMPIANTI FOGNARI
- TUNNEL E GALLERIE
- METROPOLITALE
- AREE CHIUSE CONTAMINATE
- AREE A RISCHIO

L'USO DEL DRONE PER MISURARE E MONITORARE NON PER SOLO VEDERE!

International Drones Committee

- This document provides guidelines and requirements for the utilization of Unmanned Aerial Systems to safely and reliably perform inspections in vessels, tanks, piping systems, and other components considered part of Critical Infrastructure.
- Committee consist of 20 members; Owner/Operators, UAS manufacturers, Equipment manufacturers and research groups

ASME
SETTING THE STANDARD
Sezione Italiana

SKYPERSONIC

CHE CARATTERISTICHE DEVE AVERE UN DRONE INDOOR?

SKYCOPTER®

- GABBIA PROTETTIVA ELASTICA
- FARI PER ILLUMINARE AL BUIO
- CAMERA HD
- TRASMISSIONE A LUNGO RAGGIO
- RESISTENTE A CRASH
- INSENSIBILE ALLE INTERFERENZE EM
- POTENZA ADEGUATA PER VENTO E DRAFT
- ULTRA STABILE E AUTORECUPERO
- PERSONALIZZABILE (ALTRI SENSORI)
- LUNGA DURATA DELLA BATTERIA (14 MIN)
- GPS INDOOR

CERTIFICATIONS AND PATENTS

CE

SKYCOPTER IS **CE** CERTIFIED

CERTIFIED ESQ Your Certification Partner ISO 9001 www.esqcert.com

SKYPERSONIC IS ISO CERTIFIED

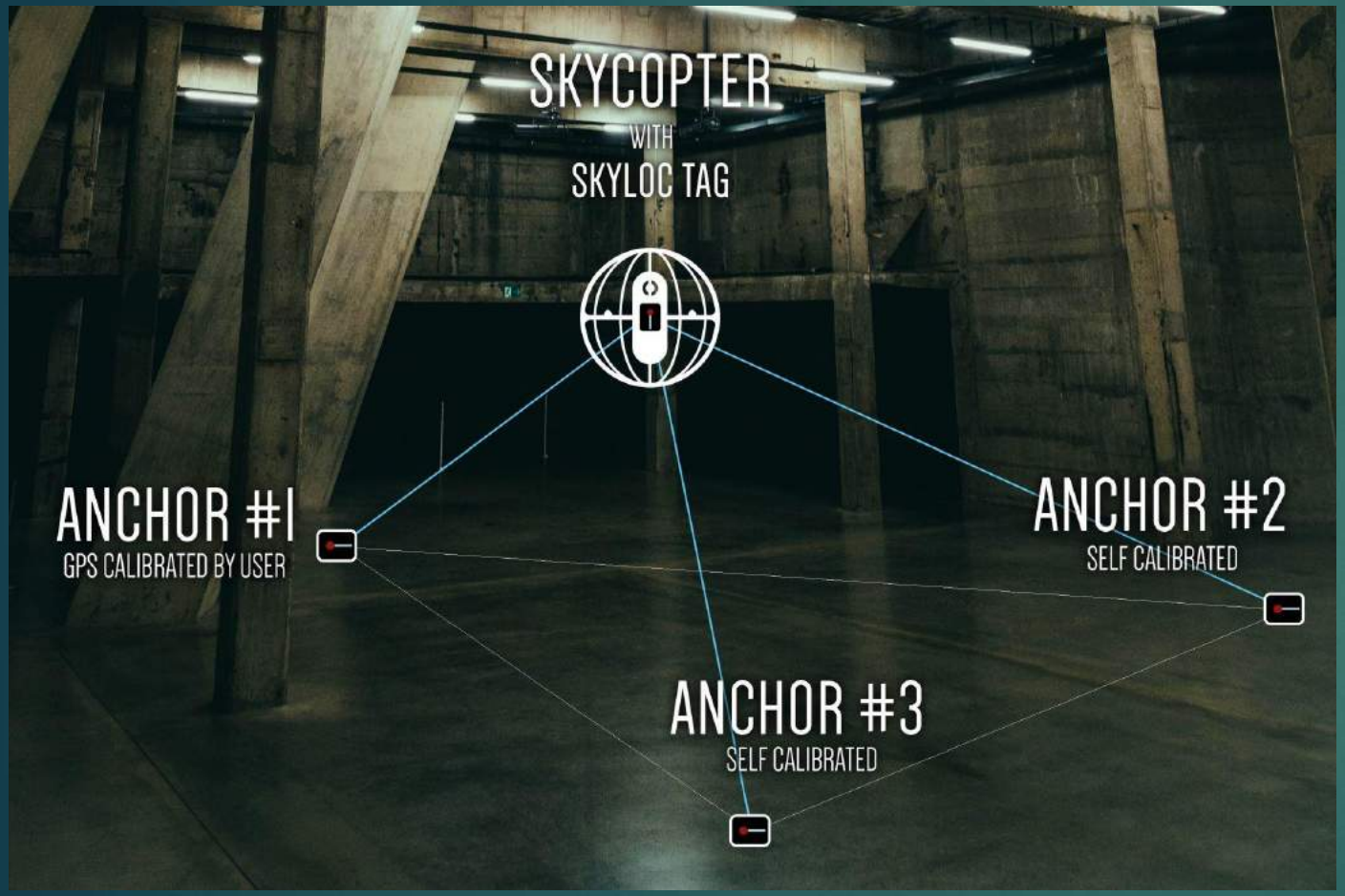
®

SKYPERSONIC, SKYLOC AND SKYCOPTER ARE REGISTERED MARKS

PATENTS

- **SKYCOPTER IS PATENTED** (GRANTED PCT, PENDING USPTO)
- (Enclosed Drone Apparatus ad Method for Use Thereof", Pub n. US 2016/0137293)
- **SKYCOPTER IS PATENTED** (PENDING PCT, PENDING USPTO)
- (Removable Cage for Drone", Serial N:15/957,973 Filed April 20, 2018)
- **SKYLOC IS PATENTED** (PENDING PCT, PENDING USPTO)
- (US Utility Patent Application for "Terrestrial Based, Positioning System and Methods",
- Serial N:18171897.4, filed May 11, 218)

WHAT MAKES US UNIQUE? SKYLOC

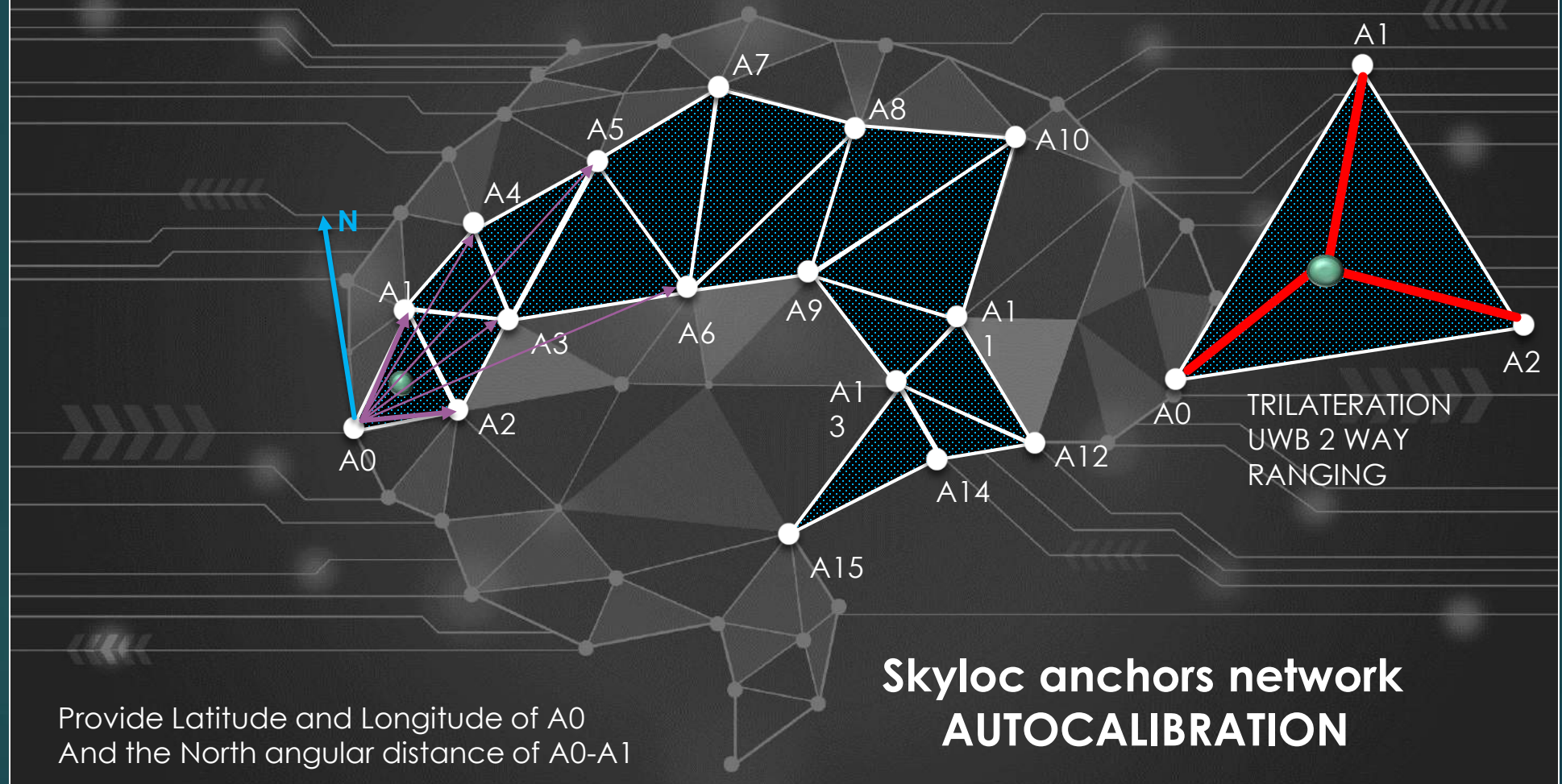


THE FIRST INDOOR GPS NAVIGATION SYSTEM FOR DRONES

ultra accurate, self calibrated, easy to install/self installation, large area coverage, ultra low consumption, waterproof, working with zero visibility, compact small devices

SKYPERSONIC

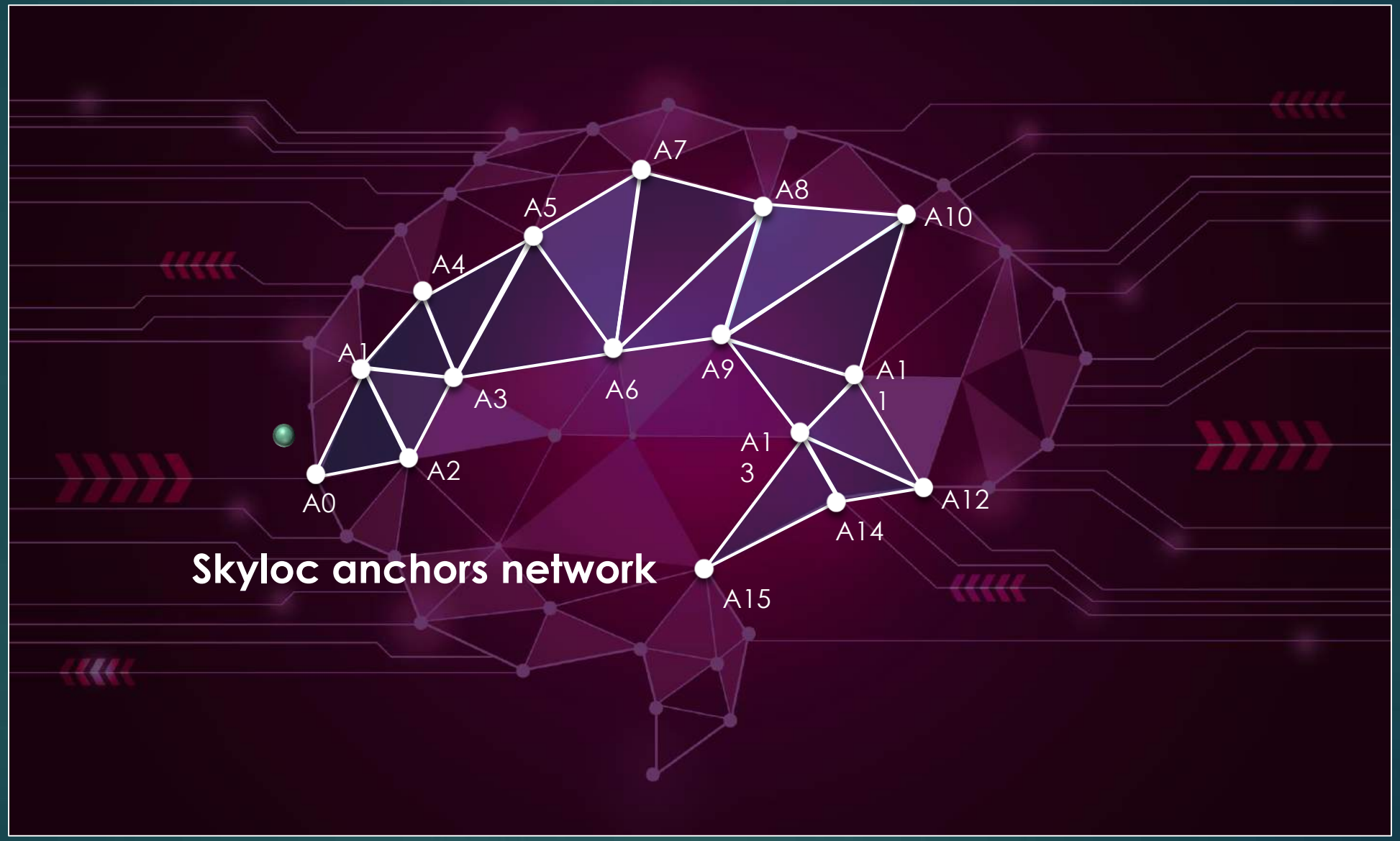
Skyloc Navigation Engine: BASED ON A DEEP LEARNING TECHNOLOGY



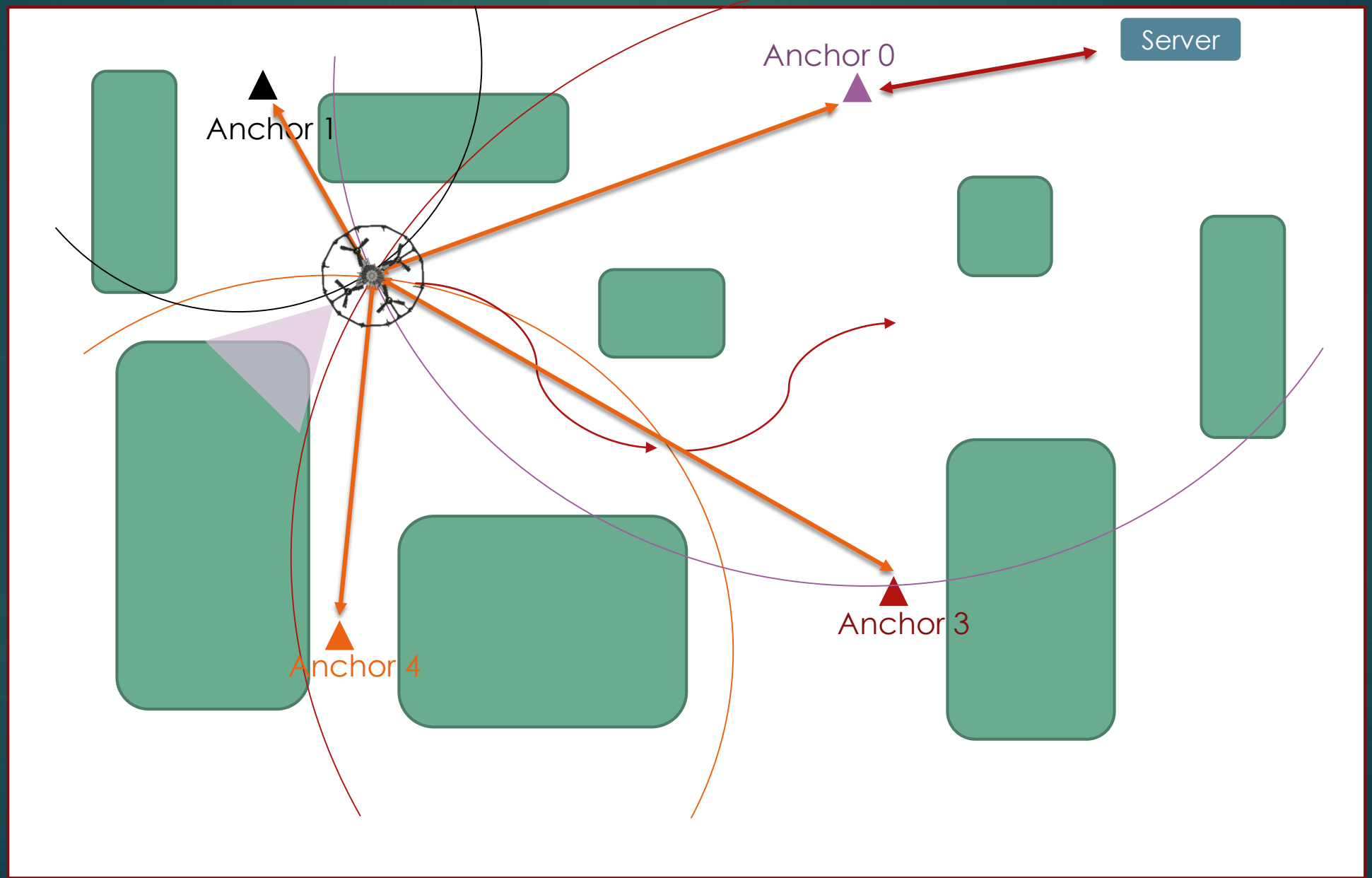
Provide Latitude and Longitude of A0
And the North angular distance of A0-A1

Skyloc anchors network
AUTOCALIBRATION

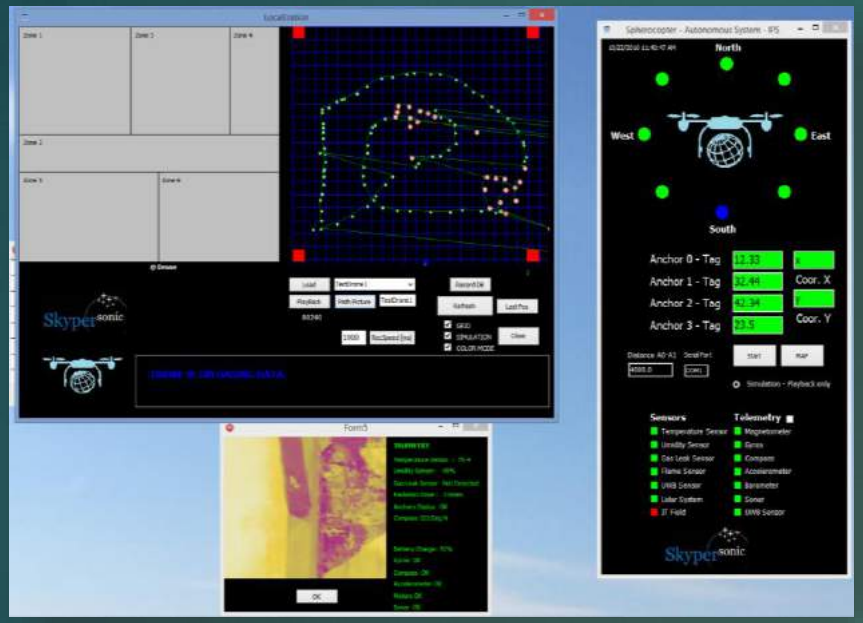
Skyloc Navigation Engine



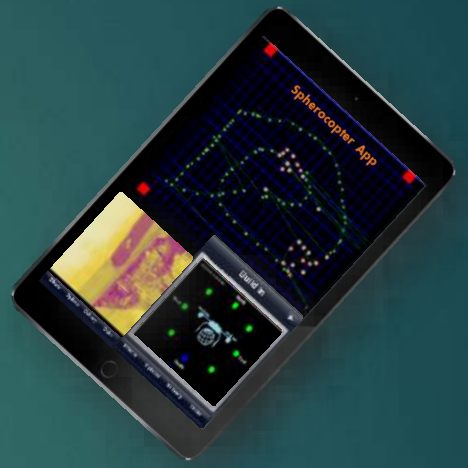
SKYLOC based on UWB



Skypersonic SW Application Struncture



Console – Server Station



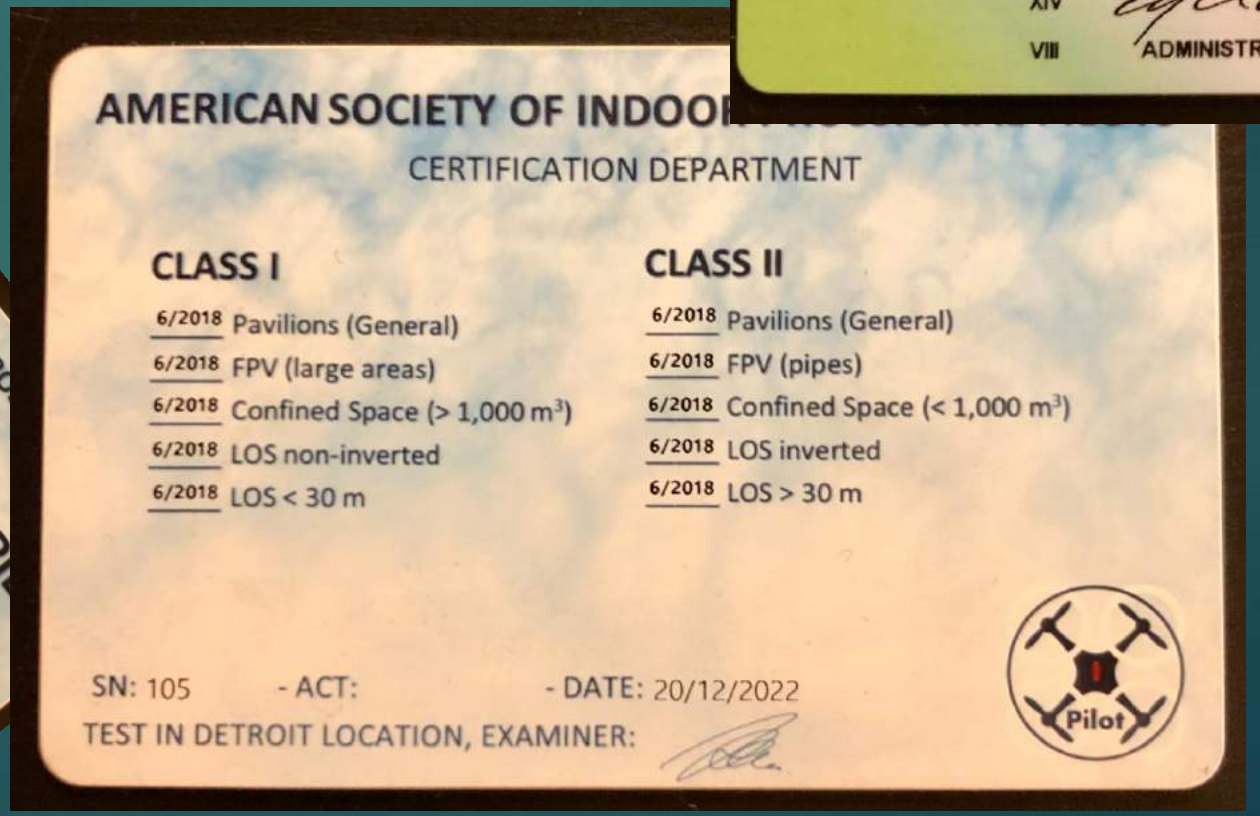
Mobile Device Client App

PostgreSQL

Clouds Remote DB

E IL PILOTA?

- Nuova categoria: Pilota Indoor professionista ASIPP



ASIPP

Drone vs Pilot ?

- Autonomous Mode non applicable in many scenarios:
  - Sensors data inconsistent (compass, IMU…)
  - Self-Induced aerodynamics (confined Spaces)
  - Obstacles and complex environment

TEAM WORKING

50% Drone - 50% Pilot