



Istituto Italiano per gli Studi Filosofici
Sabato 17 ottobre ore 11.00 - 13.00
Napoli, Palazzo Serra di Cassano - Via Monte Dio 14

La mobilità del Futuro.
Le sfide del mezzo aereo:
i droni e i nuovi velivoli per il trasporto civile



ing. Ugo Savarese
Direttore Tecnico – DESA'



DRONE, APR, UAV,.....

Drone (*sostantivo*)

1. Piccolo velivolo radiocomandato che funge da bersaglio in esercitazioni militari con missili aria-aria.
2. Aereo senza pilota, telecomandato per colpire a distanza bersagli civili o militari.

APR – Aeromobili a Pilotaggio Remoto

An **unmanned aerial vehicle (UAV)**, commonly known as a **drone** and also referred by **several other names** is an aircraft without a human pilot aboard

1. Velivolo privo di pilota e comandato a distanza, usato generalmente per operazioni di ricognizione e sorveglianza, oltre che di disturbo e inganno nella guerra elettronica; è indicato anche con la sigla RPV, dalle lettere iniziali dell'ingl. *Remotely Piloted Vehicle* «veicolo guidato a distanza».
2. Bersaglio telecomandato, costituito da un simulacro di nave o di aereo, utilizzato nelle esercitazioni di tiro.



Categorie

		Mass	Range	Flight Alt.	Endurance
μ	Micro (μ)	< 5 kg	< 10 km	250 m	1 hour
Mini	Mini	< 20/25/30/150♦	< 10	150 m ♦	< 2
CR	Close Range	25-150	10 - 30	3.000	2 - 4
SR	Short Range	50-250	30 - 70	3.000	3 - 6
MR	Medium Range	150-500	70 - 200	5.000	6 - 10
MRE	MR Endurance	500-1500	> 500	8.000	10 - 18
LADP	Low Alt. Deep Penetration	250-2500	> 250	50 - 9.000	0,5 - 1
LALE	Low Alt. Long Endurance	15-25	> 500	3.000	> 24
MALE	Medium Alt. Long Endur.	1000-1500	> 500	5/8.000	24 - 48
HALE	High Alt. Long Endurance	2500-5000	> 2000	20.000	24 - 48
Strato	Stratospheric	>2500	> 2000	> 20.000	> 48
EXO	Exo-stratospheric	TBD	TBD	> 30.500	TBD
UCAV	Unmanned combat AV	>1000	+/- 1500	12.000	+/- 2
LET	Lethal	TBD	300	4.000	3 - 4
DEC	Decoys	150-500	0 - 500	50 - 5.000	< 4

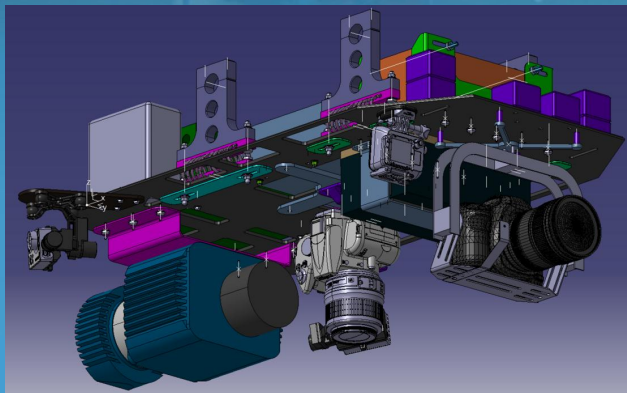




Dragon 35 - Ground Control Station

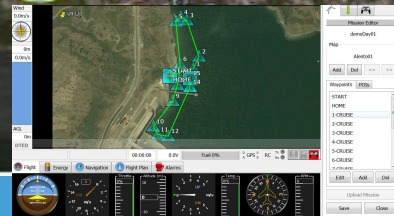
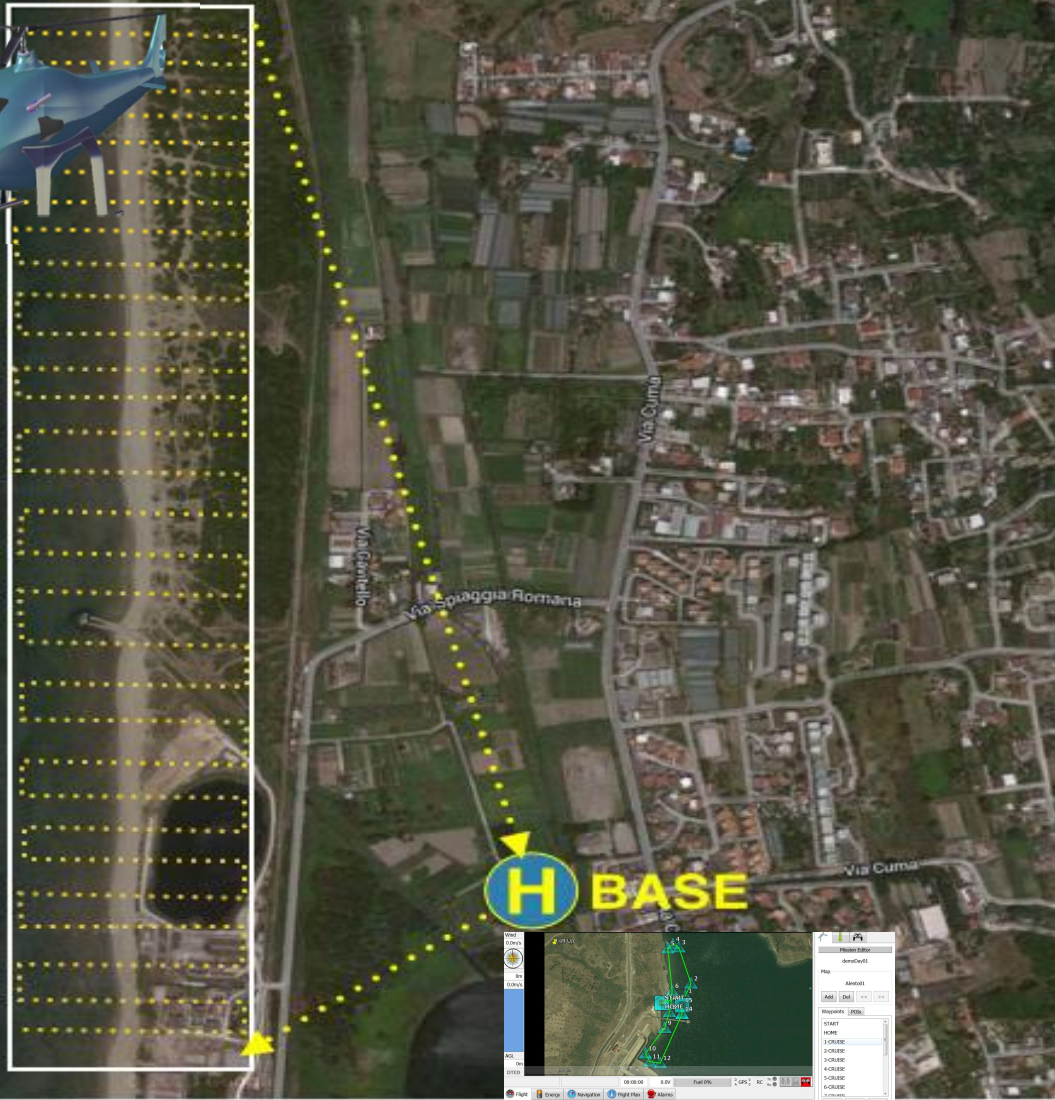
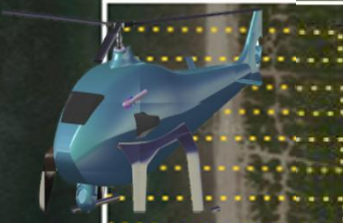


Status Progetto: richiesta Permit to Flight





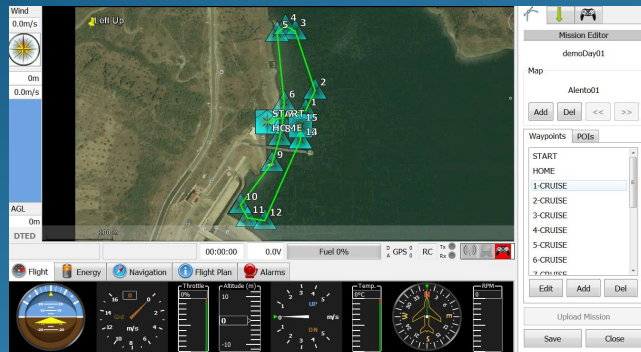
SCAN AREA





Dragon 35

SWISSDRONES OPERATING AG



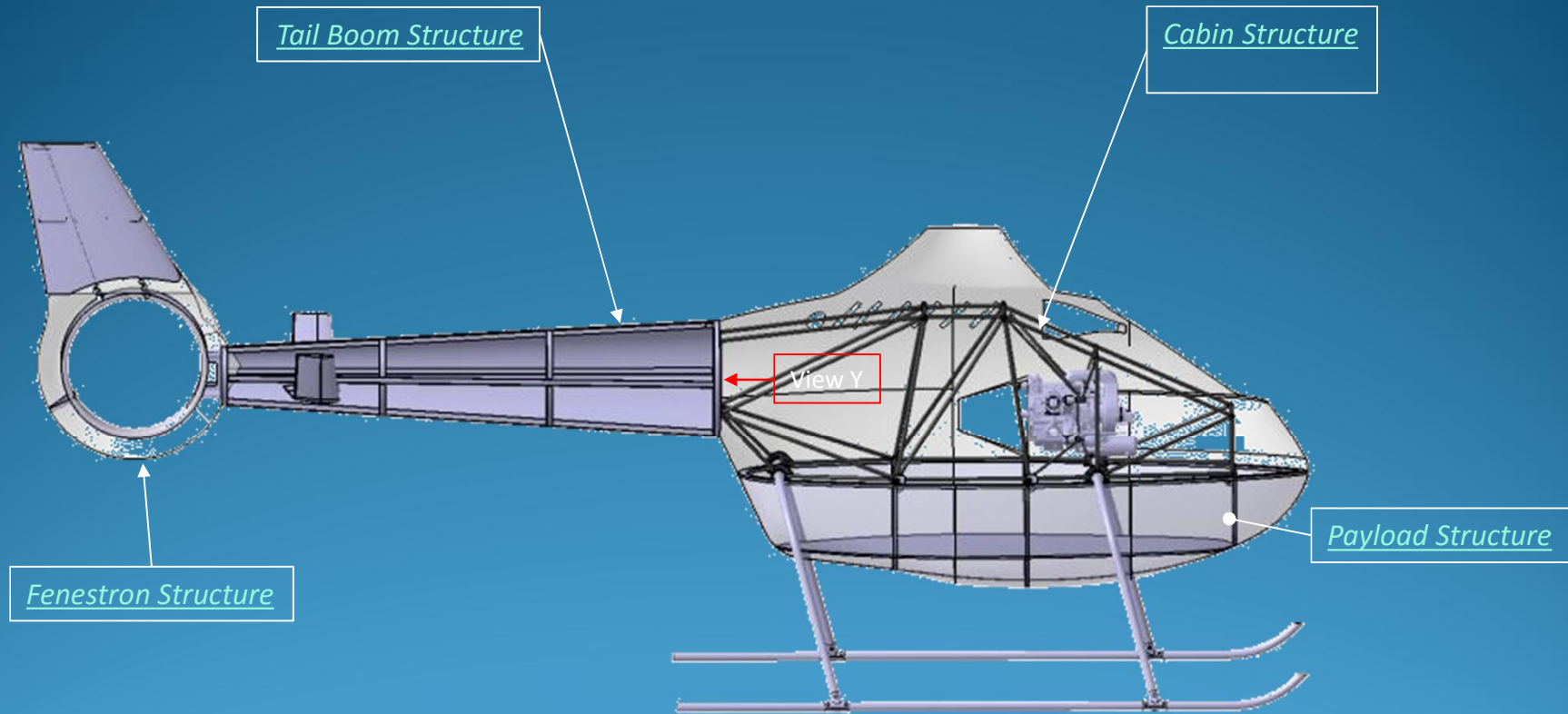


HD-1



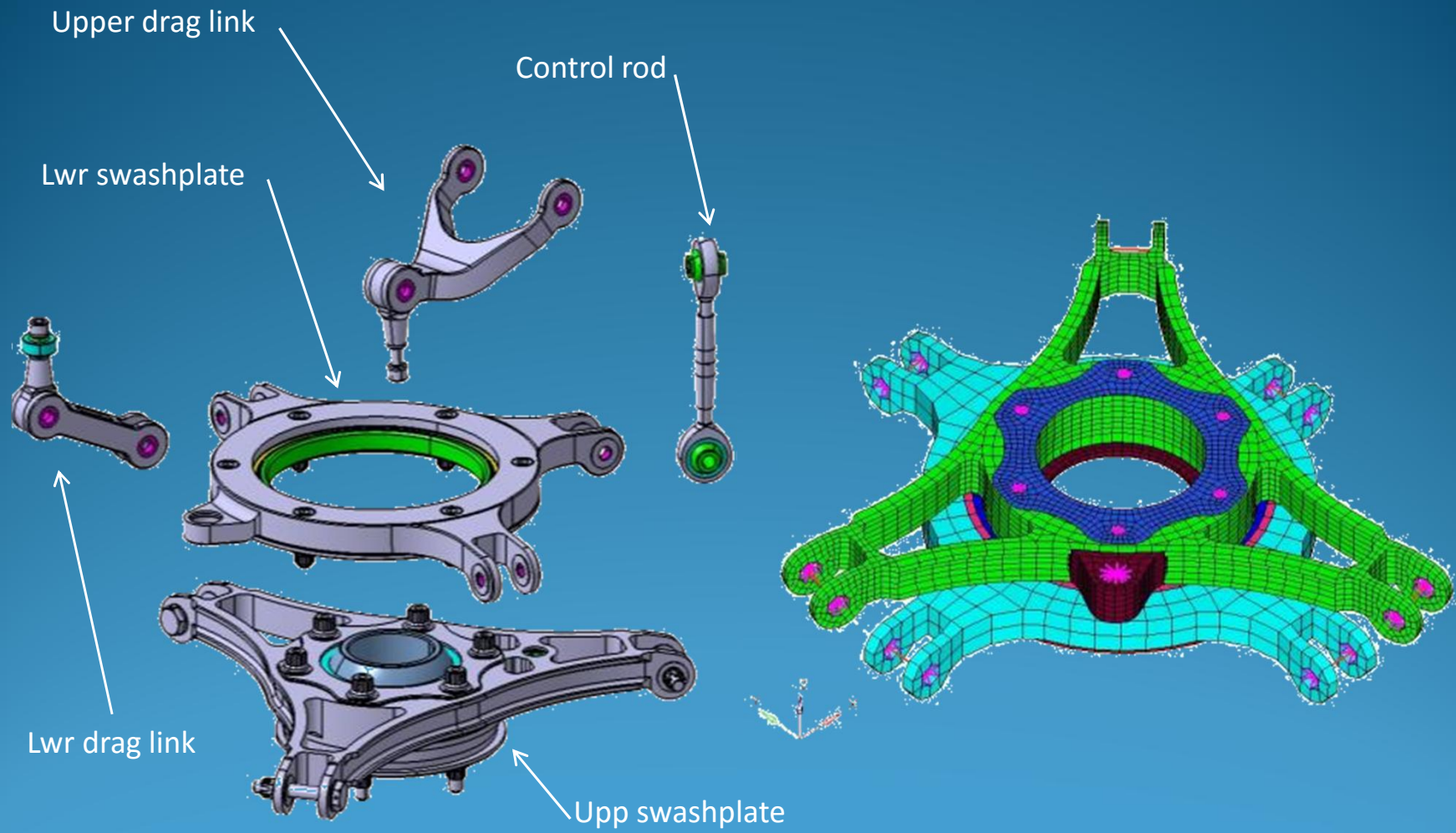


AEROSTRUCTURE



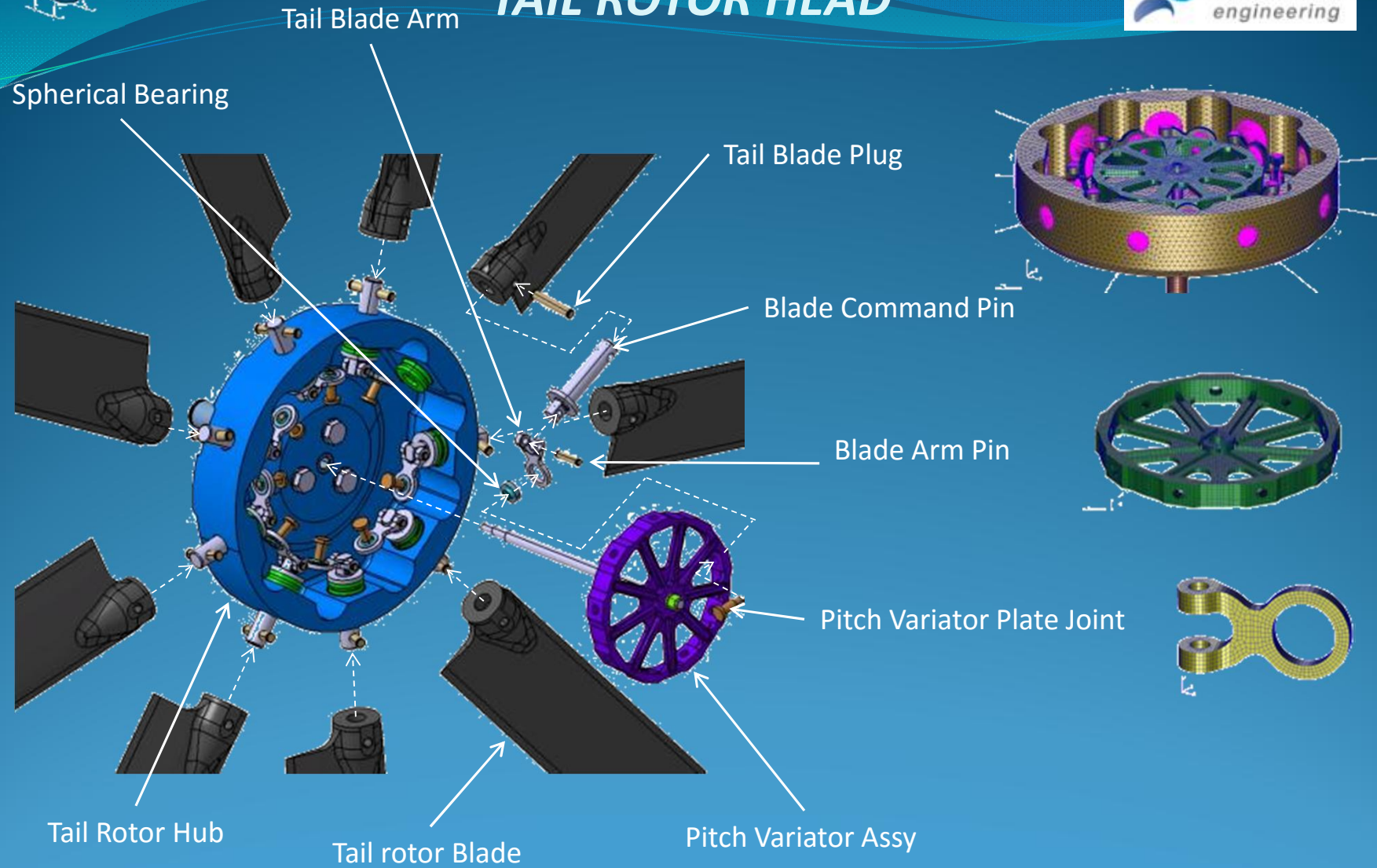


SWASHPLATE & FLIGHT CONTROLS

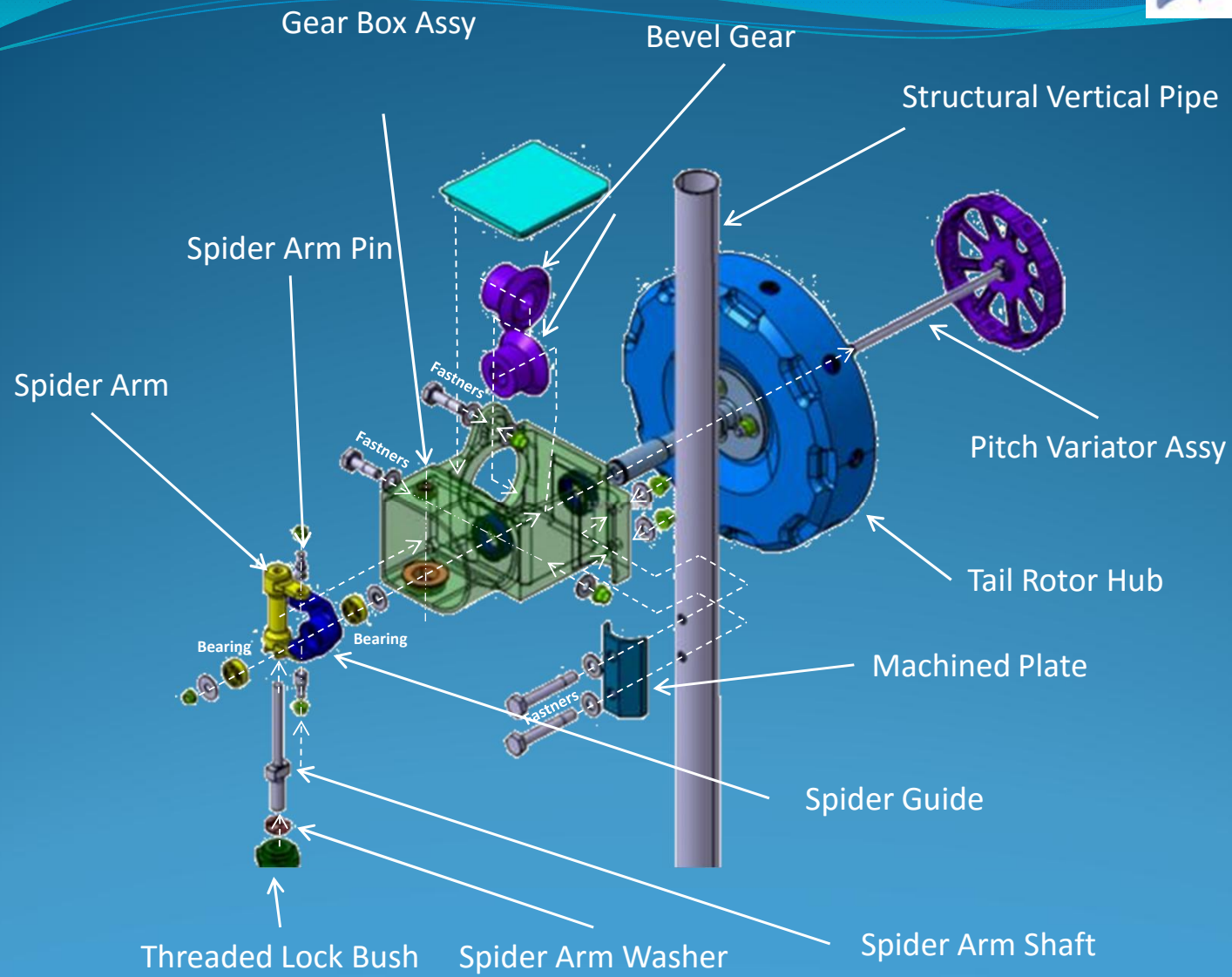




TAIL ROTOR HEAD



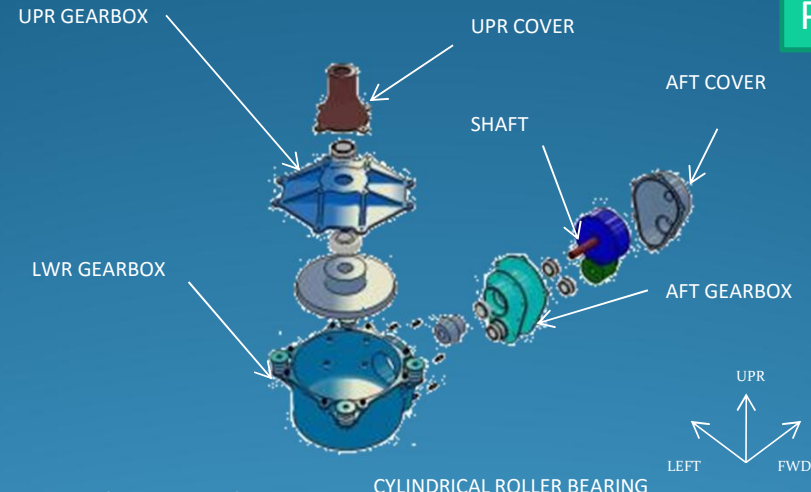
TAIL ROTOR GEAR BOX



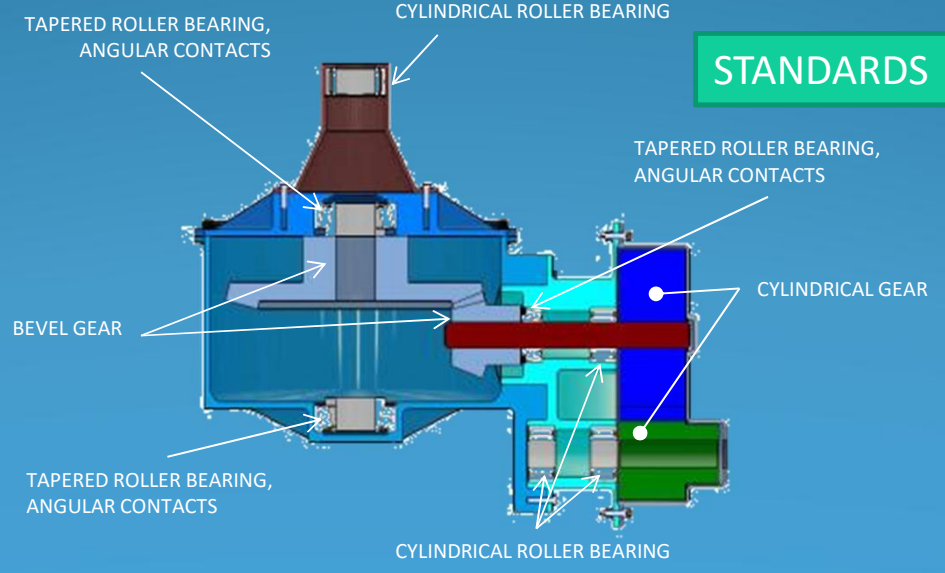


MAIN GEAR

PARTS

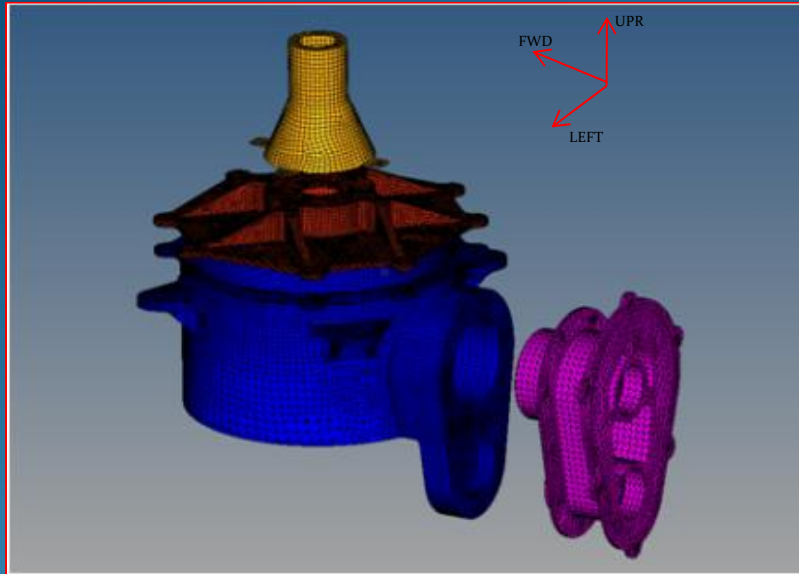


STANDARDS



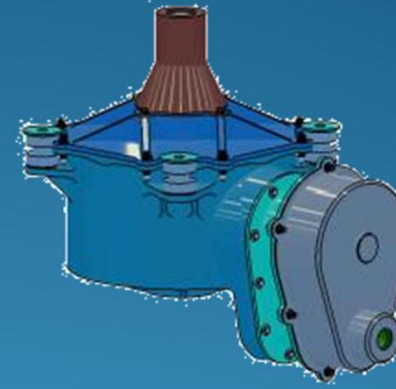


MAIN GEAR: CAD & FEM

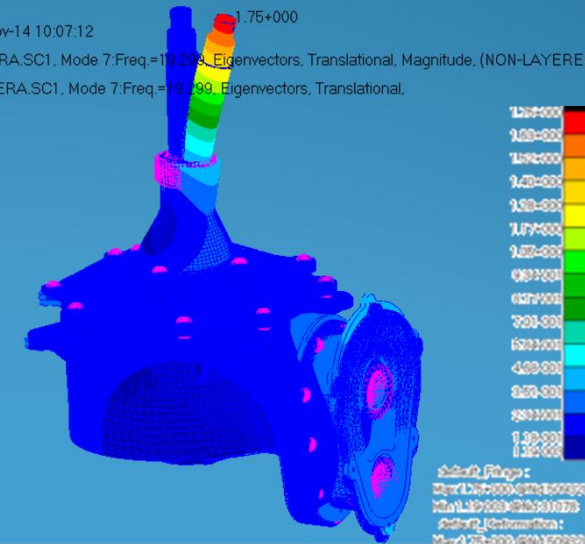


FEM

CAD



Patran 2012 64-Bit 13-Nov-14 10:07:12
Fringe: _MODALE_LIBERA.SCI, Mode 7: Freq=10.299, Eigenvectors, Translational, Magnitude, (NON-LAYERED)
Deform: _MODALE_LIBERA.SCI, Mode 7: Freq=10.299, Eigenvectors, Translational.





APPLICATIONS



1. AGRICULTURAL ACTIVITIES



2. ENVIRONMENTAL DISASTERS PREVENTION



3. COASTAL MONITORING CONTROL



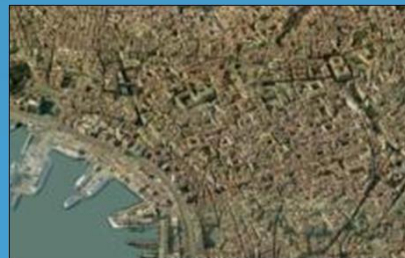
7. SEARCH AND RESCUE OPERATIONS



6. POWER LINES MONITORING



5. AEROPHOTOGRAMMETRY

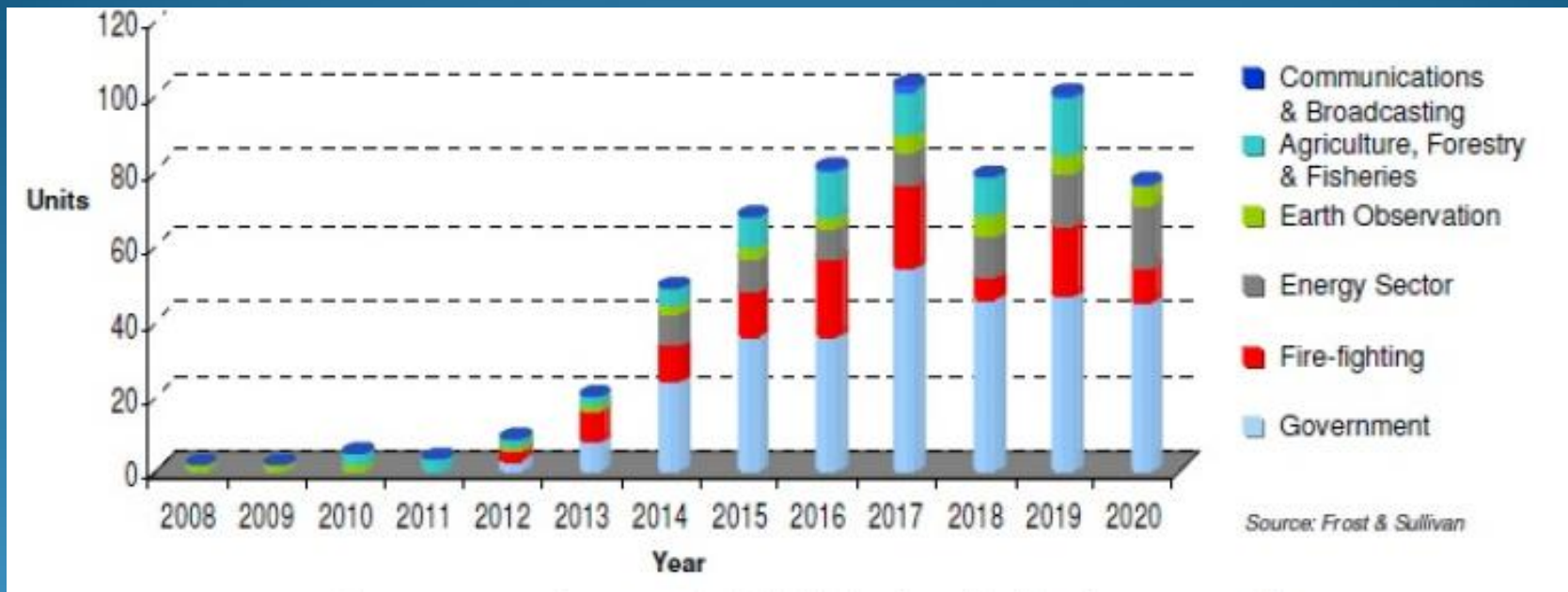


4. MONITORING CONSTRUCTION SITES





PREVISIONI DI APPLICAZIONE





Grazie!