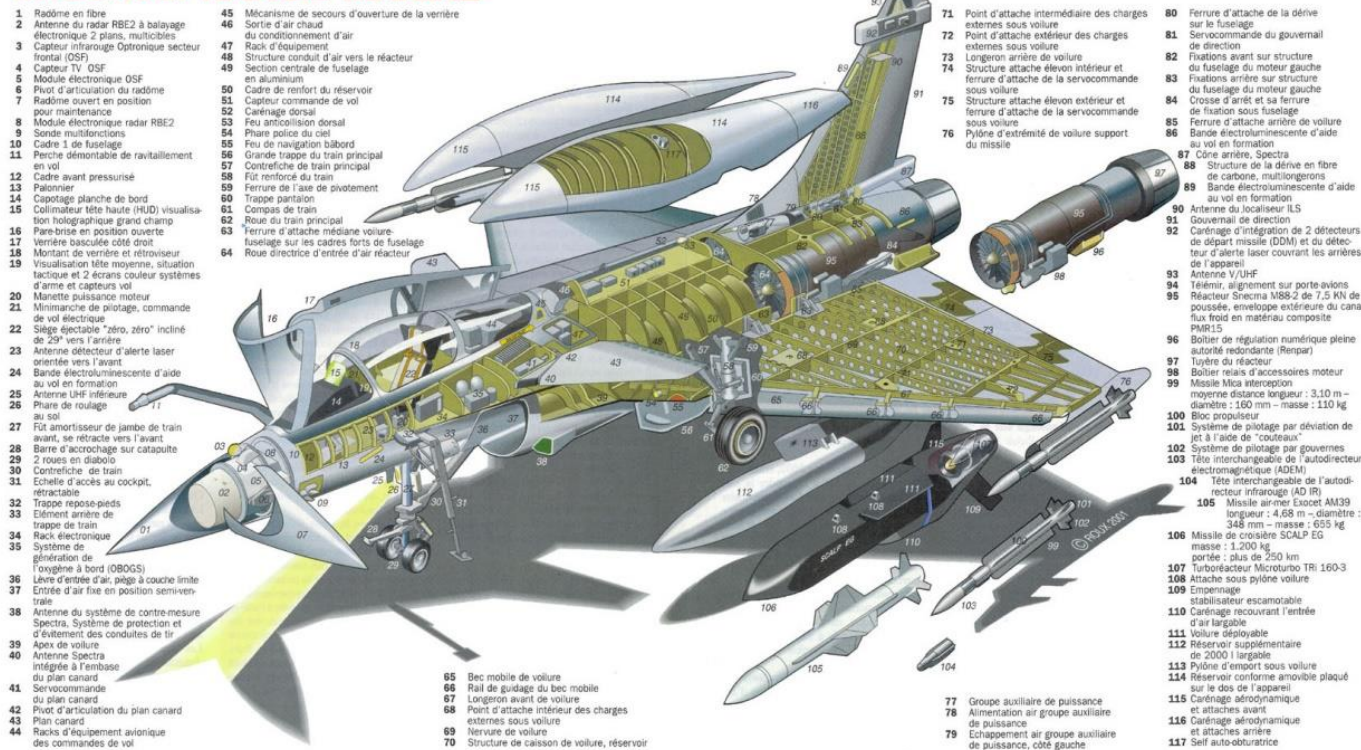


EN REGARDANT LES ETOILES

Frédéric Gilet

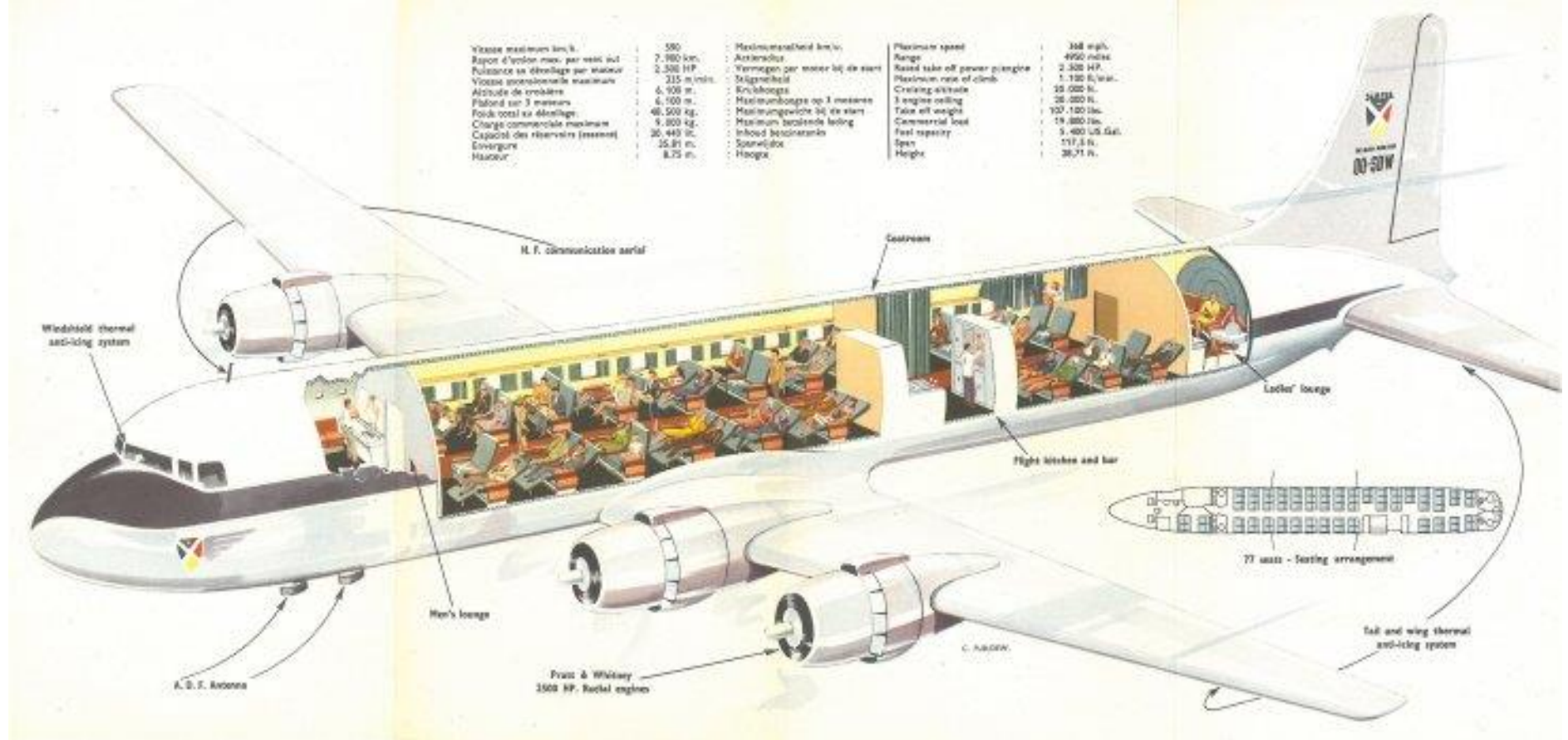
DASSAULT RAFALE MARINE



Vitesse maximum km/h. : 580
 Raport d'vitesse max. par vent aut : 7.980 km.
 Puissance sa décollage par moteur : 2.500 HP.
 Vitesse professionnelle maximum : 215 m/mn.
 Altitude de croisière : 6.100 m.
 Plafond sur 3 moteurs : 6.100 m.
 Poids total en décollage : 46.500 kg.
 Charge commerciale maximum : 5.000 kg.
 Capacité des réservoirs (essence) : 30.440 lt.
 Envergure : 35,81 m.
 Hauteur : 8,75 m.

Maximumspeed km/h. : 360
 Acceleration : 4950 m/sec.
 Vermogen per motor bij de start : 2.320 HP.
 Tragsnelheid : 1.130 k/mn.
 Cruisingaltitude : 33.000 ft.
 Maximumheight on 3 engines : 36.000 ft.
 Maximumweight at start : 107.100 lbs.
 Maximum payload loading : 19.800 lbs.
 Inhoud brandstank : 9.400 U.S. Gal.
 Span : 117,5 ft.
 Hoogte : 28,71 ft.

Maximum speed : 360 mph.
 Range : 4950 miles.
 Rated take off power per engine : 2.320 HP.
 Maximum rate of climb : 1.130 ft/min.
 Cruising altitude : 33.000 ft.
 3 engine ceiling : 36.000 ft.
 Take off weight : 107.100 lbs.
 Commercial load : 19.800 lbs.
 Fuel capacity : 9.400 U.S. Gal.
 Span : 117,5 ft.
 Height : 28,71 ft.



H.F. communication aerial

Cockpit

Wing and thermal anti-icing system

Ladies' lounge

Flight kitchen and bar

77 seats - seating arrangement

A.S.F. Antenna

Men's lounge

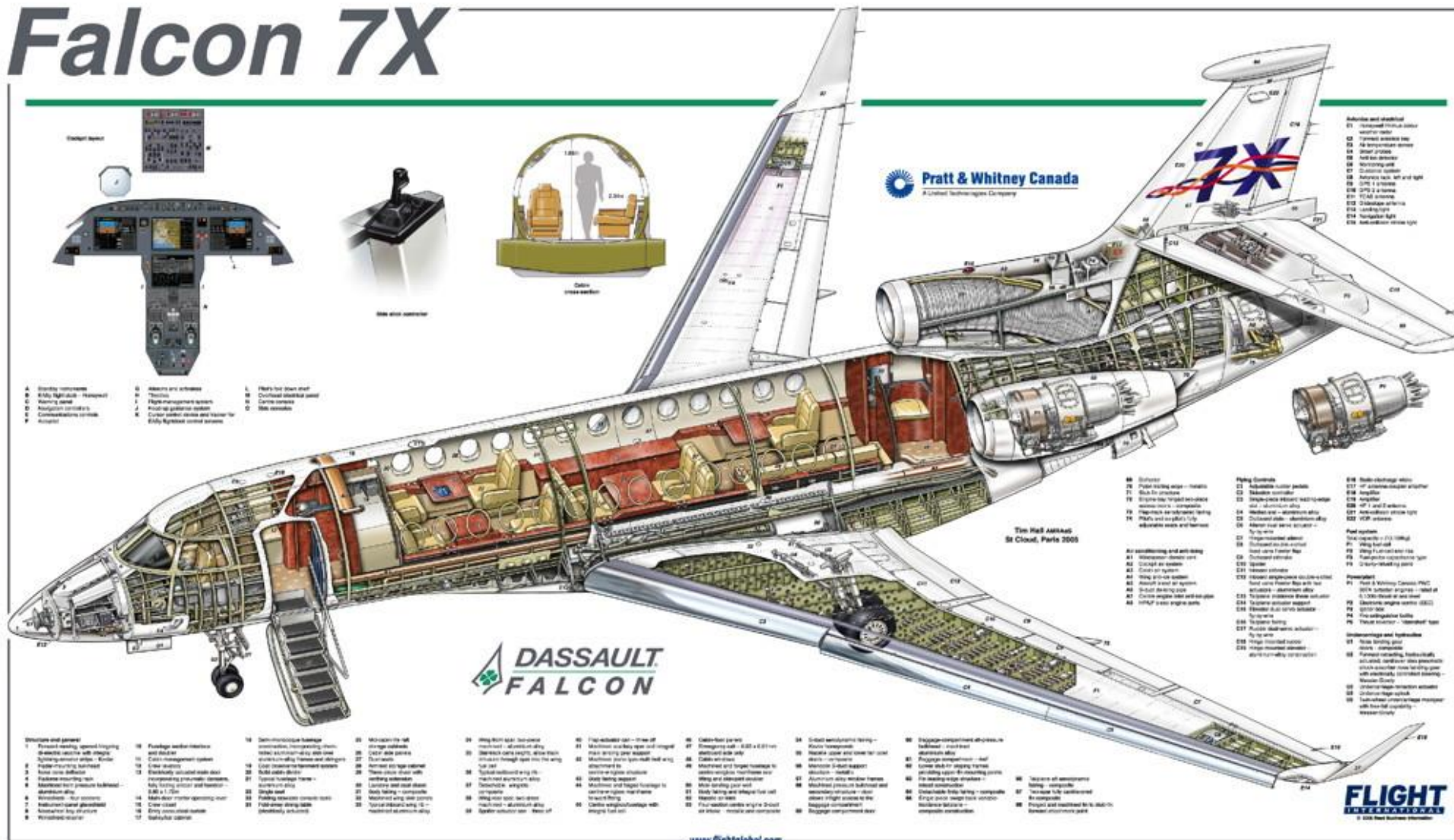
Pratt & Whitney 3500 HP. Turbjet engines

C. A.S.F.

Tail and wing thermal anti-icing system



Falcon 7X



- A. Landing gear
- B. Cabin floor
- C. Cabin ceiling
- D. Cabin seats
- E. Cabin lighting
- F. Cabin air conditioning
- G. Cabin oxygen
- H. Cabin lavatory
- I. Cabin galley
- J. Cabin storage
- K. Cabin entertainment
- L. Cabin crew seats
- M. Cabin crew storage
- N. Cabin crew rest
- O. Cabin crew lavatory
- P. Cabin crew galley
- Q. Cabin crew storage
- R. Cabin crew rest
- S. Cabin crew lavatory
- T. Cabin crew galley
- U. Cabin crew storage
- V. Cabin crew rest
- W. Cabin crew lavatory
- X. Cabin crew galley
- Y. Cabin crew storage
- Z. Cabin crew rest

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DASSAULT FALCON

Pratt & Whitney Canada
A United Technologies Company

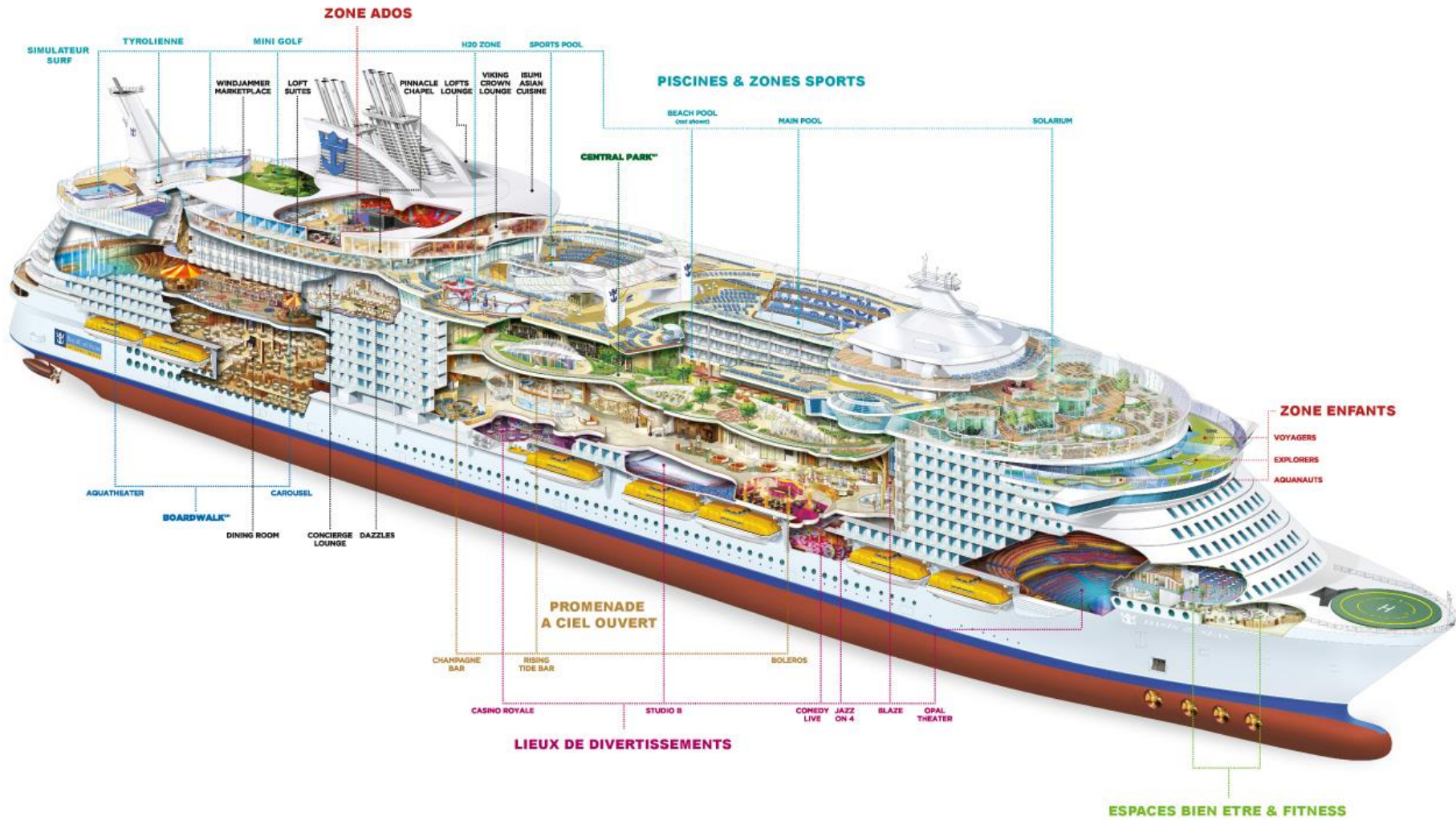
Tim Hall ARAus
St Cloud, Paris 2005

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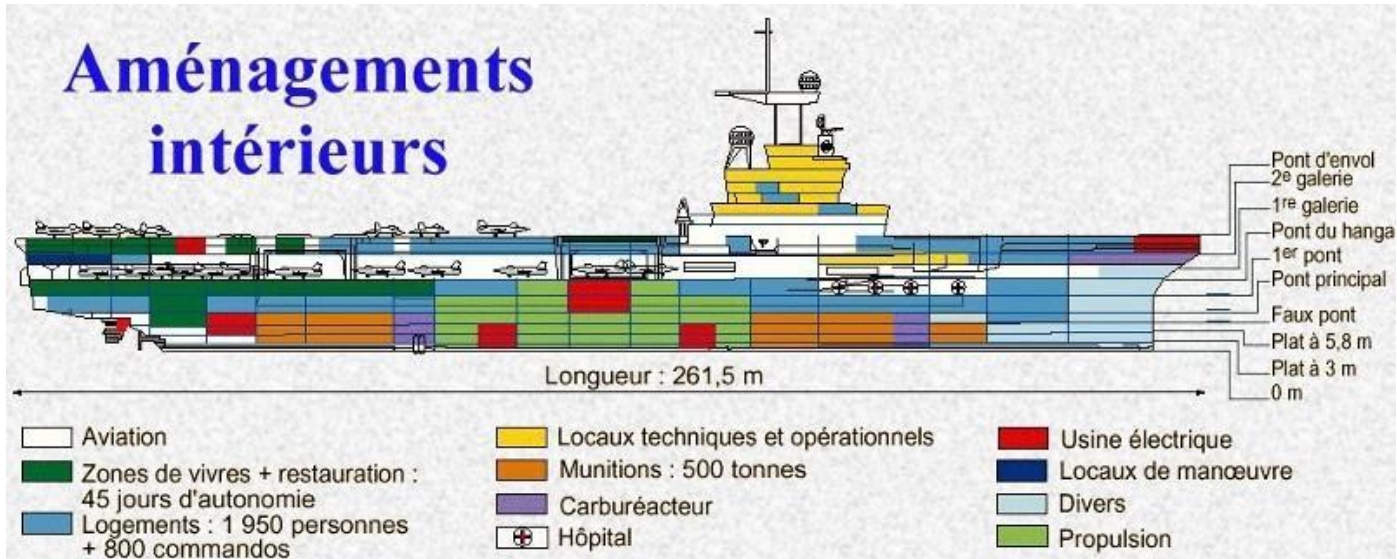
FLIGHT INTERNATIONAL
A GKN Group Business



meretmarine.com



Aménagements intérieurs



Le Charles de Gaulle

Ses grandes dates
 Mise en chantier : 24 novembre 1987
 Lançage : 7 mai 1994
 En service : 30 mai 2001

Équipage : 1 550 hommes
 Autonomie : 45 jours (réservé)

Hôpital : 300 lits, 50 lits

Armement
 2 systèmes S.M.A.M.
 2 systèmes Sackal
 4 missiles

Port aérien : 40 avions
 • Rafale Marine
 • Super-Épervier modernisé
 • Hélicoptère
 • Daeché

Caractéristiques mécaniques
 2 réacteurs 300 MW
 Vitesse maximale : 300 km/h

Vols par jour
 300 pendant 7 jours



Principales missions
 • Appui d'opérations à terre
 • Appui des forces navales à terre
 • Soutien des opérations à terre
 • Couverture aérienne
 • Opérations (air et mer)

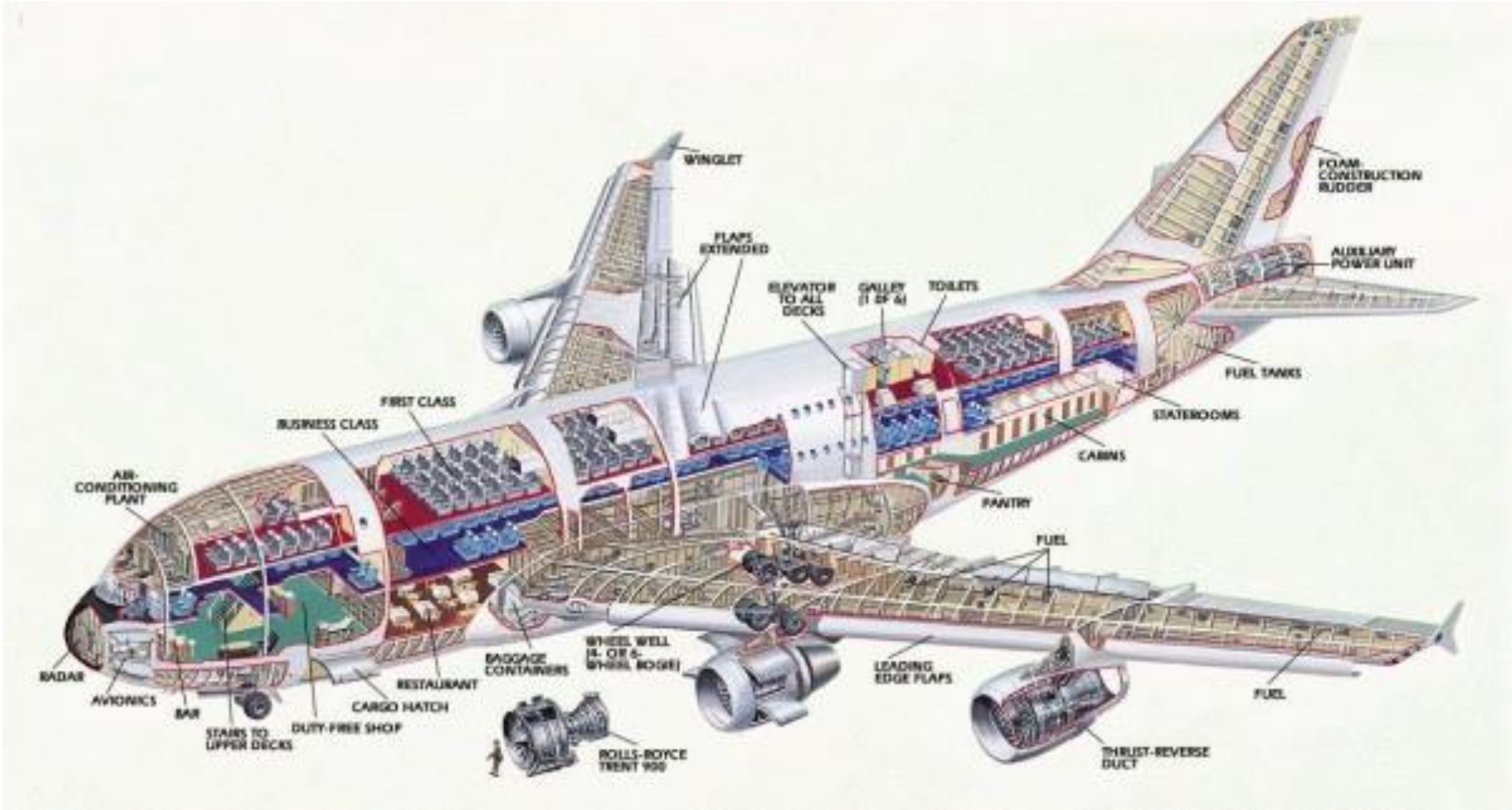
Pont d'envol : 261,5 m
 2 catapultes propulsent les avions à 300 km/h en 1,5 seconde sur piste de 75 mètres. Le plateau subit une accélération de 5G.

Hangar avions
 1 600 m², 2 ascenseurs de 30 tonnes



Piste oblique : 134,5 m
 Un avion peut atterrir toutes les minutes.





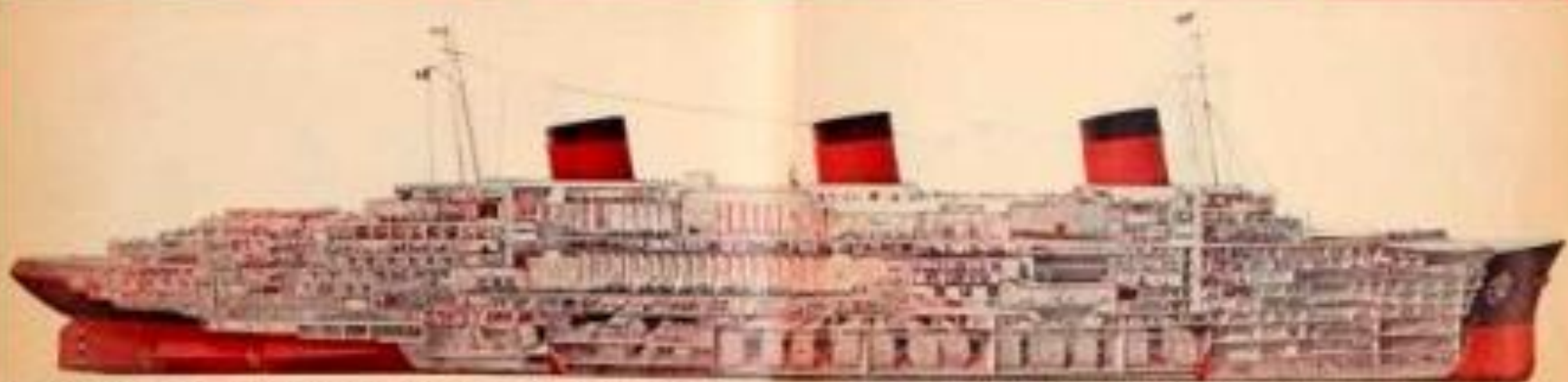


Fig. 1. - *Repubblica*. - Vista in sezione della nave italiana, di tipo a carbone, con tre fumaioli. - Lascio il nome della nave, che è stato scelto in memoria del grande patriota, per ricordare il suo sacrificio e il suo amore per la patria. - La nave è stata costruita in Italia, ed è stata battezzata con il nome di "Repubblica".

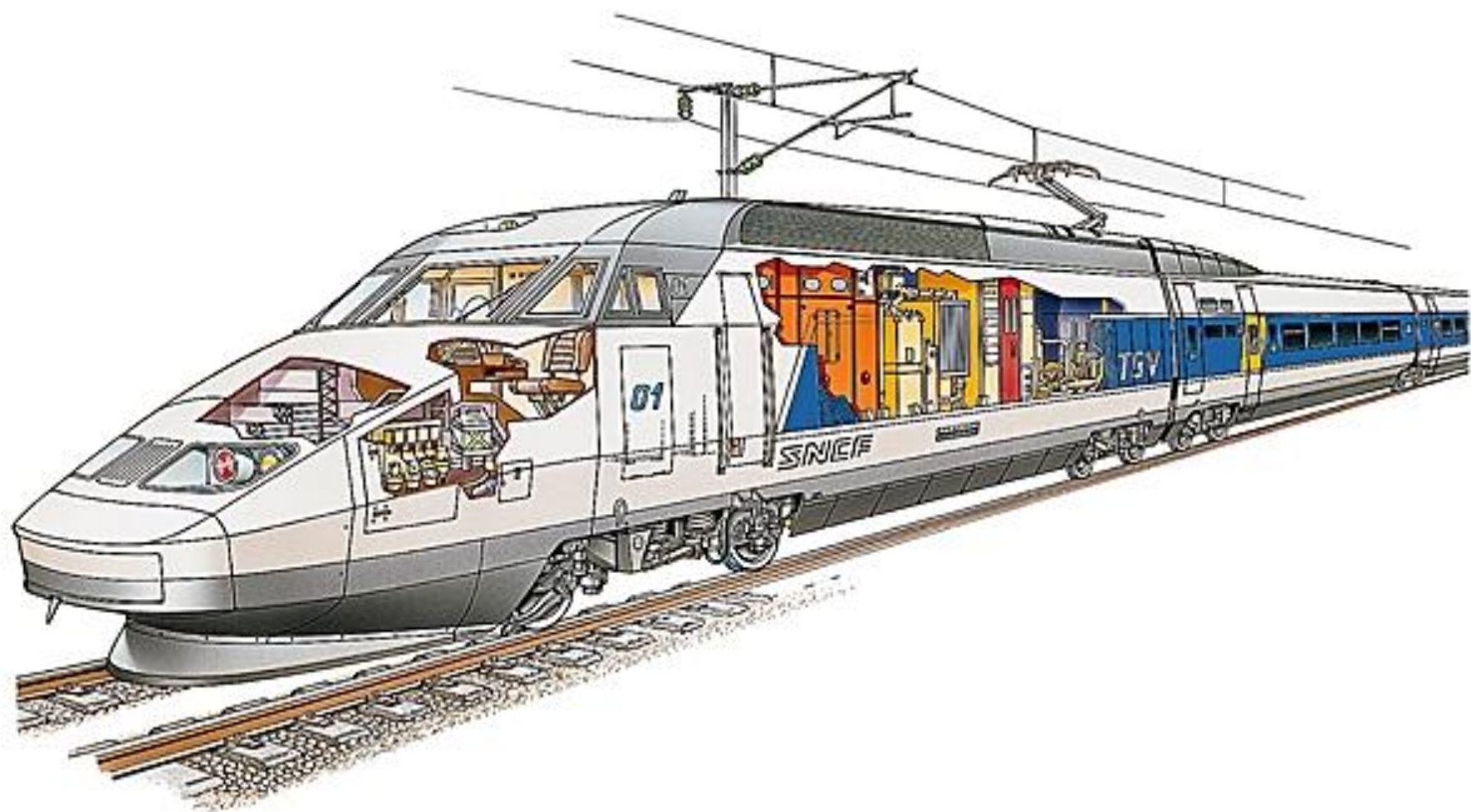
La nave è stata costruita in Italia, ed è stata battezzata con il nome di "Repubblica". - La nave è stata costruita in Italia, ed è stata battezzata con il nome di "Repubblica".

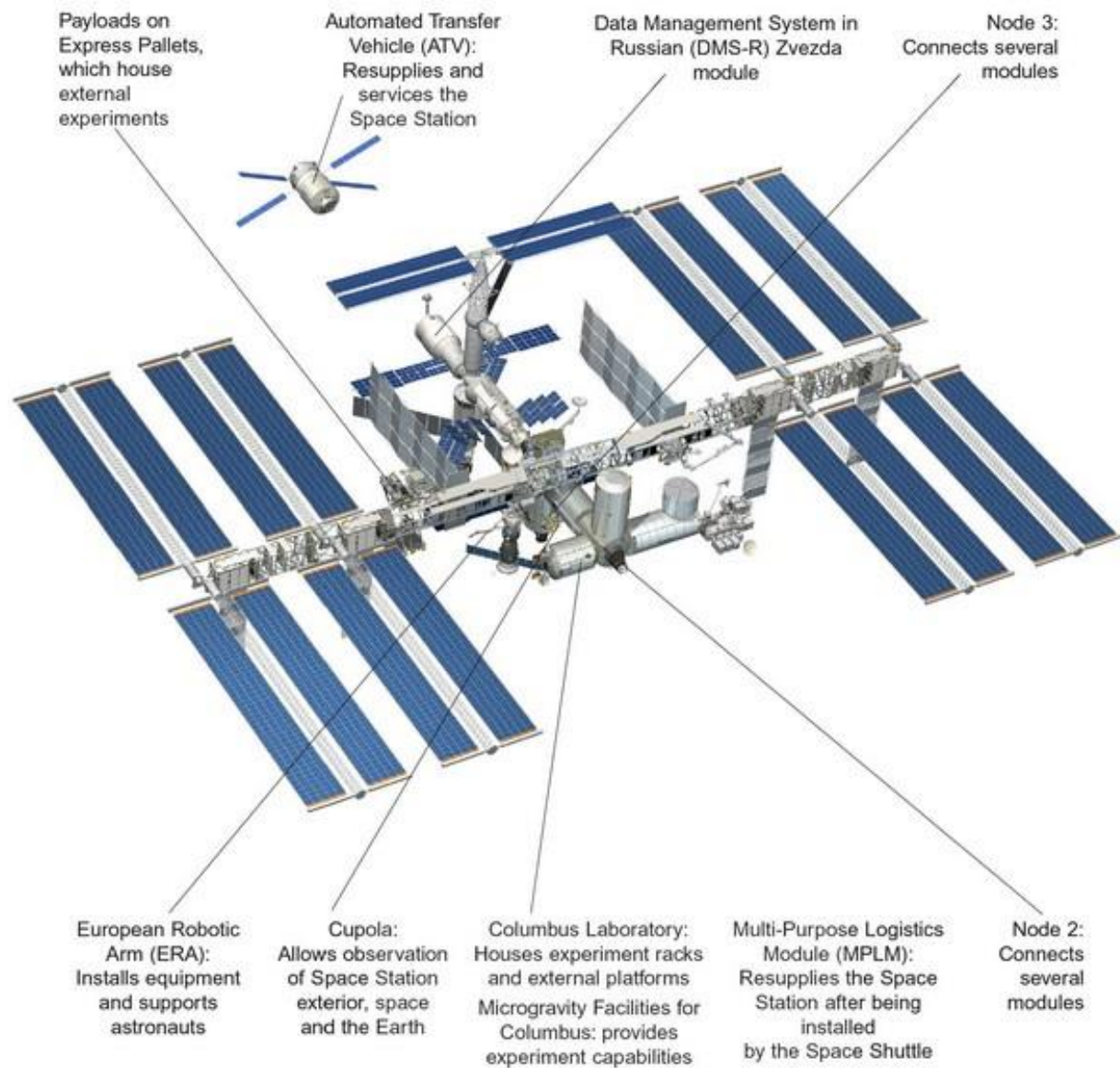


Fig. 2. - *Repubblica*. - Vista in sezione della nave italiana, di tipo a carbone, con tre fumaioli. - Lascio il nome della nave, che è stato scelto in memoria del grande patriota, per ricordare il suo sacrificio e il suo amore per la patria. - La nave è stata costruita in Italia, ed è stata battezzata con il nome di "Repubblica".

La nave è stata costruita in Italia, ed è stata battezzata con il nome di "Repubblica". - La nave è stata costruita in Italia, ed è stata battezzata con il nome di "Repubblica".







Payloads on Express Pallets, which house external experiments

Automated Transfer Vehicle (ATV): Resupplies and services the Space Station

Data Management System in Russian (DMS-R) Zvezda module

Node 3: Connects several modules

European Robotic Arm (ERA): Installs equipment and supports astronauts

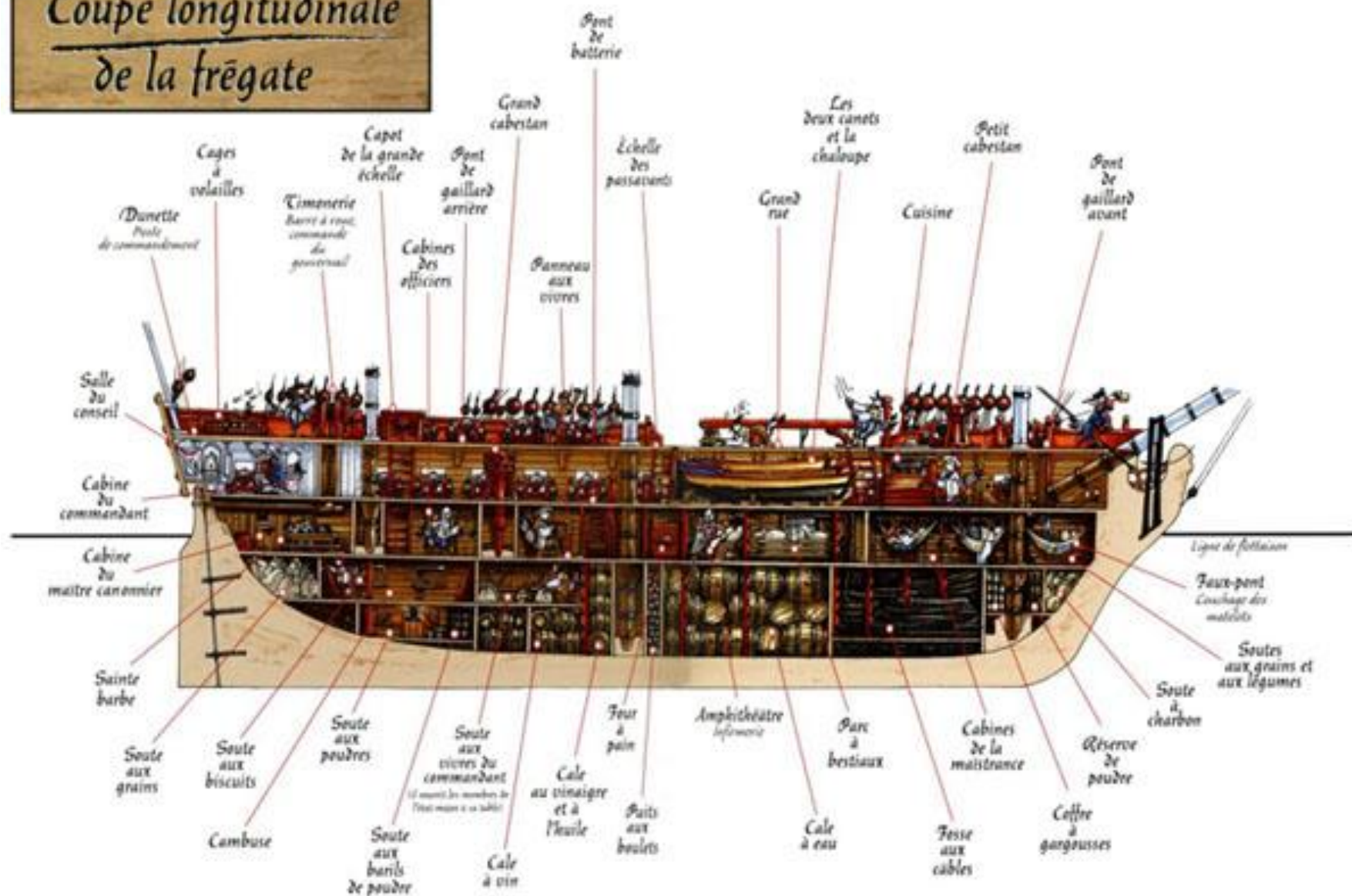
Cupola: Allows observation of Space Station exterior, space and the Earth

Columbus Laboratory: Houses experiment racks and external platforms
Microgravity Facilities for Columbus: provides experiment capabilities

Multi-Purpose Logistics Module (MPLM): Resupplies the Space Station after being installed by the Space Shuttle

Node 2: Connects several modules

Coupe longitudinale de la frégate



LE LANCEUR ARIANE 5-ES



50,5 m

Coiffe

- (RUAG Space)
- ▼ 17 m
- ▼ Masse : 2,6 t

ATV 5 Georges Lemaître

- (Airbus Defence and Space)
- ▼ Masse : 19,9 t (sans adaptateur)

EPS - Etage à Propergols Stockages

- (Airbus Defence and Space)
- ▼ Hauteur : 3,36 m
- ▼ Moteur Aestus
- ▼ Sans TP
- ▼ 29 kN

EPC - Etage principal Cryotechnique

- (Airbus Defence and Space)
- ▼ Hauteur : 31 m
- ▼ Masse : 188,3 t

EAP - Etage d'Accélération à Poudre

- (Airbus Defence and Space)
- ▼ Hauteur : 31,6 m
- ▼ Masse : environ 278 t

Moteur Vulcain 2

- (Safran)
- ▼ Poussée : 1 390 kN (dans le vide)
- ▼ 540 secondes de fonctionnement

773 tonnes
(masse totale au décollage)

Case à équipement

- (Airbus Defence and Space)
- ▼ Hauteur : 1,56 m
- ▼ Masse : 1,7 t

Masse d'ergols (en tonnes) présente à HO

- L : Liquides
- H : Cryogéniques
- P : Solides

MPS - Moteur à Propergol Solide

- (Europropulsion)
- ▼ Poussée moyenne : 5 060 kN
- ▼ Poussée maximum : 7 080 kN (dans le vide)
- ▼ 130 secondes de propulsion



13.000 kN au décollage
(à HO + 7 à 8 secondes)





