



FRENCH SPACE
INDUSTRY
CAPABILITIES
CATALOGUE

CATALOGUE
DES CAPACITÉS
DE L'INDUSTRIE
SPATIALE FRANÇAISE

CATALOGUE DES CAPACITES DE L'INDUSTRIE SPATIALE FRANCAISE

cnes.fr/entreprises/catalogue-industrie-spatiale



EDITORIAL

Avec l'essor des nouvelles technologies du numérique et du « Newspace », de nombreux domaines d'application du spatial sont en pleine évolution, tels l'environnement, les télécommunications, les transports, la mobilité ou la santé. Dans ce contexte où l'on voit émerger de nouveaux acteurs publics ou privés, et face à des enjeux majeurs à la fois sociétaux, scientifiques ou de souveraineté nationale, l'Europe reste fermement installée dans le trio de tête des puissances spatiales, derrière les Etats-Unis et bien souvent devant la Chine.

La France est le moteur historique de ce succès européen, avec un secteur spatial particulièrement performant, dans lequel le CNES articule et irrigue les mondes de la recherche et de l'industrie.

Grâce à une politique industrielle volontariste, menée depuis plus d'un demi-siècle, en s'appuyant sur des investissements publics ciblés, notre pays dispose d'une industrie spatiale compétitive de très haute technologie, pourvoyeuse d'emplois, avec des compétences multiples, allant des grands maîtres d'œuvre industriels, des entreprises de taille intermédiaire, aux très nombreuses PME ou startups. Cette industrie représente aujourd'hui des dizaines de milliers d'emplois hautement qualifiés directement liés au spatial, soit plus du tiers des emplois en Europe, et génère environ la moitié du chiffre d'affaires dégagé par le secteur spatial européen.

Le CNES a le plaisir de publier ce catalogue des capacités de l'industrie spatiale française. Ce dernier est destiné à promouvoir l'écosystème français. Il s'agit de favoriser le réflexe France auprès des partenaires français et internationaux et de contribuer ainsi au succès de nos industriels sur les marchés à l'export. Avec plus de 250 entreprises déjà référencées, et une fonctionnalité de recherche de compétences accessible en ligne, c'est un outil de « sourcing » unique pour trouver le prestataire ou le partenaire disposant de l'expertise ou de la capacité de développement attendue.

Agences spatiales, laboratoires scientifiques et industriels, nous inventons l'espace de demain !

Philippe Baptiste, Président Directeur Général du CNES, le 15 février 2024

FRENCH SPACE INDUSTRY CAPABILITIES CATALOGUE

<https://cnes.fr/en/business/space-industry-catalogue>



EDITORIAL

With the surge in new digital technologies and New Space, many applications served by space—like for example the environment, telecommunications, transport, mobility and healthcare—are undergoing deep transformations. At a time when new public and private players are coming onto the scene and we are facing major social, scientific and national sovereignty challenges, Europe remains steadfastly in the world's top three space powers, behind the United States and very often ahead of China.

France has historically played a driving role in this European success story, through a particularly vibrant space sector in which CNES shapes and irrigates research and industry.

Thanks to a proactive industrial policy pursued over the course of more than half a century and sustained by targeted government investments, our nation has built a competitive high-tech space industry providing jobs and a broad palette of skills, spanning large primes, mid-tier firms and numerous SMEs and start-ups. This industry today supports tens of thousands of highly skilled jobs directly connected to space, accounting for more than a third of all jobs in Europe and nearly half of European space sector revenues.

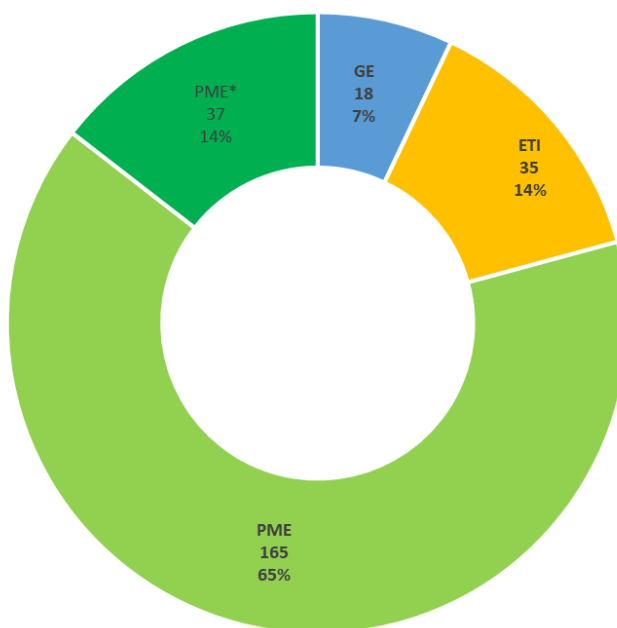
CNES is pleased to publish this catalogue of French space industry capabilities. It is designed to promote the French ecosystem and to encourage partners at home and abroad to “think France”, thus helping our manufacturers to succeed in export markets. With more than 250 firms already listed and its online skill search feature, the catalogue is a unique sourcing tool to find the expertise or development capabilities you are looking for.

Together, we space agencies, research laboratories and industry contractors are inventing the future of space!

Philippe Baptiste, CNES Chairman & CEO, 15 February 2024

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FRENCH SPACE COMPANIES SOCIÉTÉS SPATIALES FRANÇAISES



	Type	Staff headcount	Turnover	Total balance sheet
PME / SME	Petite et Moyenne Entreprise Small and Medium Enterprise	≤ 250	≤ 50 M€	≤ 43 M€
PME* / SME*	Petite et Moyenne Entreprise étendue Extended Small and Medium Enterprise	Same criteria as SME regardless of shareholding (owned by MSE or LE)		
ETI / MSE	Entreprise de taille Intermédiaire Mid-sized Enterprise	≤ 5000	≤ 1500 M€	≤ 2000 M€
GE / LE	Grande Entreprise Large Enterprise	5000 <	1500 M€ <	2000 M€ <

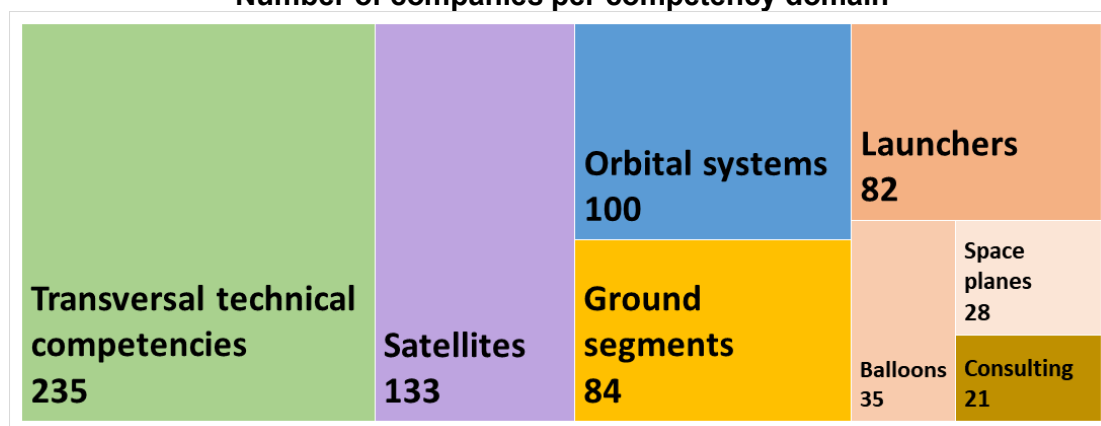
1990

COMPETENCIES - COMPETENCES

<https://cnes.fr/entreprises/catalogue-industrie-spatiale> : outil de recherche de compétences en ligne

<https://cnes.fr/en/business/space-industry-catalogue> : online competencies sourcing tool

Number of companies per competency domain



Competencies broken down by area – Compétences détaillées par domaine

Orbital systems	Orbital systems prime contractor Orbital systems engineering On-board to ground engineering	Orbital systems equipment manufacturers AIT-AIV System simulation means
Ground segments	Ground control center Ground mission center Ground segments equipment	Ground station Beacon, user terminal Orbital system operations
Launchers	Launcher prime contractors Launcher engineering Launcher Propulsion Launcher equipment	Launcher test means Launch base development Launch base exploitation Launch services and operations
Satellites	Structure Thermal control Harness Electrical power Propulsion Avionic Com payload TTC	AOCS On-board computer Telemetry payload Scientific payload Optical payload Microgravity payload Navigation-Localisation payload Security-defence payload
Space Planes	Space plane prime contractors Space plane engineering On-board to ground engineering Space plane equipment	Space plane test means Aerospace base development Space planes services and operations
Balloons	Balloon envelopes Balloon gondola & on-board equipment	Balloon miscellaneous (SW, ground segment, metrology, parachute, etc.)
Transversal competencies	System engineering AIV AIT Test means Flight dynamics Atmospheric re-entry Space data processing Security, encryption Mechanisms Structure Mechanics Aerothermodynamics Electric Thermic, coatings, MLI, thermoelectronics, cryotechnics, etc. Electronic components	Electronics Antennas Robotics Electromagnetic compatibility Radiofrequencies Satellite location Time-Frequency Industrial gases Pyrotechnics Quality Assurance (product assurance, safety) Materials & Process Coatings Space environment effects
Consulting in space domain	Concept, feasibility and engineering studies of space systems Assistance in setting-up projects and contracts Assistance to projects and contracts follow-up	Support and training to operations and exploitations of space systems

List of companies – Liste des sociétés

If your company is not referenced below → contact us at
Si votre société n'est pas référencée → contactez nous à

catalogue.industrie@cnes.fr

3D PLUS
3DCERAM
ABBIA GNSS TECHNOLOGIES
ABSOLUT SENSING
ABSOLUT SYSTEM
ACB - ATLANTEC
ACB - CIBEL
ACRI ST
ACTIA AEROSPACE Dinard
ACTIA AEROSPACE Toulouse
AD INDUSTRIES - MS COMPOSITES
ADDUP
ADVEOTEC
AFC-STAB
AGENIUM SPACE
AGILINK MICROWIRES
AIKO
AIRBUS DEFENCE AND SPACE
AIRBUS PROTECT
AKKA Technologies
ALATYR
ALCADIA ENTREPRISES
ALDORANE
ALDORIA
ALLIANCE4U
ALTEN
ALTER TECHNOLOGY France
AMETRA
ANYWAVES
ARCSPACE
AREELIS TECHNOLOGIES
ARIA ELECTRONIQUE
ARIANEGROUP
ARIANESPACE
ARKANE
ARMOR ARSENAL
ASB AEROSPATIALE BATTERIES
ATEM
ATOS
AUREA TECHNOLOGY
AVANTIS

AXON CABLE
BERTIN ALPAO
BERTIN TECHNOLOGIES
BLACKLEAF
CAILABS
CALLISTO
CAPGEMINI
CEDRAT TECHNOLOGIES
CERFACS
CES WORKS
CGI
CILAS
CIO SYSTEMES EMBARQUES
CIRMA
CLEMESSY
CLIX INDUSTRIES
CLS
CNIM SYSTEMES INDUSTRIELS
COMAT
COREDUX FRANCE
CORIOLIS
CREATIVE EUROCOM
CS GROUP
CT INGENIERIE
CYBERINFLIGHT
CYSEC FRANCE
DACTEM INTERNATIONAL
DASSAULT AVIATION
DAWN AEROSPACE
DYCSYT
EASII IC
EGIDE
ELEMCA
EMITECH-GNSS
ENVIRPROD - ARMELIO
EREMS
ERNEO
E-SPACE
ESQS - APAVE
ESSP
ETIENNE LACROIX TOUS ARTIFICES

EUROCONSULT
EUROPULSION
EUROSATCOM
EUTELSAT
EVERSAT
EXAIL
EXAIL AEROSPACE
EXENS GROUP
EXOTRAIL
EXPLEO
EXXELIA
FDC
FLEURET
FLUCTUS
FLYING WHALES
GAEL SYSTEMS
GAMA
GEO4I
GEOMATYS
GISAÏA
GMV INNOVATING SOLUTIONS
GRASP
GREENERWAVE
GROUPE ADF
HALCYON
HEATSELF
HEMERIA
HEMERIA AIRSHIP
HENSOLDT SPACE CONSULTING
HIONOS
HOOKE ELECTRONICS
HOTBLOCK ON BOARD
HUMAN DESIGN GROUP
HYGEOS
INDEPENDENT LIVING BASE
INFINITE ORBITS
InMind-VR
INSTITUT LAFAYETTE
InterAC
INTRASPEC TECHNOLOGIES
ION-X
ISP SYSTEM

JFB SPACE CONSULTING
KAYRROS
KERDRY
KINEIS
KRATOS COMMUNICATIONS
L3HARRIS GEOSPATIAL
LATECOERE INTERCONNECTION SYSTEMS
LATESYS
LATITUDE
LISI AEROSPACE ADDITIVE MANUFACTURING
LOFT ORBITAL
M3 SYSTEMS
MAGELLIUM
MAIASPACE
MAP SPACE COATINGS
MATRA ELECTRONIQUE
MECANO I.D.
MEDES
MEDYSYS
MELIAD
MERSEN BOOSTEC
METRAVIB ENGINEERING
MICRONOR
MICROTEC
MIRATLAS
MOSS
MVG (SATIMO)
NANOXPLORE
NERYS
NEVERHACK
NEXIO
NEXTER MUNITIONS
NEXVISION
NICOMATIC
NIMESIS TECHNOLOGY
NOVA COGITO
NOVELTIS
NUMERISAT
OMEGA SYSTEMES (WEB INDUSTRIES)
OPUS AEROSPACE
ORBITAL VIEWS
PANGEA AEROSPACE
PARSIMONI

PCB PIEZOTRONICS
PHOTONIS
PIXSTART
PLANEXUS
PLUG IN
POSITHÔT
PROCUREEZY
PROMETHEE Earth Intelligence
PVa Conseil & Développement
PYROALLIANCE
PYTHEAS TECHNOLOGY
R.TECH
RADIALL
RAKON
RESA
RESCOLL
RIDE!
RTIME
SAFRAN AIRCRAFT ENGINES
SAFRAN ELEC & DEF
SAFRAN REOSC
SAFRAN.AI
SAFT
SAP Micromécanique
SATCONSEIL
SATCONSULT
SCALAGENT D.T.
SCALIAN
SCASSI
SCIENTEAMA
SECTOR
SEGULA TECHNOLOGIES
SELHA Group
SEREME
SERMA MICROELECTRONICS
SERMA TECHNOLOGIES
SILIOS TECHNOLOGIES
SMAC
SODERN
SODITECH
SOGECCLAIR AEROSPACE
SOKARIS INGENIERIE
SOPEMEA
SOPHIA ENGINEERING
SOTEREM

SOTREM SEO
SPACEBEL
SPACEDREAMS
SPACELOCKER
SpacePharma
SPARTAN SPACE
SPHEREA
SPIRIT TECHNOLOGIES
STEEL ELECTRONIQUE
STIRWELD
STMICROELECTRONICS
SYLPHAERO
SYMETRIE
SYNTONY
SYSTRONIC
TECALEMIT AEROSPACE
TECALEMIT TUBES
TECHNATIUM
TECHNIP ENERGIES
TELEDYNE E2V
TELERAD
TELESPAZIO FRANCE
TEMISTH
TERAKALIS
TERNWAVES
THALES ALENIA SPACE
THALES DIS
THALES SERVICES NUMERIQUES
THALES SESO
THE EXPLORATION COMPANY
THERMOCOAX
THIOT INGENIERIE
THRUSTME
TIMELINK MICROSYSTEMS
TRAD
TRONICO
UNITED MONOLITHIC SEMICONDUCTORS (UMS)
U-SPACE
VISHAY
VISIOTERRA
VIVERIS
WATT&WELL
WEEROC

Orbital systems						
	AT-ATV system simulation means	Orbital systems equipment manufacturers	On-board to ground engineering	Orbital systems engineering	Orbital systems prime contractor	Space infrastructure operator
ABBIA GNSS TECHNOLOGIES	●					
ABSOLUT SENSING				●		
ABSOLUT SYSTEM	●	●	●	●		
ACTIA AEROSPACE Dinard	●	●	●			
ACTIA AEROSPACE Toulouse		●				
AD INDUSTRIES - MS COMPOSITES		●				
ADDUP		●				
AFC-STAB		●				
AGENIUM SPACE			●			
AGILINK MICROWIRES		●				
AIKO			●	●		
AIRBUS DEFENCE AND SPACE	●	●	●	●	●	
AIRBUS PROTECT			●	●		
AKKA Technologies			●	●		
ALATYR			●		●	●
ALDORIA			●			
ALLIANCE4U	●					
ALTEN	●		●	●		
ALTER TECHNOLOGY France	●					
ARCSPACE		●		●		
ARIANEGROUP	●	●	●	●		
ARMOR ARSENAL		●				
ATOS	●		●	●		
AVANTIS	●			●		
BERTIN TECHNOLOGIES		●				
CAPGEMINI				●		
CES WORKS				●		
CGI	●		●	●		
CIRMA	●	●				
CLEMESSY	●		●			
COMAT	●	●				
COREDUX FRANCE		●				
CREATIVE EUROCOM		●				
CS GROUP	●	●	●	●		
CT INGENIERIE				●		
DACTEM INTERNATIONAL	●					
DAWN AEROSPACE		●				●
EREMS		●				
ERNEO		●				
E-SPACE	●	●	●	●	●	
ESSP			●			
EUTELSAT						●
EXAIL AEROSPACE			●			
EXOTRAIL	●					
EXPLEO			●			

Orbital systems						
	AT-ATV system simulation means	Orbital systems equipment manufacturers	On-board to ground engineering	Orbital systems engineering	Orbital systems prime contractor	Space infrastructure operator
FLEURET		●				
GMV INNOVATING SOLUTIONS	●	●	●	●	●	
HEATSELF	●					
HEMERIA	●	●	●	●	●	
HOTBLOCK ON BOARD		●				
HUMAN DESIGN GROUP	●			●		
INFINITE ORBITS	●	●	●	●	●	
KINEIS			●		●	●
LATECOERE INTERCONNECTION SYSTEMS	●			●		
LATESYS	●			●		
LOFT ORBITAL	●		●	●	●	●
MAIASPACE				●	●	
MECANO I.D.	●	●		●		
MEDYSYS			●			
NEVERHACK	●			●		
NEXVISION		●				
NIMESIS TECHNOLOGY				●		
NOVA COGITO				●		
NOVELTIS			●	●		
OPUS AEROSPACE				●		
PROMETHEE EARTH INTELLIGENCE						●
PYROALLIANCE		●				
PYTHEAS TECHNOLOGY		●				
RESA		●				
RTIME			●			
SAFRAN AIRCRAFT ENGINES	●	●				
SAFRAN ELEC & DEF		●				
SATCONSULT			●	●		
SCALAGENT D.T.			●			
SCALIAN	●					
SEGULA TECHNOLOGIES			●	●		
SODITECH				●		
SOGECCLAIR AEROSPACE				●		
SOPEMEA	●					
SOPHIA ENGINEERING	●	●	●	●		
SOTEREM	●			●		
SPACEBEL	●		●	●		
SPACELOCKER			●	●		
SPHEREA	●					
STEEL ELECTRONIQUE		●				
SYMETRIE	●					
SYNTONY	●					
TELERAD			●			●
TELESPAIO France				●		
TERNWAVES			●			

Orbital systems						
	AT-ATV system simulation means	Orbital systems equipment manufacturers	On-board to ground engineering	Orbital systems engineering	Orbital systems prime contractor	Space infrastructure operator
THALES ALENIA SPACE	●	●	●	●	●	
THALES SERVICES NUMERIQUES			●	●		
THALES SESO		●				
THE EXPLORATION COMPANY	●	●	●	●	●	
THERMOCOAX		●				
TRAD	●					
TRONICO	●	●				
U-SPACE				●	●	
VIVERIS	●		●	●		
WATT&WELL		●				

Launchers								
	Launch base development	Launcher equipment manufacturers	Launch base exploitation	Launcher engineering	Launcher prime contractors	Launcher test means	Launcher propulsion	Launch services and operations
ABSOLUT SYSTEM								
AD INDUSTRIES - MS COMPOSITES								
AFC-STAB								
AIRBUS DEFENCE AND SPACE								
AIRBUS PROTECT								
ALCADIA ENTREPRISES								
ALTEN								
AMETRA								
AREELIS TECHNOLOGIES								
ARIANEGROUP								
ARIANESPACE								
ARMOR ARSENAL								
ASB AEROSPATIALE BATTERIES								
ATEM								
AUREA TECHNOLOGY								
AVANTIS								
CAPGEMINI								
CERFACS								
CIRMA								
CLEMESSY								
CNIM SYSTEMES INDUSTRIELS								
COMAT								
COREDUX FRANCE								
CS GROUP								
CT INGENIERIE								
DACTEM INTERNATIONAL								
DASSAULT AVIATION								
ENVIRPROD - ARMELIO								
ERNEO								
ESQS - APAVE								
EUROPROPULSION								
EXAIL								
EXAIL AEROSPACE								
EXPLEO								
GMV INNOVATING SOLUTIONS								
GROUPE ADF								
HALCYON								
HIONOS								
HUMAN DESIGN GROUP								
LATECOERE INTERCONNECTION SYSTEMS								
LATESYS								
LATITUDE								
MAIASPACE								
MECANO I.D.								
MEDYSYS								
MICROTEC								

Launchers								
	Launch base development	Launcher equipment manufacturers	Launch base exploitation	Launcher engineering	Launcher prime contractors	Launcher test means	Launcher propulsion	Launch services and operations
NERYS								
NEXTER MUNITIONS								
NOVA COGITO								
OMEGA SYSTEMES (WEB INDUSTRIES)								
OPUS AEROSPACE								
PANGEA AEROSPACE								
PCB PIEZOTRONICS								
POSITHÔT								
PYROALLIANCE								
PYTHEAS TECHNOLOGY								
R.TECH								
RESA								
RIDE!								
SAFRAN ELEC & DEF								
SATCONSULT								
SEGULA TECHNOLOGIES								
SEREME								
SOGECCLAIR AEROSPACE								
SOKARIS INGENIERIE								
SOPHIA ENGINEERING								
SPACEBEL								
SPACEDREAMS								
SPHEREA								
SYLPHAERO								
TECALEMIT AEROSPACE								
TECALEMIT TUBES								
TECHNIP ENERGIES								
TELESPAIO France								
TEMISTH								
TERAKALIS								
THALES SERVICES NUMERIQUES								
THE EXPLORATION COMPANY								
THERMOCOAX								
TRONICO								
VIVERIS								
WATT&WELL								

Satellites	Avionic	Thermal control	Navigation-Localisation payload	Imagery payload	Scientific payload	Optical payload	Com / IoT payload	Security-defence payload	Harness	On-board computer	Propulsion	Electrical power	AOCS	Structure	Telemetry payload	TTC
3D PLUS																
3DCERAM																
ABSOLUT SYSTEM																
ACRI ST																
ACTIA AEROSPACE Dinard																
AD INDUSTRIES - MS COMPOSITES																
ADDUP																
AFC-STAB																
AGENIUM SPACE																
AGILINK MICROWIRES																
AIKO																
AIRBUS DEFENCE AND SPACE																
AKKA Technologies																
ALATYR																
ALDORIA																
ALLIANCE4U																
ALTEN																
AMETRA																
ANYWAVES																
ARCSPACE																
AREELIS TECHNOLOGIES																
ARIANEGROUP																
ARMOR ARSENAL																
ASB AEROSPATIALE BATTERIES																
ATEM																
ATOS																
AUREA TECHNOLOGY																
AVANTIS																
AXON CABLE																
BERTIN TECHNOLOGIES																
CAILABS																
CAPGEMINI																
CEDRAT TECHNOLOGIES																
CERFACS																
CGI																
CILAS																
CIRMA																
CLS																
COMAT																
COREDUX FRANCE																
CREATIVE EUROCOM																
CS GROUP																
CT INGENIERIE																
DACTEM INTERNATIONAL																
DASSAULT AVIATION																
DAWN AEROSPACE																

Satellites	Avionic	Thermal control	Navigation-Localisation payload	Imagery payload	Scientific payload	Optical payload	Com / IoT payload	Security-defence payload	Harness	On-board computer	Propulsion	Electrical power	AOCS	Structure	Telemetry payload	TTC
DYCSYT																
EASII IC																
ENVIRPROD - ARMELIO																
EREMS																
ERNEO																
E-SPACE																
EUTELSAT																
EXAIL																
EXAIL AEROSPACE																
EXOTRAIL																
EXPLEO																
GAMA																
GMV INNOVATING SOLUTIONS																
HALCYON																
HEATSELF																
HEMERIA																
HIONOS																
HOTBLOCK ON BOARD																
HYGEOS																
INFINITE ORBITS																
ION-X																
KINEIS																
LATECOERE INTERCONNECTION SYSTEMS																
LATESYS																
LOFT ORBITAL																
M3 SYSTEMS																
MAGELLIUM																
MAIASPACE																
MECANO I.D.																
MEDES																
MEDYSYS																
MELIAD																
MERSEN BOOSTEC																
METRAVIB ENGINEERING																
MICROTEC																
NEVERHACK																
NEXVISION																
NIMESIS TECHNOLOGY																
NOVELTIS																
NUMERISAT																
OMEGA SYSTEMES (WEB INDUSTRIES)																
PANGAEA AEROSPACE																
PARSIMONI																
PCB PIEZOTRONICS																
PLANEXUS																
PYTHEAS TECHNOLOGY																

Satellites															
	Avionic	Thermal control	Navigation-Localisation payload	Imagery payload	Scientific payload	Optical payload	Com : IoT payload	Security-defence payload	Harness	On-board computer	Propulsion	Electrical power	AOCS	Structure	Telemetry payload
R.TECH															
RADIALL															
RESA															
RESCOLL															
SAFRAN AIRCRAFT ENGINES															
SAFRAN ELEC & DEF															
SAFRAN REOSC															
SAFT															
SAP Micromécanique															
SCALIAN															
SCIENTEAMA															
SEGULA TECHNOLOGIES															
SELHA Group															
SILIOS TECHNOLOGIES															
SODERN															
SODITECH															
SOGECCLAIR AEROSPACE															
SOPHIA ENGINEERING															
SOTEREM															
SOTREM SEO															
SPACEBEL															
SPACELOCKER															
SPACEPHARMA															
STEEL ELECTRONIQUE															
SYLPHAERO															
SYMETRIE															
TECALEMIT AEROSPACE															
TECALEMIT TUBES															
TELEDYNE E2V															
TELESPAZIO France															
TEMISTH															
TERNWAVES															
THALES ALENIA SPACE															
THALES SERVICES NUMERIQUES															
THALES SESO															
THERMOCOAX															
THRUSTME															
TRONICO															
U-SPACE															
VIVERIS															
WATT&WELL															

Ground segments						
	Beacon, user terminal	Ground control center	Ground mission center	Ground segments equipment manufacturers	Orbital system operations	Ground station
ACRI ST						
ACTIA AEROSPACE Dinard						
ACTIA AEROSPACE Toulouse						
AFC-STAB						
AGENUM SPACE						
AIKO						
AIRBUS DEFENCE AND SPACE						
AIRBUS PROTECT						
ALATYR						
ALLIANCE4U						
ALTEN						
AMETRA						
ARIANEGROUP						
ATEM						
ATOS						
AUREA TECHNOLOGY						
AVANTIS						
BERTIN TECHNOLOGIES						
CAILABS						
CALLISTO						
CAPGEMINI						
CERFACS						
CGI						
CIRMA						
CIO SYSTEMES EMBARQUES						
CLEMESSY						
CLS						
CREATIVE EUROCOM						
CS GROUP						
CT INGENIERIE						
EREMS						
ESSP						
EUROSATCOM						
EUTELSAT						
EVERSAT						
EXAIL AEROSPACE						
EXENS GROUP						
EXOTRAIL						
EXPLO						
FDC						
FLEURET						
FLYING WHALES						
GMV INNOVATING SOLUTIONS						
GREENERWAVE						
HEMERIA						

Ground segments						
	Beacon, user terminal	Ground control center	Ground mission center	Ground segments equipment manufacturers	Orbital system operations	Ground station
HUMAN DESIGN GROUP		●	●			
KINEIS	●	●	●		●	●
KRATOS COMMUNICATIONS		●	●	●		●
LATECOERE INTERCONNECTION SYSTEMS						●
LATESYS				●		
LOFT ORBITAL		●	●		●	
M3 SYSTEMS	●					
MAGELLIUM			●			
METRAVIB ENGINEERING				●		
MICROTEC	●			●		●
MIRATLAS				●	●	●
NIMESIS TECHNOLOGY				●		
NUMERISAT	●			●		●
PLANEXUS	●			●		
POSITHÔT				●	●	
PYROALLIANCE				●		
RESA				●		
RTIME		●	●			
SCALAGENT D.T.		●	●			
SCALIAN		●	●		●	●
SOTEREM						●
SOTREM SEO				●		
SPACEBEL		●	●		●	
SPACEDREAMS				●		
SPACELOCKER		●	●		●	
SPHEREA				●		●
TECALEMIT AEROSPACE				●		
TECALEMIT TUBES				●		
TECHNIP ENERGIES				●		
TELERAD	●	●	●	●		●
TELESPAIO France					●	
TERNWAVES	●					
THALES ALENIA SPACE	●	●	●	●	●	●
THALES SERVICES NUMERIQUES		●	●		●	
THALES SESO				●		
THRUSTME					●	
TIMELINK MICROSYSTEMS		●		●		
TRONICO	●			●		
VIVERIS	●	●	●	●		●

Balloons

Balloon miscellaneous (SW, ground segment, metrology, parachute, etc.)
 Balloon envelopes
 Balloon gondola : on-board equipment manufacturers

AFC-STAB			
ALTEN			
ATEM			
AVANTIS			
CIO SYSTEMES EMBARQUES			
COMAT			
COREDUX FRANCE			
CREATIVE EUROCOM			
DACTEM INTERNATIONAL			
ENVIRPROD - ARMELIO			
EXAIL AEROSPACE			
FLYING WHALES			
HALCYON			
HEMERIA AIRSHIP			
HIONOS			
HUMAN DESIGN GROUP			
LATECOERE INTERCONNECTION SYSTEMS			
LATESYS			
MECANO I.D.			
MICROTEC			
NERYS			
NOVELTIS			
PYROALLIANCE			
R.TECH			
RESCOLL			
RTIME			
SAP Micromécanique			
SOPHIA ENGINEERING			
SOTREM SEO			
STEEL ELECTRONIQUE			
TERNWAVES			
THALES ALENIA SPACE			
THALES SERVICES NUMERIQUES			
TRONICO			
VIVERIS			

Space Planes							
	Space plane aerospace base development	Space plane equipment manufacturers	Space plane engineering	Space plane on-board to ground engineering	Space plane prime contractors	Space plane test means	Space plane services and operations
AD INDUSTRIES - MS COMPOSITES	●						
ADDUP	●						
AFC-STAB	●						
AGENIUM SPACE			●				
ALCADIA ENTREPRISES	●		●		●		
AMETRA					●		
AREELIS TECHNOLOGIES					●		
COREDUX FRANCE	●				●		
DASSAULT AVIATION	●	●	●	●	●	●	●
DAWN AEROSPACE		●	●				●
GMV INNOVATING SOLUTIONS			●	●			
HUMAN DESIGN GROUP	●		●	●			
KINEIS				●			
OMEGA SYSTEMES (WEB INDUSTRIES)		●					
PANGEA AEROSPACE		●					
PCB PIEZOTRONICS					●		
POSITHÔT					●		
SEGULA TECHNOLOGIES			●	●			
SEREME					●		
SPIRIT TECHNOLOGIES			●		●		
SYLPHAERO			●		●		
TECALEMIT TUBES		●			●		
TELERAD		●		●	●		
TEMISTH		●	●				
THERMOCOAX					●		
TRONICO		●			●		
VIVERIS				●			
WATT&WELL		●					

Transversal Competencies																																	
	Aerothermodynamics	AVIAT Test means	Antennas	Quality Assurance (product assurance, safety)	Electromagnetic compatibility	Electronic components	Design : 2D/3D Visualization of space systems	Flight dynamics	Space environment effects	Electric	Electronics	Industrial gases	System engineering	Satellite localisation and navigation	Materials : Process Coatings	Structure Mechanics	Mechanisms	Pyrotechnics	Radiofrequencies	Atmosphérique reentry	Robotics	Security, encryption, cybersecurity	Space situational awareness, space debris	Satellite communication	Time-Frequency	Thermal Control, Thermal coatings, ML, cryotechnics	Space data processing	Signal processing	Human spaceflights and experimentations in microgravity				
3D PLUS																																	
3DCERAM																																	
ABBIA GNSS TECHNOLOGIES																																	
ABSOLUT SENSING																																	
ABSOLUT SYSTEM																																	
ACB - ATLANTEC																																	
ACB - CIBEL																																	
ACRI ST																																	
ACTIA AEROSPACE Dinard																																	
ACTIA AEROSPACE Toulouse																																	
AD INDUSTRIES - MS COMPOSITES																																	
ADDUP																																	
ADVEOTEC																																	
AFC-STAB																																	
AGENIUM SPACE																																	
AGILINK MICROWIRES																																	
AIKO																																	
AIRBUS DEFENCE AND SPACE																																	
AIRBUS PROTECT																																	
AKKA Technologies																																	
ALATYR																																	
ALCADIA ENTREPRISES																																	
ALDORIA																																	
ALLIANCE4U																																	
ALTEN																																	
ALTER TECHNOLOGY France																																	

Fraternité	Transversal Competencies																													
	Aerothermodynamics	AV/AT Test means	Antennas	Quality Assurance (product assurance, safety)	Electromagnetic compatibility	Electronic components	Design ; 2D/3D visualization of space systems	Flight dynamics	Space environment effects	Electric	Electronics	Industrial gases	System engineering	Satellite localisation and navigation	Materials ; Process Coatings	Structure Mechanics	Mechanisms	Pyrotechnics	Radiofrequencies	Atmosphérique reentry	Robotics	Security, encryption, cybersecurity	Space situational awareness, space debris	Satellite communication	Time-Frequency	Thermal Control, Thermal coatings, ML, cryotechnics	Space data processing	Signal processing	Human spaceflights and experiments in microgravity	
AMETRA		●												●	●															
ANYWAVES			●																											
ARCSPACE		●										●		●	●	●				●										
AREELIS TECHNOLOGIES	●							●									●		●					●						
ARIA ELECTRONIQUE					●				●	●																				
ARIANEGROUP	●	●	●	●	●	●	●	●	●	●		●	●	●	●	●	●	●	●	●	●		●	●		●	●	●	●	
ARKANE		●								●								●										●		
ARMOR ARSENAL		●																						●						
ASB AEROSPATIALE BATTERIES									●																					
ATEM														●				●												
ATOS		●					●					●	●					●			●					●				
AUREA TECHNOLOGY																				●			●							
AVANTIS			●	●								●		●	●					●										
AXON CABLE															●															
BERTIN ALPAO												●			●											●				
BERTIN TECHNOLOGIES		●										●		●	●				●											
BLACKLEAF														●	●									●						
CAILABS																		●												
CALLISTO												●						●												
CAPGEMINI												●																		
CEDRAT TECHNOLOGIES				●						●				●	●															
CERFACS	●													●					●						●	●				
CGI				●			●					●	●							●	●	●								
CILAS														●							●				●					
CIRMA		●		●	●				●	●	●	●								●										
CIO SYSTEMES EMBARQUES									●																					

Transversal Competencies																														
	Aerothermodynamics	AV/AT Test means	Antennas	Quality Assurance (product assurance, safety)	Electromagnetic compatibility	Electronic components	Design : 2D/3D visualization of space systems	Flight dynamics	Space environment effects	Electric	Electronics	Industrial gases	System engineering	Satellite localisation and navigation	Materials : Process Coatings	Structure Mechanics	Mechanisms	Pyrotechnics	Radiofrequencies	Atmosphérique reentry	Robotics	Security, encryption, cybersecurity	Space situational awareness, space debris	Satellite communication	Time-Frequency	Thermal Control, Thermal coatings, ML, cryotechnics	Space data processing	Signal processing	Human spaceflights and experimentations in microgravity	
CLEMESSY		●		●					●											●	●									
CLIX INDUSTRIES													●	●	●															
CLS												●																		
CNIM SYSTEMES INDUSTRIELS				●										●																
COMAT		●		●				●						●	●									●						
COREDUX FRANCE										●																		●		
COROLIS						●								●						●										
CREATIVE EUROCOM		●		●					●	●		●		●				●		●										
CS GROUP						●			●			●	●								●						●			
CT INGENIERIE	●		●			●		●				●		●	●	●		●	●	●				●	●					
CYBERINFLIGHT																					●									
CYSEC France																					●		●							
DACTEM INTERNATIONAL		●							●	●				●	●					●										
DASSAULT AVIATION	●	●				●		●			●			●	●	●		●		●										
EASii IC					●			●		●									●					●						
EGIDE										●									●					●						
ELEMCA				●	●					●				●																
EMITECH-GNSS		●											●											●						
ENVIRPROD - ARMELIO	●			●										●			●													
EREMS										●																				
ERNEO								●																						
E-SPACE																							●							
ESQS - APAVE				●																										
ESSP				●									●											●			●			
ETIENNE LACROIX TOUS ARTIFICES														●		●	●													
EUROCONSULT																							●							

Transversal Competencies																														
	Aerothermodynamics	AV/AT Test means	Antennas	Quality Assurance (product assurance, safety)	Electromagnetic compatibility	Electronic components	Design : 2D/3D visualization of space systems	Flight dynamics	Space environment effects	Electric	Electronics	Industrial gases	System engineering	Satellite localisation and navigation	Materials : Process Coatings	Structure Mechanics	Mechanisms	Pyrotechnics	Radiofrequencies	Atmosphérique reentry	Robotics	Security, encryption, cybersecurity	Space situational awareness, space debris	Satellite communication	Time-Frequency	Thermal Control, Thermal coatings, ML, cryotechnics	Space data processing	Signal processing	Human spaceflights and experiments in microgravity	
EUROSATCOM			●		●																		●							
EUTELSAT												●							●				●				●			
EVERSAT			●		●				●	●		●		●	●			●			●		●							
EXAIL AEROSPACE		●	●		●				●	●		●	●					●		●				●						
EXENS GROUP																		●												
EXOTRAIL		●		●				●	●		●	●	●	●	●										●					
EXPLEO		●	●	●	●	●				●		●		●				●												
EXXELIA										●																				
FDC												●	●								●			●			●			
FLEURET														●	●															
FLUCTUS																										●	●			
FLYING WHALES	●											●																		
GAEL SYSTEMS																											●			
GEO4I																											●			
GEOMATYS																											●			
GISAiA																											●			
GMV INNOVATING SOLUTIONS		●		●				●				●	●					●	●	●	●		●			●				
GRASP																											●			
GREENERWAVE			●															●												
GROUPE ADF														●	●															
HALCYON														●	●															
HEATSELF														●										●	●					
HEMERIA									●		●				●										●					
HEMERIA AIRSHIP																								●						
HENSOLDT SPACE CONSULTING		●		●								●																		
HIONOS			●									●																		

Transversal Competencies	Specialized Competencies																												
	Aerothermodynamics	AV/AT Test means	Antennas	Quality Assurance (product assurance, safety)	Electromagnetic compatibility	Electronic components	Design : 2D/3D visualization of space systems	Flight dynamics	Space environment effects	Electric	Electronics	Industrial gases	System engineering	Satellite localisation and navigation	Materials : Process Coatings	Structure Mechanics	Mechanisms	Pyrotechnics	Radiofrequencies	Atmosphérique reentry	Robotics	Security, encryption, cybersecurity	Space situational awareness, space debris	Satellite communication	Time-Frequency	Thermal Control, Thermal coatings, MLI, cryotechnics	Space data processing	Signal processing	Human spaceflights and experiments in microgravity
HOOKE ELECTRONICS																													
HOTBLOCK ON BOARD																													
HUMAN DESIGN GROUP																													
HYGEOS																													
INDEPENDENT LIVING BASE																													
INFINITE ORBITS																													
InMind-VR																													
INSTITUT LAFAYETTE																													
INTERAC																													
INTRASPEC TECHNOLOGIES																													
ISP SYSTEM																													
JFB SPACE CONSULTING																													
KAYRROS																													
KERDRY																													
KINEIS																													
KRATOS COMMUNICATIONS																													
L3HARRIS GEOSPATIAL																													
LATECOERE INTERCONNECTION SYSTEMS																													
LATESYS																													
LSI AEROSPACE ADDITIVE MANUFACTURING																													
LOFT ORBITAL																													
M3 SYSTEMS																													
MAGELLIUM																													
MAIASPACE																													
MAP SPACE COATINGS																													
MATRA ELECTRONIQUE																													

Transversal Competencies																																	
	Aerothermodynamics	AV/AT Test means	Antennas	Quality Assurance (product assurance, safety)	Electromagnetic compatibility	Electronic components	Design ; 2D/3D visualization of space systems	Flight dynamics	Space environment effects	Electric	Electronics	Industrial gases	System engineering	Satellite localisation and navigation	Materials ; Process Coatings	Structure Mechanics	Mechanisms	Pyrotechnics	Radiofrequencies	Atmosphérique reentry	Robotics	Security, encryption, opbersecurity	Space situational awareness, space debris	Satellite communication	Time-Frequency	Thermal Control, Thermal coatings, ML, cryotechnics	Space data processing	Signal processing	Human spaceflights and experiments in microgravity				
MECANO I.D.		●										●		●	●	●																	
MEDES								●																									
MEDYSYS	●											●			●	●													●				
MELIAD														●	●						●												
MERSEN BOOSTEC				●										●	●	●																	
METRAVIB ENGINEERING																●																	
MICRONOR					●									●			●	●															
MICROTEC		●									●																						
MIRATLAS			●																									●					
MOSS																						●											
MVG (SATIMO)											●							●															
NANOXPLORE					●			●			●											●						●					
NERYS		●							●	●		●		●								●											
NEVERHACK												●						●			●		●				●	●					
NEXIO			●	●															●														
NEXTER MUNITIONS	●																	●															
NEXVISION											●																						
NICOMATIC					●				●	●																							
NIMESIS TECHNOLOGY			●												●	●				●													
NOVA COGITO								●		●		●	●					●		●			●				●	●	●				
NOVELTIS													●																				
NUMERISAT			●																●				●										
OMEGA SYSTEMES (WEB INDUSTRIES)														●												●							
OPUS AEROSPACE	●	●						●	●			●								●													
ORBITAL VIEWS					●																						●		●				
PARSIMONI																					●						●						



Transversal Competencies																														
	Aerothermodynamics	AI/IT Test means	Antennas	Quality Assurance (product assurance, safety)	Electromagnetic compatibility	Electronic components	Design : 2D/3D visualization of space systems	Flight dynamics	Space environment effects	Electric	Electronics	Industrial gases	System engineering	Satellite localisation and navigation	Materials : Process Coatings	Structure Mechanics	Mechanisms	Pyrotechnics	Radiofrequencies	Atmosphérique reentry	Robotics	Security, encryption, cybersecurity	Space situational awareness, space debris	Satellite communication	Time-Frequency	Thermal Control, Thermal coatings, ML, cryotechnics	Space data processing	Signal processing	Human spaceflights and experimentations in microgravity	
PCB PIEZOTRONICS		●																												
PHOTONIS								●																						
PIXSTART																												●		
PLANEXUS			●																●				●							
PLUG IN		●																												
POSITHÔT		●												●	●												●			
PYROALLIANCE															●	●	●													
PYTHEAS TECHNOLOGY										●						●														
R.TECH	●			●				●				●							●	●										
RADIAL					●	●													●											
RAKON																									●					
RESA		●	●			●				●	●			●					●		●					●				
RESCOLL														●												●				
RIDE!																			●											
RTIME	●							●				●														●	●			
SAFRAN.AI																											●			
SAFRAN AIRCRAFT ENGINES		●																												
SAFRAN ELEC & DEF		●		●		●		●	●	●	●	●	●		●				●		●									
SAFT											●																			
SAP Micromécanique			●		●										●	●			●		●									
SATCONSULT				●								●							●					●						
SCALIAN		●	●	●		●				●		●	●		●				●					●	●		●			
SCASSI																					●									
SCIENTEAMA			●		●					●		●							●						●		●			
SECTOR				●																										
SEGULA TECHNOLOGIES	●	●	●	●								●			●	●												●		

Transversal Competencies																																		
	Aerothermodynamics	AV/AT Test means	Antennas	Quality Assurance (product assurance, safety)	Electromagnetic compatibility	Electronic components	Design : 2D/3D visualization of space systems	Flight dynamics	Space environment effects	Electric	Electronics	Industrial gases	System engineering	Satellite localisation and navigation	Materials : Process Coatings	Structure Mechanics	Mechanisms	Pyrotechnics	Radiofrequencies	Atmosphérique reentry	Robotics	Security, encryption, cybersecurity	Space situational awareness, space debris	Satellite communication	Time-Frequency	Thermal Control, Thermal coatings, ML, cryotechnics	Space data processing	Signal processing	Human spaceflights and experiments in microgravity					
SELHA Group			●		●				●	●								●																
SEREME		●																																
SERMA MICROELECTRONICS					●					●			●					●				●												
SERMA TECHNOLOGIES		●		●	●		●		●				●					●																
SILIOS TECHNOLOGIES		●																																
SMAC													●	●	●																			
SODERN									●												●													
SODITECH															●									●										
SOGECLAIR AEROSPACE							●					●		●	●			●					●											
SOKARIS INGENIERIE												●		●	●	●								●										
SOPEMEA		●		●	●				●	●		●		●				●																
SOPHIA ENGINEERING		●								●		●		●			●	●																
SOTEREM															●																			
SOTREM SEO		●							●	●								●																
SPACEBEL		●					●	●				●	●								●			●		●								
SPACEDREAMS												●																						
SPACELOCKER															●																			
SPACEPHARMA																														●				
SPARTAN SPACE																														●				
SPHEREA		●			●					●		●						●					●											
SPIRIT TECHNOLOGIES	●	●												●	●									●										
STEEL ELECTRONIQUE										●																								
STIRWELD																								●										
STMICROELECTRONICS										●																	●							
SYLPHAERO	●	●							●										●					●										
SYMETRIE		●												●	●					●														

Transversal Competencies																																		
	Aerothermodynamics	AV/AT Test means	Antennas	Quality Assurance (product assurance, safety)	Electromagnetic compatibility	Electronic components	Design : 2D/3D visualization of space systems	Flight dynamics	Space environment effects	Electric	Electronics	Industrial gases	System engineering	Satellite localisation and navigation	Materials : Process Coatings	Structure Mechanics	Mechanisms	Pyrotechnics	Radiofrequencies	Atmosphérique reentry	Robotics	Security, encryption, cybersecurity	Space situational awareness, space debris	Satellite communication	Time/Frequency	Thermal Control, Thermal coatings, ML, cryotechnics	Space data processing	Signal processing	Human spaceflights and experiments in microgravity					
SYNTONY																																		
SYSTRONIC																																		
TECHNATIUM																																		
TECHNIP ENERGIES																																		
TELEDYNE E2V																																		
TELERAD																																		
TELESPAZIO France																																		
TEMISTH																																		
TERAKALIS																																		
TERNWAVES																																		
THALES ALENIA SPACE																																		
THALES DIS																																		
THALES SERVICES NUMERIQUES																																		
THALES SESO																																		
THE EXPLORATION COMPANY																																		
THERMOCOAX																																		
THIOT INGENIERIE																																		
THRUSTME																																		
TIMELINK MICROSYSTEMS																																		
TRAD																																		
TRONICO																																		
UNITED MONOLITHIC SEMICONDUCTORS (UMS)																																		
VISHAY																																		
VISIOTERRA																																		
VIVERIS																																		
WATT&WELL																																		

Fraternité																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
Transversal Competencies																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
Aerothermodynamics AV/AT Test means Antennas Quality Assurance (product assurance, safety) Electromagnetic compatibility Electronic components Design ; 2D/3D Visualization of space systems Flight dynamics Space environment effects Electric Electronics Industrial gases System engineering Satellite localisation and navigation Materials ; Process Coatings Structure Mechanics Mechanisms Pyrotechnics Radiofrequencies Atmospheric reentry Robotics Security, encryption, cybersecurity Space situational awareness, space debris Satellite communication Time-Frequency Thermal Control, Thermal coatings, MLI, cryotechnics Space data processing Signal processing Human spaceflights and experimentations in microgravity																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
WEEROC																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								

Consulting in the space domain

	Assistance in setting-up projects and contracts	Assistance to projects and contracts follow-up	Market, concept, feasibility and engineering studies of space systems	Support and training to operations and exploitations of space systems
AIRBUS PROTECT			●	●
ALDORANE	●	●	●	
ALLIANCE4U	●	●	●	●
ARCSPACE			●	
CAPGEMINI		●	●	●
CES WORKS	●	●	●	
CGI	●	●	●	●
ESQS - APAVE		●		●
EUROCONSULT	●	●	●	●
JFB SPACE CONSULTING	●	●	●	
NERYS		●		
NOVA COGITO	●		●	
PROCUREEZY	●			
PVA CONSEIL & DÉVELOPPEMENT			●	●
SATCONSEIL	●	●		●
SATCONSULT	●	●	●	●
SCIENTEAMA	●	●	●	
SEGULA TECHNOLOGIES	●	●		
SPACEDREAMS			●	
SPACELOCKER	●			
SYLPHAERO			●	