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FRENCH SPACE
INDUSTRY
CAPABILITIES
CATALOGUE

CATALOGUE
DES CAPACITÉS
DE L'INDUSTRIE
SPATIALE FRANÇAISE

CATALOGUE DES CAPACITES DE L'INDUSTRIE SPATIALE FRANCAISE

→ <https://cnès.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/entreprises/catalogue-industrie-spatiale>



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.

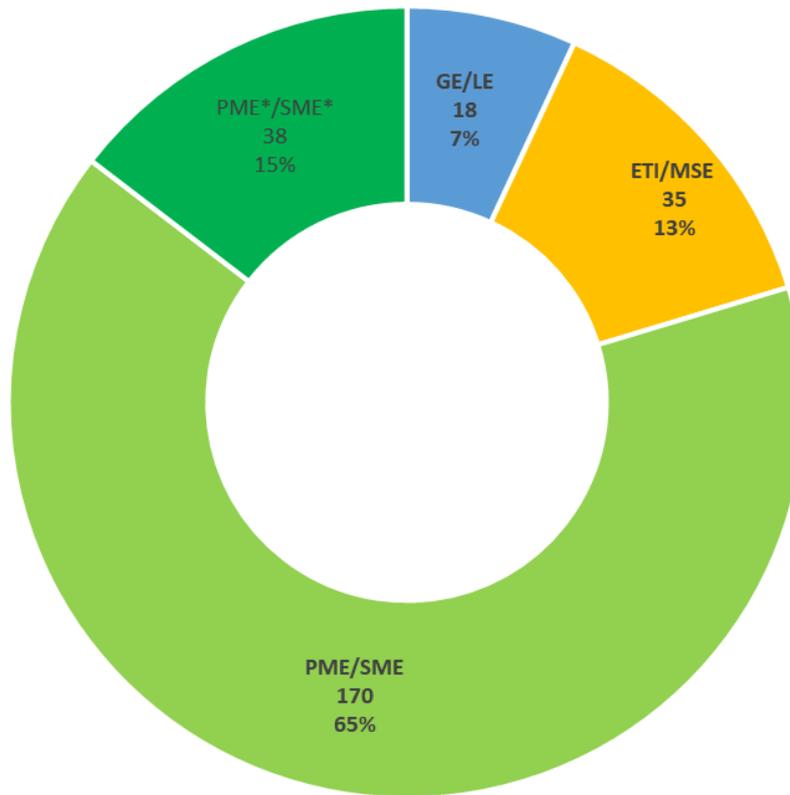
CNES is pleased to publish this catalogue of French space industry capabilities. It is designed to promote the French ecosystem and to encourage partners at home and abroad to “think France”, thus helping our manufacturers to succeed in export markets. With more than 250 firms already listed and its 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

261 FRENCH SPACE COMPANIES

→ <https://cnes.fr/en/entreprises/catalogue-industrie-spatiale>

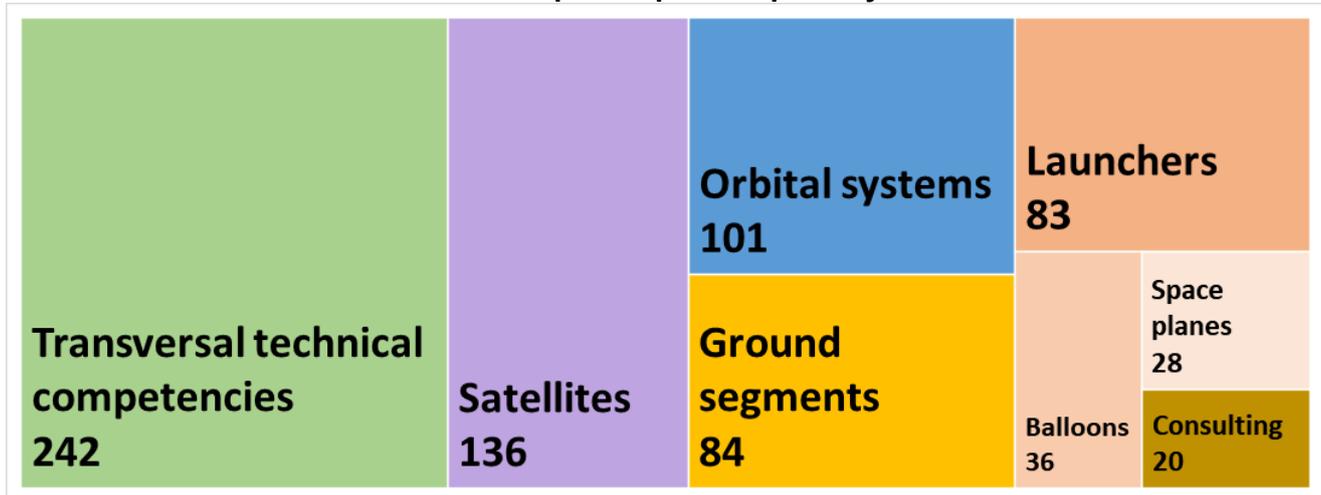


	Type	Staff headcount	Turnover	Total balance sheet
PME / SME	Petite et Moyenne Entreprise Small and Medium Enterprise	≤ 250	≤ 50 M€	≤ 43 M€
PME* / SME*	Petite et Moyenne Entreprise étendue Extended Small and Medium Enterprise	Same criteria as SME regardless of shareholding		
ETI / MSE	Entreprise de taille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

2017 COMPETENCIES WITH ON-LINE SOURCING TOOL

→ <https://cnes.fr/en/entreprises/catalogue-industrie-spatiale>

Number of companies per competency domain



Domains & Competencies

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

If your company is not referenced below → contact us at catalogue.industrie@cnes.fr

3D PLUS	AVANTIS	EUROSATCOM
3DCERAM	AXON CABLE	EUTELSAT
ABBIA GNSS TECHNOLOGIES	BERTIN ALPAO	EVERSAT
ABSOLUT SENSING	BERTIN TECHNOLOGIES	EXAIL
ABSOLUT SYSTEM	BLACKLEAF	EXAIL AEROSPACE
ACB - ATLANTEC	CAILABS	EXENS GROUP
ACB - CIBEL	CALLISTO	EXOTRAIL
ACRI ST	CAPGEMINI	EXPLEO
ACTIA AEROSPACE Dinard	CEDRAT TECHNOLOGIES	EXXELIA
ACTIA AEROSPACE Toulouse	CERFACS	FDC
AD INDUSTRIES - MS COMPOSITES	CES WORKS	FLEURET
ADDUP	CGI	FLUCTUS
ADVEOTEC	CILAS	FLYING WHALES
AFC-STAB	CIO SYSTEMES EMBARQUES	GAEL SYSTEMS
AGENIUM SPACE	CIRMA	GAMA
AGILINK MICROWIRES	CLEMESSY	GEO4I
AIKO	CLIX INDUSTRIES	GEOMATYS
AIRBUS DEFENCE AND SPACE	CLS	GISAÏA
AIRBUS PROTECT	CNIM SYSTEMES INDUSTRIELS	GMV INNOVATING SOLUTIONS
AKKA Technologies	COMAT	GRASP
ALATYR	COREDUX FRANCE	GREENERWAVE
ALCADIA ENTREPRISES	CORIOLIS	GROUPE ADF
ALDORANE	CREATIVE EUROCOM	GUIDE GNSS
ALDORIA	CS GROUP	HALCYON
ALLIANCE4U	CT INGENIERIE	HEATSELF
ALTEN	CYBERINFLIGHT	HEMERIA
ALTER TECHNOLOGY France	CYSEC FRANCE	HEMERIA AIRSHIP
AMCAD ENGINEERING	DACTEM INTERNATIONAL	HENSOLDT SPACE CONSULTING
AMETRA	DASSAULT AVIATION	HIONOS
ANYWAVES	DYCSYT	HOOKE ELECTRONICS
ARCSPACE	EASII IC	HOTBLOCK ON BOARD
AREELIS TECHNOLOGIES	EGIDE	HUMAN DESIGN GROUP
ARIA ELECTRONIQUE	ELEMCA	HYGEOS
ARIANEGROUP	ENVIRPROD - ARMELIO	INDEPENDENT LIVING BASE
ARIANESPACE	EREMS	INFINITE ORBITS
ARKANE	ERNEO	InMind-VR
ARMOR ARSENAL	E-SPACE	INSTITUT LAFAYETTE
ASB AEROSPATIALE BATTERIES	ESQS - APAVE	InterAC
ATEM	ESSP	INTRASPEC TECHNOLOGIES
ATMOSTAT	ETIENNE LACROIX TOUS ARTIFICES	ION-X
ATOS	EUROCONSULT	ISP SYSTEM
AUREA TECHNOLOGY	EUROPROPULSION	JFB SPACE CONSULTING

JVGROUP
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
NOVELTIS
NUMERISAT
OMEGA SYSTEMES (WEB INDUSTRIES)
ONEWEB SATELLITES
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
REAL DREAM
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
SOGELAIR 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
SYRLINKS
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
VENTANA
VIGNAL ARTRU INDUSTRIES
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		●				
ATMOSTAT		●				
ATOS	●		●	●		
AVANTIS	●			●		
BERTIN TECHNOLOGIES		●				
CAPGEMINI				●		
CES WORKS				●		
CGI	●		●	●		
CIRMA	●	●				
CLEMESSY	●		●			
COMAT	●	●				
COREDUX FRANCE		●				
CREATIVE EUROCOM		●				
CS GROUP	●	●	●	●		
CT INGENIERIE				●		
DACTEM INTERNATIONAL	●					
EREMS		●				
ERNEO		●				

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
E-SPACE	●	●	●	●	●	
ESSP			●			
EUTELSAT						●
EXAIL AEROSPACE			●			
EXOTRAIL	●					
EXPLO			●			
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				●		
NOVELTIS			●	●		
ONEWEB SATELLITES	●	●	●	●	●	
OPUS AEROSPACE				●		
PROMETHEE EARTH INTELLIGENCE						●
PYROALLIANCE		●				
PYTHEAS TECHNOLOGY		●				
RESA		●				
RTIME			●			
SAFRAN AIRCRAFT ENGINES	●	●				
SAFRAN ELEC & DEF		●				
SATCONSULT			●	●		
SCALAGENT D.T.			●			
SCALIAN	●					
SEGULA TECHNOLOGIES			●	●		
SODITECH				●		
SOGCLAIR AEROSPACE				●		

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
SOPEMEA	●					
SOPHIA ENGINEERING	●	●	●	●		
SOTEREM	●			●		
SPACEBEL	●		●	●		
SPACELOCKER			●	●		
SPHEREA	●					
STEEL ELECTRONIQUE		●				
SYMETRIE	●					
SYNTONY	●					
TELERAD			●			●
TELESPAZIO France				●		
TERNWAVES			●			
THALES ALENIA SPACE	●	●	●	●	●	
THALES SERVICES NUMERIQUES			●	●		
THALES SESO		●				
THE EXPLORATION COMPANY	●	●	●	●	●	
THERMOCOAX		●				
TRAD	●					
TRONICO	●	●				
U-SPACE				●	●	
VENTANA		●				
VIVERIS	●		●	●		
WATT&WELL		●				

Launchers	Capabilities							
	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		●						
ATMOSTAT				●				
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	●		●	●				

Launchers	Capabilities							
	Launch base development	Launcher equipment manufacturers	Launch base exploitation	Launcher engineering	Launcher prime contractors	Launcher test means	Launcher Propulsion	Launch services and operations
LATECOERE INTERCONNECTION SYSTEMS		●				●		
LATESYS	●	●	●	●		●		
LATITUDE		●		●	●	●	●	●
MAIASPACE	●	●	●	●	●	●		●
MECANO I.D.		●				●		
MEDYSYS				●				
MICROTEC						●		
NERYS						●		
NEXTER MUNITIONS		●						
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						●		
SOGECLAIR 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		●				●		

Launchers	Capabilities							
	Launch base development	Launcher equipment manufacturers	Launch base exploitation	Launcher engineering	Launcher prime contractors	launcher test means	Launcher Propulsion	Launch services and operations
VENTANA		●		●			●	
VIVERIS						●		
WATT&WELL		●				●		

Satellites	Payloads															
	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			●				●		●						●	●
ATMOSTAT		●								●				●		
ATOS										●						
AUREA TECHNOLOGY				●	●			●								
AVANTIS		●												●		
AXON CABLE									●							
BERTIN TECHNOLOGIES					●		●									
CAILABS					●		●									
CAPGEMINI					●											
CEDRAT TECHNOLOGIES				●	●											
CERFACS		●								●				●		
CGI										●			●		●	●
CILAS				●	●		●									
CIRMA	●							●		●	●					
CLS			●		●											
COMAT		●		●	●					●				●		

Satellites	Capabilities															
	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
COREDUX FRANCE										●						
CREATIVE EUROCOM	●			●	●					●		●				
CS GROUP						●				●						●
CT INGENIERIE	●	●	●							●				●		
DACTEM INTERNATIONAL	●									●	●					●
DASSAULT AVIATION	●															
DYCSYT												●				
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										●	●	●		●	●	●
JVGROUP														●		
KINEIS							●									
LATECOERE INTERCONNECTION SYSTEMS	●			●	●	●		●		●	●					
LATESYS		●												●		
LOFT ORBITAL		●					●	●	●	●		●	●	●		●
M3 SYSTEMS			●													
MAGELLIUM					●											
MAIASPACE									●							
MECANO I.D.		●		●	●		●							●		
MEDES			●													
MEDYSYS														●		
MELIAD														●		
MERSEN BOOSTEC				●	●		●									
METRAVIB ENGINEERING														●		

Satellites	Capabilities															
	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
MICROTEC											●					
NEVERHACK		●														
NEXVISION					●											
NIMESIS TECHNOLOGY														●		
NOVELTIS				●	●		●									
NUMERISAT							●									
OMEGA SYSTEMES (WEB INDUSTRIES)		●														
ONEWEB SATELLITES	●	●					●		●	●	●	●	●	●	●	●
PANGEA AEROSPACE										●						
PARSIMONI			●	●	●	●	●		●						●	
PCB PIEZOTRONICS														●		
PLANEXUS							●									
PYTHEAS TECHNOLOGY				●	●											
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				●	●											
SYRLINKS			●				●								●	●

Satellites	Capabilities															
	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
TECALEMIT AEROSPACE										●						
TECALEMIT TUBES		●								●				●		
TELEDYNE E2V				●	●	●			●				●			
TELESPAZIO France			●													
TEMISTH		●														
TERNWAVES			●				●	●								●
THALES ALENIA SPACE	●	●	●	●	●	●	●	●		●	●	●	●	●	●	●
THALES SERVICES NUMERIQUES			●	●	●	●	●		●			●				
THALES SESO			●		●		●									
THERMOCOAX		●			●					●	●					
THRUSTME										●		●				
TRONICO	●					●				●	●					
U-SPACE									●					●		
VENTANA	●									●				●		
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				●		
AGENIUM SPACE			●		●	
AIKO		●	●		●	
AIRBUS DEFENCE AND SPACE	●	●	●	●	●	●
AIRBUS PROTECT		●				
ALATYR					●	
ALLIANCE4U		●	●			
ALTEN		●			●	
AMETRA				●		
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		●			●	
EXPLEO				●		●
FDC	●					

Ground segments	Ground segments capabilities					
	Beacon, user terminal	Ground control center	Ground mission center	Ground segments equipment manufacturers	Orbital system operations	Ground station
FLEURET				●		●
FLYING WHALES			●			
GMV INNOVATING SOLUTIONS		●	●		●	●
GREENERWAVE	●					
HEMERIA					●	
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				●		●
SYRLINKS	●					
TECALEMIT AEROSPACE				●		
TECALEMIT TUBES				●		
TECHNIP ENERGIES				●		
TELERAD	●	●	●	●		●
TELESPAPIO France					●	
TERNWAVES	●					
THALES ALENIA SPACE	●	●	●	●	●	●

Ground segments							
		Beacon, user terminal	Ground control center	Ground mission center	Ground segments equipment manufacturers	Orbital system operations	Ground station
THALES SERVICES NUMERIQUES		●	●		●		
THALES SESO				●			
THRUSTME					●		
TIMELINK MICROSYSTEMS		●		●			
TRONICO	●			●			
VIVERIS	●	●	●	●			●

Balloons	Balloons 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			●
VENTANA			●
VIVERIS	●		●

Space Planes	Space plane capabilities						
	Space plane airframe 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	●	●	●	●	●	●	●
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		●				●	
VENTANA		●					
VIVERIS				●			
WATT&WELL		●					

Transversal Competencies	Competency Categories																													
	Aerothermodynamics	AV/AT Test means	Antennas	Quality Assurance (product assurance, safety)	Electromagnetic compatibility	Electronic components	Design ; 2D/3D visualization	Flight dynamics	Space environment of space systems	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, MLU, cryotechnics	Space data processing	Human spaceflights and experiments 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																														

Transversal Competencies	Specialized Competencies																												
	Aerothermodynamics	AV ALT Test means	Antennas	Quality Assurance (product assurance, safety)	Electromagnetic compatibility	Electronic components	Design ; 2D/3D visualization	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
ALLIANCE4U		●										●																	●
ALTEN	●	●	●	●			●		●	●		●	●	●	●				●		●				●			●	
ALTER TECHNOLOGY France						●		●		●									●										
AMCAD ENGINEERING						●				●									●										
AMETRA		●													●	●													
ANYWAVES			●																										
ARCSPACE		●										●		●	●	●					●								
AREELIS TECHNOLOGIES	●							●											●		●						●		
ARIA ELECTRONIQUE						●				●	●																		
ARIANEGROUP	●	●	●		●			●			●			●	●	●			●			●				●	●		
ARKANE		●								●									●										●
ARMOR ARSENAL		●																									●		
ASB AEROSPATIALE BATTERIES									●																				
ATEM															●				●										
ATMOSTAT															●	●													
ATOS		●					●					●	●						●			●						●	
AUREA TECHNOLOGY																					●				●				
AVANTIS			●	●								●			●	●					●								
AXON CABLE																●													
BERTIN ALPAO												●				●											●		
BERTIN TECHNOLOGIES		●										●			●	●					●								
BLACKLEAF													●	●												●			
CAILABS																			●										

Transversal Competencies	Competency Categories																													
	Aerothermodynamics	AV/AT Test means	Antennas	Quality Assurance (product assurance, safety)	Electromagnetic compatibility	Electronic components	Design ; 2D/3D visualization	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	Human spaceflights and experiments in microgravity		
CALLISTO																														
CAPGEMINI																														
CEDRAT TECHNOLOGIES																														
CERFACS																														
CGI																														
CILAS																														
CIRMA																														
CIO SYSTEMES EMBARQUES																														
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																														

Transversal Competencies	Competency Areas																													
	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, MLU, cryotechnics	Space data processing	Human spaceflights and experiments in microgravity		
EGIDE										●									●											
ELEMCA			●		●					●				●																
ENVIRPROD - ARMELIO	●				●									●				●												
EREMS										●																				
ERNEO									●																					
E-SPACE																									●					
ESQS - APAVE				●																										
ESSP				●									●												●		●			
ETIENNE LACROIX TOUS ARTIFICES														●		●	●													
EUROCONSULT																								●						
EUROSATCOM			●		●																			●						
EUTELSAT												●												●				●		
EVERSAT			●		●				●	●		●			●	●					●			●						
EXAIL AEROSPACE		●	●		●				●	●		●	●								●				●					
EXENS GROUP																														
EXOTRAIL		●		●				●	●		●	●	●	●	●													●		
EXPLEO		●	●	●	●	●				●		●			●															
EXXELIA										●																				
FDC												●	●								●				●		●		●	
FLEURET															●	●														
FLUCTUS																												●	●	
FLYING WHALES	●											●																		
GAEL SYSTEMS																												●		

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, MLI, cryotechnics	Space data processing	Signal processing	Human spaceflights and experiments in microgravity	
METRAVIB ENGINEERING																														
MICRONOR																														
MICROTEC																														
MIRATLAS																														
MOSS																														
MVG (SATIMO)																														
NANOXPLORE																														
NERYS																														
NEVERHACK																														
NEXIO																														
NEXTER MUNITIONS																														
NEXVISION																														
NICOMATIC																														
NIMESIS TECHNOLOGY																														
NOVELTIS																														
NUMERISAT																														
OMEGA SYSTEMES (WEB INDUSTRIES)																														
ONEWEB SATELLITES																														
OPUS AEROSPACE																														
ORBITAL VIEWS																														
PARSIMONI																														
PCB PIEZOTRONICS																														
PHOTONIS																														

Transversal Competencies	Competency Categories																												
	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	Human spaceflights and experiments in microgravity	
SECTOR																													
SEGULA TECHNOLOGIES	●	●	●	●								●			●	●											●		
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	●	●													●	●									●				

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, MLI, cryotechnics	Space data processing	Signal processing	Human spaceflights and experiments in microgravity	
STEEL ELECTRONIQUE										●																				
STIRWELD																														
STMICROELECTRONICS										●																				
SYLPHAERO	●	●						●												●										
SYMETRIE		●													●	●					●									
SYNTONY													●																	
SYRLINKS			●	●		●				●										●						●				
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								●						●																

Transversal Competencies	Competency Categories																													
	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	
THRUSTME																														
TIMELINK MICROSYSTEMS																														
TRAD																														
TRONICO																														
UNITED MONOLITHIC SEMICONDUCTORS (UMS)																														
VENTANA																														
VIGNAL ARTRU INDUSTRIES																														
VISHAY																														
VISIOTERRA																														
VIVERIS																														
WATT&WELL																														
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

	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		●		
PROCUREEZY	●			
PVA CONSEIL & DÉVELOPPEMENT			●	●
SATCONSEIL	●	●		●
SATCONSULT	●	●	●	●
SCIENTEAMA	●	●	●	
SEGULA TECHNOLOGIES	●	●		
SPACEDREAMS			●	
SPACELOCKER	●			
SYLPHAERO			●	