



INOVAÇÃO SEM LIMITES
NO BORDERS FOR INNOVATION

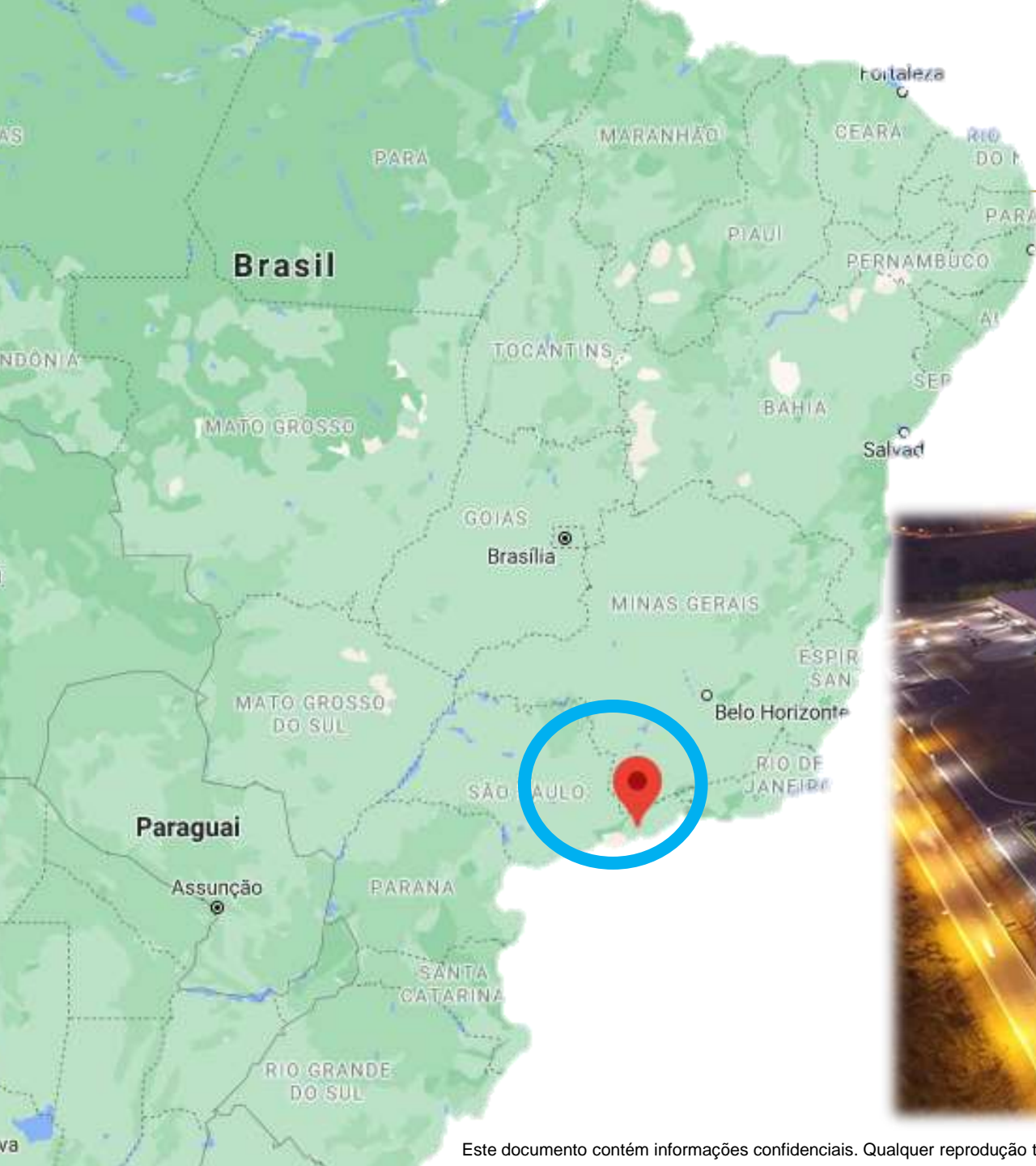


fDi Intelligence to the Financial Times

São José dos Campos metropolitan area is the 1st in Brazil and 3rd in the world to receive Aerospace investments



São José dos Campos TECHNOLOGY PARK



TOP FIVE AEROSPACE CITIES: FDI STRATEGY

RANK	CITY	COUNTRY
1	São José dos Campos	Brazil
2	Mississauga	Canada
3	Cincinnati	US
4	Chihuahua	Mexico
5	Singapore	Singapore

TOP 10 MID-SIZED AMERICAN CITIES OF THE FUTURE 2019/20 – COST EFFECTIVENESS

RANK	CITY	STATE	COUNTRY
1	San José	San José	Costa Rica
2	San Salvador	San Salvador	El Salvador
3	Jundiaí	São Paulo	Brazil
4	São José dos Campos	São Paulo	Brazil
5	Cancun	Quintana Roo	Mexico
6	Irapuato	Guanajuato	Mexico
7	Celaya	Guanajuato	Mexico
8	Reynosa	Tamaulipas	Mexico
9	Chihuahua	Chihuahua	Mexico
10	Saltillo	Coahuila	Mexico

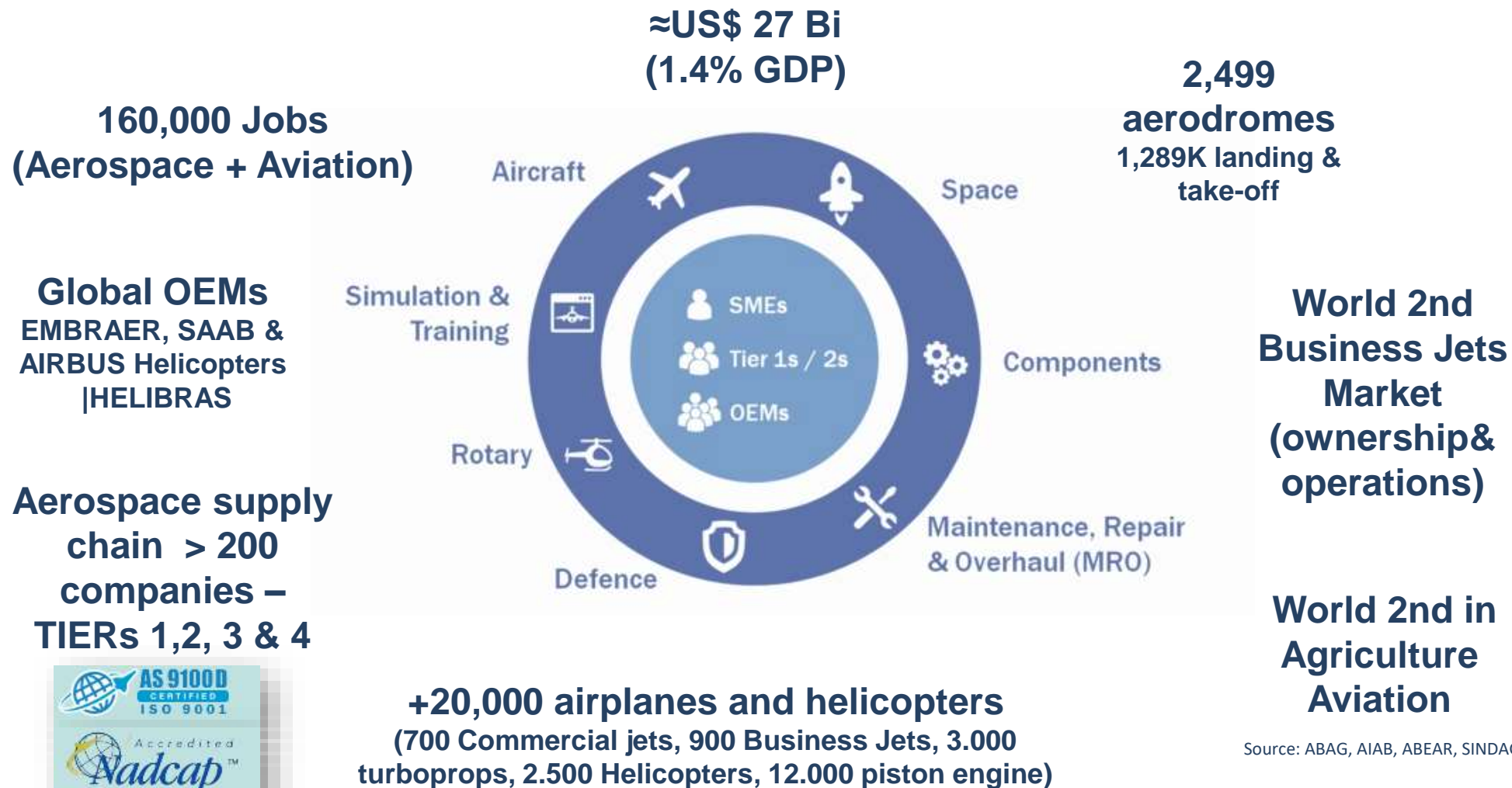
TOP FIVE AEROSPACE LOCATIONS: FDI STRATEGY

RANK	LOCATION	COUNTRY
1	Greater Montreal	Canada
2	Toulouse	France
3	São José dos Campos	Brazil
4	South West	UK
5	Mississauga	Canada

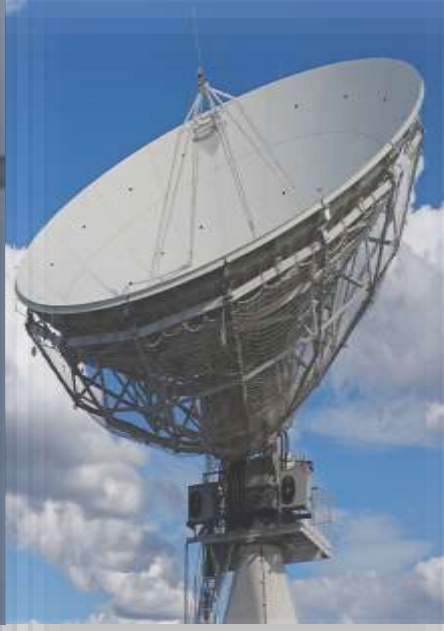
São José dos Campos Region Cutting-edge Innovation Ecosystem



Aerospace & Defense & Aviation – Brazilian Scenario



Source: ABAG, AIAB, ABEAR, SINDAG, ANAC



14 years

Started in 2006



**Aeronautics
Defense
Space**

Indústria/Manufatura de Partes e Segmentos Estruturais, Engenharias, Sistemas Especiais e Serviços Especializados



+ 100 associated companies



≈ 8k Direct Jobs

EXCEPT OEMs

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Associated Matrix of Technologies



**Advanced
Defense
Systems**



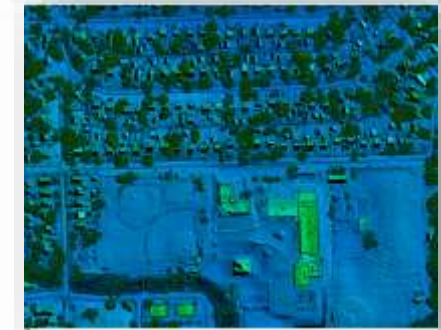
**Avionics &
Electronic
Systems**



**Flight
Simulators**



Surveillance



**Space
Upstream &
Downstream**



**Industry &
Manufacturing**



**Missiles and
Weapons**



**Navigation
Systems**



**Engineering,
R&D & Innovation**



Since 2018 the cluster office serves, oversees providing support with consulting, training and capacity for accreditation of 22 companies in many commodities.

According to P-R-I (accreditation agent) is quite innovative to perform a joint accreditation project in order to strengthen efforts and costs reduction.

Commodities Accredited

**Chemical Process/
Special Process
NDT
Composites
Sealing
Shot /Flap Peening
ASA (Aero Structure Assembly)**

MRO QUALIFICATION PROGRAM

Goal:

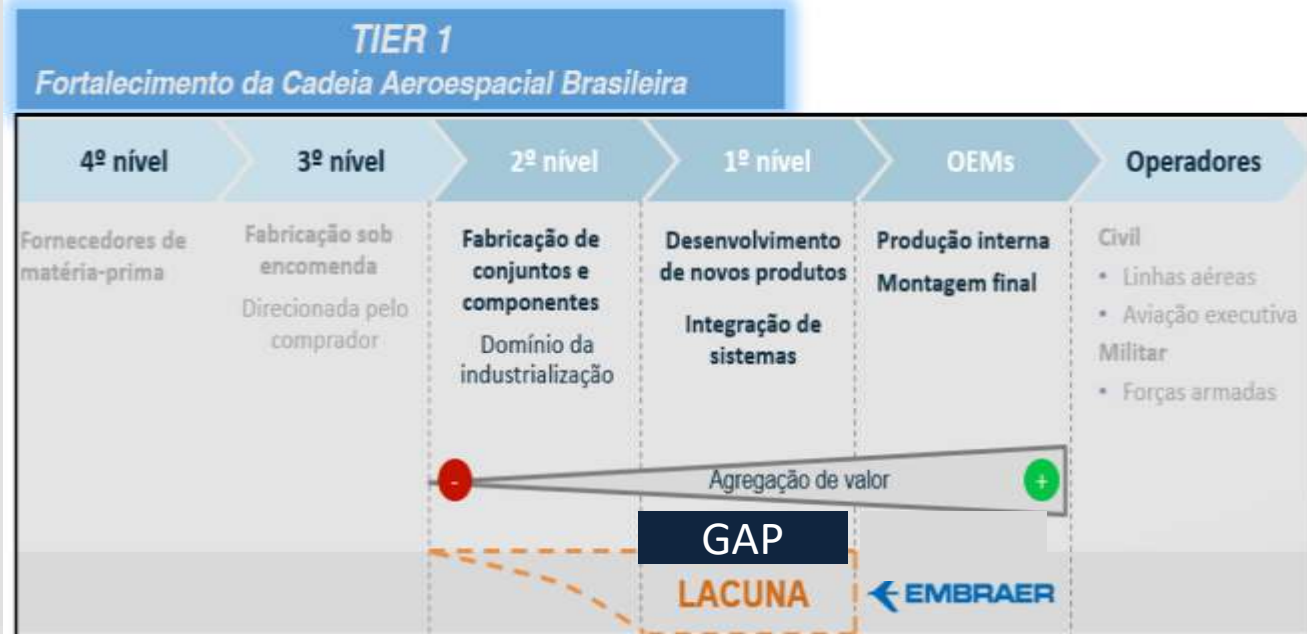
Diagnosis of the maturity degree of member companies interested in becoming certified “Aeronautical Maintenance Companies” according to current ANAC (National Civil Aviation Agency) regulations.



BRAZILIAN TIER 1 DEVELOPMENT

	Part Number	Percentual		Part Number	Percentual
			E-170/175	6.293	31%
Phenom 100	2.848	48%	E-190/195	6.770	30%
Phenom 300	4.656	51%	E2 - 175	11.116	35%
Legacy 650	8.167	46%	E2 - 190	11.049	36%
Practor 500	3.620	29%	E2 - 195	11.400	35%
Practor 600	3.893	43%	ALX	3.680	31%
Lineage	10.676	49%	KC-390	14.182	42%

FORTALECIMENTO DA CADEIA PRODUTIVA



ICT & AEROSPACE SUPERCLUSTER

Integration of the Aerospace Cluster with the local ICT Cluster to improve both **convenience to passengers** and **security measures**, and at the same time improve **on-time performance** in the most economical manner.

It is only with the strategic, widespread, intensive, and innovative use of ICT in **future airport** development policies and programs that the ambitious agenda of passenger convenience and airport security becomes much more possible to achieve.



Space Highlights Upstream

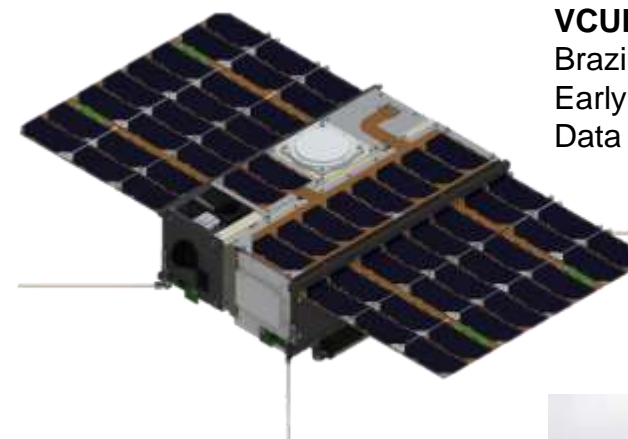


Amazonia 1

The first satellite completely designed and operated in Brazil

With the launch scheduled for Feb, 28th 2021, From India, Amazonia 1 is a Sun synchronous (polar) orbiting satellite that can generate images of any part of the world every 5 days. It had a development approach relied heavily on Brazilian space industry companies, most of them members of BAC-Brazilian Aerospace Cluster

EQUIPMENT / SUBSYSTEMS	HIRED COMPANY
Service Module (PMW)	
Service Module Structure	CENIC Engenharia Industrial e Comercio LTDA
Solar Generator	ORBITAL Engenharia
Propulsion	Fibraforte Engineering Industry Trade
Payload Module	
Payload Module Structure	CENIC Engenharia Industrial e Comercio LTDA
WFI camera	Equatorial / Opto Electronics
AWOT Band X Antenna	Omnisys Engenharia Ltda
Digital Data Recorder	Equatorial Systems
RTU	Omnisys Engenharia Ltda
DC / DC	AEL Systems



VCUB
Brazilian Nanosatellite for
Early Observation and
Data Collection



**SGDC – Geostationary Defense
and Strategic Communications
Satellite**

Space Highlights Downstream



Weather forecasting for plantation analysis & consumer behavior



Terrestrial and aerial mapping by image analysis



Geolocation for agribusiness & Smartcities



mapping, geolocation and remote sensing



Digital image processing, topography and geodesy



Geoprocessing and remote sensing



Geomarketing & Smartcity Analytics



remote forest and bioenergy sensing



Earth observation & Digital Elevation Models

