### DELIVERING TURNKEY SPACE SOLUTIONS

SGDC - GEOSTATIONARY SATELLITE DEFENSE AND STRATEGIC COMMUNICATIONS

Visiona was the prime contractor of the **SGDC Project**, being responsible for the program structuring, systems engineering, requirements definition, project management, procurement, system deployment and testing, to assure the compatibility of interfaces, system performance and adherence to the project cost and schedule baselines.

### PROGRAM GOALS

 Providing high-quality Internet services to 100% of the country territory as part of the National Broadband Plan.

 Provide sovereign and secure means for the Brazilian Government and Defense strategic communications.

 Acquire critical technologies for the Brazilian space industry, enabling the industry to take increasingly important roles in the future Brazilian space programs.

#### VISIONA TECNOLOGIA ESPACIAL S.A.

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Joint-venture



# The Brazilian space systems integrator

## VCUB BRAZILIAN NANOSATELLITE FOR EARTH OBSERVATION AND DATA COLLECTION

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### VCUB BRAZILIAN NANOSATELLITE FOR EARTH OBSERVATION AND DATA COLLECTION

VCUB is the first satellite designed by the Brazilian private industry and will demonstrate Visiona's capability of developing high performance space systems. Although it is a ten-kilogram nanosatellite, VCUB has a sophisticated architecture and uses last generation equipment.

A high spatial resolution camera assembled in the satellite will be responsible for taking images with radiometric and geometric qualities better than currently provided by other same class commercial satellites, which is very important for agricultural and environmental protection applications.

In addition, VCUB will handle a UHF data collection system based on radio defined software technology. At first, this system will be used in hydrological and meteorological data collection applications. However, it also has the capability of being updated in orbit in order to deliver IoT solutions.

Finally, this satellite will validate in flight both on-board softwares developed by Visiona: the Attitude and Orbit Control System (AOCS) and the On-board Data Handling (OBDH), main satellite managing systems. It will allow validation of these technologies for future use in more complex and expensive missions.

**EMBRAPII** 

Design and construction

VISIONA Tecnologia Espacial

#### Partnerships



EMDTADA O BRASIL - CPRM SÃO JOSÉ DOS CAMPOS //CA SO CAEB ANTO ANTURATINS BR TRANSPETRO

USIONA





# The Brazilian space systems integrator

 Strategic Defense company focused exclusively on Integration Space Systems.

 Strategic Defense company focused exclusively on Integration Space Systems.

A leading company in orbital remote sensing services with the largest and most complete constellation of high performance satellites in Latin America.

 Integrator of the program of the Geostationary Satellite
Defense and Strategic
Communications (SGDC).

• The main technicians team of space engineering in Brazil.

 Supply of high performance satellite communications services.

 Developer of VCUB, the first satellite conceived by the national industry.