

**THE CHEETAH-1 COMMERCIAL SATELLITE LAUNCH VEHICLE
PROGRAM”
DEVELOPMENT PROGRESS OF AFRICA'S FIRST COMMERCIAL LAUNCH
VEHICLE**

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MARCOM Aeronautics & Space (Pty) Limited

MARCOM Aeronautics & Space ("MARCOM") is a high technology South African company developing reliable, cost effective aerospace technologies for the international space industry. MARCOM is currently focusing its expertise on the development of a two stage, liquid fuelled, expendable, commercial satellite launch vehicle named the CHEETAH-1 CSLV, capable of delivering a 1000kg payload into Low Earth Orbit. MARCOM's primary objective is to substantially reduce the cost of delivering payloads to orbit and to provide invaluable space transportation services for the African continent and the global space industry in the 21st century. MARCOM is seeking to provide launch services for existing and developing satellite markets which to- date, have been curbed by the high cost of space transportation. Approximately 26 countries are in the process of establishing their own "Space Agencies". This growth in space activity is driven by the strategic and economic benefits of space based applications and continued growth is expected in the forthcoming decades. Accordingly, MARCOM is positioning itself to become a forerunner in this industry and envisages dramatically boosting space launch services, empowering and enabling governments and companies alike to invest in and develop new and existing satellite applications which ultimately generate revenue and benefit mankind here on Earth.

MARCOM seeks to manufacture more than 95% of the CHEETAH-1 CSLV in South Africa with many of the major subsystems procured from specialised sub-contracting firms. MARCOM will implement a three year, three tier development program consisting of 1) the development and testing of a prototype, liquid fuelled, rocket engine to establish technical viability 2) the development of a significantly larger booster engine in addition to avionics and fuselage systems and 3) completion of a prototype flight vehicle, launch pad testing and first flight of the prototype vehicle.

(Presentation includes 10 minute, 6 degree of freedom, launch simulation of satellite to Low-Earth orbit)