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Spacety boosts the satellite industry by launching the world's first C-band commercial Smallsat SAR together with a Cubesat

Luxembourg/Beijing, 22nd December 2020 – Spacety announces a new space launch, merely 6 weeks after the previous launch. At 12:37 PM today, two of Spacety's satellites, Hisea-1 and Yuanguang, were successfully launched into space on the inaugural flight of the medium-lift Long March 8 (LZ-8) rocket, from Wenchang, China. Hisea-1 is Spacety's first commercial Synthetic Aperture Radar (SAR) satellite, which is also the world's first commercial C-band small satellite SAR with a phased-array antenna. Yuanguang is a 12U satellite for scientific experiments of mechanism and tribology in space.

Imagine being able to reconstruct landscapes or cities with an almost instant refresh rate, on sunny or rainy days as well as nights. Defense and intelligence could come immediately into mind, but the commercial uses for such information are tremendous. Hisea-1 was launched to meet the needs for monitoring ocean and coastal areas and for ocean research. The imagery from the satellite will also be used for disaster management, agriculture, infrastructure monitoring and so on.

Synthetic Aperture Radars (SAR) are basically like a bat - not affected by daylight and weather conditions compared to optical sensors. Now the era of SAR satellites has arrived, and Spacety is planning to build, launch and operate a constellation of 56 small SAR satellites. *"Hisea-1 is the first launched satellite of TY-MINISAR, the first generation of light and small SAR satellites being developed by Spacety. The constellation based on TY-MINISAR benefits from low cost, fast deployment, strong coverage capability with a high revisit frequency, and flexible scheduling. As a result, the constellation can produce images of high resolution, wide-coverage, and continuous monitoring, and will provide customers with more efficient remote sensing services",* says Justin Feng, the founder and CEO of Spacety. Hisea-1 has a mass of 185 kg, and uses phased-array antenna. It has three imaging modes with the finest resolution of 1m x 1m.

On board is ThrustMe's Iodine Electric Propulsion system, which provides the satellite with crucial orbit maintenance, collision avoidance and de-orbiting at the end of its three year expected lifetime, thus ensuring an economical solution for the environmental sustainability of satellite constellations and the space industry. Spacety is very conscious of space sustainability issues, and already has active de-orbiting devices on its satellites, including these two just launched.

Still a young new space company, Spacety has already launched 21 satellites with 12 launches in less than 5 years. More satellites are expected to go to space in 2021 for the SAR constellation and also to provide IOD/IOV and satellite hosting services to clients.

About Spacety

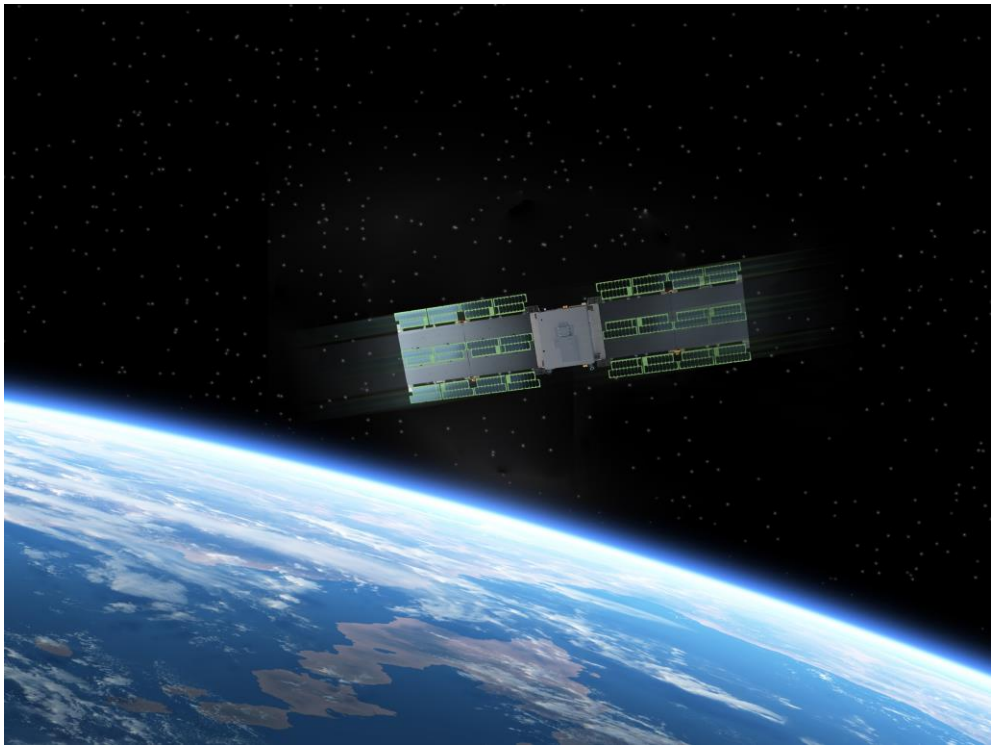
Spacety is a fast- growing new space company providing satellite-based services globally. It was founded by its CEO, Justin Feng, and its CTO, Ren Weijia in China in 2016. It established its international headquarters in Luxembourg in 2019. A world leader in cubesats and smallsats, it has developed, launched, and operated 20 satellites for science and technology demonstration missions.

As a leading provider of satellite-based services, it provides fast, frequent, flexible, and low-cost space missions with its advanced and reliable small satellite fleet. These space missions support science experiments or observation, and in-orbit demonstrations and/or validations of space technologies and products, or space systems. Those quick turnaround and end-to-end services have enabled world class space research and helped innovative space technologies to gain space heritage. Spacety is building and deploying a microwave-based (Synthetic Aperture Radar) satellite Earth Observation constellation to provide the world with global coverage and real-time imagery data as a service (DaaS). This C-band SAR constellation will monitor and observe the Earth, day and night, rain or shine, and make SAR imagery of every point on Earth accessible and affordable to users. The SAR data will be distributed worldwide and will enable innovative solutions to manage our changing world and make it better.

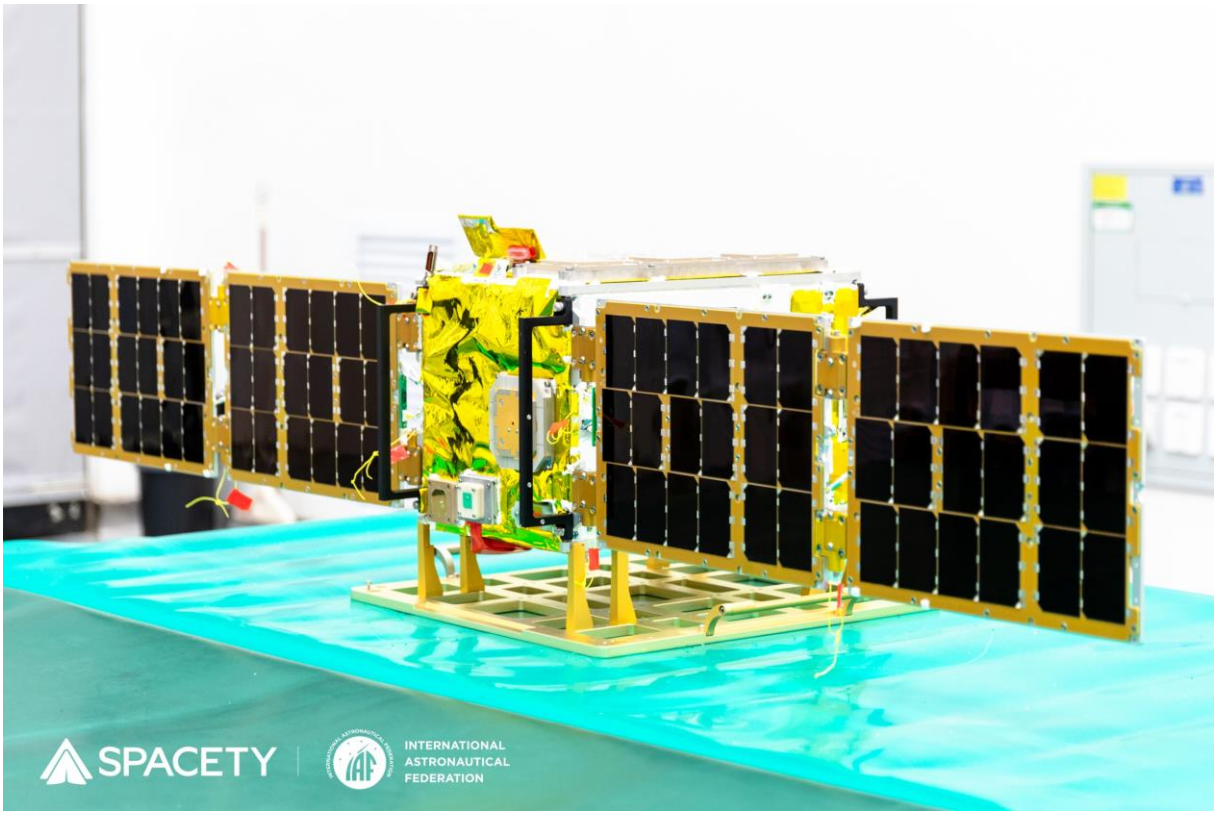
http://www.spacety.com/

High resolution photos and interview can be provided upon request to:
info@spacety.eu

(photo of SAR satellite)



(photo of Yuanguang Satellite)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