



Rocket Carrying SMOG-1 Was Launched Successfully

On the 22nd of March, 2021, at local time **7:07:12**, from launcher No.6 of site No. 31 (Vostok) of the Baikonur cosmodrome, the Soyuz-2.1a launch vehicle with the Fregat upper stage, was successfully launched. The rocket is carrying the hungarian **SMOG-1** nanosatellite, the 4th satellite of Hungary. The main load is the South-Korean CAS500-1 spacecraft and a cluster of 37 associated payloads from 18 countries of the world will be also put into several orbits.

According to plans, SMOG-1 will be put into a 498 km sun-synchronous orbit by 32kg italian Unisat-7 satellite, on the 23rd of March, with the help of an automatic pod, together with five toher small satellites. As there are three target orbits, and the launch and detachment processes are multiple-stage, to provide information about the first signals of the **SMOG-1** are expected in the middle of the week.

The developer team is excited and waiting for the successful orbiting process, as well as the security time-delayed switch-ons of the satellites. Besides the SMOG team, the singals of the fourth hungarian satellite is awaited by not only the primary satellite ground control staion at BME (Budapest), but a numerous radio amateurs wordwide. The callsign of SMOG-1 Pocket-Qube is HA5BME.

The 1-PocketQube (5x5x5cm) size **SMOG-1** was entirely designed, developed and realized by a team of students under the supervivion of university lecturers of the Budapest University of Technology and Economics (BME). The whole project was part of the academic programme and was funded by several sponsors. The development was integrated at the Department of Broadband Infocommunications and Electromagnetic Theory of the Faculty of Electrical Engineering and Informatics, in cooperation with the Faculty of Mechanical Engineering and external experts as well. Launch costs were covered by the Faculty of Electrical Engineering and Informatics and the Ministry of Foreign Affairs and Trade.

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Press materials (indicating the source):

Video by Roscosmos about the launch: <https://www.youtube.com/watch?v=7wb12TG-K2Y>

Video by GKLaunch about the launch: https://www.youtube.com/watch?v=J1nfIV-4_e8

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Roszkozmosz/GKLaunch kép

Webpage of **SMOG** nanosatellites: <https://gnd.bme.hu/smog1>, <https://gnd.bme.hu>.

Further materials: <http://152.66.80.46/smog1>