Työ- ja elinkeinoministeriö
Arbets- och näringsministeriet

Ministry of Economic Affairs
and Employment of Finland

Avaruusesineiden rekisteri / Register över rymdföremål / Registry of Space Objects

Avaruusesine / Rymdobject / Space Object	**Aalto 1**	**ICEYE-X1**	**Reaktor Hello World**	**ICEYE-X2**	**Suomi100**	**ICEYE-X4**	**ICEYE-X5**	**ICEYE-X6**	**ICEYE-X7**
Toiminnanharjoittaja / Verksamhetsutövaren / Operator	Aalto yliopisto / Aalto University	Iceye Oy	Reaktor Space Lab/ Reaktor Radio Actives	Iceye Oy	Aalto yliopisto / Aalto University	Iceye Oy	Iceye Oy	Iceye Oy	Iceye Oy
Lähettäjävaltio (t) / Utsändande stat (er) / Launching State (s)	Suomi / Finland, Intia / India	Suomi / Finland, Intia / India	Suomi / Finland, Intia / India	Suomi / Finland, Yhdysvallat / USA	Suomi / Finland, Yhdysvallat / USA	Suomi / Finland, Venäjä /Russia	Suomi / Finland, Venäjä / Russia	Suomi / Finland, Venäjä / Russia	Suomi / Finland, Venäjä / Russia
Kansallinen rekisterinumero / National Registernummer / National Registration number	FIN-1-SAT-2017	FIN-2-SAT-2018	FIN-3-SAT-2018	FIN-4-SAT-2018	FIN-5-SAT-2018	FIN-6-SAT-2019	FIN-7-SAT-2019	FIN-8-SAT-2020	FIN-9-SAT-2020
Tunniste / Beteckning / Designator	NSSDCA/COSPAR ID: 2017-036L; NORAD Catalog Number: 42775	COSPAR ID: 2018-004D	COSPAR: 18096AA	COSPAR: 2018-099AU	COSPAR: 2018-099-9905	COSPAR: 2019-038D	COSPAR: 2019-038C	NSSDCA/COSPAR ID: 2020-068M NORAD ID: 46497	NSSDCA/COSPAR ID: 2020-068L NORAD ID: 46496
Avaruusesineen yleinen tarkoitus / Rymdföremålets allmänna syfte / General Function of the Space Object	Aalto-1 is an educational satellite project with mission goal in technology demonstration of three payloads; demonstration of miniature hyperspectral Earth Observation camera; demonstration of miniature radiation monitoring instrument; demonstration of electrostatic deorbiting device.	Experimental satellite, carrying a synthetic aperture radar. Data will be provided commercially.	2U CubeSat designed for peaceful demonstration purposes.	Experimental satellite, carrying a synthetic aperture radar. Data will be provided commercially.	Space weather and ionosphere research.	Experimental satellite, carrying a synthetic aperture radar. Data will be provided commercially.	Experimental satellite, carrying a synthetic aperture radar. Data will be provided commercially.	Experimental satellite, carrying a synthetic aperture radar. Data will be provided commercially.	Experimental satellite, carrying a synthetic aperture radar. Data will be provided commercially.
Laukaisuaika / Tidpunkt för utsändande / Time of launch	23.6.2017	12.1.2018, 03:59 UTC	29.11.2018, 04:27:30 UTC	3.12.2018, 18:34:11 UTC	3.12.2018, 18:34 UTC	5.7.2019, 05:41:46 UTC	5.7.2019, 05:41:46 UTC	28.9.2020 11:20:32 UTC	28.9.2020 11:20:32 UTC
Laukaisupaikka / Plats för utsändande / Place of Launch	Satish Dhawan Space Centre, Sriharikota, India	Satish Dhawan Space Centre, Sriharikota, India	Sriharikota, India	Vandenberg AFB, USA	Vandenberg AFB/ Western Test Range, USA	Vostochny Cosmodrome, Russia	Vostochny Cosmodrome, Russia	Plesetsk Cosmodrome, Russia	Plesetsk Cosmodrome, Russia

Avaruusesine / Rymdobject / Space Object	**Aalto 1**	**ICEYE-X1**	**Reaktor Hello World**	**ICEYE-X2**	**Suomi100**	**ICEYE-X4**	**ICEYE-X5**	**ICEYE-X6**	**ICEYE-X7**
Laukaisuväline / Uppsändningsanläggning / Launch Vehicle	ISRO PSLV-XL	PSLV-XL C40	ISRO/Antrix PSLV	Falcon 9 v1.2b5 65	Falcon 9	Soyuz-2-1b Fregat-M 1901	Soyuz-2-1b Fregat-M 1901	Soyuz-2-1b Fregat-M	Soyuz-2-1b Fregat-M
Kiertoaika / Omloppstid / Nodal Period	94.71 min	95 min	94.35 min	96 min	96.40 min	96 min	96 min	95.75 min	95.75 min
Kaltevuuskulma / Banplanets lutning / Inclination	97.45°	97.56°	97.5°	97.7°	97.86°	97.68°	97.68°	97.6°	97.6°
Etäpiste / Apogeum / Apogee	513 km	511 km	499 km	600 km	609 km	600 km	600 km	565.09 km	565.09 km
Lähipiste / Perigeum / Perigee	503 km	499 km	476 km	580 km	577 km	580 km	580 km	565.09 km	565.09 km

26/11/2020