



TsSKB-Progress State Research and Production Space Center



TsSKB-Progress main spheres of activity



Airship, bicycles, motor vehicles, snowplanes.

Aircraft:

«Farman IV», 11863 low-flying attack aircraft of IL-2 type, jet aircraft of MiG-9 and MiG-15 type, heavy bomber of IL-28 type, Tu-16 and the other types of aircraft.

Launch vehicles:

Since 1958, 1800 launch vehicles have been produced and launched by the launcher producer in Kuibyshev (Samara), among which there were 9 modifications of legendary Semerka launcher designed by OKB-1 №3 Kuibyshev branch, later renamed TsSKB.



Launchers of Soyuz family are designed and produced at TsSKB-Progress

Soyuz-U



Soyuz-FG



Soyuz-2-1a



Soyuz-2-1



Soyuz-ST



Soyuz-2-1v

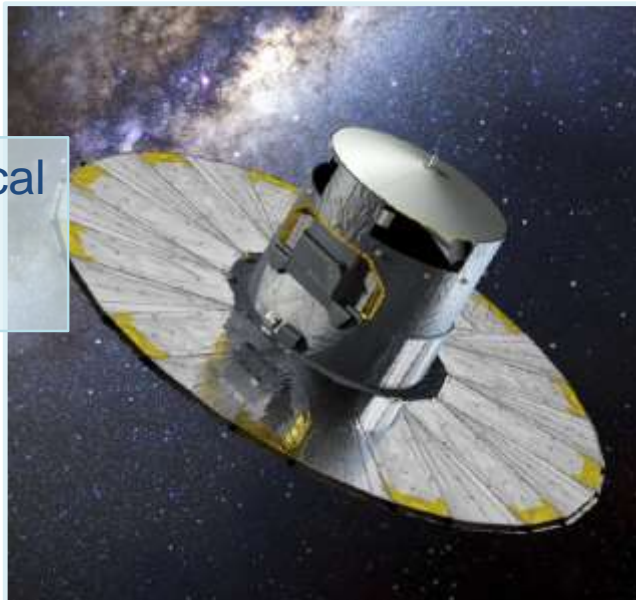


1815 launchers had been launched by 15.02.2014

Launch services

More than **90** launches of spacecraft were performed since **1999** under the agreement with foreign customers.

The launch of «**Gaia**» optical telescope (ESA) were performed in **2013**.



Launches of Soyuz are planned to be performed from 4 cosmodromes since 2015

Guiana Space Center



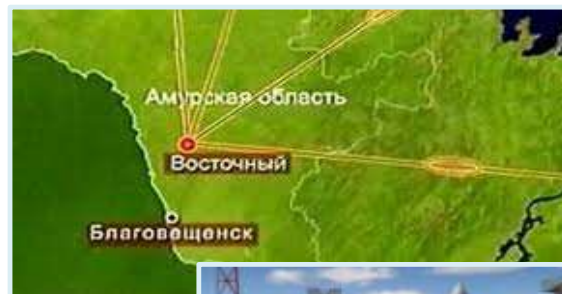
Soyuz-ST is a modification of Soyuz-2 updated and customized according to:

- European safety requirements;
- Telemetry system;
- Operational condition.

It is planned to perform **50** launches from the Launching Facility during 15 years.



Soyuz-2 Launching Facility in Vostochny cosmodrome (the first launch is planned for 2015)



Spacecraft of TsSKB-Progress production: Resurs-P spacecraft



- hardware meant for production of highly detailed, wide-screen and hyper spectral images;
- great number of narrow spectral ranges;
- high periodicity in observation;
- increased orbital life period.

Launch of **Resurs-P** was performed in **2013**, and now the spacecraft is operated in the interests of the customer.

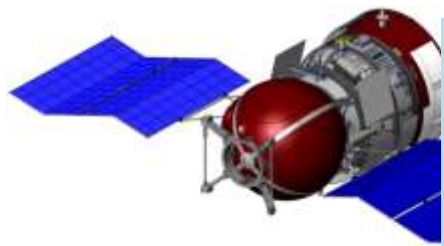


Vatican Italy

Observation in
panchromatic range

Research spacecraft

Foton-M spacecraft

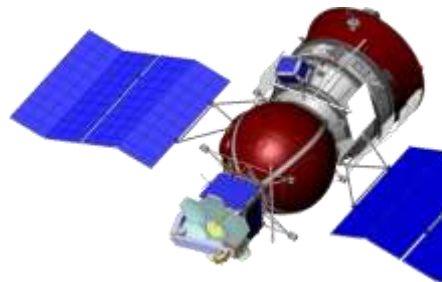


Function: experiments in space technology and biotechnology

Launch of **Foton-M №4** is planned for **2014**.

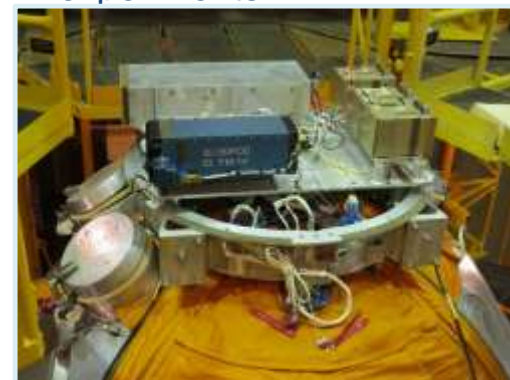


Bion-M spacecraft



Bion spacecraft is meant for research in the field of space biology and medicine as well as for radiophysical and radiobiological experiments.

Launch of **Bion-M № 1** was performed in **2013**. **Aist** spacecraft and five foreign small satellites of **CubeSat** type were used as a piggyback payload.



Totally **12** spacecraft of **Bion** type and **15** spacecraft of **Foton** type have been launched.

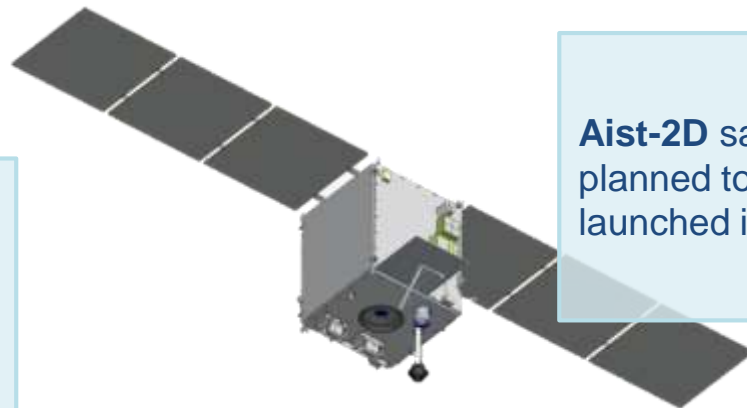
Aist-1 satellite



Aist-1 №1, №2
satellites were
launched in
2013

Function: study of ionosphere influence on radio signals received from small satellite with participation of Samara universities students

Aist-2D satellite



Aist-2D satellite is
planned to be
launched in **2015**

Function: technique applying, usage of target hardware and ground station, receiving and processing Earth observation data in optical and radar bands, applying technology of online tracking for scientific experiments in space with the help of communication satellites and Internet.

Obzor-R spacecraft



Spacecraft with radar hardware of X-ranges with high performance characteristics

Launch of **Obzor-R** spacecraft is planned for **2015**



Light twin-engine
turboprop airplane



Medical goods



River and sea-going
motor boats