

Aspire spaceport

International spaceport Baikonur



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Idea of project

Organization of an international space center, providing an access for launch service operators to launch sites and ground-based space infrastructure

Goals of project

Granting all UN members free access to space, using it only and exclusively for civilian purposes

Legal basis

Constitutional law of the Republic of Kazakhstan "About the International Cosmoport Baikonur", British law, international agreements

Resources

Technologies and assets of the Baikonur space launch site not involved in the Russian Space Program

Launch site 90

- Founded at 1967.
- Used as launch position for satellite interceptor "IS".
- Military equipment disengaged and disarmed at 2006.
- Since 2016 transferred under control of KazCosmos (Kazakhstan Space Agency).
- Equipped with wide range of ground infrastructure.
- Provides good logistics for air and ground vehicles, including wide-gauge railway line.
- Big workshops applicable for LOX production and for launch vehicle assembly available.
- Protected (military grade) fuel storages nearby.



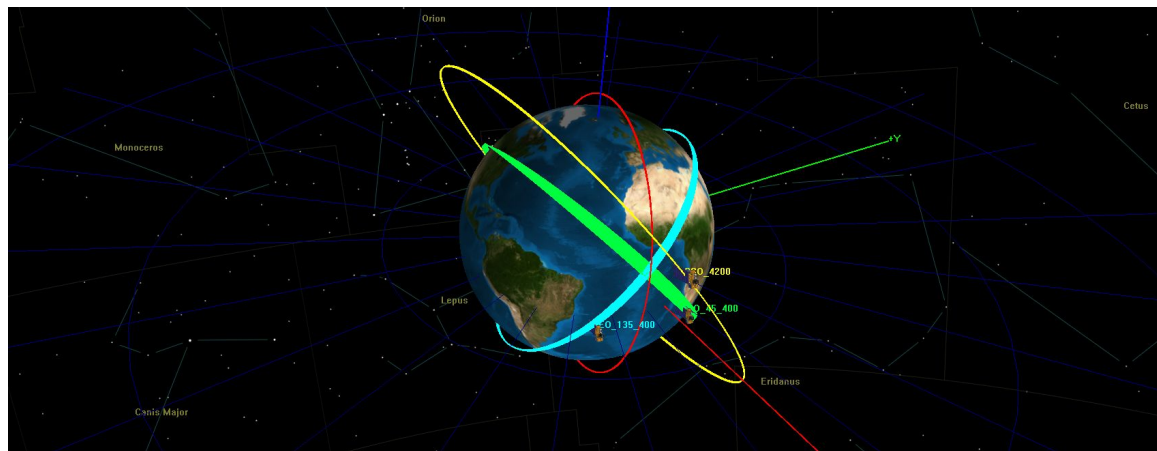
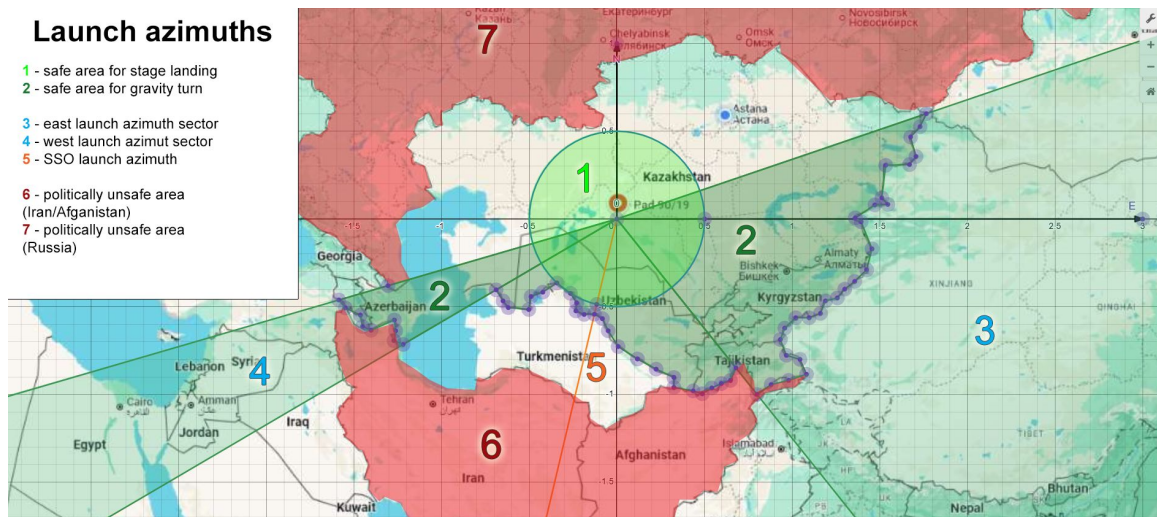
"Cyclone-2" rocket on Launch site 90

Specifications

- Actual position: **46.08° N, 62.93° E**
- Radius of safe area for landing returnable stages - circle of 500 km radius.
- Available inclinations:
 - 46° - 73° through east launch azimuth sector
 - 123° - 131° through west launch azimuth sector
 - 97° through SSO launch azimuth sector
- Valuable orbits reachable:
 - 430 km ISS
 - 566 km SSO
 - 4200 km SSO
 - Reversed (westward) orbits

Launch azimuths

- 1 - safe area for stage landing
- 2 - safe area for gravity turn
- 3 - east launch azimuth sector
- 4 - west launch azimuth sector
- 5 - SSO launch azimuth
- 6 - politically unsafe area (Iran/Afghanistan)
- 7 - politically unsafe area (Russia)



Partners and relationships



SpaceLab LLC

Startup company providing innovative solutions for industrial technologies, from additive installations to satellite constellation development



Ghalam LLP

Ghalam LLP is a leader in the space industry of Kazakhstan, specializing in the development and production of spacecraft.



KGS Space Technologies

The National Space Agency of Kazakhstan, which provides all space activities of the Republic.



Uzbekspace

The National Space Agency of Uzbekistan. Uzbekspace planning to use Aspire spaceport as a launching site for their national space program.



Aspire Space

Aspire is private space company, developing the next-generation European space transportation system.



ESA

The European Space Agency (ESA) is a national space agency of European Union, Europe's gateway to space.

Opportunities

Close international cooperation

Combining the minds and efforts of the best experts in one place without barriers creates conditions for the rapid growth of the most innovative projects.

Service integration

Focusing all services in one place allows to reduce costs of development, production and usage of launch site and space infrastructure.

Unique geospatial position

The unique geographical location and developed logistics create opportunities for reaching and developing new and yet unexplored economically important zones in space.

Space business and technology hub

Spaceport builds advanced private space community around it, where sharing of technologies, solutions and mindset creates a soil for development of space business.