

Space is the Future of Mankind

PROJECT
Sea Launch Complex
«S&Space»



“SCIENCE & SPACE” LLC
Kyiv-Dnipro
2020

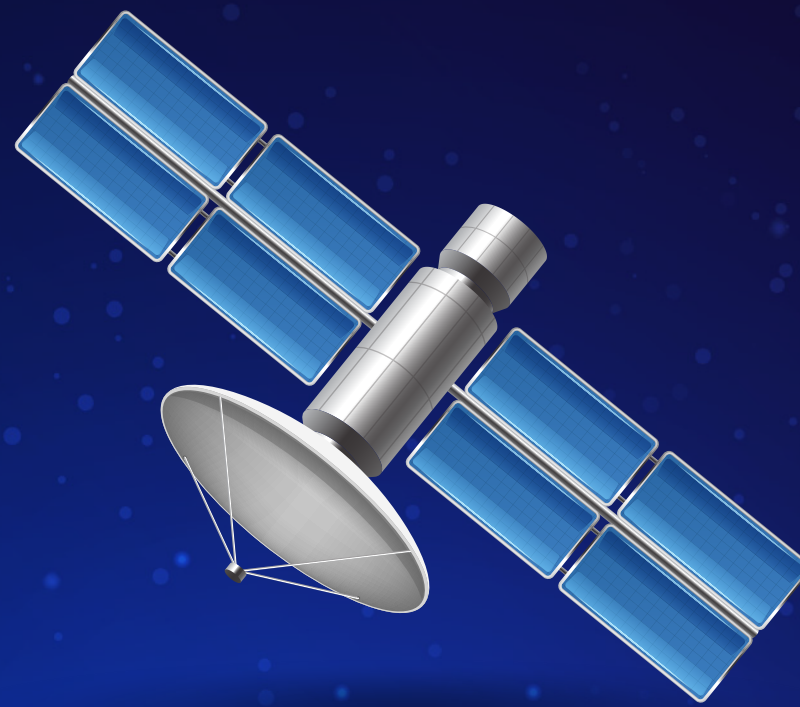
WHY CREATE LIGHT-CLASS CARRIER ROCKETS?

The launch of satellites is one of the few business sectors where demand is significantly higher than companies' possibilities

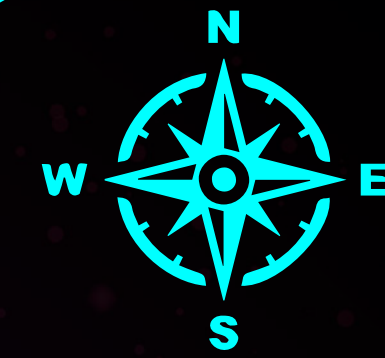
Small space companies are flexible for customers

The need to launch satellites is scaling exponentially

They take into account design features of satellites



PROJECT DESCRIPTION



Launch pad:
international
waters

The dramatic
advancement in the
launch of a payload
into orbit

Launch of the
carrier rocket will
be conducted from
the offshore
platform with a
displacement of
10 000 tons

Pre-launch
preparatory
operations will be
carried out in the base
station, launch
operations – on the
launch pad



SCHEME OF THE OFFSHORE PLATFORM



TECHNICAL SPECIFICATIONS OF THE CARRIER ROCKET



Number of stages - 2

- Diameter - 2,4 m
- Length - 26 m

Number of engines (first stage):

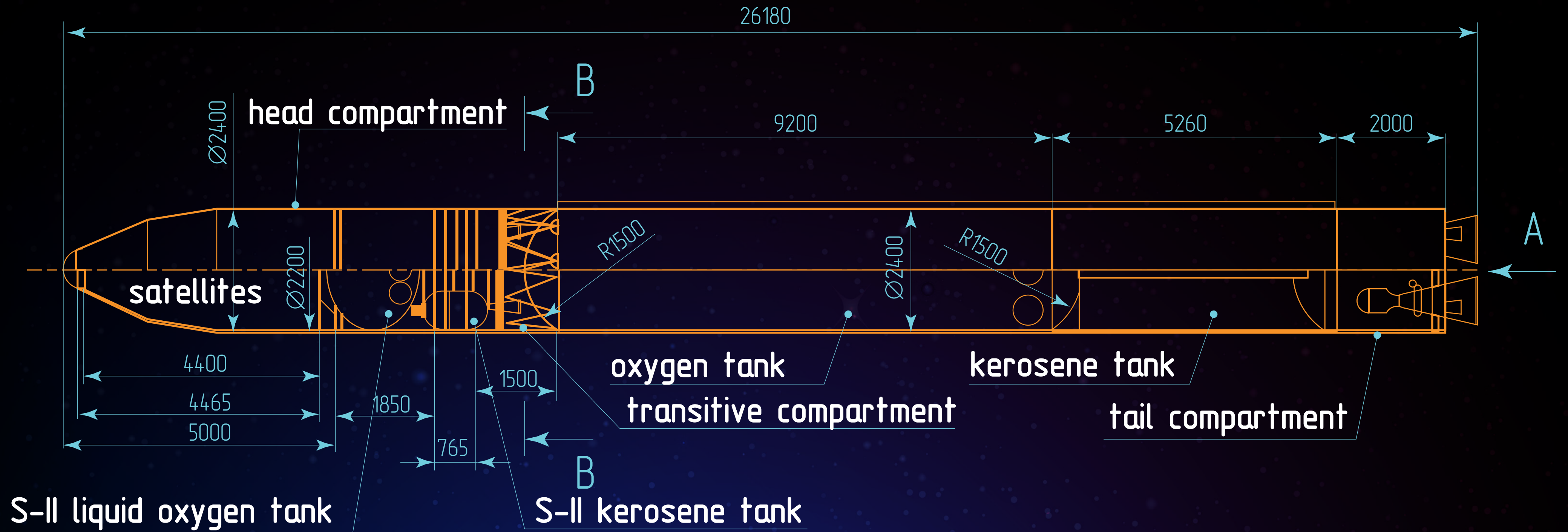
- Single-chamber main engine - 2 units;
- Four-chamber autonomous steering engine- 4 units.

Number of engines (second stage):

- Four-chamber autonomous steering engine - 4 units.

Launch pad- offshore launching platform.

SCHEME OF THE CARRIER ROCKET



B-B (1:100)



S-II steering engine 11D513 - 4 units

A (1:100)



main engine 11D561- 2 units

S-I steering engine 11D513 - 4 units

ADVANTAGES OF THE PROJECT

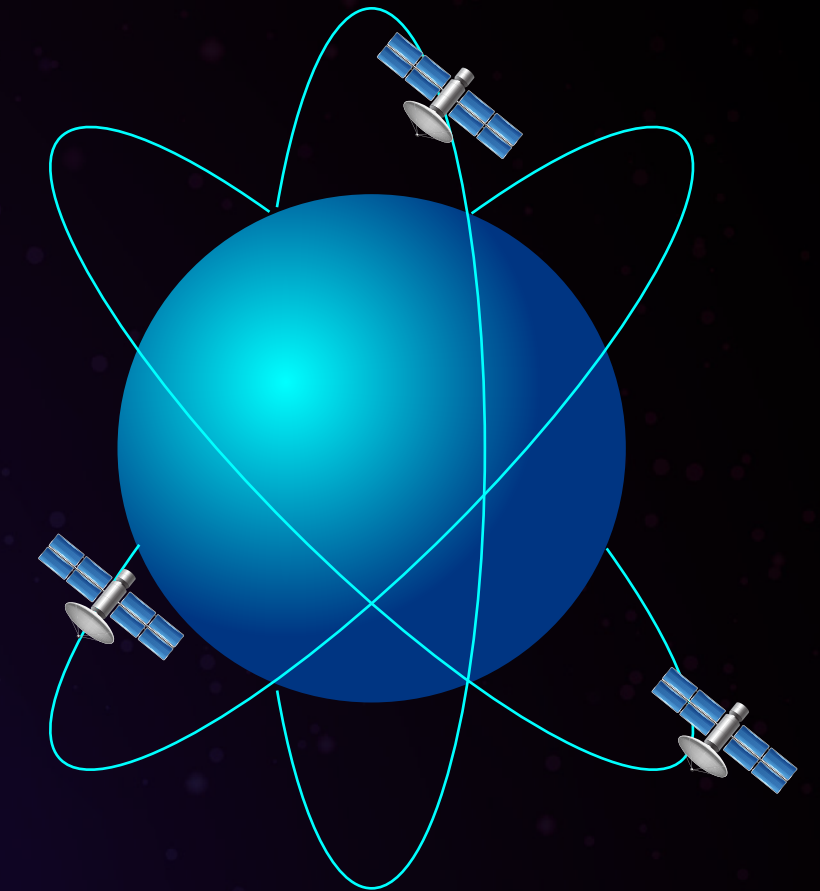
X15



Launch of up to
15 satellites weighing
up to 700 kg in a
sun-synchronous
orbit



Competitive price of
launching 1 kilogram of
payload among potential
competitors



Flexibility necessary to
reach any orbit-inclination

FINANCIAL BENEFITS OF THE PROJECT AMONG THE COMPETITORS



Company	Carrier rocket	Payload kg	Cost of one launch \$ mln	Launch cost of a payload (per kg) \$	State flag
Rocket Lab	Rocket Lab	225	5	22 222	USA
Firefly Aerospace	Firefly Alpha	400	9	22 500	USA
Science&Space	S&Space	700	15	21 430	Ukraine

COST ESTIMATE AND TIMETABLE

Term of creation of
the complex:
3-4 years

Investment
needed to create,
design, test and
produce the first
spacecraft is
\$ 60 million

Cost
estimate for the
launch vehicle
production
is **\$ 11 million**

**Additional one-time costs
is \$ 60 million:**
the system of lifting mechanisms; the
ground infrastructure for space
information management; production
of the offshore platform

PROTECTION OF INVESTOR RIGHTS



Investors are entitled to own and exercise the rights, subject to the limitations of the Missile Technology Control Regime



In the same proportions, the ownership of the tangible property of the constructed complex and carrier rockets will belong to investors



All individual intellectual property rights to "Science & Space" Company and its individual components will belong to investors in the proportions of shares invested in the project

RETURN ON INVESTMENT



The cost of launching one carrier rocket is \$ 11 million



The total price of the launch for customers is \$ 15 million



This will enable the investors to recover capital within 30 successful launches (less than two years). In the first year, it is planned to launch 12 carrier rockets, in the second and subsequent years –



The amount of profit gained from one launch - \$ 4 million

CONCLUSIONS



"S&Space" project is an opportunity for investors to join the global elite, **input the name in the history of exploration and use of space**, and in the medium term, not only return on investment but also achieve great revenue



The profit from this project for the next **10 years** should be at least **\$ 250 million**

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