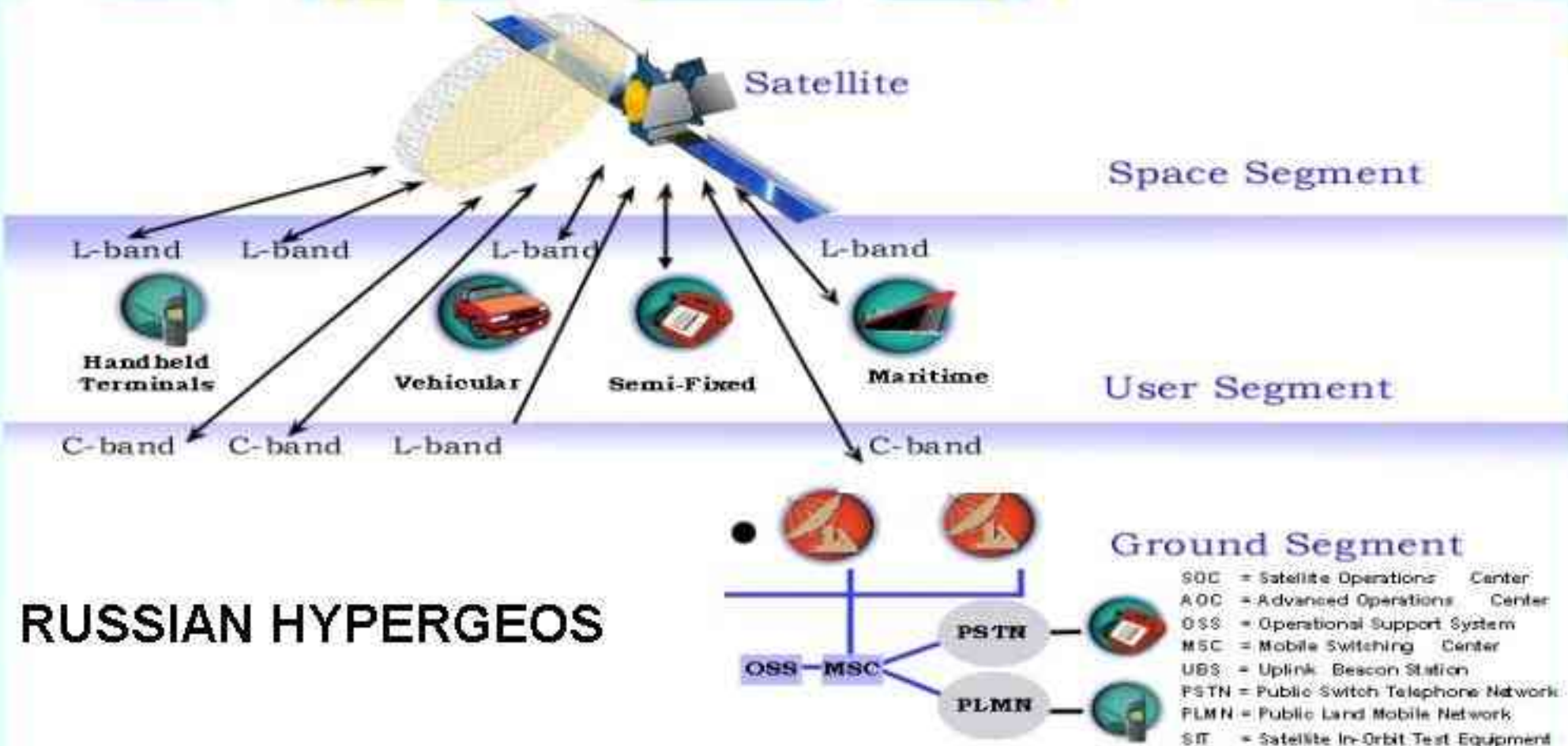




**RUSSIAN
HYPERGEOS**
PRESENTATION
short version
WWW.VLAS-FLC.COM

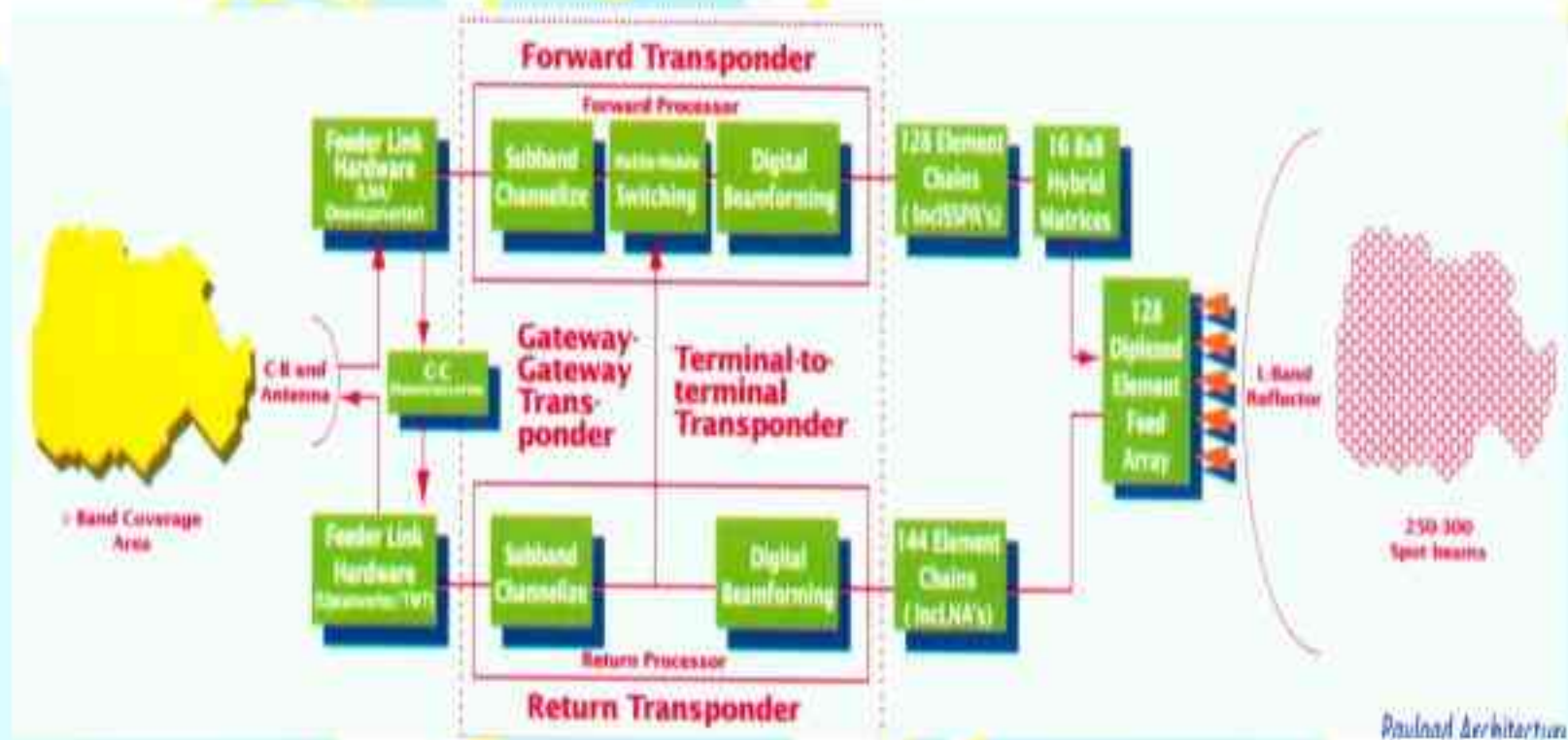
HYPERGEOS-1, -2, -3



HYPERGEOS-2, -3: COVERAGE



HYPERGEOS-1T



TYPICAL LAUNCH ARRANGEMENTS



SERVICES OF ADVANCED TECHNOLOGY

CONVENTIONAL
BROADBAND
MOBILE INFORMATION MOBINFO
VIRTUAL-LOCAL ALARMING SERVICES VLAS

CONVENTIONAL

Represent traditional set of services offered to subscribers by cellular operators. Those subscribers using dual mode telephone handsets, portable and mobile sets for office or kiosk configurations may enjoy the service both within the cellular coverage and beyond. Transition from cellular to satellite coverage and reverse is automatic by default. However, the user may take control over transition and use satellite or cellular services if both are available in the area. The user charges for satellite mode are targeted to be 10 - 15 percent above the cellular mode.



HANDSET

- Size and operations are similar to GSM
- Integrated GPS/GLONASS
- Batteries 650 и 1200 MA-h, idle mode 34,1 и 63 hrs, on-line 2,4 and 4,5 hrs
- SIM-card 3 and 3/5 v GSM compatible
- Serial port for PC
- Standard GSM encryption for both satellite and GSM cellular modes

SERVICES OF ADVANCED TECHNOLOGY

CONVENTIONAL

BROADBAND

MOBILE INFORMATION MOBINFO

VIRTUAL-LOCAL ALARMING SERVICES VLAS

BROADBAND

The mobile broadband service ranging from 144 kbit/s to 432 kbit/s enables users to have fast interactive access to the internet, intranet, remote corporate and local networks. Broadband services will extend beyond the reach of urban centres of population offering a satellite extension to terrestrial networks. The new user mobile wireless terminals will be designed to have both wired and wireless connections to PC's. Weighing around 1kg, including batteries, a notebook computer in size.

SERVICES OF ADVANCED TECHNOLOGY

**CONVENTIONAL
BROADBAND**

MOBILE INFORMATION MOBINFO

VIRTUAL-LOCAL ALARMING SERVICES VLAS

MOBILE INFORMATION SERVICES

represent a new type of integrated services offered to the mobile users and their partners. The list includes a variety of secretariat, post, legal and translation services. A set of possible services is offered in automatic mode based on pre-sets of user profile, as well as in manual mode via a service operator.

SERVICES OF ADVANCED TECHNOLOGY

**CONVENTIONAL
BROADBAND
MOBILE INFORMATION MOBINFO
VIRTUAL LOCATION ALARMING SERVICES VLAS**

VIRTUAL-LOCAL ALARMING SERVICES VLAS

The technical and operational capabilities of the Virtual Location Alarming Services (VLAS) system allow building up an entire family of services for users in business where the location, sensor, and force majeure data acquisition is essential. A reporter installed on mobile or fixed platforms in remote, difficult and ecologically dangerous regions may communicate its location, environmental data or personal and property or valuable assets security reports, as well as alerts caused by force majeure immediately and directly received by a receiving system deployed at customer control centres.

BUSINESS ESSENTIALS

Targeted total potential market in Russia

- **2.3 millions of individual terminals generating \$3 to \$10 a day per terminal in all directions. Regions: Market segments (internal waters, land, light planes + helicopters, government + emergency)**
- **100 thousand INFOSERVICE KIOSKS generating \$30 - \$100 a day per Kiosk (Large accounts, agents, dealers)**

Of this user base, services related to INFOSERVICE may generate \$0.5 billions revenues by the end of three year operations, primarily coming from MOBINFO Kiosks, Mobile-to-Mobile, Broadcasting and Positioning.