

Project

THEMATIC DIRECTIONS

of the Third Moscow International Forum
“Unmanned multipurpose systems”
Moscow, “Expocentre Fairgrounds”, January 27 – 29, 2009

January 27, 2009
(Tuesday)

PLENARY MEETING

“Creation and use of unmanned systems”

1. Distinctive features of forming, technical level, economic aspects and tendencies of development of the Russian market of unmanned systems for civil purposes.
2. Market of unmanned systems for civil purposes and of services concerned with their use:
 - Terms and definitions;
 - Parameters of the market (subjects, objects, boundaries, volumes, segmentation, division of labor, and so on);
 - Technical level;
 - Economic indices;
 - Tendencies of development;
 - Conditions required for forming and development;
 - Competition;
 - Interaction with other markets (of system for providing for national security, for rendering production services, and so on);
 - Development forecast.
3. Ways of commercialization of military scientific-and-technical designs and technologies in the field of creation and use of unmanned systems in Russia and abroad.
4. International cooperation as pacing factor contributing to accelerated forming and development of global market of civil unmanned systems.
5. Mutual cooperation of the Russian enterprises in the process of creation of unmanned systems for the benefits of civil industry sectors.
6. Working out of legislative basis with the object of providing for exploitation of unmanned systems.
7. Normative-and-methodical provision of flights of unmanned aerial vehicles in the united air area of the Russian Federation.
8. Standardization in the process of creation and using of unmanned systems for civil purposes.
9. Certification of unmanned systems in the Russian Federation and abroad.
10. Economic aspects of creation and exploitation of unmanned systems for the benefits of civil industry sectors.
11. Insurance of risks while rendering specialized services to enterprises of civil industry sectors with use of unmanned multipurpose systems.
12. Legal defense and legal protection of objects of intellectual property, created in the process of development of unmanned multipurpose systems for the benefits of civil industry sectors.

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(Wednesday)

ROUND TABLES AS PER DIRECTIONS

***I. Pilot investment project "Creation of unique technology
"System for providing specialized services for enterprises of fuel and energy complex with
use of piloted and unmanned aircraft systems"***

1. Conception of system of rendering specialized services to enterprises of fuel and energy complex with use of piloted and unmanned multipurpose complexes.
2. Application and technical-and-economical requirements to specialized services concerned with use of unmanned multipurpose systems for the benefits of fuel and energy complex.
3. Forming of benchmark data for creation of system for rendering specialized services to enterprises of civil industry sectors with use of piloted and unmanned multipurpose systems.
4. Technology of use of unmanned multipurpose complexes for the benefits of civil industry sectors in the process of carrying out of the following works:
 - Technical diagnostics;
 - Production-and-ecological monitoring of objects and regions adjacent thereto;
 - Protection of the objects;
 - Geodesic and cartographic works;
 - Geology-prospecting;
 - Detection and estimation of emergency situations at the objects;
 - Prospecting of glacial conditions, and so on.
5. Creation of Service Company for rendering specialized services to enterprises of fuel and energy complex with use of piloted and unmanned aircraft systems.

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II. Design, manufacture and exploitation of unmanned vehicle systems.

1. Creation of modern designs of unmanned systems:
 - Unmanned aircraft systems (lighter-than-air, fixed wing, rotary wing);
 - Naval surface and underwater unmanned systems;
 - Unmanned ground vehicle systems;
 - Functional materials for unmanned systems.
2. Operational security and safety aspects of unmanned systems.
3. Creation and exploitation of special equipment for use at unmanned multipurpose complexes in the process of carrying out the following works:
 - Technical diagnostics;
 - Production-and-ecological monitoring of objects and regions adjacent thereto;
 - Protection of the objects;
 - Geodesic and cartographic works;
 - Geology-prospecting;
 - Detection and estimation of emergency situations at the objects;
 - Prospecting of glacial conditions, and so on.
4. Aero-navigation maintenance of unmanned aircraft vehicles flights in the united air area.
5. Equipment for communication, observation and navigation for provision of flights of unmanned multipurpose complexes.
6. Technical layout of those unmanned multipurpose complexes that carry out works for the benefits of civil industry sectors.
7. Systems for processing data, obtained with use of unmanned multipurpose complexes, for further presentation in agreed format to enterprises of civil industry sectors.
8. Creation of complexes of on-board avionics for unmanned aircraft vehicles.
9. Adaptation of military unmanned aircraft vehicles of aircraft and helicopter types to performance of works for the benefits of civil industry sectors.
10. Power installations for unmanned aircraft vehicles.
11. Problems of allotting frequencies for provision of communication in the process of flights of unmanned multipurpose complexes in the united air area.
12. Controlling systems for unmanned multipurpose complexes.
13. Systems of mobile satellite communication for provision of flights of unmanned aircraft vehicles.
14. Training simulators and computer modeling systems for flights of unmanned multipurpose systems for training programs for operators and technical staff.