Annotation

# to the presentation «DIGITAL ADDITIVE MANUFACTURING»

Since 2008 experts of the Russian Federation have been involved in the development of the project of creating a digital casting production based on additive technologies for different industries.

The modular concept of creation of production and technological complexes has been developed. This concept allows to form flexible and developing productions for solution of the following tasks: a new product development (castings of metals), prototyping, trial samples production, multiproduct batch manufacturing of parts with versatile purposes of different materials (metals, composites, sand, plastic).

The research, technical and production basis has been created and a team of experts has been built.

Unique technologies, know-how in the field of additive manufacturing of parts with high complexity and advanced functionality have been developed.

Application of technology of additive developing, additive manufacturing allows to minimize technological and production risks.

# The direction for cooperation

Creation of a pilot and batch manufacturing of castings with an application of additive technologies based on modular production and technological complexes.

Implementation of the project allows:

* to develop castings of high precision and complex geometry for aviation, automotive and other industries;
* to create an operative area for preparation of a pilot and batch manufacturing of castings from non-ferrous and ferrous metals on the basis of 3D printing technologies;
* to reduce preparation terms of production of single samples, small series of parts for developmental purposes;
* to reduce preparation terms of batch production;
* to reduce labor consumption of batch production;
* to manufacture competitive products;
* to carry out flexible reconfiguration of production capacities for the development of new products without technological readjustment of manufacturing at any stage of research & development and batch production.

The term of Project implementation makes 12-15 months.