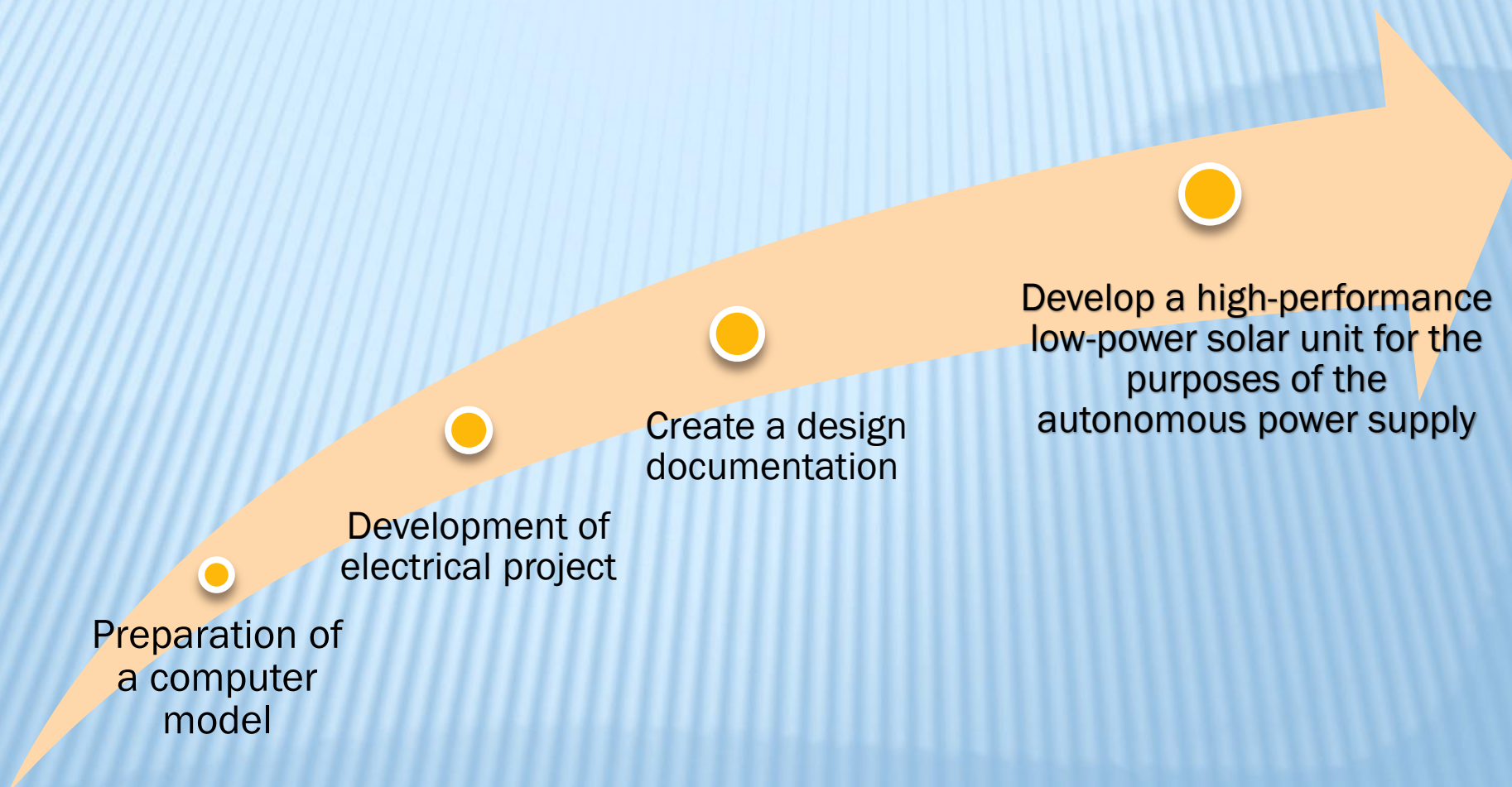


2-axis tracker installation
Khrushch Ilya
Unitary enterprise "MediuM"

PROJECT REVIEW

PROJECT OBJECTIVES



Preparation of
a computer
model

Development of
electrical project

Create a design
documentation

Develop a high-performance
low-power solar unit for the
purposes of the
autonomous power supply

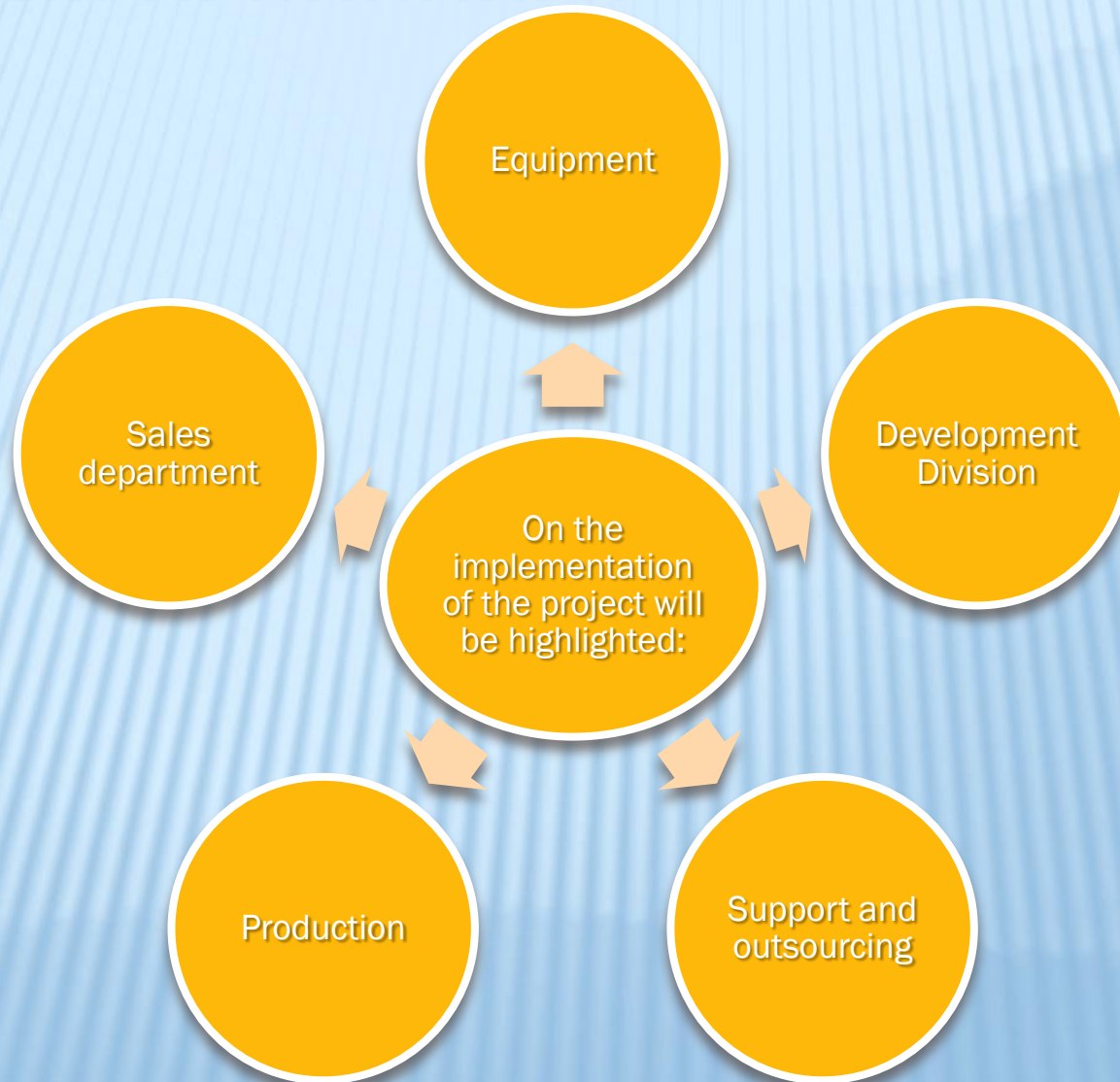
DESCRIPTION

- ✖ The original design, based on 2-wheel drive (biaxial) electro-mechanical systems for orientation array of solar modules perpendicular to the direction of solar radiation (2-axis tracker installation).
- ✖ Improved solar power generation energy by 30-40% for a two-axis tracking system and 20-25% for single-axis relative to the fixed structure.

TECHNOLOGY

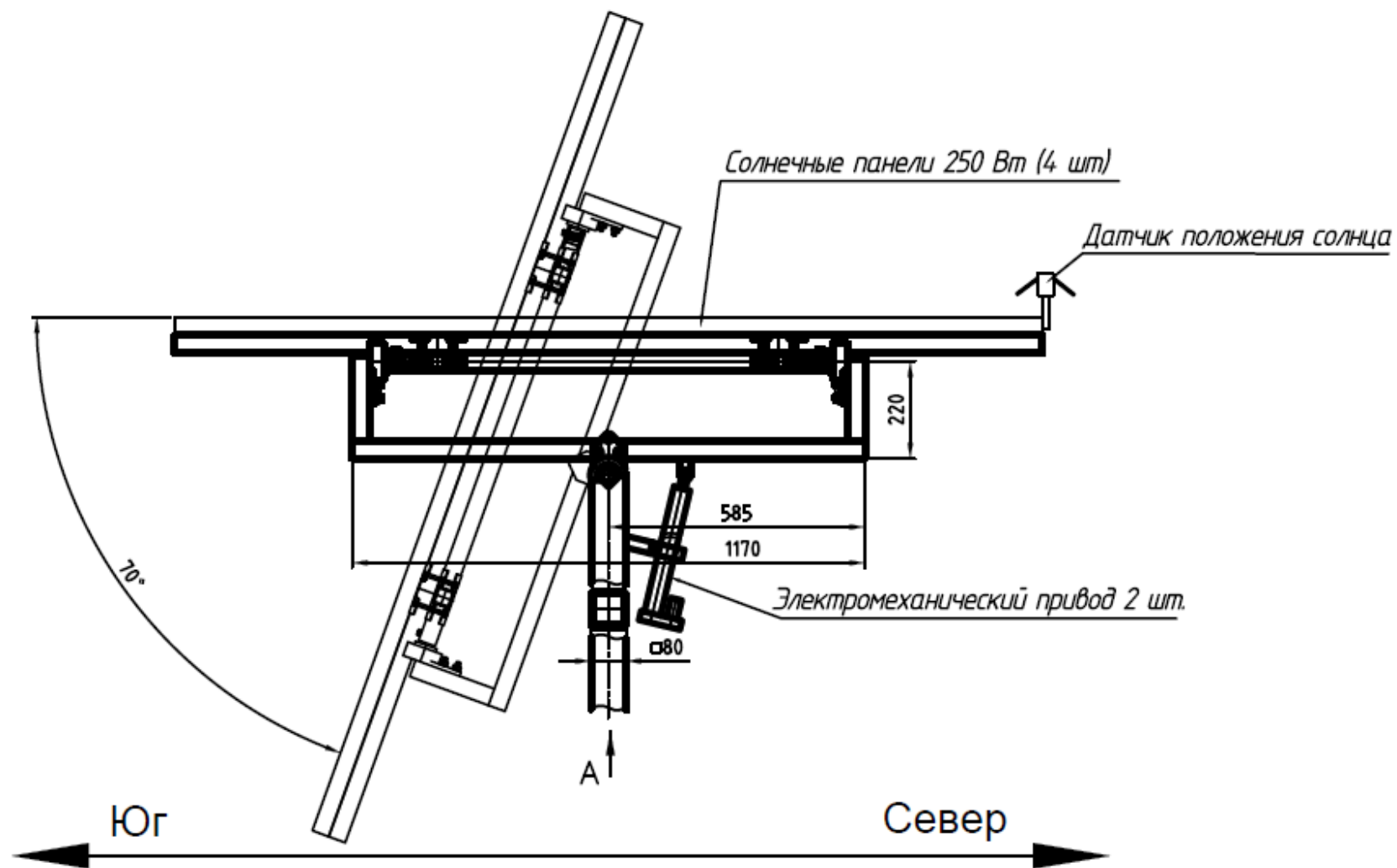
- ✖ Ability to connect accumulating systems and low-power load: lighting, video surveillance, different sensors and control devices.
- ✖ Scalability in a wide range of capacities.
- ✖ Easy for execution and use of metal construction, consisting of standardized materials and components.
- ✖ Ingress Protection Marking- IP65.

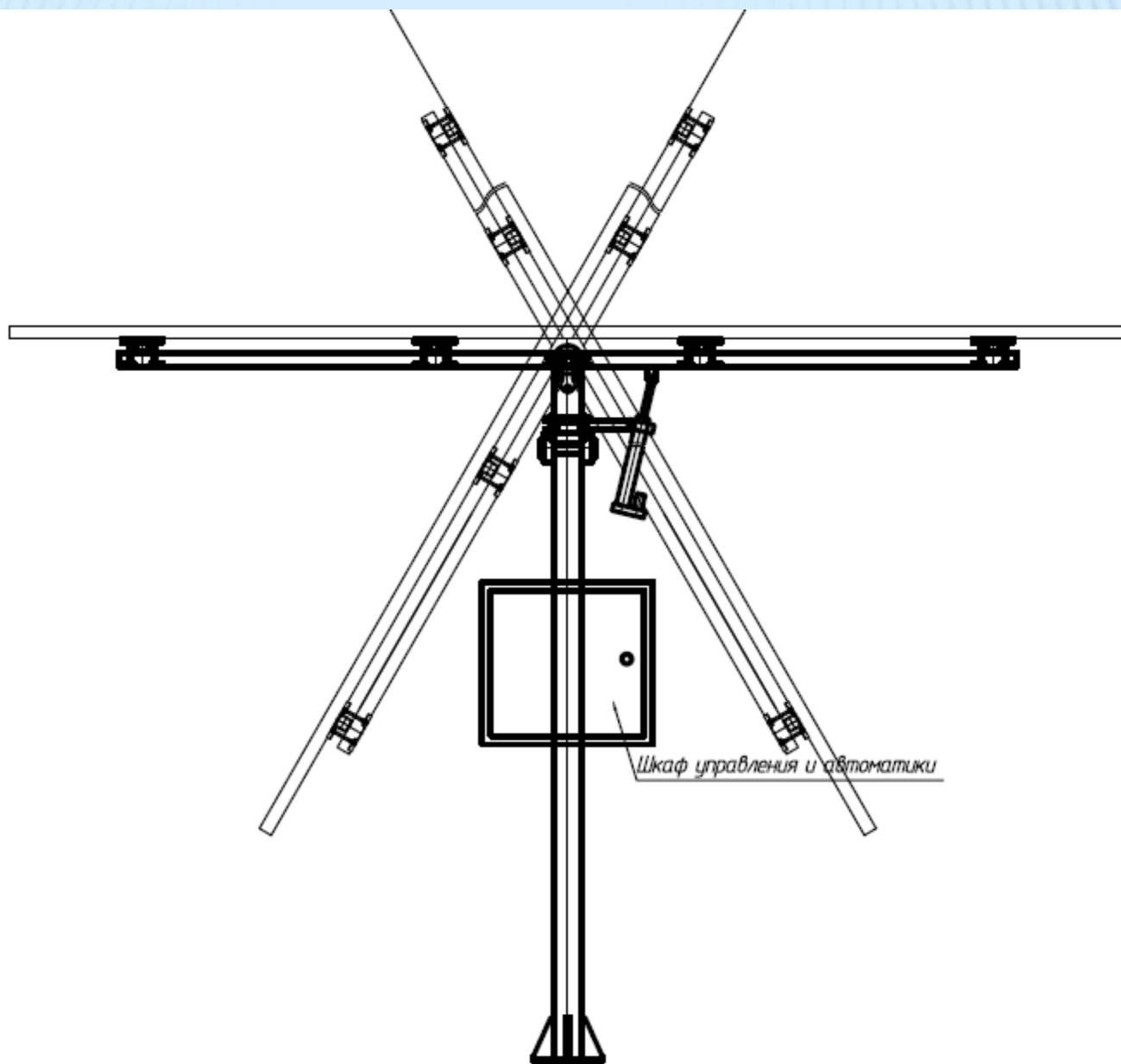
COMPANY RESOURCES



TIMELINE OF IMPLEMENTATION

- 1) Preparation of a computer model for the metal construction and the drive control system. **Already exist.**
- 2) Development of electrical project, writing the algorithm operation. **23.03 - 07.04.**
- 3) Formation of the detailed specification of equipment and metal structure. **07.04 - 22.04.**
- 4) Correction of errors found in the computer model, debugging algorithm control box, design improvement. **22.04 - 27.04.**
- 5) Create a design documentation of the general form for the manufacture of the prototype. **28.04 - 07.05.**
- 6) Preparation of conclusion on the possibility of installation of structures on the roofs of residential buildings. **08.05 - 22.08.**





CURRENT STATE



Preparation of a computer model for the metal construction and the drive control system is done.

Thank you for attention.