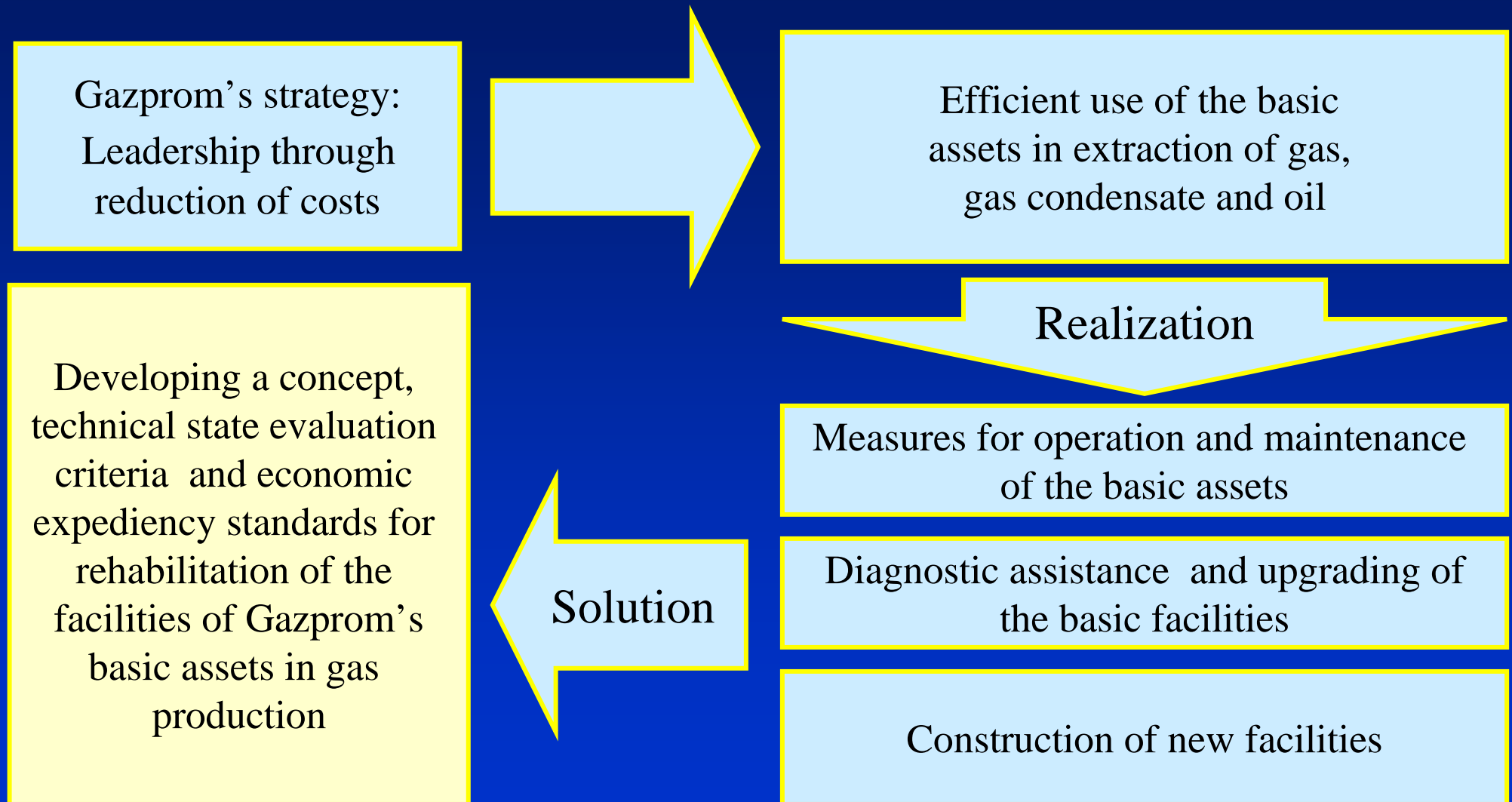


# **Present-Day Systems of Mechanical Servicing Gas Production Facilities as Basis for Basic Assets Management**

*N.A. Gafarov (Gazprom),  
V.V. Kharionovsky (VNIIGAZ)*

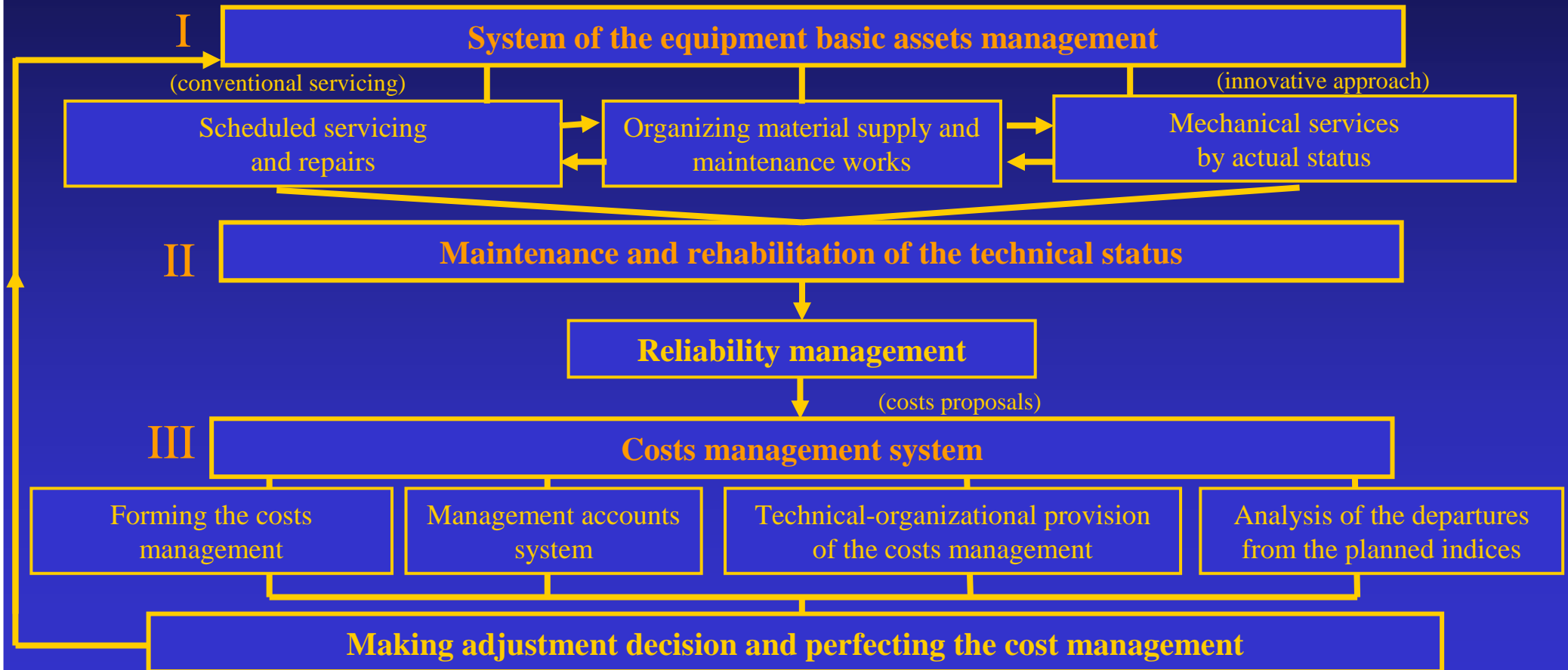
# Gazprom's strategy: Leadership through reduction of costs



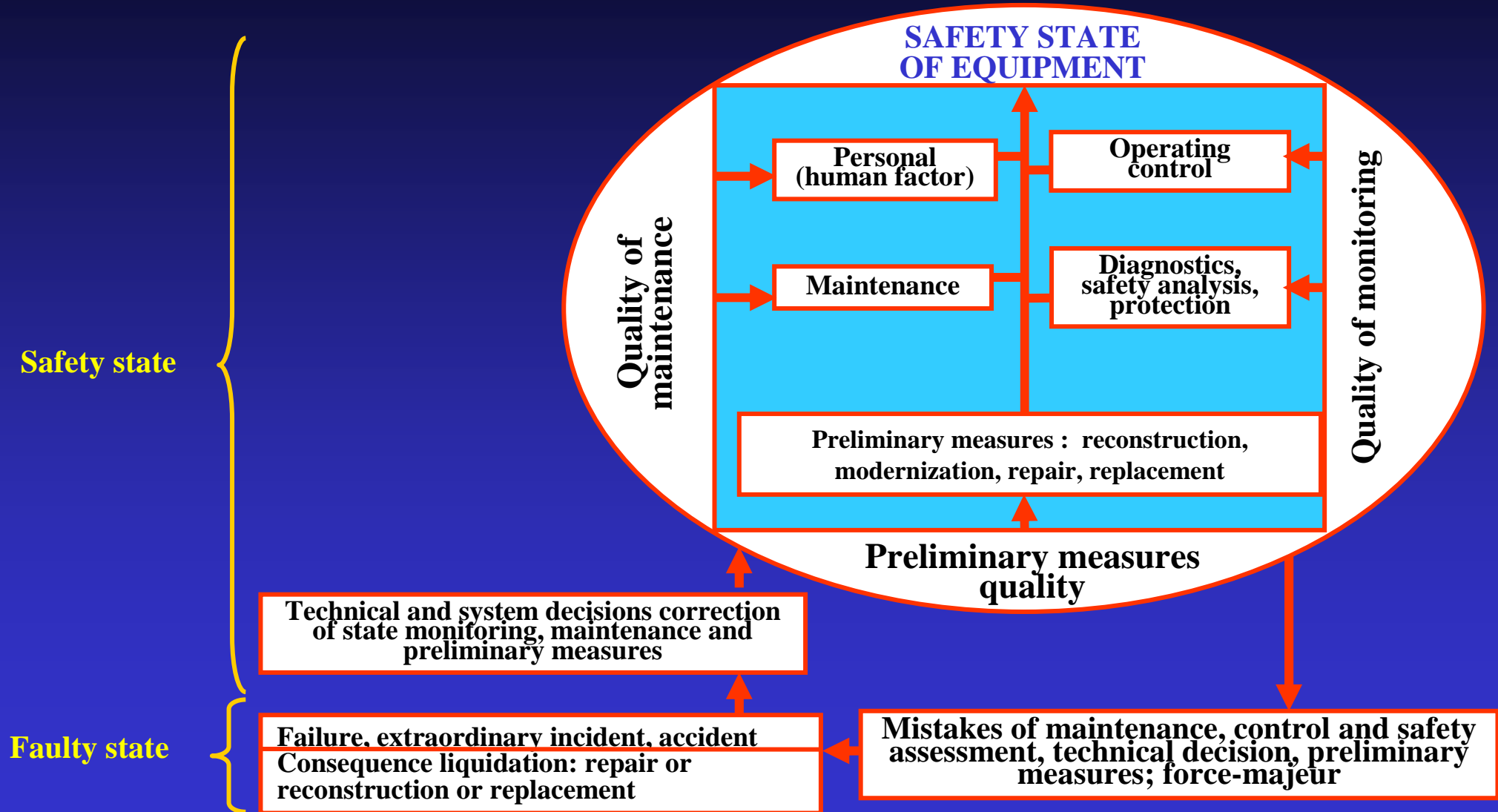
# Concept of the basic assets management for the gas production equipment

Gas production facilities

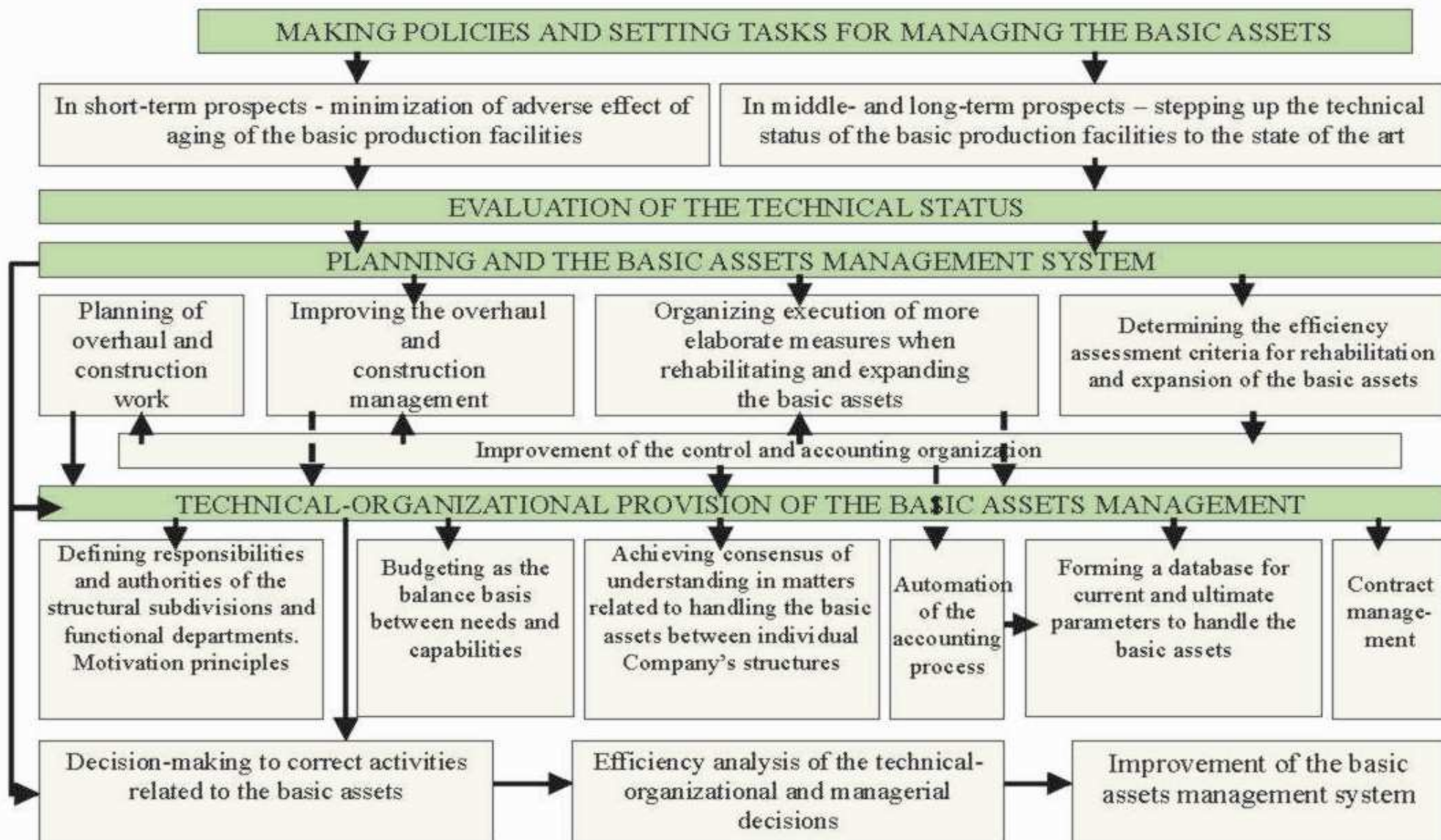
**Objective:** to ensure the efficient functioning of the equipment basic assets allowing for reduction the costs of construction, operating and repairs



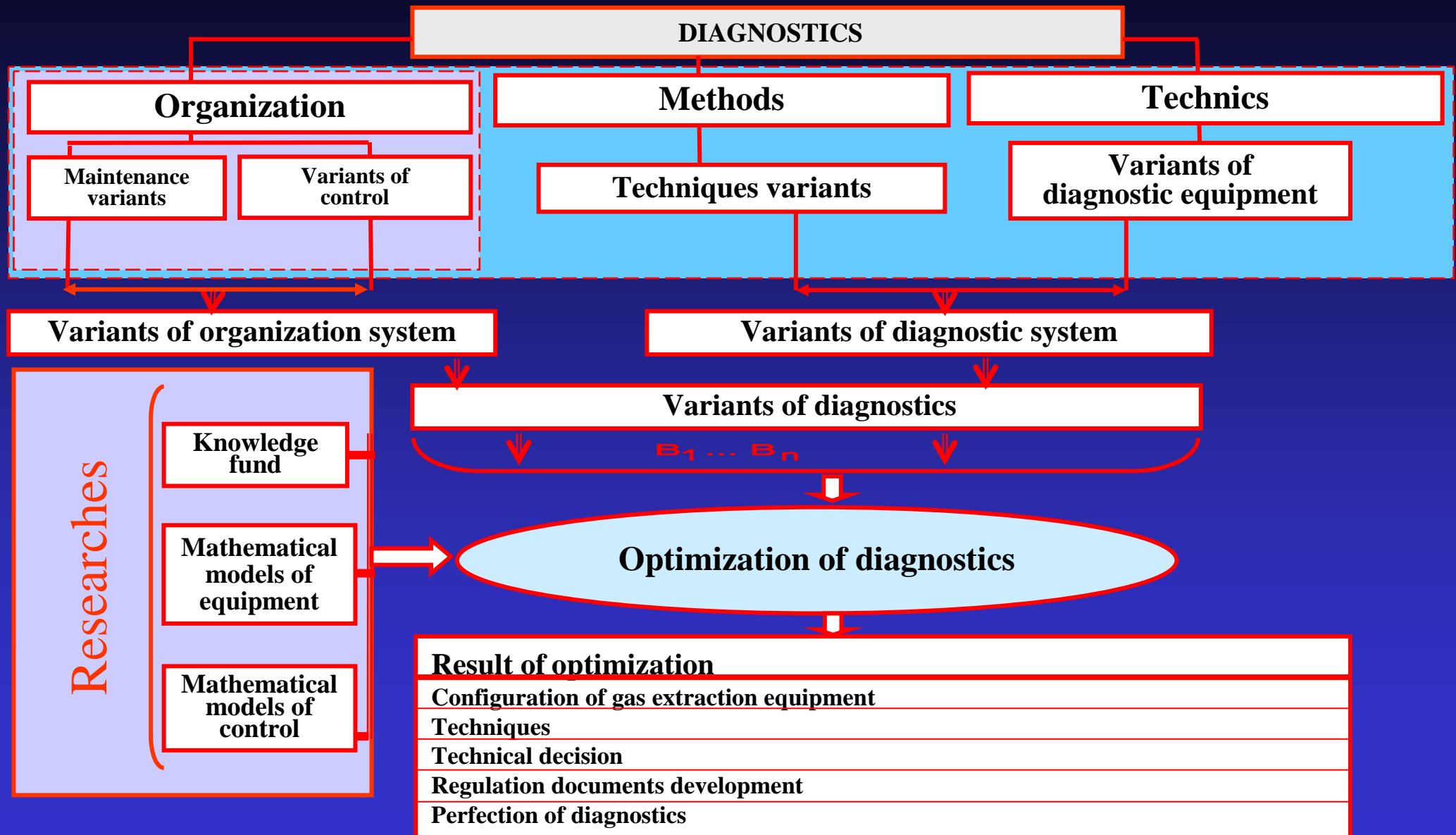
# Cause-consequence relations of good state and faulty state in the gas extraction equipment operating



# System of the basic assets management



# Methodology of gas extraction equipment control



# The main elements of technical servicing according to the technical status

**Technical status monitoring – evaluation of the technical status of field pipelines and equipment and comparison of the actual parameters with the design parameters**

**Technical services – maintaining field pipelines and equipment in the operable and serviceable condition in the process of operation**

**Repairs – a series of operations to restore the serviceable and operable condition of field pipelines and equipment**

**Replacement of equipment – works to remove from service, dismantle and eliminate the equipment and replace it with new equipment**

## **The basic elements of the maintenance works according to actual state**

**Equipment bears technical status parameters, admissible, alarm and critical parameters levels standardized by the manufacturer's instruction**

**Intermittent control of parameters (monitoring works are planned automatically)**

**To keep records of the parameter history and monitoring of the exceeded admissible levels**

**When the admissible parameter level is achieved, the specialist takes a decision about the period and further equipment operation conditions or equipment shutdown, type, time and size of maintenance works or repairs**



# Centralized management of safety and expenses for operation of gas production facilities

