



РОСАТОМ

ГОСУДАРСТВЕННАЯ КОРПОРАЦИЯ ПО АТОМНОЙ ЭНЕРГИИ «РОСАТОМ»

Requirements to quality assurance while supplying equipment to the Russian objects of nuclear energy use

Nuclear Power Plant construction quality control

Definition

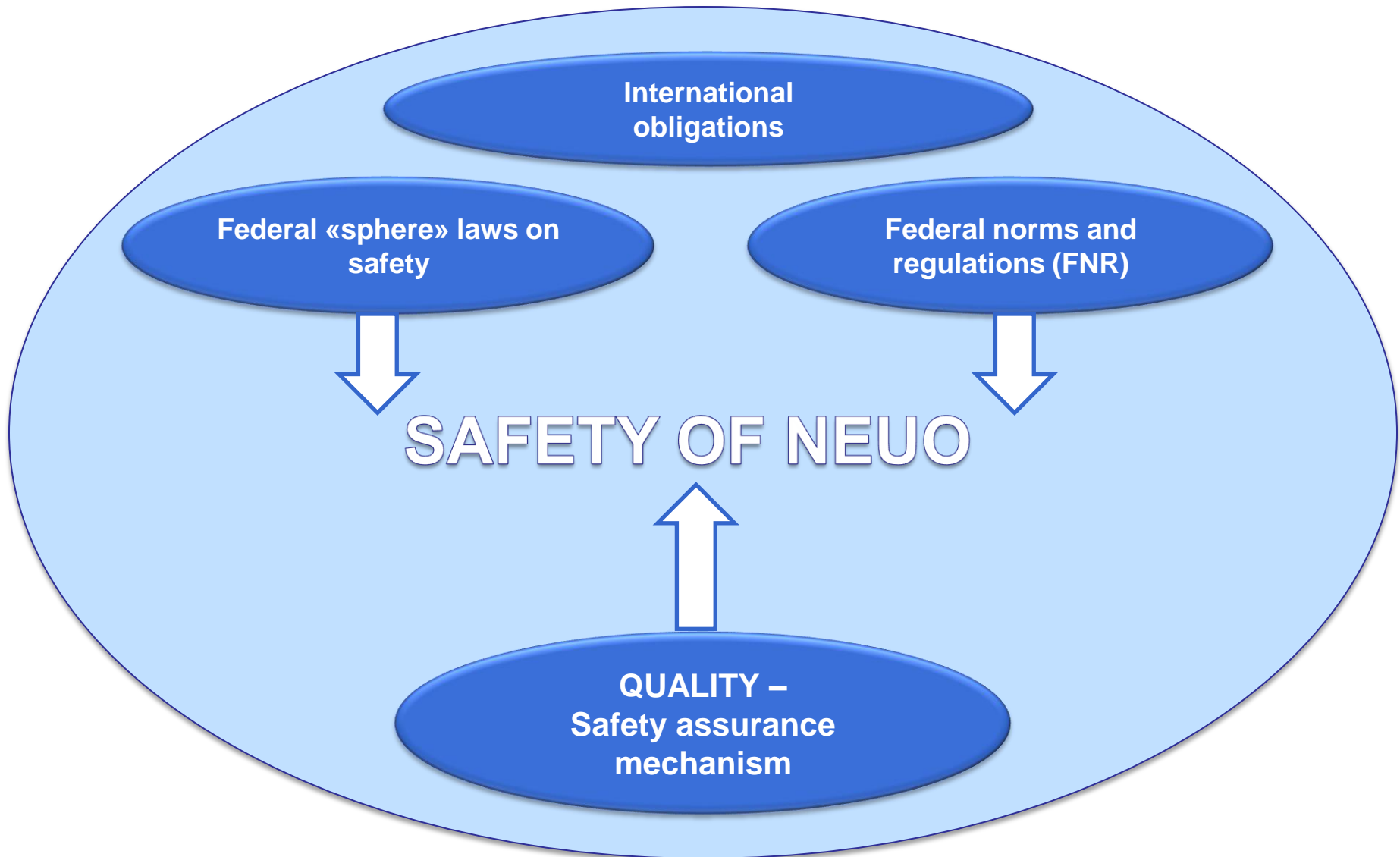
Quality

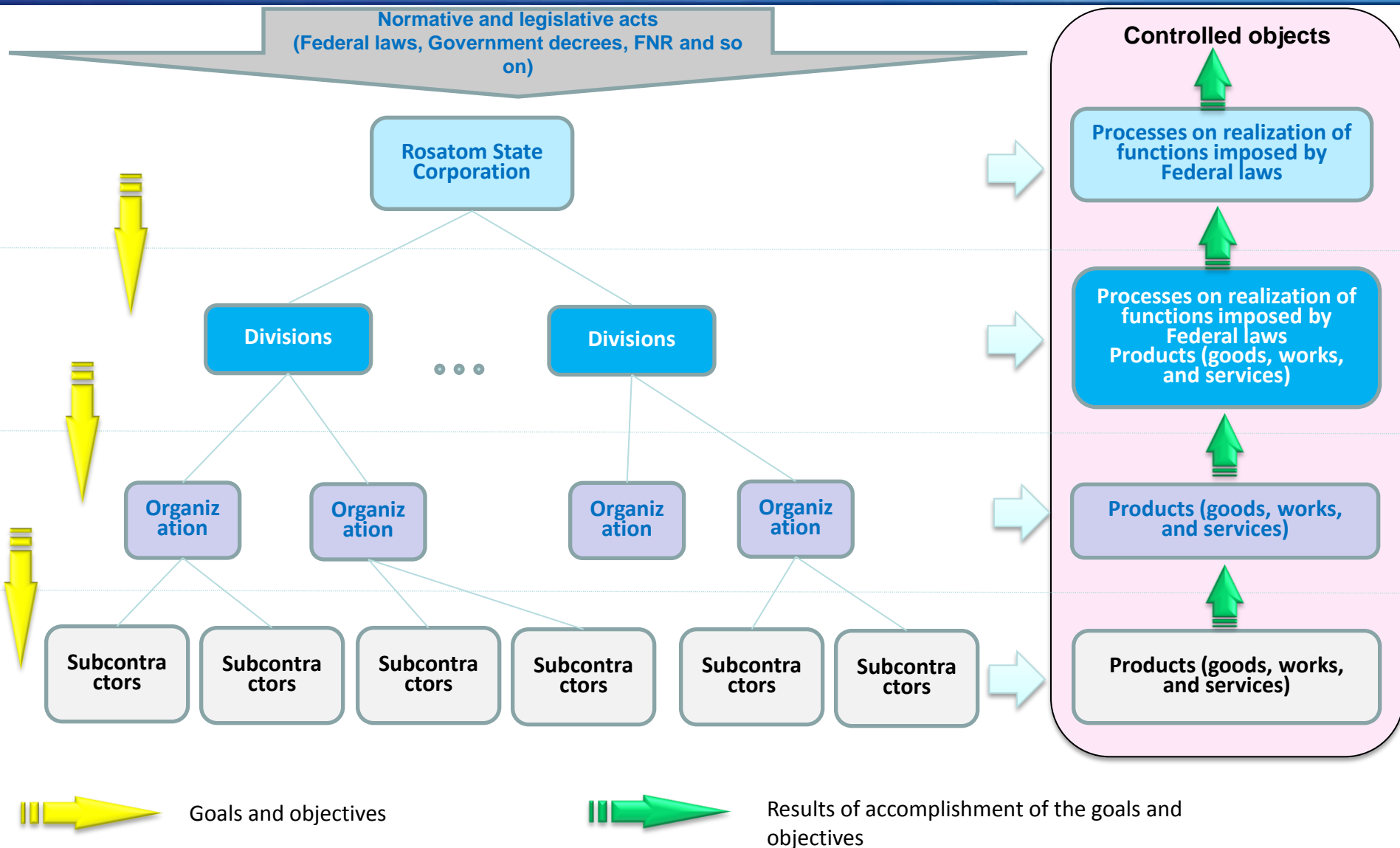


Degree of conformity of an aggregate of inherent characteristics to (preset) requirements

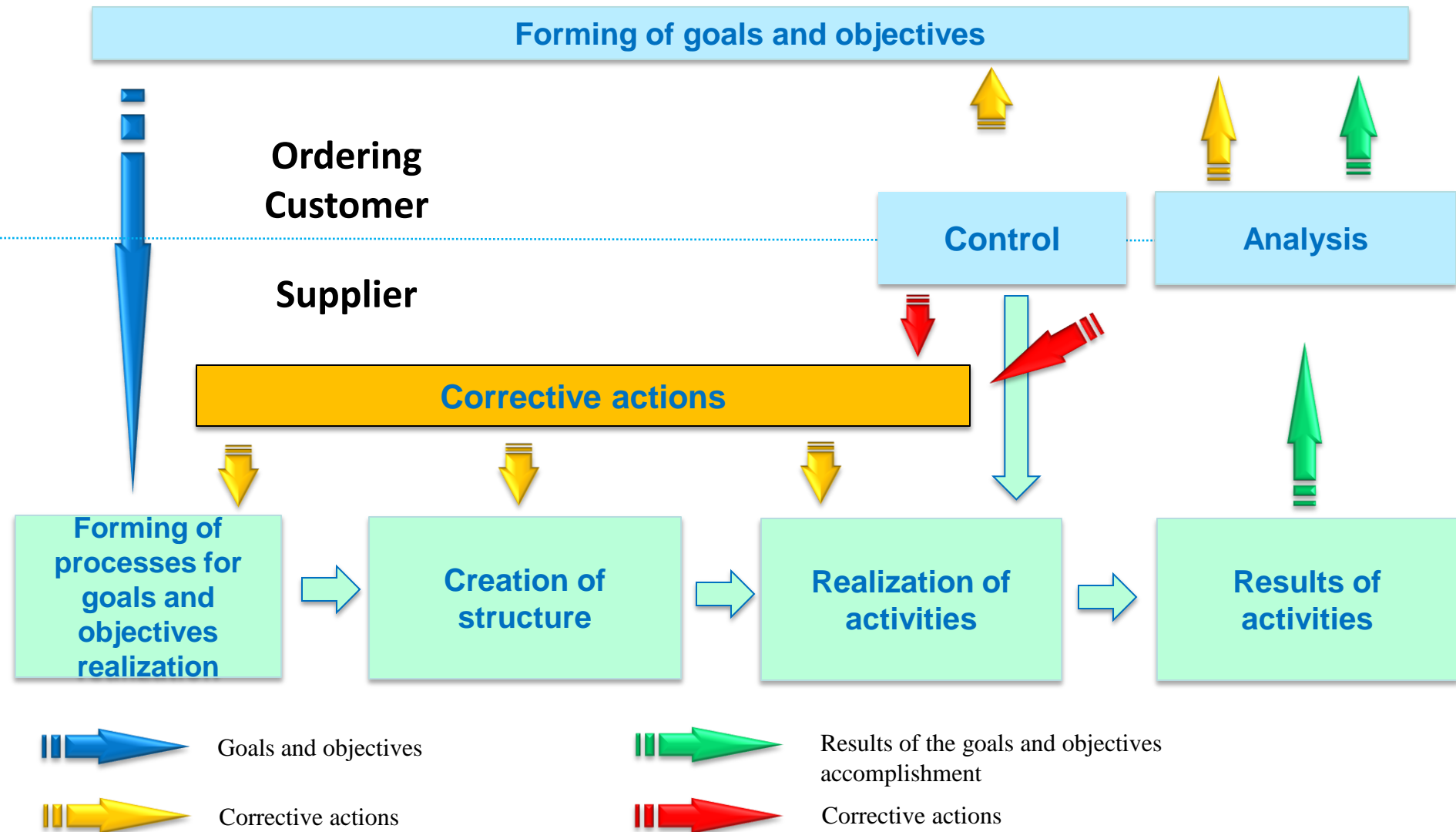
GOST R ISO 9000-2008

Quality assurance – guarantee of safety of nuclear energy use objects (NEUO)

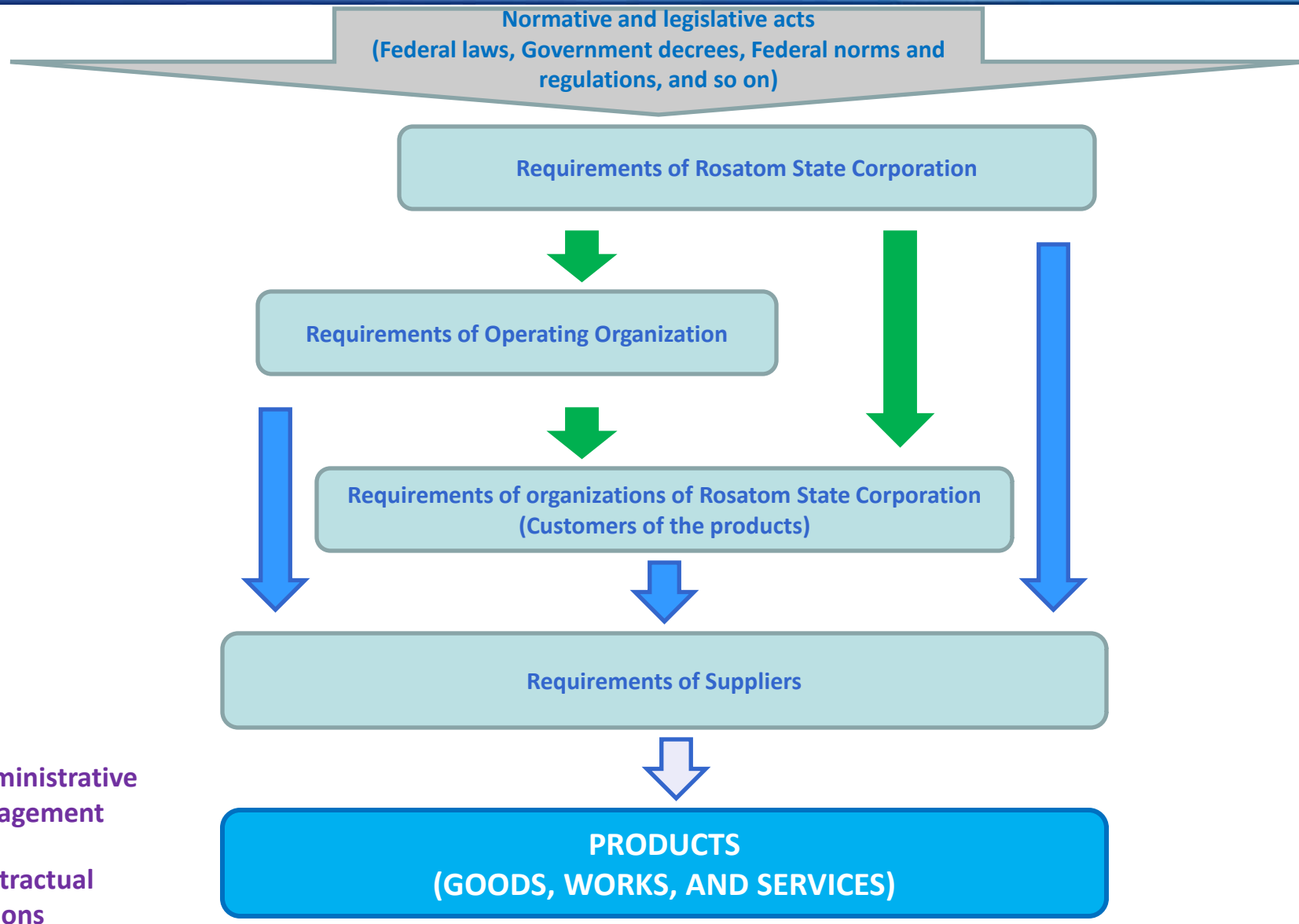




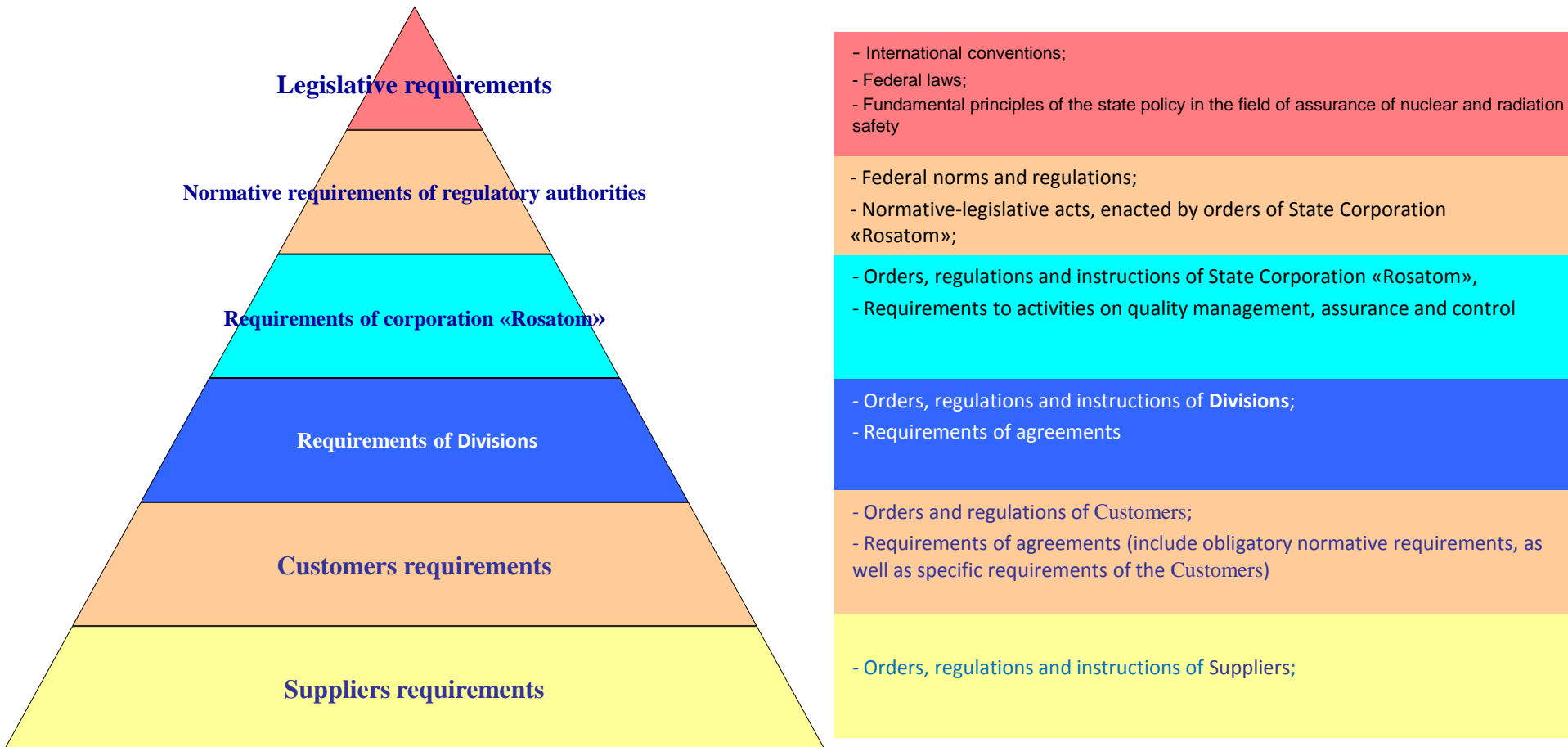
MODEL OF REALIZATION OF GOALS AND OBJECTIVES



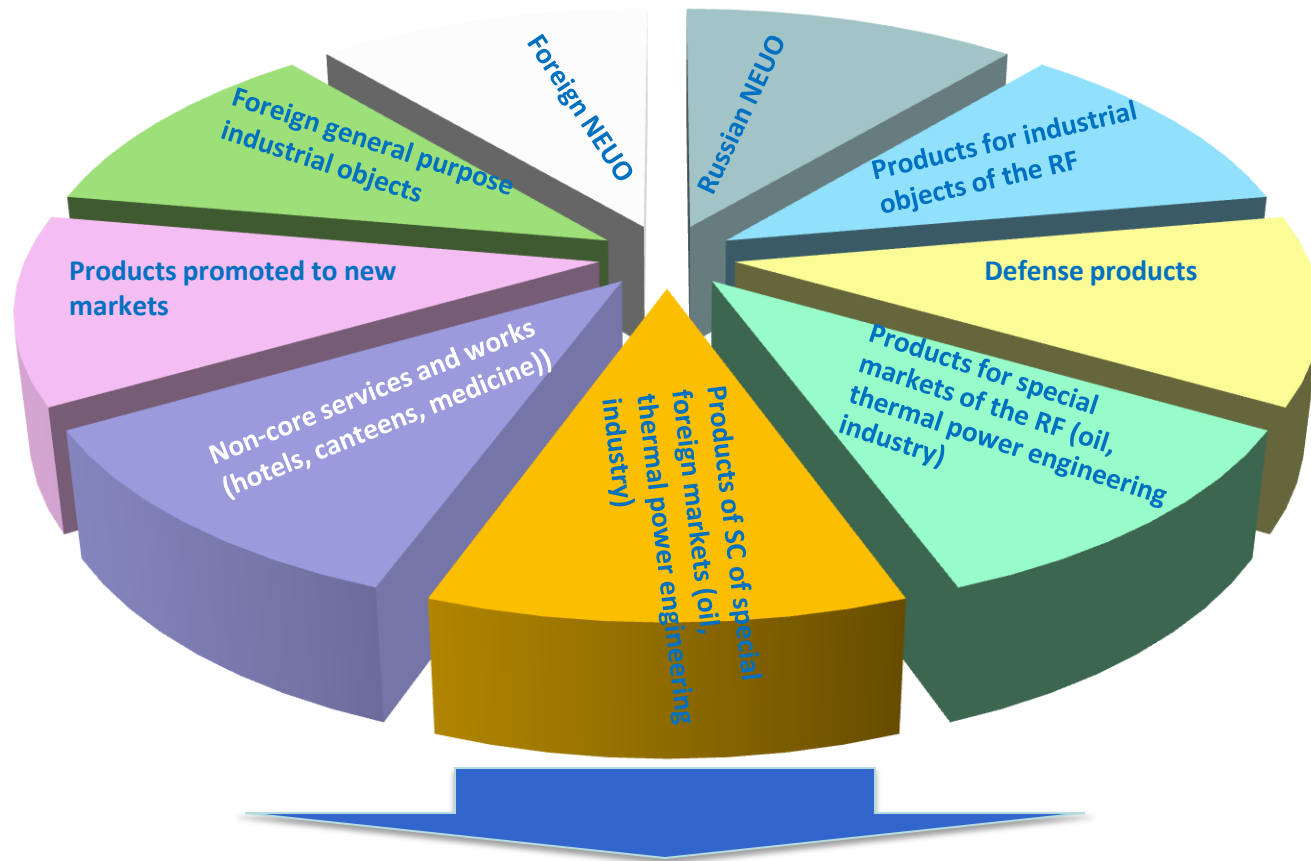
Requirements made to products (goods, works, and services)



Architecture of legislative, normative, administrative and contractual regulation of activities on quality management, assurance and control

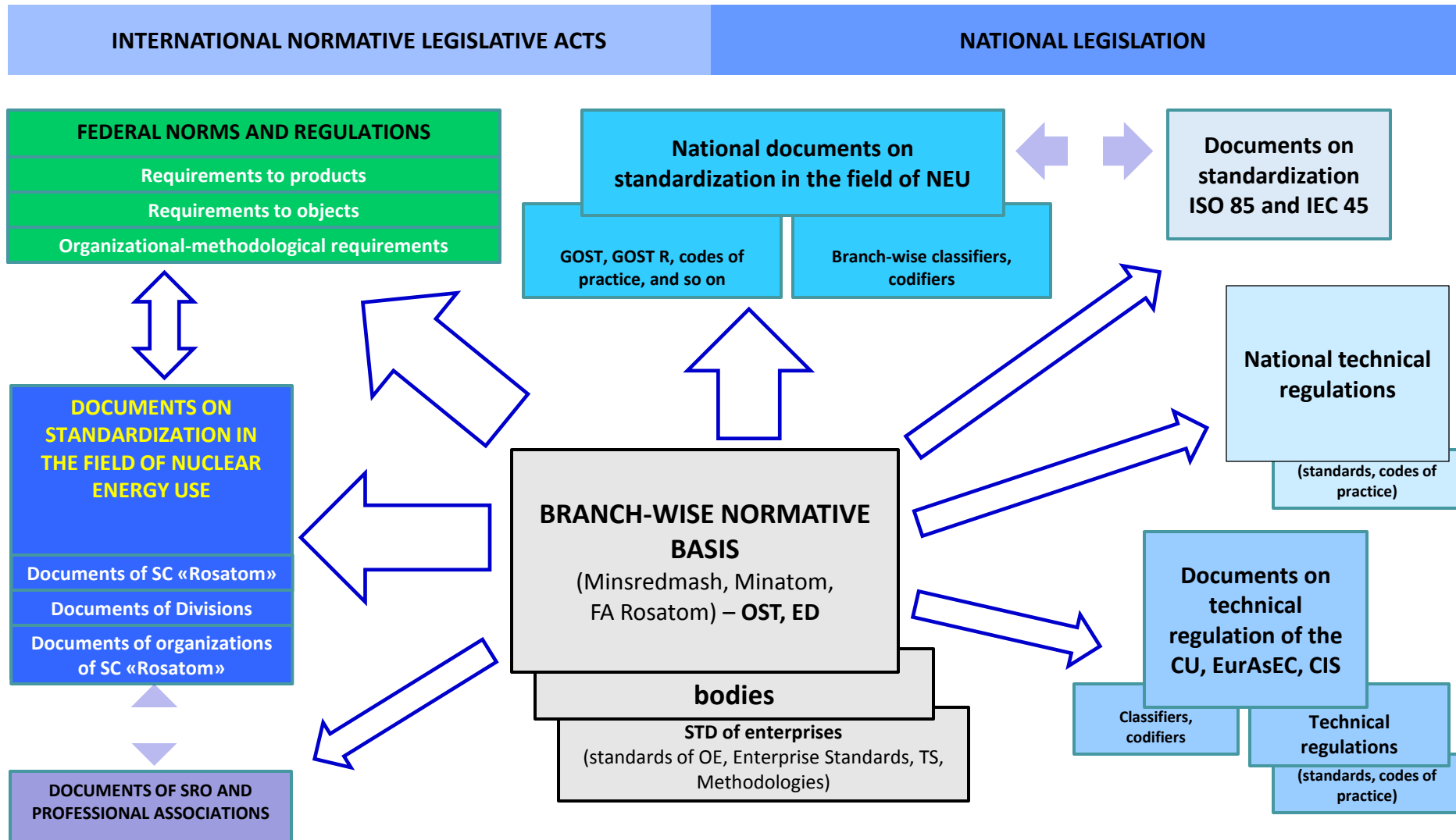


Differential approach while forming requirements to products (works, services)



Broad spectrum of objects of application sets conditions for the principle of differential approach to organization of quality management system

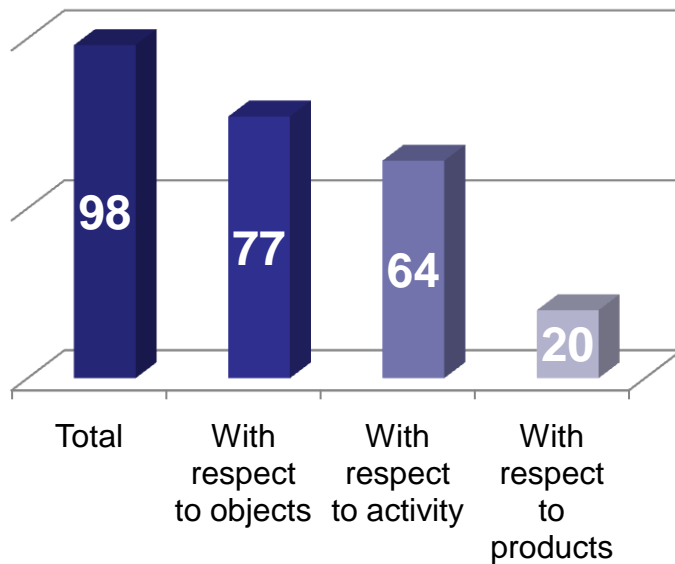
Current transformation of normative requirements



Normative requirements

FNR in NEUO

Interdepartmental normative acts



Apart from that, there exist **3376** departmental normative documents (OST 95, ED 95, TS 95 and so on)

Technical regulations

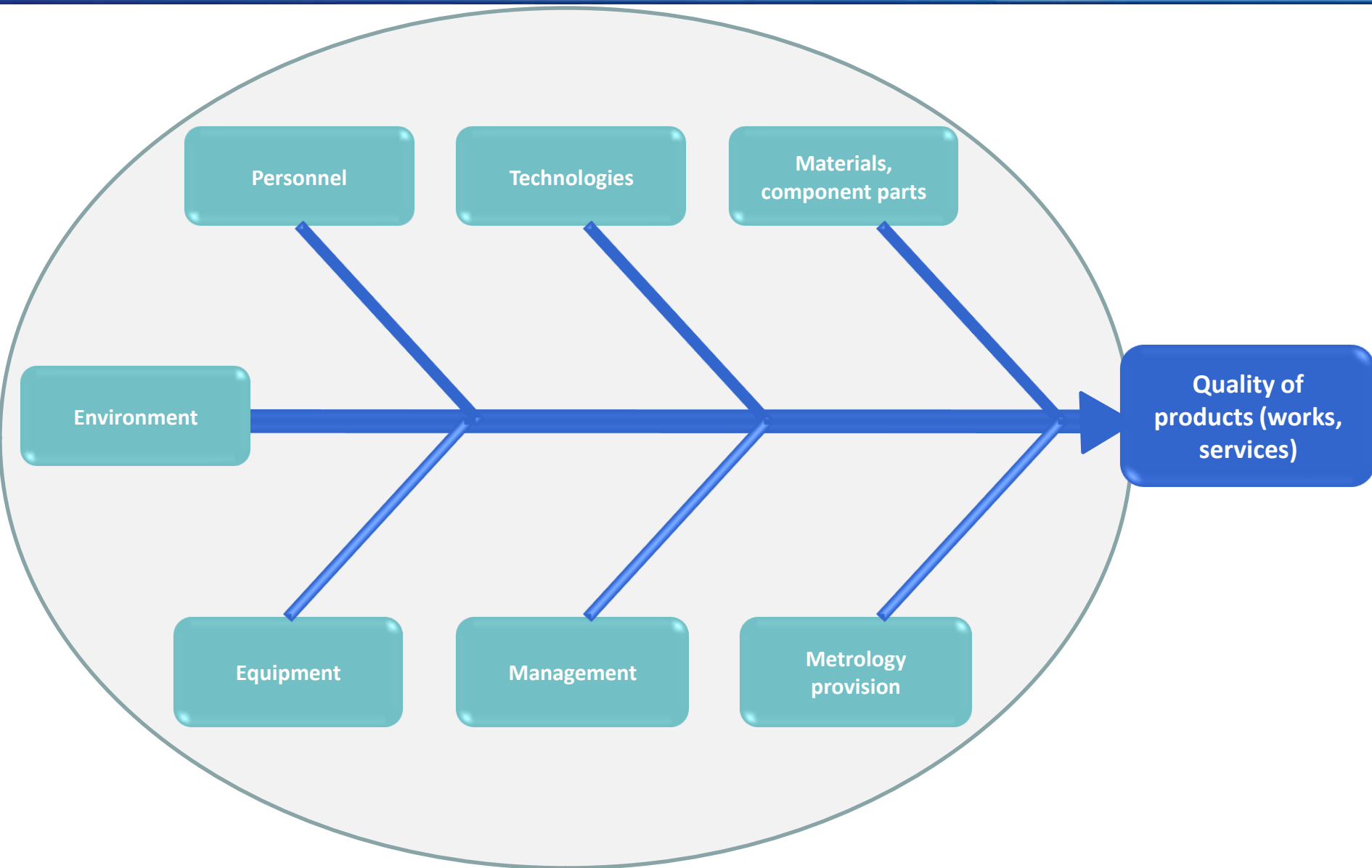
*Federal laws,
Government decrees*

There are approved **24** technical regulations of the **Russian Federation** (**13** are enacted; around **1000** documents on standardization, stipulating requirements to products, act on sub-legislative basis)

3 technical regulations of the **Customs Union**

There are being developed and enacted technical regulations of the **EuroAsian Economic Community**

Factors exerting influence on quality of products (works, services)



Scope of requirements

Requirements to QMS.
Differential approach depending on safety category and product / divisional principle



Standard agreements on construction of NPP (Order of Rosatom State Corporation No 1/575-П dated 16.12.2010)



FNR in the field of nuclear power use: NR-011-99, NR-041-02, NR-042-02, stipulating requirements to quality assurance programs



GOST R ISO 9001-2008 «Quality management systems. Requirements»

Requirements to products, works, and services



Stipulated in contracts/agreements concluded with Supplier

Requirements to performance of conformity assessment



FNR in the field of nuclear power use: ED 03-36-2002 and NR-071-99, stipulating requirements to procedure of carrying out of conformity assessment



Documents of EPT certification system



National technical regulations

Requirements of Customer to production control execution and to activities relating to assurance of its quality



Stipulated in contracts/agreements concluded with Supplier and in documentation of Customer

Kinds of activities on quality assurance



Broad spectrum of products (works, services) depending on application sets conditions for the principle of differential approach to forming of requirements to realized kinds of activities

CONFORMITY ASSESSMENT

IN THE FORM OF OBLIGATORY CERTIFICATION

CARRIED OUT BY CERTIFICATION AUTHORITIES

EXECUTION OF INSPECTIONS AND INDEPENDENT TESTS FOR CONFIRMATION OF REQUIREMENTS OF THE EPT CERTIFICATION SYSTEM

GOVERNED BY NR-071-06, DOCUMENTS OF THE EPT CERTIFICATION SYSTEM

IN THE FORM OF TESTS

CARRIED OUT BY DEVELOPER OR MANUFACTURER OF PRODUCTS

EXECUTION OF ACCEPTANCE, QUALIFICATION AND DELIVERY TESTS FOR CONFIRMATION OF CONFORMITY CHARACTERISTICS OF PRODUCTS TO REQUIREMENTS OF PROJECT AND DESIGN DOCUMENTATION

GOVERNED BY NR-071-06, JOINT DECISION OF ROSATOM AND ROSTECHNADZOR No 06-4421, STATE STANDARDS OF PRODUCTION DEVELOPMENT AND ENGINEERING SYSTEM

IN THE FORM OF ACCEPTANCE

CARRIED OUT BY MANUFACTURER OF PRODUCTS AND OPERATING ORGANIZATION (OR ORGANIZATION ACTING BY ITS COMMISSION)

Acceptance commission with participation of Ordering Customer (User), Developer, Manufacturer and (as may be required) expert organizations, RosTechNadzor

EXECUTION OF EXPECTATIONS FOR CONFIRMATION OF FULFILLMENT OF REQUIREMENTS OF SPECIFIC DELIVERY AGREEMENT (INCLUDING FULFILLMENT OF OTHER FORMS OF CONFORMITY ASSESSMENT), AS WELL AS INDEPENDENT ON MANUFACTURER INSPECTIONS ON QUALITY PLANS (ADDITIONAL PRODUCT QUALITY CONTROL)

GOVERNED BY NR-071-06, JOINT DECISION OF ROSATOM AND ROSTECHNADZOR No 06-4421, GOVERNING DOCUMENTS AND METHODOLOGICAL DIRECTIONS OF OJSC «CONCERN ENERGOATOM»

IN THE FORM OF STATE SUPERVISION

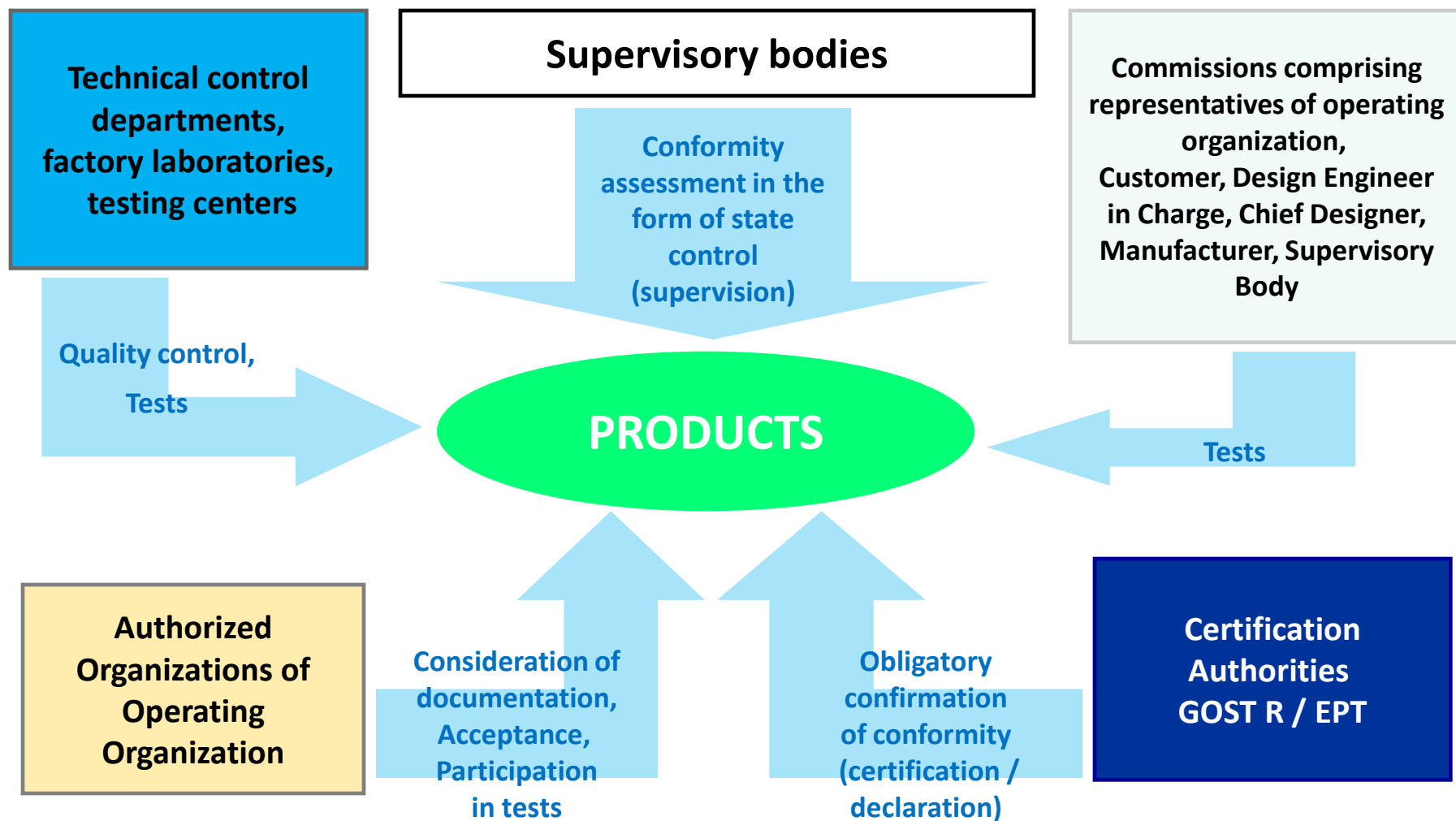
CARRIED OUT BY ROSTECHNADZOR

EXECUTION OF INSPECTIONS FOR CONFIRMATION OF CONDITIONS OF VALIDITY OF LICENSES FOR THE RIGHT OF MANUFACTURING WITHIN THE LIMITS OF SUPERVISION OVER OBSERVATION OF THE FEDERAL NORMS AND REGULATIONS IN THE FIELD OF NUCLEAR POWER USE

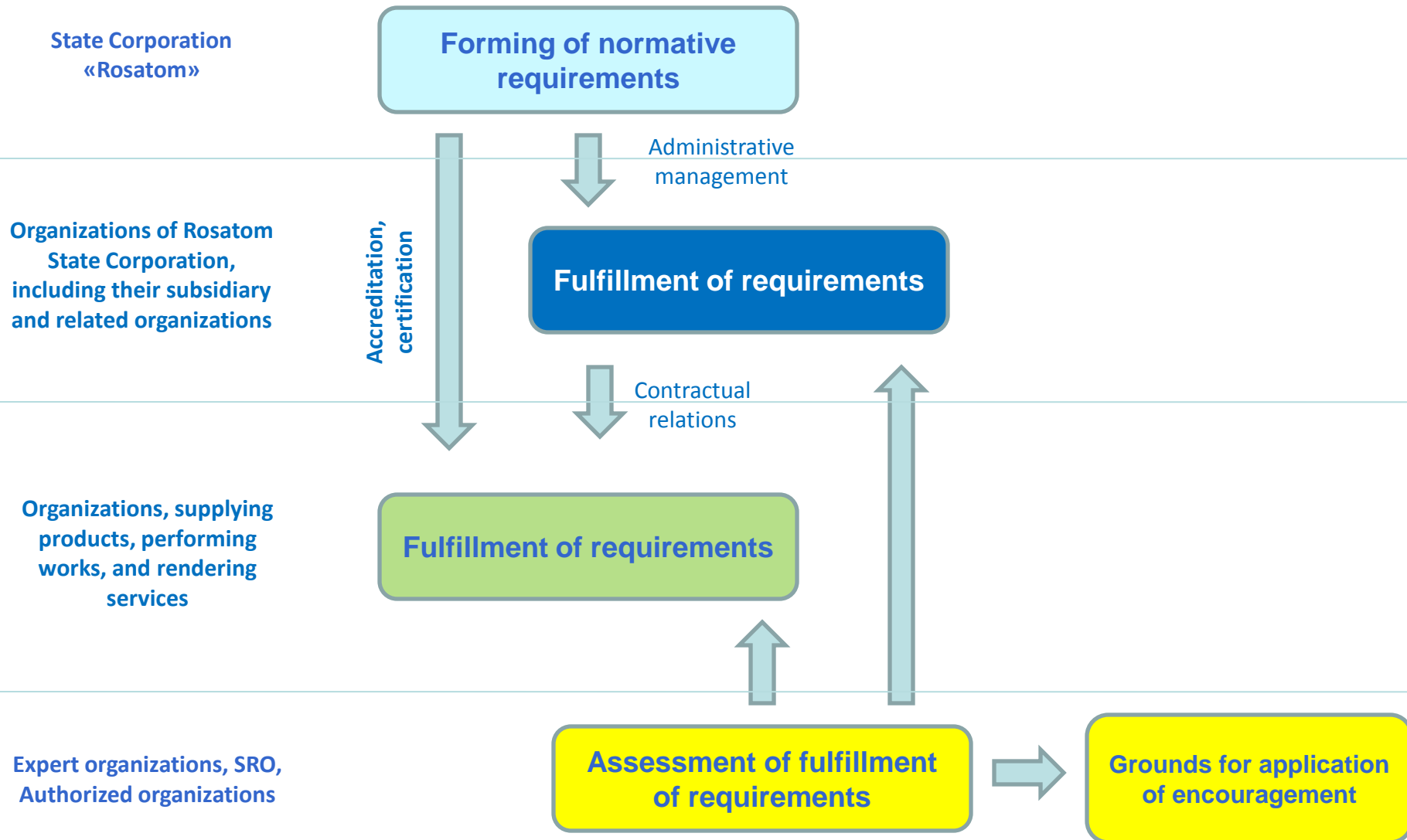
GOVERNED BY REGULATIONS ON ROSTECHNADZOR, NR-071-06, OTHER FEDERAL NORMS AND REGULATIONS IN THE FIELD OF NUCLEAR POWER USE AND GOVERNING DOCUMENTS OF ROSTECHNADZOR

P R O D U C T S

EXECUTORS, QUALITY CONTROL AND FORMS OF CONFORMITY ASSESSMENT IN THE NUCLEAR INDUSTRY



Mechanism of exerting influence on suppliers of substandard products (works, services)





POCATOM

**Thank you for your
attention!**