"The XIth international scientific-methodical conference
"Quality management in modern High school""
on the 30th of October 2013 y.

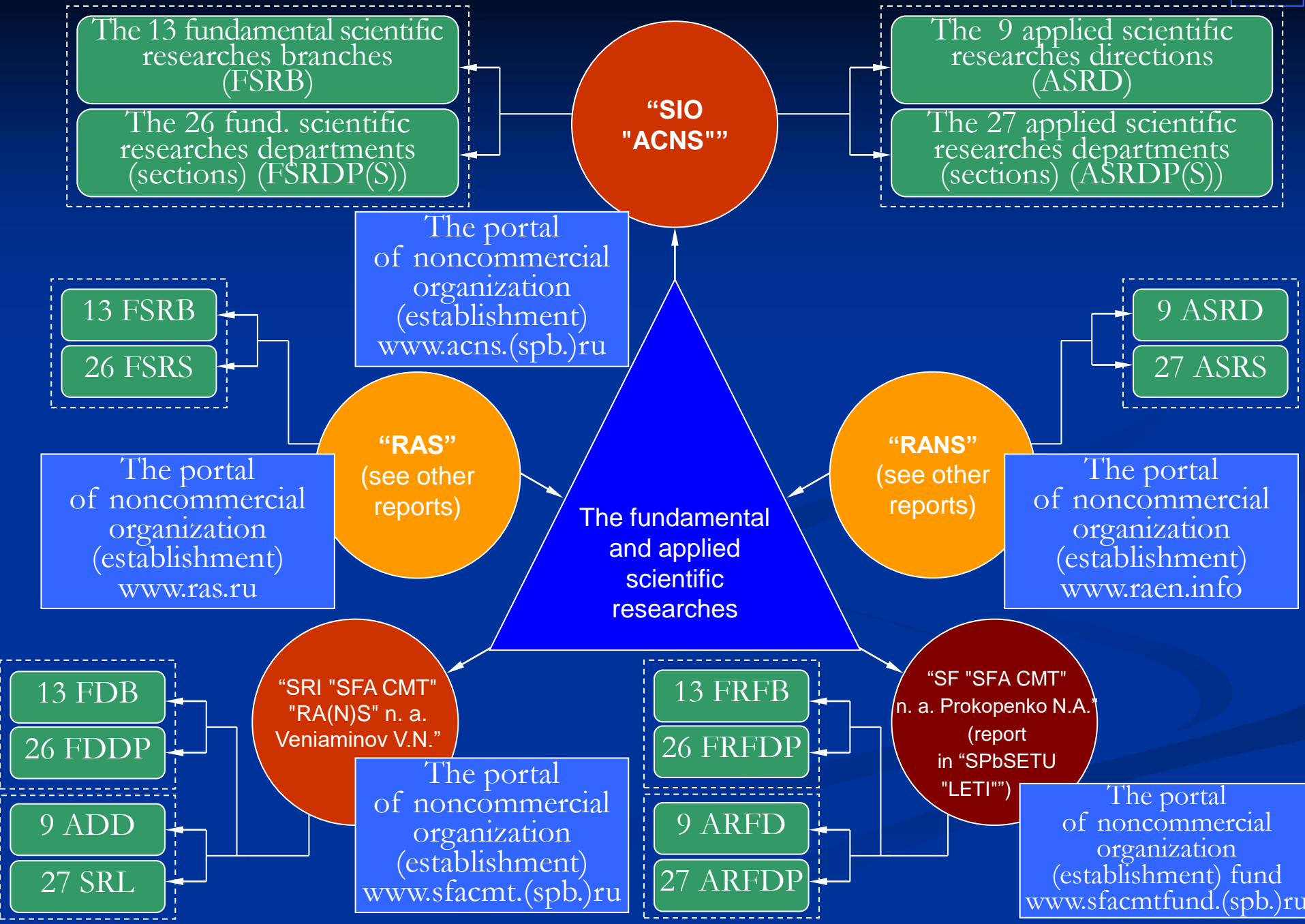## The theme of scientific report:

2. "The fundamental scientific researches financing divisions (at the microscopic level) of "SF "SFA CMT" n. a. Prokopenko N.A.""

3. "The applied scientific researches financing divisions (at the microscopic level) of "SF "SFA CMT" n. a. Prokopenko N.A.""

The section "Educational politics and new technologies of teaching"

The reporter: the author of the unique cognitive modeling technology on spec. 01.02.01, 05.13.01, 05.13.10, 19.00.03, 08.00.10 Vetrov A.N.

The Russian Federation, Saint-Petersburg city, 2013 y.

The divisions of fundamental and applied scientific researches

"SIO "ACNS""

The 13 fundamental scientific researches branches (FSRB)

The 26 fund. scientific researches departments (sections) (FSRDP(S))

The 9 applied scientific researches directions (ASRD)

The 27 applied scientific researches departments (sections) (ASRDP(S))

The portal of noncommercial organization (establishment) www.acns.(spb.)ru

13 FSRB

26 FSRS

9 ASRD

27 ASRS

"RAS" (see other reports)

"RANS" (see other reports)

The portal of noncommercial organization (establishment) www.ras.ru

The portal of noncommercial organization (establishment) www.raen.info

The fundamental and applied scientific researches

"SRI "SFA CMT" "RA(N)S" n. a. Veniaminov V.N."

"SF "SFA CMT" n. a. Prokopenko N.A." (report in "SPbSETU "LETI"")

13 FDB

26 FDDP

9 ADD

27 SRL

13 FRFB

26 FRFDP

9 ARFD

27 ARFDP

The portal of noncommercial organization (establishment) www.sfacmt.(spb.)ru

The portal of noncommercial organization (establishment) fund www.sfacmtfund.(spb.)ru

The fundamental scientific researches financing (management) divisions of "SF "System and financial analysis based on cognitive modeling technology" named after Prokopenko N.A." ("SIO "Academy of cognitive natural sciences"") (F1)

1. The fundamental scientific researches (management) fin. divisions (see "SIO "ACNS"" and "SRI "SFA CMT" of "RA(N)S" n. a. Veniaminov V.N."

the basis for the analysis and increase of efficiency of functioning of the organizational structure

A.1. FRFB – the fundamental researches financing branch [see FDB – the fund. developments (SR – scientific researches) branch] "Cognitive modeling in the mathematical sciences" ("OMN")

A.1.1. FRFDP – the fundamental researches financing department [see FDDP – the fundamental developments department (FSRS(DP) – the fundamental scientific researches section (department))] "The (dev. of) theory of mathematics and the complex system analysis based on the cognitive modeling technology" ("SM") (*)

A.1.2. FRFDP[FDDP(FSRS(DP))] "The (development of) theory of cybernetics and (cognitive) informatics ("SPMI")(*)

A.2. FRFB[FD(SR)B] "Cognitive modeling in the physical sciences" ("OFN")

A.2.1. FRFDP[FDDP(FSRS(DP))] "The (development of) theory of physics, astronomy and space researches" ("SOFA")(*)

A.2.2. FRFDP[FDDP(FSRS(DP))] "The (development of) theory of nuclear physics and physics of nucleus kernel" ("SYF")(*)

Tasks and problems at the micro level

Tasks and problems at the micro level

Note: the scientific researches financing divisions in the field of the system, financial and complex analysis of "SF "SFA CMT" n. a. Prokopenko N.A." ("SIO "ACNS"") at the realization stage

The fundamental scientific researches financing (management) divisions of "SF "System and financial analysis based on cognitive modeling technology" named after Prokopenko N.A." ("SIO "Academy of cognitive natural sciences"") (F2)

1. The fundamental scientific researches (management) fin. divisions (see "SIO "ACNS"" and "SRI "SFA CMT" of "RA(N)S" n. a. Veniaminov V.N."

the basis for the analysis and increase of efficiency of functioning of the organizational structure

A.3. FRFB[FD(SR)B] "Cognitive modeling in the nano-technologies and information technologies" ("ONIT")

A.3.1. FRFDP[FDDP(FSRS(DP))] "The (development of) theory of electronics, radio-engineering and connection" ("SVLTSEB")

A.3.2. FRFDP[FDDP(FSRS(DP))] "The (development of) theory of automatics, computer engineering and the system analysis based on the cognitive modeling technology" ("SITA")(*)

A.3.3. FRFDP[FDDP(FSRS(DP))] "The (development of) theory of nano-technologies for the mechanical-engineering, instrument-making, polygraphy, reprography and foto-cinema-technics, easy and food-processing industry, transport, architecture and construction" ("SNT")(*)

A.4. FRFB[FD(SR)B] "Cognitive modeling in the exact sciences" ("OEMMPU")

A.4.1. FRFDP[FDDP(FSRS(DP))] "The (development of) theory of (theoretical) mechanics and gyroscopes" ("SM")(*)

A.4.2. FRFDP[FDDP(FSRS(DP))] "The (development of) theory of mechanical-engineering, instrument-making and metrology"("SPMPU")

A.4.3. FRFDP[FDDP(FSRS(DP))] "The (development of) theory of power-engineering and electrical-engineering" ("SE")

Tasks and problems at the micro level

Tasks and problems at the micro level

Note: the scientific researches financing divisions in the field of the system, financial and complex analysis of "SF "SFA CMT" n. a. Prokopenko N.A." ("SIO "ACNS"") at the realization stage

The fundamental scientific researches financing (management) divisions of "SF "System and financial analysis based on cognitive modeling technology" named after Prokopenko N.A." ("SIO "Academy of cognitive natural sciences"") (F3)

1. The fundamental scientific researches (management) fin. divisions (see "SIO "ACNS"" and "SRI "SFA CMT" of "RA(N)S" n. a. Veniaminov V.N."

the basis for the analysis and increase of efficiency of functioning of the organizational structure

A.5. FRFB[FD(SR)B] "Cognitive modeling in the industry and chemical sciences" ("OHNM")

A.5.1. FRFDP[FDDP(FSRS(DP))] "The (development of) theory of the easy, food, wood and wood-processing industry, the architecture and constructions, the agricultural, wood, water, fish economy and aqua-culture" ("SNM")(*)

A.5.2. FRFDP[FDDP(FSRS(DP))] "The (development of) theory of chemistry, chemical technology and chemical industry" ("SCHN")

A.6. FRFB[FD(SR)B] "Cognitive modeling in the biological sciences" ("OBN")

A.6.1. FRFDP[FDDP(FSRS(DP))] "The (development of) theory of biology and pharmacology" ("SOB")

A.6.2. FRFDP[FDDP(FSRS(DP))] "The (development of) theory of physical-chemical bio-technology" ("SFCHB")(*)

Tasks and problems at the micro level

Tasks and problems at the micro level

Note: the scientific researches financing divisions in the field of the system, financial and complex analysis of "SF "SFA CMT" n. a. Prokopenko N.A." ("SIO "ACNS"") at the realization stage

The fundamental scientific researches financing (management) divisions of "SF "System and financial analysis based on cognitive modeling technology" named after Prokopenko N.A." ("SIO "Academy of cognitive natural sciences"") (F4)

1. The fundamental scientific researches (management) fin. divisions (see "SIO "ACNS"" and "SRI "SFA CMT" of "RA(N)S" n. a. Veniaminov V.N."

the basis for the analysis and increase of efficiency of functioning of the organizational structure

A.7. FRFB[FD(SR)B] "Cognitive modeling in the physiology, fundamental medicine and public health service" ("OFFM")

A.7.1. FRFDP[FDDP(FSRS(DP))] "The (development of) theory of physiology, bio-physiology and private physiology" ("SF")(*)

A.7.2. FRFDP[FDDP(FSRS(DP))] "The (development of) theory of medicine, public health services, labor safety, environment preservation and ecology of person" ("SFM")(*)

A.8. FRFB[FD(SR)B] "Cognitive modeling in the sciences about The Earth" ("ONZ")

A.8.1. FRFDP[FDDP(FSRS(DP))] "The (development of) theory of geo-physics, geology, mining and metallurgy" ("SGGGGN")

A.8.2. FRFDP[FDDP(FSRS(DP))] "The (development of) theory of oceanology, structure and physics of atmosphere, geodesy, cartography and geography of The Earth and planets" ("SOFAG")

Tasks and problems at the micro level

Tasks and problems at the micro level

Note: the scientific researches financing divisions in the field of the system, financial and complex analysis of "SF "SFA CMT" n. a. Prokopenko N.A." ("SIO "ACNS"") at the realization stage

The fundamental scientific researches financing (management) divisions of "SF "System and financial analysis based on cognitive modeling technology" named after Prokopenko N.A." ("SIO "Academy of cognitive natural sciences"") (F5)

1. The fundamental scientific researches (management) fin. divisions (see "SIO "ACNS"" and "SRI "SFA CMT" of "RA(N)S" n. a. Veniaminov V.N."

the basis for the analysis and increase of efficiency of functioning of the organizational structure

A.9. FRFB[FD(SR)B] "Cognitive modeling in the social sciences" ("OON")

A.9.1. FRFDP[FDDP(FSRS(DP))] "The (development of) theory of social sciences, philosophy, science-study, politics and political sciences, sociology, (cognitive) psychology, state, law and jurisprudential sciences, patenting business, invention and rationalization work" ("SFPSPP")(*)

A.9.2. FRFDP[FDDP(FSRS(DP))] "The (development of) theory of economics and economic sciences, organization, management, statistics and the financial analysis based on the cognitive modeling technology" ("SE")(*)

A.10. FRFB[FD(SR)B] "Cognitive modeling in the global problems and international relations" ("OGPMO")

A.10.1. FRFDP[FDDP(FSRS(DP))] "The (development of) theory of demography, pedagogics and national education, standardization, complex studying of separate countries and regions, general and complex problems of natural, exact, technical, public, applied sciences and manufacture branches" ("SGP")

A.10.2. FRFDP[FDDP(FSRS(DP))] "The (development of) theory of culture and cultural-science, art and art-science, mass communication, journalism and mass media means, religion, internal trade and tourist-excursion service, external trade, transport, housing-communal services, housekeeping and consumer services at the international level" ("SMO")

Tasks and problems at the micro level

Tasks and problems at the micro level

Note: the scientific researches financing divisions in the field of the system, financial and complex analysis of "SF "SFA CMT" n. a. Prokopenko N.A." ("SIO "ACNS"") at the realization stage

The fundamental scientific researches financing (management) divisions of "SF "System and financial analysis based on cognitive modeling technology" named after Prokopenko N.A." ("SIO "Academy of cognitive natural sciences"") (F6)

1. The fundamental scientific researches (management) fin. divisions (see "SIO "ACNS"" and "SRI "SFA CMT" of "RA(N)S" n. a. Veniaminov V.N."

the basis for the analysis and increase of efficiency of functioning of the organizational structure

A.11. FRFB[FD(SR)B] "Cognitive modeling in the historical-philological sciences" ("OIFN")

A.11.1. FRFDP[FDDP(FSRS(DP))] "The (development of) theory of history and historical sciences" ("SI")

A.11.2. FRFDP[FDDP(FSRS(DP))] "The (development of) theory of science of language, (cognitive) linguistics, literature, study of literature and oral national creativity" ("SYL")(*)

Tasks and problems at the micro level

Note: the scientific researches financing divisions in the field of the system, financial and complex analysis of "SF "SFA CMT" n. a. Prokopenko N.A." ("SIO "ACNS"") at the realization stage

The fundamental scientific researches financing (management) divisions of "SF "System and financial analysis based on cognitive modeling technology" named after Prokopenko N.A." ("SIO "Academy of cognitive natural sciences"") (F7)

1. The fundamental scientific researches (management) fin. divisions (see "SIO "ACNS"" and "SRI "SFA CMT" of "RA(N)S" n. a. Veniaminov V.N."

the basis for the analysis and increase of efficiency of functioning of the organizational structure

A.12. FRFB[FD(SR)B] "Cognitive modeling in the sports sciences" ("OSN")

A.12.1. FRFDP[FDDP(FSRS(DP))] "The (development of) theory of competitions, sport and sports sciences" ("STSSSN")

Tasks and problems at the micro level

A.13. FRFB[FD(SR)B] "Cognitive modeling in the military sciences" ("OVN")

A.13.1. FRFDP[FDDP(FSRS(DP))] "The (development of) theory of architecture, construction, technics, history, education, politics and economics in the armed forces" ("STASTIOPEVS")

Tasks and problems at the micro level

Note: the scientific researches financing divisions in the field of the system, financial and complex analysis of "SF "SFA CMT" n. a. Prokopenko N.A." ("SIO "ACNS"") at the realization stage

The applied scientific researches financing (management) divisions of "SF "System and financial analysis based on cognitive modeling technology" named after Prokopenko N.A." ("SIO "Academy of cognitive natural sciences"") (A1)

2. The applied scientific researches (management) fin. divisions (see "SIO "ACNS"" and "SRI "SFA CMT" of "RA(N)S" n. a. Veniaminov V.N."

the basis for the analysis and increase of efficiency of functioning of the organizational structure

B.1. ARFD – the applied researches financing direction
[see ASR(D)D – the applied scientific researches (developments) direction]
"Cognitive modeling in the natural sciences" ("NEN")

B.1.1. ARFDP[ASRS(DP)(SRL)] "The (research of) applications of (cognitive) informatics, cybernetics, automatics, computer engineering, data transmission and connection" ("SIC")(*)

B.1.2. ARFDP[ASRS(DP)(SRL)] "The (research of) applications of mathematics, mathematical physics, mechanics, metrology, astronomy, space researches, the complex system analysis based on CMT and complex problems of natural sciences" ("SMMF")(*)

B.1.3. ARFDP[ASRS(DP)(SRL)] "The (research of) applications of geo-chemical ecology and preservation of environment" ("SNOS")

B.1.4. ARFDP[ASRS(DP)(SRL)] "The (research of) applications of the models of The Earth and The Solar system planets in the geography, geology, geodesy and cartography, astronomy and other sciences" ("SNZ")(*)

B.1.5. ARFDP[ASRS(DP)(SRL)] "The (research of) applications of the models, methods and technologies of geology of oil and gas and oil and gas industry" ("SNG")

B.1.6. ARFDP[ASRS(DP)(SRL)] "The (research of) applications of the system analysis based on CMT, prediction, standardization, unification and complex problems of exact technical sciences" ("SSAP")(*)

B.1.7. ARFDP[ASRS(DP)(SRL)] "The (research of) applications of theor. and exp. physics, geo-physics, power-engineering, electrical-engineering, electronics and radio-engineering, nuclear physics, technics and instrument-making" ("SF")(*)

B.1.8. ARFDP[ASRS(DP)(SRL)] "The (res. of) applications of (non)organic chemistry, crystallography, mineralogy and chemical industry" ("SH")(*)

Tasks and problems at the micro level

Note: the scientific researches financing divisions in the field of the system, financial and complex analysis of "SF "SFA CMT" n. a. Prokopenko N.A." ("SIO "ACNS"") at the realization stage

The applied scientific researches financing (management) divisions of "SF "System and financial analysis based on cognitive modeling technology" named after Prokopenko N.A." ("SIO "Academy of cognitive natural sciences"") (A2)

2. The applied scientific researches (management) fin. divisions (see "SIO "ACNS"" and "SRI "SFA CMT" of "RA(N)S" n. a. Veniaminov V.N."

the basis for the analysis and increase of efficiency of functioning of the organizational structure

B.2. ARFD[ASR(D)D] "Cognitive modeling in the applied technical sciences and technologies" ("NNT")

B.2.1. ARFDP[ASRS(DP)(SRL)] "The (research of) applications of mining and metallurgy" ("SGM")

B.2.2. ARFDP[ASRS(DP)(SRL)] "The (research of) applications of the sciences about wood and wood processing" ("SNL")

B.2.3. ARFDP[ASRS(DP)(SRL)] "The (research of) applications of the noo-sphere knowledge and technologies: the (heavy) mechanical-engineering, instrument-making, polygraphy, reprography and foto-cinema-technics, easy and food-processing industry, transport, architecture, construction and other branches" ("SNZT")(*)

B.2.4. ARFDP[ASRS(DP)(SRL)] "The (research of) applications of the scientific problems of agro-industrial complex" ("SNPAK")

Tasks and problems at the micro level

Note: the scientific researches financing divisions in the field of the system, financial and complex analysis of "SF "SFA CMT" n. a. Prokopenko N.A." ("SIO "ACNS"") at the realization stage

The applied scientific researches financing (management) divisions of "SF "System and financial analysis based on cognitive modeling technology" named after Prokopenko N.A." ("SIO "Academy of cognitive natural sciences"") (A3)

2. The applied scientific researches (management) fin. divisions (see "SIO "ACNS"" and "SRI "SFA CMT" of "RA(N)S" n. a. Veniaminov V.N."

the basis for the analysis and increase of efficiency of functioning of the organizational structure

B.3. ARFD[ASR(D)D] "Cognitive modeling in the geo-political sciences and researches" ("NSGI")

B.3.1. ARFDP[ASRS(DP)(SRL)] "The (research of) applications of geo-politics and safety" ("SGB")

B.3.2. ARFDP[ASRS(DP)(SRL)] "The (research of) applications of classical and military history" ("SVIT")

Tasks and problems at the micro level

B.4. ARFD[ASR(D)D] "Cognitive modeling in the society steady development of post-industrial country" ("NURS")

B.4.1. ARFDP[ASRS(DP)(SRL)] "The (research of) applications of the complex problems of country development" ("SPUR")(*)

Tasks and problems at the micro level

Note: the scientific researches financing divisions in the field of the system, financial and complex analysis of "SF "SFA CMT" n. a. Prokopenko N.A." ("SIO "ACNS"") at the realization stage

The applied scientific researches financing (management) divisions of "SF "System and financial analysis based on cognitive modeling technology" named after Prokopenko N.A." ("SIO "Academy of cognitive natural sciences"") (A4)

2. The applied scientific researches (management) fin. divisions (see "SIO "ACNS"" and "SRI "SFA CMT" of "RA(N)S" n. a. Veniaminov V.N."

the basis for the analysis and increase of efficiency of functioning of the organizational structure

B.5. ARFD[ASR(D)D] "Cognitive modeling in the social-economic and jurisprudential sciences" ("NSEPP")

B.5.1. ARFDP[ASRS(DP)(SRL)] "The (research of) applications of the inter-branch jurisprudential and economic system researches of society and country" ("SMEESI")

B.5.2. ARFDP[ASRS(DP)(SRL)] "The (research of) applications of the complex problems of micro-(macro-)economics, social sphere and market economy of the country" ("SPMSRH").

B.5.3. ARFDP[ASRS(DP)(SRL)] "The (research of) applications of economics, management, sociology, statistics and their other branches" ("SES")

B.5.4. ARFDP[ASRS(DP)(SRL)] "The (research of) applications of the financial analysis, accounting and audit of the (credit) organization based on the cognitive modeling technology" ("SFABUA")(*)

Tasks and problems at the micro level

Note: the scientific researches financing divisions in the field of the system, financial and complex analysis of "SF "SFA CMT" n. a. Prokopenko N.A." ("SIO "ACNS"") at the realization stage

The applied scientific researches financing (management) divisions of "SF "System and financial analysis based on cognitive modeling technology" named after Prokopenko N.A." ("SIO "Academy of cognitive natural sciences"") (A5)

2. The applied scientific researches (management) fin. divisions (see "SIO "ACNS"" and "SRI "SFA CMT" of "RA(N)S" n. a. Veniaminov V.N."

the basis for the analysis and increase of efficiency of functioning of the organizational structure

B.6. ARFD[ASR(D)D] "Cognitive modeling in the biological and medical sciences" ("NBME")

B.6.1. ARFDP[ASRS(DP)(SRL)] "The (research of) applications of biology, ecology and physiology of plants" ("SBE")

B.6.2. ARFDP[ASRS(DP)(SRL)] "The (research of) applications of bio-technology, bio-medicine, ergonomics and labor safety of organic individuals" ("SB")(*)

B.7. ARFD[ASR(D)D] "Cognitive modeling in the humanitarian sciences, art and creativity" ("NGNOT")

B.7.1. ARFDP[ASRS(DP)(SRL)] "The (research of) applications of (cognitive) linguistics, (national) creativity, culture, art and religion" ("SGNT")(*)

B.7.2. ARFDP[ASRS(DP)(SRL)] "The (research of) applications of literature, science-study, philosophy, journalism and mass communication means" ("SLPZ")

B.7.3. ARFDP[ASRS(DP)(SRL)] "The (research of) applications of the problems of (cognitive) psychology, education, science and supports of young scientists (the grants programs and others)" ("SPOPMU")(*)

B.7.4. ARFDP[ASRS(DP)(SRL)] "The (research of) applications of the innovations of the project "The Russian encyclopedias", philosophy of science, technics and technology on branches of knowledge" ("SRE")

Tasks and problems at the micro level

Tasks and problems at the micro level

Note: the scientific researches financing divisions in the field of the system, financial and complex analysis of "SF "SFA CMT" n. a. Prokopenko N.A." ("SIO "ACNS"") at the realization stage

The applied scientific researches financing (management) divisions of "SF "System and financial analysis based on cognitive modeling technology" named after Prokopenko N.A." ("SIO "Academy of cognitive natural sciences"") (A6)

2. The applied scientific researches (management) fin. divisions (see "SIO "ACNS"" and "SRI "SFA CMT" of "RA(N)S" n. a. Veniaminov V.N."

the basis for the analysis and increase of efficiency of functioning of the organizational structure

B.8. ARFD[ASR(D)D] "Cognitive modeling in the physical training and sport" ("NFS")

B.8.1. ARFDP[ASRS(DP)(SRL)] "The (research of) applications of sport, sports sciences and actions" ("SSSNM")

Tasks and problems at the micro level

B.9. ARFD[ASR(D)D] "Cognitive modeling in the military sciences" ("NVN")

B.9.1. ARFDP[ASRS(DP)(SRL)] "The (research of) applications of architecture, construction, technics, history, education, politics and economics in the armed forces" ("SASTIOPEVC")

Tasks and problems at the micro level

Note: the scientific researches financing divisions in the field of the system, financial and complex analysis of "SF "SFA CMT" n. a. Prokopenko N.A." ("SIO "ACNS"") at the realization stage