

STCU Funding Table

42nd Governing Board

5-6 April 2016



#	Country Code	City	Full Title	Leading Institution	Requested Funds	USA (US \$)	European Union (EURO)	Other (US \$)	Total Funding (US \$)	Total Funding (US \$ + EURO)	Comments Conditions
9808	UA	Kyiv	Provision of Specialized CBRN Equipment for Training First Responders in the SEE CoE Region		€ 1,697,563		€ 1,697,563			€ 1697563	US:2 EU:5
Subtotal Projects Approved:					\$0 €1,697,563	\$0	€ 1,697,563	\$0	\$0	€ 1,697,563	
6097	MD	Chisinau	Biological, chemical and biotechnological researches of Carthamus spp. plants	Institute of Genetics and Plant Physiology	\$50,000	\$25,000			\$25,000	\$ 25000	US:5 EU:2
6098	MD	Chisinau	Design&development of diffractive optical elements based on azopolymers for application in biophotonics and optoelectronics	Institute of Applied Physics	\$50,000	\$25,000			\$25,000	\$ 25000	US:5 EU:2
6100	MD	Chisinau	HPC implementations of unconventional computing solutions for problems of medical imaging	Institute of Mathematics and Computer Science	\$49,210						US:2 EU:2
6101	MD	Chisinau	Electrochemical and computational reconsideration of the vitamin B12 enzyme activity mechanism	Institute of Chemistry of ASM	\$50,000						US:2 EU:2
6102	MD	Chisinau	Sustainable energy development - elaboration of the main components for the transient period	Institute of Applied Physics	\$50,000						US:2 EU:2
6103	MD	Chisinau	Synthesis and study of layered semiconductor nanostructures by electrochemistry-assisted laser ablation in liquids	Institute of Applied Physics	\$50,000						US:2 EU:2
6107	MD	Chisinau	Synthesis of new biologically active terpenoids based on agricultural wastes	Institute of Chemistry	\$49,992						US:2 EU:2
6108	MD	Chisinau	Information system for gender audit of enterprises	National Institute for Economic Research	\$49,978						US:2 EU:2
6110	MD	Chisinau	Modeling of Back-to-Back AC Link for interconnection of asynchronized power systems	Institute of Power Engineering of the Academy of Sciences of Moldova	\$49,954						US:2 EU:2
6111	MD	Chisinau	Holographic and electron beam recording of diffractive structures in chalcogenide thin films	Institute of Applied Physics	\$49,868						US:2 EU:2
6112	MD	Chisinau	Health self-assessment informational tools for individuals predisposed to preventable strokes	Institute of Mathematics and Computer Science	\$49,994						US:2 EU:2
6114	MD	Chisinau	Adapting technological process and equipment of solid biofuels production based on the physico-chemical modeling	Institute of Agricultural Technique "Mecagro"	\$50,116						US:2 EU:2

1. Review Incomplete
2. Review Complete - No willingness to fund
3. Rewrite / resubmit - see comments
4. Same as 3

5. Approved for funding.
See comments
6. Proj. Dev Grant awarded
7. N/A

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6117	MD	Chisinau	Nanocomposite Polymer/Organic Compounds with Rare Earth Ions for Photovoltaic Applications	Institute of Applied Physics	\$50,000	\$25,000			\$25,000	\$ 25000	US:5 EU:2
6118	MD	Chisinau	Transition metal complexes with functionalized (thio)semicarbazone ligands as catalysts for oxidation of hydrocarbons and alcohols	Institute of Chemistry	\$49,974						US:2 EU:2
6119	MD	Chisinau	Electromagnetic stimulation of biological objects in chaotic regime-experiment and theory	Gitsu D.V. Institute of Electronic Engineering and Nanotechnologies	\$50,000						US:2 EU:2
6121	MD	Chisinau	Tuberculosis in Household Contacts in Republic of Moldova	Institute of Phthisiopneumology "Chiril Draganiuc"	\$50,000	\$25,000			\$25,000	\$ 25000	US:5 EU:2
6122	MD	Chisinau	Phonon engineered heat management in graphene-based materials for nanoelectronics and thermal energy-storage applications	State University of Moldova	\$50,000						US:2 EU:2
6123	MD	Chisinau	Electronic transformer for individual distribution of electricity	Institute of Power Engineering of the Academy of Sciences of Moldova	\$49,954						US:2 EU:2
6124	MD	Chisinau	Development of decision support system for apple orchards integrated pest management	Institute of Genetics and Plant Physiology	\$47,665						US:2 EU:2
6127	MD	Chisinau	"Small to medium size wind turbines"	Institute of Power Engineering of the Academy of Sciences of	\$49,991						US:2 EU:2
6128	MD	Chisinau	In vitro conservation and sustainable use of potato landrace in the Republic of Moldova	Institute of Genetics, Physiology and Plant Protection	\$49,964						US:2 EU:2
6129	MD	Chisinau	Biotechnology developing of the immune response correction to ionizing radiation action	National Center of Public Health	\$49,911						US:2 EU:2
6130	MD	Chisinau	Quantifying Of The Radon And Its Descendants Concentration In Various Types Of Housing From Urban's And Rural Major Geographical Regions Of The Republic Of Moldova	National Center of Public Health	\$49,181						US:2 EU:2
6133	MD	Chisinau	Thermochromic VO2-based nanocomposite thin films for energy-efficient windows	Gitsu D.V. Institute of Electronic Engineering and Nanotechnologies	\$49,230	\$24,615			\$24,615	\$ 24615	US:5 EU:2
6134	MD	Chisinau	Pyrometrical temperature control system in metal casting processes	Gitsu D.V. Institute of Electronic Engineering and Nanotechnologies	\$50,000						US:2 EU:2

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6136	MD	Chisinau	Increasing of the yield of vegetable crops using a cavitation presowing treatment of seeds	Institute of Applied Physics	\$49,995						US:2 EU:2
6137	MD	Chisinau	Modeling of the solids' loading process for solution of applied problems using HPC resources	Institute of Mathematics and Computer Science	\$49,954						US:2 EU:2
6138	MD	Chisinau	Development of Innovative inhibition methods in endogen synthesis of carcinogenic compounds obtained after nitrosation of drugs	State University of Moldova	\$49,524						US:2 EU:2
6139	MD	Chisinau	Development of a new formulation of bicarbonate-based fungicide to control diseases of vegetables	Institute of Genetics, Physiology and Plant Protection	\$49,977						US:2 EU:2
6140	MD	Chisinau	Optoelectronic effects in modernization of advanced implants	Institute of Applied Physics	\$50,000		€ 22,078			€ 22078	US:2 EU:5
6148	AZ	Baku	Fabrication and investigations of thin film solar cells based kesterites	Institute of Physics	\$99,994	\$49,997			\$49,997	\$ 49997	US:5 EU:2
6149	AZ	Baku	"Development of high efficient solar cells based on (CuInSe ₂) 1-x (MnSe) _x compounds"	Institute of Physics of the National Academy of Sciences of Azerbaijan	\$50,000						US:2 EU:2
6150	AZ	Baku	Mathematical modeling to improve photovoltaic efficiency of thin film heterojunction solar cells	Institute of Radiation Problems	\$100,000	\$50,000			\$50,000	\$ 50000	US:5 EU:2
6151	AZ	Baku	Detection of antitumor properties of bioactive components of venom of the honeybee Apis mellifera Caucasia	Institute of Zoology ANAS	\$49,980						US:2 EU:2
6152	AZ	Baku	Ways to increase efficiency of oil&gas production: evaluation and use of associated geothermal energy	Institute of Geology	\$99,968						US:2 EU:2
6153	AZ	Baku	Earthquakes impact to oil and gas debit in seismically active regions of Azerbaijan	The Republican Centre of Seismological Survey	\$99,996						US:2 EU:2
6154	AZ	Baku	Regulating WRKY networks to increase crop yield in changing climates	Institute of Botany National Academy of Sciences of Azerbaijan Republic	\$100,000	\$50,000			\$50,000	\$ 50000	US:5 EU:2
6155	AZ	Baku	Synthesis of nano fertilizers and possibilities of their use for plants growing in saline soils	Institute of Catalysis and Inorganic Chemistry	\$99,986						US:2 EU:2
6156	AZ	Baku	Strengthening sustainable use of plant genetic resources by integral use of information and genomic technologies	Institute of Genetic Resources (ANAS)	\$98,674		€ 43,569			€ 43569	US:2 EU:5

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6157	AZ	Baku	The possibilities of use of some biogenic compounds of metals as the microfertilizers	Institute of Soil Science and Agro Chemistry	\$50,000						US:2 EU:2
6158	AZ	Baku	Design of novel Topological Insulators based on the chalcogenides of some heavy p-metals	Institute of Catalysis and Inorganic Chemistry	\$100,000						US:2 EU:2
6159	AZ	Baku	The study of biological properties and purchase of a new hepatoprotectors containing of nanometal species	A.I.Karaev Institute of Physiology	\$100,000	\$50,000			\$50,000	\$ 50000	US:5 EU:2
6160	AZ	Baku	"Development of purification method of oil-contaminated soil of absheron peninsula"	Special Design Egeineering Office on complex treatment of mineral raw materials	\$100,000						US:2 EU:2
6161	AZ	Baku	Integrated (Geological-Geophysical, Geochemical) Research And An Assessment Of The Prospects For Oil Shale Development Azerbaijan	Institute of Geology	\$99,996						US:2 EU:2
6162	AZ	Baku	Investigations of energy transformations through the organic wastewater microorganisms into electricity	Institute of Microbiology	\$97,926						US:2 EU:2
6163	AZ	Baku	Prospects of shale hydrocarbons of the Maykopian series of Azerbaijan	Institute of Geology	\$99,795						US:2 EU:2
6164	UA	Kyiv	Technology of simulation of super-density recording at nanoscale multilevel media	Institute of Data Recording Problems	\$99,000						US:2 EU:2
6165	UA	Kyiv	Information and technological support for greenhouse effect impact assessment on regional climate using remote sensing	Scientific Centre for Aerospace Research of the Earth of Institute of Geological Sciences of National Academy of Scienses	\$100,000	\$50,000			\$50,000	\$ 50000	US:5 EU:2
6166	UA	Nizhin	Development of information technologies for modeling, evaluation and forecasting impact of conflicts and proliferation threats	Educational-scientific complex "Institute for applied system analysis" of National Academy of Science of Ukraine and	\$99,982		€ 44,146			€ 44146	US:2 EU:5
6168	UA	Kyiv	Obtaining and characterization of luminescent cadmium sulfide myconanoparticles	Institute of Food Biotechnology and Genomics	\$100,000						US:2 EU:2
6169	UA	Kyiv	Complete set of bioactive ceramics for bone restoration -development and implementation into Ukrainian surgery practice	I.M. Frantsevich Institute of Problems of Materials Science	\$100,000						US:2 EU:2

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6170	UA	Kyiv	New multifunctional nanostructured multiferroics based solid solutions with a giant magnetoelectric response at room temperature	I.M. Frantsevich Institute of Problems of Materials Science	\$100,000						US:2 EU:2
6171	UA	Kyiv	Portable laser fluorimeter based on nanostructured MIP membranes for detection of aflatoxin ultralow	Institute of Molecular Biology and Genetics	\$99,906						US:2 EU:2
6172	UA	Kyiv	Nanobioelectronic sensors based on semiconductor nanocrystals and nucleic acids for genetic and infectious diseases diagnosis	V.E. Lashkaryov Institute of Semiconductor Physics	\$100,000						US:2 EU:2
6173	UA	Kyiv	Ionic-plasma treatment of nano-structural materials to modify their functional properties	V. N. Bakul Institute for Superhard Materials	\$100,000						US:2 EU:2
6174	UA	Kyiv	Functional nanostructured semiconductor glass-ceramics for TELECOM use modified by femtosecond laser	Institute of Physics, NAS of Ukraine	\$99,818	\$49,909			\$49,909	\$ 49909	US:5 EU:2
6175	UA	Kyiv	Graphene-like materials and nanocomposites based thereon: mechanochemical preparation, structure, properties, functional	L.V. Pisarzhevsky Institute of Physical Chemistry	\$99,991		€ 44,150			€ 44150	US:2 EU:5
6176	UA	Kyiv	Transformation of magnetic properties of nanoscale iron oxides and hydroxides for optimization of iron-ore-concentrate production	M. P. Semenenko Institute of geochemistry, mineralogy and ore formation NASU	\$100,000		€ 44,154			€ 44154	US:2 EU:5
6177	UA	Kyiv	Application of functional nanomaterials for creation of biosensor conductometric devices for arginine detection	Institute of Molecular Biology and Genetics	\$100,000		€ 44,154			€ 44154	US:2 EU:5
6178	UA	Kharkiv	Activated carbon featuring specific surface area at least 2000 m2/g for medical and industrial applications	Gas Institute of NAS of Ukraine	\$100,000						US:2 EU:2
6179	UA	Kharkiv	New generation of nanoemitters based on carbonyne	G.V. Kurdyumov Institute for Metal Physics	\$100,000						US:2 EU:2
6180	UA	Kyiv	New Bio-Functionalized Luminescent Nanocomposites And Express Methods For Selective Recognition, Labeling, Separation Of Biological Objects	Institute of Molecular Biology and Genetics of National Academy of Sciences of Ukraine	\$100,000						US:2 EU:2
6181	UA	Kharkiv	Development of nano-composite biomaterials for tissue engineering and nuclear medicine using high-gradient electrical field	National Science Center "Kharkiv Institute of Physics and Technology"	\$100,000						US:2 EU:2

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6182	UA	Mykolaiv	Design of Electric Discharge Technology for Multifunctional Carbon Nanomaterials Synthesis	Institute of Pulse Research and Engineering	\$100,000						US:2 EU:2
6183	UA	Kharkiv	Development of plasma surface modification techniques on the basis of combined arc plasma and high-frequency	National Science Center "Kharkiv Institute of Physics and Technology"	\$100,000	\$50,000			\$50,000	\$ 50000	US:5 EU:2
6184	UA	Kharkiv	Gamma-Radiation Detector Based on High-Pressure Xenon	National Science Center "Kharkiv Institute of Physics and Technology"	\$100,000	\$50,000			\$50,000	\$ 50000	US:5 EU:2
6185	UA	Kharkiv	Investigation of biomarkers using SPR-biosensor for evaluation of tumor chemoresistance and prognosis of breast cancer	R.E. Kavetsky Institute of Experimental Pathology, Oncology and Radiobiology	\$98,000						US:2 EU:2
6186	UA	Kyiv	Investigation of bacterial aminoacyl-tRNA synthetases structural features and development of their inhibitors as potential antibiotics	Institute of Molecular Biology and Genetics	\$100,000						US:2 EU:2
6187	UA	Kyiv	Computer modeling of active site dynamics of Mycobacterium tuberculosis tyrosyl-tRNA synthetase and design of enzyme inhibitors	Institute of Molecular Biology and Genetics	\$65,814						US:2 EU:2
6188	UA	Dnipropetrovsk	In silico metabolic modelling of the yeast Hansenula polymorpha for the improvement of xylose fermentation	Institute of Cell Biology NAS of Ukraine	\$100,000		€ 44,154			€ 44154	US:2 EU:5
6190	GE	Tbilisi	Genetic Diversity among Georgian Endemic Wheats and Their Predecessors by Chloroplast DNA Nucleotide Sequence Analysis	Agricultural University of Georgia	\$70,000						US:2 EU:2
6191	GE	Tbilisi	Electronic properties of nanograting layers	Ilia Chavchavadze State University	\$69,950		€ 30,886			€ 30886	US:2 EU:5
6192	GE	Tbilisi	Strategies for microbial and enzymatic remediation of emerging organic pollutants	Agricultural University of Georgia	\$69,980		€ 30,899			€ 30899	US:2 EU:5
6193	GE	Kutaisi	Study of nontraditional raw materials and fermentation microbiota for biotechnology of gluten-free bakery	Akaki Tsereteli State University	\$70,000						US:2 EU:2
6194	GE	Tbilisi	Stock assessment and parasitological study of anchovy in Black sea aquatory of Georgia	Ilia State University. Tbilisi, Georgia	\$69,732						US:2 EU:2
6195	GE	Tbilisi	Logical gates for quantum computing induced from monodromy based on a three-level system	Georgian Technical University	\$69,580						US:2 EU:2

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7. N/A
8. Review complete - to be considered at next GBM

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6196	GE	Tbilisi	The Complex Protection of Vegetables from New Invasive Pest Insects in Greenhouses of Georgia	Agricultural University of Georgia, L. Kanchaveli Institute of Plant Protection	\$70,000						US:2 EU:2
6197	GE	Tbilisi	Realization of Real World Logic Gates for All Optical Computing	Free University of Tbilisi	\$70,000						US:2 EU:2
6198	GE	Tbilisi	Synthesis and Investigation of Advanced Nanosize Multiferroic Materials for	Tbilisi I. Javakishvili State University	\$69,984		€ 30,901			€ 30901	US:2 EU:5
6199	GE	Tbilisi	Plasma Reactor with Stationary, Stable Current and Variable Electric Arc Length for Nanotechnology	Tbilisi I. Javakishvili State University	\$70,000						US:2 EU:2
6200	GE	Tbilisi	Ecological audit of oil contaminated sites, study of impact on health, development of prevention measures	St. Andrew First Called Georgian National University	\$69,952						US:2 EU:2
6202	GE	Tbilisi	Drug delivering nanocontainers from biodegradable poly(ester urea)s: preparation and in vitro and in vivo	Agricultural University of Georgia	\$69,988						US:2 EU:2
6203	GE	Tbilisi	Intelligent Support System of Facility Optimal Location in Extreme and Uncertain Environment	Tbilisi I. Javakishvili State University	\$69,954						US:2 EU:2
6204	GE	Tbilisi	Development of new technologies for the growth of nanowires and fabrication of ultra-sensitive gas sensors	Georgian Technical University, Institute of Cybernetics	\$69,900		€ 30,864			€ 30864	US:2 EU:5
6205	GE	Tbilisi	Impact of pesticides on soil ecosystem functioning - effect on soil invertebrate fauna	Agricultural University of Georgia	\$69,920		€ 30,872			€ 30872	US:2 EU:5
6206	GE	Tbilisi	Development of the Technology of Plant Biomass Anaerobic Conversion to Fuel Ethanol	Agricultural University of Georgia, Durmishidze Institute of Biochemistry and Biotechnology	\$70,000		€ 30,908			€ 30908	US:2 EU:5
6207	GE	Tbilisi	Investigation of luminescence blinking in nanostructures	Tbilisi I. Javakishvili State University	\$69,776		€ 30,808			€ 30808	US:2 EU:5
6208	GE	Kutaisi	Investigation of Membrane Process of Producing Ethanol from Biomass for Manufacturing of High-Performance	Akaki Tsereteli State University	\$70,000						US:2 EU:2
6209	GE	Tbilisi	Phage-based environmentally safe strategy for control of bacterial infections in cultured freshwater fish species	G. Eliava Institute of Bacteriophage, microbiology and virology	\$70,000		€ 30,908			€ 30908	US:2 EU:5
6210	GE	Tbilisi	Production and investigation of carbon nanoforms and their new nanocompositions doped with magnetic clusters	Georgian Technical University	\$70,000		€ 30,908			€ 30908	US:2 EU:5

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See comments
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6211	GE	Tbilisi	Nanomolecular Study of Photoinduced Processes in DNA by Spectroscopic, Thermodynamic and Hydrodynamic Methods	Tbilisi I. Javakishvili State University	\$69,931						US:2 EU:2
6212	GE	Tbilisi	Graphene structure containing hybrid ceramic composites based on alumina	I. Vekua Sukhmy Institute of Physics and Technology	\$69,968		€ 30,894			€ 30894	US:2 EU:5
6213	GE	Tbilisi	Production of magnetic nanofluids and study of their magnetic and hyperthermia properties	Tbilisi I. Javakishvili State University	\$70,000		€ 30,908			€ 30908	US:2 EU:5
6214	GE	Tbilisi	Molecular detection of honeybee viruses in commercially managed honeybee colonies	Georgian State Agriculture University	\$69,424						US:2 EU:2
6215	GE	Tbilisi	Natural Food Additives for Healthy Foods	Agricultural University of Georgia, Durmishidze Institute of Biotechnology	\$70,000						US:2 EU:2
6216	GE	Tbilisi	Influence of municipal solid waste landfill on the environment and population health risk assessment	Tbilisi I. Javakishvili State University	\$69,996						US:2 EU:2
Subtotal Targeted R&D Init. Projects Approved:					\$7,121,293	\$524,521	€ 626,161	\$0	\$524,521	\$ 524521 € 626161	
P003q	UA	Kyiv	Extension of the Pilot study on thyroid cancer in cleanup workers	Research Center for Radiation Medicine	\$39,986	\$39,986			\$39,986	\$ 39986	US: EU:
P004q	UA	Kyiv	Thyroid cancer and other thyroid disorders in Ukraine following the Chernobyl accident: the cohort maintenance	Institute of Endocrinology and Metabolism	\$9,345	\$9,345			\$9,345	\$ 9345	US: EU:
P507d	UA	Kharkiv	Installation and commissioning of injector system for the second HIBP diagnostic on TJ-II stellarator	National Science Center "Kharkiv Institute of Physics and Technology"	€ 12,596		€ 12,596			€ 12596	US: EU:
P515a	UA	Kharkiv	Development of Fuel Rod and Fuel Assembly Design and Manufacturing Technology for the Sub-Critical Assembly, and Their Testing to Substantiate Their Reliability and Safety	National Science Center "Kharkiv Institute of Physics and Technology"	\$80,000	\$80,000			\$80,000	\$ 80000	US: EU:
P548	UA	Kharkiv	Fluorescent Probes and Labels for Biomedical Applications	State Scientific Institution "Institute for Single	\$41,186	\$41,186			\$41,186	\$ 41185.79	US: EU:
P572a	UA	Kharkiv	Refinement of scintillator's quality by improvement of raw materials quality and growth technology	Amcrys Ltd.	\$367,710			\$367,710	\$367,710	\$ 367710	US: EU:

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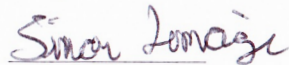
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See comments
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STCU Funding Table 42nd Governing Board 5-6 April 2016

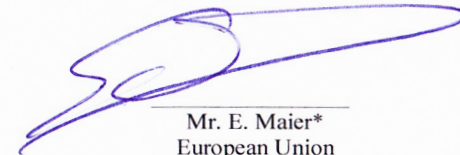


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P624	UA	Kyiv	Development of method and apparatus for 3D imaging of electrophysiological activity of biological tissues	V.M. Glushkov Institute of Cybernetics	€ 17,010		€ 17,010			€ 17010	US: EU:
P645	UA	Dnipropetrovsk	Modelling thermostatic control of storage batteries at low temperatures	National Metalurgical Academy of Ukraine	\$12,000	\$12,000			\$12,000	\$ 12000	US: EU:
P654	UA	Kharkiv	Ferroelectric liquid crystals and anisometric nanoparticles for advanced information displays and photonic technologies	State Scientific Institution "Institute for Single Crystals", National Academy of Science of Ukraine	\$14,207			\$14,207	\$14,207	\$ 14207	US: EU:
P662	UA	Kharkiv	Development of Magnetron and its Power Supply	Institute of Radio Astronomy	\$15,807			\$15,807	\$15,807	\$ 15807	US: EU:
P665	UA	Kyiv	Mathematical Modeling of Planing on a Cavity Surface Including Experimental Validation	Institute of Hydromechanics	\$90,000	\$90,000			\$90,000	\$ 90000	US: EU:
P677	UA	Kyiv	Infrastructure improvement for radioactive waste management in Ukraine (U4.01/12 B + C + D)	Ukrainian Atom Instruments and System Corporation	€ 102,620		€ 102,620			€ 102620	US: EU:
Subtotal Partner Projects Approved:					\$670,241 € 132,226	\$272,517	€ 132,226	\$397,724	\$670,241	\$ 670240.79 € 132226	
TOTAL:					\$7,691,534 € 1,829,789	\$797,038	€ 2,455,950	\$397,724	\$1,194,762	\$ 1194761.79 € 2455950	

Status 4 - Comments: For the following projects: 6097, 6098, 6154, 6159, 6191, 6206, 6210, and 6213 the Parties agreed to exchange funding commitments in order to accommodate budgetary and project implementation deadlines.


Mr. S. Limage*
USA
Board Member


Mr. M. Strikha*
Ukrainian
Board Member


Mr. E. Maier*
European Union
Board Member

* Funding for selected projects is approved by the Governing Board, but subject to the availability of the funds by each Board member.

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