

### Ranking list of proposals not recommended for funding

<b>Programme/call: Programme "Applied research" under the Norwegian Financial Mechanisms 2014 – 2021 / Small Grant Scheme Call</b> <b>Thematic areas: not applicable</b> <b>Submission dates: 28.09-11.12.2020</b>					
No.	Acronym	Applicant / Project Promoter	Project title	Total points	Status of the proposal
1	HybridSAR4Mining	Uniwersytet Przyrodniczy we Wrocławiu	Fusion of multisensor and multitechnique SAR measurements to determine 3D deformation field caused by underground exploitation.	22	not recommended for funding
1	GEOID-POL	Instytut Geodezji i Kartografii	Developing a highly accurate quasigeoid model required for the definition of a new vertical reference frame for Poland	22	not recommended for funding
1	Trajectories	Warsaw University of Technology	Determination of aircraft flight mapping models in order to optimize the trajectory for the new organization of aircraft traffic	22	not recommended for funding
1	SubpixRes	AGH University of Science and Technology	Development of X-ray detector of subpixel resolution.	22	not recommended for funding
1	MODOIL	Łukasiewicz Research Network - Institute for Engineering of Polymer Materials and Dyes	New products based on renewable raw materials, including vegetable oils, as components of polymer materials and organic coatings	22	not recommended for funding
2	COLLAYER	Wrocław University of Science and Technology	Novel collagen-based inks for 3D printing of personalized ECM-mimicking anisotropic wound dressings	22	not recommended for funding
2	PEEK-BIO-3D	Jerzy Haber Institute of Catalysis and Surface Chemistry Polish Academy of Sciences	Modification of PEEK 3D printed scaffolds for biointegration enhancement	22	not recommended for funding
2	COgData	Uniwersytet Pedagogiczny im. Komisji Edukacji Narodowej w Krakowie	Machine learning methods application for modelling cognitive processes based on eye tracking data	22	not recommended for funding

2	GRANPAVE	Instytut Podstawowych Problemów Techniki PAN	Effect of de-icing agents based on chlorides and formates on the alkali-silica potential in concrete pavement containing aggregate from plutonic rocks	22	not recommended for funding
2	PK-photo-RAFT	Cracow University of Technology	Design, synthesis and investigation of metal-free organic photocatalysts and photoiniferters for photoinduced reversible addition-fragmentation chain transfer processes (photo-RAFT) under visible and NIR light	22	not recommended for funding
2	EOSL	Jan Dlugosz University in Czestochowa	Optically stimulated luminescence (OSL) reader "Eos" - a portable device for passive dosimetry	22	not recommended for funding
12	FiberTech	Wroclaw University of Science and Technology	Development of fabrication technologies of fiber optic components for lasers and amplifiers	22	not recommended for funding
12	AgroBioFuel	Politechnika Opolska	Development of novel agro biomass-based fuels for small scale boilers with support of computational intelligence	22	not recommended for funding
14	RC-CRACK	Silesian University of Technology	Development of technology towards tight reinforced concrete containments for hazardous liquids and radioactive materials	21,5	not recommended for funding
14	LSGS	Jagiellonian University	Intraoperative real-time brain tumor imaging with application of Laser Speckle Contrast Imaging	21,5	not recommended for funding
14	BIOPEEK	Iganacy Lukasiewicz Rzeszow University of Technology	Innovative PEEK-based bone implant material with enhanced biocompatibility generated via eco-friendly metal-free ATRP approach	21,5	not recommended for funding
14	ShellUFG	Warsaw University of Technology	Incremental Forming of Ultrafine Grained Aluminum Sheets	21,5	not recommended for funding
14	HybMat	Uniwersytet im. Adama Mickiewicza w Poznaniu/Adam Mickiewicz University, Poznań	Novel hybrid materials for controlled release of active compounds - technology development	21,5	not recommended for funding
14	WasteCarb	Wrocław University of Science and Technology	Development and application of a multifunctional carbon adsorbent from organo-mineral wastes	21,5	not recommended for funding

14	SSCANNOC	Politechnika Lubelska	Superhydrophobic self-cleaning architectural concrete modified with nanocellulose, gas nanobubbles and organosilicon compounds	21,5	not recommended for funding
14	Multi-AFM	AGH Univeristy of Science and Technology	Multilevel magnetic memory based on antiferromagnets	21,5	not recommended for funding
14	AMSL	Gdańsk University of Technology	AI for managing sustainable land use and shaping mobility patterns	21,5	not recommended for funding
14	GRID-Wall	Silesian University of Technology	An innovative approach to improve the shear parameters of AAC masonry walls using non-structural materials	21,5	not recommended for funding
24	BioPOPLift	Politechnika Krakowska im. Tadeusza Kościuszki	BioPOPLift - innovative scaffolds with advanced properties for pelvic organ prolapse (POP) treatment	21,5	not recommended for funding
25	DirectCare	Nalecz Institute of Biocybernetics and Biomedical Engineering Polish Academy of Sciences	Direct-printed biosensor for glutamate detection	21,5	not recommended for funding
26	ENABLER	Nicolaus Copernicus University in Toruń	Novel low-cost diagnostic tool enabling ophthalmic imaging of opacified eyes	21	not recommended for funding
26	MODERN	Sieć Badawcza Łukasiewicz - Instytut Lotnictwa	MethOds of Design, optimization, and wind tunnEL testing of an aeRoelastic wiNg	21	not recommended for funding
28	POLPREVSLURRIES	AGH University of Science and Technology	Pollution prevention: New cement slurries for improving wellbore integrity in gas well, especially in aggressive condition.	21	not recommended for funding
29	EnviroEmo	Wroclaw University of Science and Technology	Method of indoor environment monitoring in view of remote workers emotional states	21	not recommended for funding
29	aGROTor	Instytut Chemicznej Przeróbki Węgla	Thermochemical valorization of agriculture biomass to their application as energy source in domestic heating systems	21	not recommended for funding
29	RoboMusicTutor	Instytut Badań Systemowych PAN	A Prototype Robot-Assistant to Practice Musical Instruments	21	not recommended for funding
29	MICROCOSM	Warsaw University of Technology	Development of microbiological technology for the production of innovative cosmetic raw materials	21	not recommended for funding

29	HexaPer	Gdańsk University of Technology	Hexagonal perovskites - the structure and mixed conductivity in doped A4B2O9 oxides	21	not recommended for funding
34	NatFibersBiocomposit	Kazimierz Wielki University	Natural fibers reinforced biocomposites modified by biocidal agents	21	not recommended for funding
34	Perfect-GaN	Instytut Wysokich Ciśnień Polskiej Akademii Nauk	Ammonothermally-grown Gallium Nitride: on the Way to Structurally Perfect Bulk Crystals	21	not recommended for funding
34	ZIRCONI	Łukasiewicz Research Network - Institute of Non-Ferrous Metals	Research on the production of an innovative composite material with zirconium dioxide recycled from waste from the coating sputtering process	21	not recommended for funding
37	AirSafetySim	Warsaw University of Technology	Simulation method for analysing the safety of airport traffic	20,5	not recommended for funding
38	COFFECLIMATE	Czestochowa University of Technology	Innovative technology for the production of adsorbents from spent coffee grounds for climate and environmental protection	20,5	not recommended for funding
39	FFSaRM	Instytut Badawczy Dróg i Mostów / Road and Bridge Research Institute	Fitness for Service and Risk Management for Railway Bridges Using Reliability Approach	20,5	not recommended for funding
39	WIRESTONE	Łukasiewicz Research Network - Krakow Institute of Technology	Development of a technology for the production of innovative metal-diamond beads for wire saws used for cutting difficult-to-machine materials.	20,5	not recommended for funding
39	ChloSS	Wroclaw University of Science and Technology	Chloride Soft Sensor for low-cost continuous monitoring of water pollution	20,5	not recommended for funding
39	AgroMOFmat	Instytut Niskich Temperatur i Badań Strukturalnych im. W. Trzebiatowskiego Polskiej Akademii Nauk	Innovative fertilizers based on glass@MOF nanocomposites	20,5	not recommended for funding
39	ULI-HAX	Akademia Górniczo-Hutnicza im Stanisława Staszica w Krakowie	Ultrasonic wavefield imaging using laser interferometry for hollow axle contactless inspection.	20,5	not recommended for funding
39	FireSafeEcoFoam	Kazimierz Wielki University	Modification of rigid polyurethane foams by waste products to reducing flammability and increasing susceptibility to biodegradation	20,5	not recommended for funding

39	NEOGLADE	Politechnika Białostocka / Białystok University of Technology	Novel Dental Glass-ionomer Cement of Improved Mechanical and Tribological Properties	20,5	not recommended for funding
39	DOSARA	The Henryk Niewodniczański Institute of Nuclear Physics Polish Academy of Sciences	Development of a novel, quick and simple method for dose assessment in radiation emergencies by measuring the luminescence of pharmaceuticals	20,5	not recommended for funding
39	RFSSW-XRD	Sieć Badawcza Łukasiewicz - Instytut Lotnictwa	Refill friction stir spot welding joints fatigue life determination with diffraction methods and numerical modelling	20,5	not recommended for funding
39	BIOBIKARB	Institute for Chemical Processing of Coal	Small-scale process for capture and utilization of fermentation CO2 by producing sodium bicarbonate in a novel gas inducing mixer	20,5	not recommended for funding
39	MagEVS	THERANOSCOPE SPÓŁKA Z OGRANICZONĄ ODPOWIEDZIALNOŚCIĄ	Development of a new method for measuring the concentration of extracellular vesicles based on spectroscopic methods for diagnostic applications	20,5	not recommended for funding
39	TCOSPWTAOB	Warsaw University of Technology	Temporary change of soil parameters with the application of biopolymers	20,5	not recommended for funding
39	PASTE	Saule Spółka Akcyjna	Interface engineering for improved performance and stability of perovskite flexible solar modules	20,5	not recommended for funding
52	ERES	Gdańsk University of Technology	Low-cost circularly polarized electronically steerable antennas for energy-efficient intelligent wireless systems	20,5	not recommended for funding
52	DESDEMONA+	Gdansk University of Technology	DEtection and Synergistic DEgradation of forever Micropollutants On carbon NANOstructures	20,5	not recommended for funding
52	IMAQIS	The Main School of Fire Service	Improvement system of indoor hygiene conditions in sports facilities based on monitoring of selected air quality indicators levels and origin	20,5	not recommended for funding
52	ILCopper	Łukasiewicz Research Network - Institute of Non-Ferrous Metals	Innovative technology for preparation of copper and copper(I) oxide powders by electrolytic method using choline-chloride-based deep eutectic solvent electrolytes	20,5	not recommended for funding

52	HYBWMA	Lublin University of Technology	New-generation hybrid materials as additives for the production of ecological asphalt mixtures.	20,5	not recommended for funding
52	HEPolymers	Institute of High Pressure Physics of the Polish Academy of Sciences	Analysis of the effect of severe plastic deformations generated by high pressure cold working on the microstructure and mechanical properties of polymers.	20,5	not recommended for funding
52	UG-4-AQI	Gdańsk University of Technology	Urban greenery for air quality improvement - investigating the potential of near-road vegetation barriers in PM10 pollution control	20,5	not recommended for funding
52	SiFraM_res	Cracow University of Technology	Simulation framework to maintain dammed reservoir functionality under the climate changes	20,5	not recommended for funding
52	SotiEnergyDrink	SOTI NATURAL SPÓŁKA Z OGRANICZONĄ ODPOWIEDZIALNOŚCIĄ	Development of sugar free purple tea energy drink based on natural components with high level of polyphenols and caffeine	20,5	not recommended for funding
52	recon-sar	Satim Monitoring Satelitarny Spółka z ograniczoną odpowiedzialnością	„Innovative method of ships’ 3D models semi-reconstruction based on their satellite SAR signatures”	20,5	not recommended for funding
62	DAH-OECT	Cardinal Stefan Wyszyński University in Warsaw	Donor-Acceptor type electroactive materials containing hydrophilic units for organic electrochemical transistor applications	20	not recommended for funding
63	Plasmon-MoS2	Warsaw University of Technology	Novel plasmon-enhanced hybrid nanostructures based on molybdenum disulfide and carbon nanomaterials for photocatalytic energy conversion applications	20	not recommended for funding
63	AMRTIEL	Poznan University of Technology	Autonomous mobile robot for testing the intensity of emergency lighting	20	not recommended for funding
63	LUNATUB	Adam Mickiewicz University, Poznan	LumiNanoTube - laser coded nanomaterial as a unique luminous anti-counterfeit tag	20	not recommended for funding
63	FOREST	Poznan University of Technology	Fog communication and computing networks for reliability, latency and cost-critical IoT	20	not recommended for funding
63	CAMS	Gdynia Maritime University (Uniwersytet Morski w Gdyni)	Collision Avoidance Module for Ships	20	not recommended for funding

63	ARIADNE	Politechnika Warszawska	Open access self-adjusting ARTificial Intelligence based Algorithm for inteferometric data analysis using Digital NETwork of optical systems	20	not recommended for funding
63	PHOTO-ORTHO-3D-VAT	Photo HiTech spółka z ograniczoną odpowiedzialnością	Light-induced Engineering Materials: rapid spatially controlled 3D multi-material printing process using orthogonal photochemistries with different chemicals and light wavelengths	20	not recommended for funding
63	SimYouDrive	Instytut Transportu Samochodowego	Innovative simulation-driven training for human drivers of automated vehicles	20	not recommended for funding
63	SurfCharacterization	Politechnika Opolska	Method for Intelligent Identification of Outliers in High-accuracy Characterization and Evaluation of Micro-structured Surfaces	20	not recommended for funding
63	NanoConMater	Jerzy Haber Institute of Catalysis and Surface Chemistry Polish Academy of Sciences	Application of inks based on metallic nanoparticles for the fabrication of low-cost, flexible, conductive, printed patterns.	20	not recommended for funding
63	BIO-MIC	Uniwersytet Warszawski	Experimental development of droplet-based approaches for studies of antibiotics and anti-infective agents within blood plasma.	20	not recommended for funding
63	NanoPhage	University of Gdansk	Thermophilic bacteriophage TP-84 depolymerase: function in Geobacillus stearothermophilus infection, cloning, biochemical analysis, and biofilm degradation capacity.	20	not recommended for funding
63	MODZINC	Lukasiewicz Research Network - Krakow Institute of Technology	Development of an innovative technology for modifying die-cast zinc alloys with increased strength parameters.	20	not recommended for funding
63	Bio-Safe	Ranplast Sp.z.o.o	Bio-based polymer composites reinforced with natural waste particles with antibacterial properties	20	not recommended for funding
63	Osteoprint	Łukasiewicz Research Network - Institute of Ceramics and Building Materials	3D printed composite scaffolds as drug carriers for local bone tissue therapy	20	not recommended for funding

63	MercuryEverywhere	Politechnika Wroclawska	Models of mercury concentrations and transformations in the environment of an urban polluted agglomeration	20	not recommended for funding
63	2Dprinter	Politechnika Warszawska	Two-dimensional material printing technology for industrial scale thin film fabrication	20	not recommended for funding
63	SWUS	Politechnika Krakowska im. Tadeusza Kościuszki/Cracow University of Technology	Safe water in urban space	20	not recommended for funding
63	PROMIS	Cracow University of Technology	The design and construction of two prototype micro-movement monolithic gripper mechanisms with piezoelectric drive and stepper motor with consideration to the clamping force on the microelement by the jaws	20	not recommended for funding
63	BBTinAP	Institute of Environmental Engineering Polish Academy of Sciences	Contribution of substances emitted during biomass burning in total air pollution.	20	not recommended for funding
63	GoSensor	Instytut Agrofizyki im. Bohdana Dobrzańskiego Polskiej Akademii Nauk	Innovative continuous on-the-go soil moisture measurement method with the use of a new dielectric sensor	20	not recommended for funding
63	ASHRDF	Czestochowa University of Technology	Utilization of a new type of combustion by-products	20	not recommended for funding
85	CoatPathEliminate	Institute of Metallurgy and Materials Science, Polish Academy of Sciences	Antipathogen smart Cu-CeO2 coatings for commonly touched items	20	not recommended for funding
85	VRTod	LODZ UNIVERSITY OF TECHNOLOGY	VR aided therapy for personalized treatment of depression	20	not recommended for funding
87	BIOKOM	Łukasiewicz Research Network - Institute of Ceramics and Building Materials	Influence of applying various measurement methods and techniques on the results of testing the biodegradation and compostability of various biomaterials	19,5	not recommended for funding
87	Explod3D	Łukasiewicz Research Network - Institute of Industrial Organic Chemistry	Development of high-energetic ink for 3D printing technology	19,5	not recommended for funding



87	AI4UrbanSpace	Uniwersytet Przyrodniczy we Wrocławiu	The use of artificial intelligence in monitoring urban spaces.	19,5	not recommended for funding
87	POCdiag	us4us sp. z o.o.	Advanced ultrasound modalities for Point-of-Care cardiovascular diagnostics	19,5	not recommended for funding
87	MiEMH	Gdynia Maritime University	Development of an innovative Microwave Energy Metamaterial Harvester (MEMH) for recovering the electromagnetic energy from the environment	19,5	not recommended for funding
87	NuMART	Warsaw University of Life Sciences	Numerical modelling - a tool for management of aquatic-terrestrial areas in lowland landscape	19,5	not recommended for funding
87	AOLTIC	Jan Matejko Academy of Fine Arts in Kraków	Application of low temperature plasmas in the field of conservation and restoration of precious metal coatings on historical metal artworks	19,5	not recommended for funding
87	Therm-photo	Gdańsk University	New, high-performance flexible copper-graphene films modified by Janus nanoparticles with photocatalytic and thermoelectric properties	19,5	not recommended for funding
95	Food4City	Instytut Ekologii Terenów Przemysłowych	Intelligent food production for cities in fully controlled environment	19,5	not recommended for funding
95	PyoSTEM	West Pomeranian University of Technology in Szczecin	The influence of the stressors on pyocyanin production by Pseudomonas aeruginosa	19,5	not recommended for funding
95	NEFROSENS	University of Zielona Gora	Development of biosensing system for point-of-care/real-time monitoring of chronic kidney diseases	19,5	not recommended for funding
95	TUNVENT	Silesian University of Technology	Research on the impact of the shape of a tunnel entrance on the efficiency of natural ventilation	19,5	not recommended for funding
99	MeOx-NanoFlow	Politechnika Krakowska im. Tadeusza Kościuszki	Process of producing anisotropic metal oxide nanoparticles in an increased scale flow reaction system	19,5	not recommended for funding
99	GENTLE	Instytut Gospodarki Surowcami Mineralnymi i	Green energy transition in Poland: cost-effective pathways for the decarbonization of the power system	19,5	not recommended for funding

		Energia Polska Akademii Nauk			
101	CLOU-ML	Politechnika Warszawska	Towards cloud-native, big data ready and efficient population-scale ML analyses of sequencing samples.	19	not recommended for funding
101	RS-MU	Gdańsk University of Technology	Retrofitting suburbia - measuring urbanity using multisource geo Big Data and real estate prices	19	not recommended for funding
101	CompDesign	Silesian University of Technology	Computational platform to guide experimental design for preclinical studies	19	not recommended for funding
101	u-DgstCECBioA	Gdansk University of Technology	Innovative microscaled modular in vitro digestion system for assessment of bioaccessibility of selected CECs extractable from packaged food	19	not recommended for funding
101	REBAM	Cracow University of Technology	Recognition of the bacteria genera and species using deep learning methods	19	not recommended for funding
101	ImPreGuS	Instytut Geodezji i Kartografii	Improving the precision of gravity measurements with the use of seismometer	19	not recommended for funding
101	ROCKEt	VIGO SYSTEM SPÓŁKA AKCYJNA	Removal of optical crosstalk in multi-element infrared detectors	19	not recommended for funding
108	SCWG4WASTE	Centrum Badań i Innowacji Pro-Akademia	Supercritical Water Gasification (SCWG) Technology for Wet Organic Waste Treatment Studies	19	not recommended for funding
108	DLEPTA	Silesian University of Technology	Development of Low-Emission Propulsion Technology for Aviation	19	not recommended for funding
108	CYCLO-CAT	Jerzy Haber Institute of Catalysis and Surface Chemistry, Polish Academy of Sciences	The effect of NHPI structure on efficiency of production of oxygenates in aerobic oxidation of cycloalkanes with metalloporphyrin as catalyst	19	not recommended for funding
108	EndoFlow	Politechnika Warszawska	Development of vascular graft extruder and flow system for in vitro endothelialisation and hemocompatibility testing	19	not recommended for funding
108	TexWaR	Instytut Technologii Bezpieczeństwa „MORATEX”	An Unconventional Approach to the Textile Waste Redesign	19	not recommended for funding

108	NanoCoat	Łukasiewicz Research Network-Krakow Institute of Technology	Development of a new generation of metal/ceramic nano-composites with increased tribological properties and resistance to high-temperature corrosion	19	not recommended for funding
114	BIORET	Politechnika Krakowska im. Tadeusza Kościuszki	Bioretention solutions toward safe friendly public spaces for education areas	19	not recommended for funding
115	TouchMe	AGH University of Science and Technology	Development of technology and manufacturing of a new generation of economically effective bimetallic flat rolled products in the sintering and compacting rolling process for antimicrobial products with touch surfaces with COVID-19 / SARS-CoV-2 inactivation capabilities	19	not recommended for funding
116	HS-AlTiCom	Institute of Metallurgy and Materials Science of Polish Academy of Sciences	High-strength Al/TiC composites produced by two-step process	19	not recommended for funding
116	NeWtEch	Silesian University of Technology	Development of negative CO2 emission technology in waste-to-energy sector	19	not recommended for funding
116	2DMaterials4VLC	Politechnika Warszawska	Two-Dimensional Materials For Visible Light Communication	19	not recommended for funding
119	ANTIPOLYNANO	Łukasiewicz Research Network - Tele and Radio Research Institute	Modification of polymer with the antibacterial nanocomposite CuO/Ag	18,5	not recommended for funding
120	MOReWATER	Akademia Górniczo-Hutnicza im. Stanisława Staszica w Krakowie	Mature oilfields revitalization for potable water production	18,5	not recommended for funding
121	3DP-PAG	Łukasiewicz Research Network - Institute of Precision Mechanics	New 3D-printed Graphene Polyamide Composites for packaging industry.	18,5	not recommended for funding
121	IREAP	Lodz University of Technology	Interactive Reconfigurable Environments for AI-powered Performance	18,5	not recommended for funding
121	SPEC-DIAG-RED-tools	Jagiellonian University in Krakow	Adaptive prototyping of vibrational spectroscopy tools for packed red blood cells quality determination	18,5	not recommended for funding
121	HIPIR	Łukasiewicz Research Network- Institute of	High performance LWIR QCLs: design, fabrication and thermal optimization	18,5	not recommended for funding

		Microelectronics and Photonics			
121	SILCOMP	Łukasiewicz Research Network - Krakow Institute of Technology	Composite alloy silumins reinforced with precipitation, such as Zr and Mo, with increased strength parameters, for high-temperature applications.	18,5	not recommended for funding
121	SilicaSalt	AGH University of Science and Technology	New composite materials for adsorption chillers driven by low-temperature waste heat	18,5	not recommended for funding
121	SWEET	Gdańsk University of Technology	Development of sustainable wastewater treatment system for a single-family house integrating water and bioenergy recovery	18,5	not recommended for funding
121	MatNaBat	University of Gdansk	Development of novel nanocomposites for sodium-ion rechargeable batteries	18,5	not recommended for funding
121	BICAT	West Pomeranian University of Technology in Szczecin	High-efficiency bifunctional electrocatalysts for water splitting	18,5	not recommended for funding
121	MineDepoCE	Akademia Górniczo-Hutnicza im Stanisława Staszica w Krakowie	Adaptation of the mineral deposits management system in Poland to the contemporary requirements of sustainable development and circular economy	18,5	not recommended for funding
121	ENGeoPRE	Politechnika Opolska	Ecological Geopolymer Nanocomposites with Conductive Properties for Application in Civil Engineering	18,5	not recommended for funding
121	HEART	Silesian University of Technology	Visualization and characterization of intraventricular flow patterns using validated echo PIV in phantom and in patients after valve repair	18,5	not recommended for funding
121	GreenEDM	Cracow University of Technology	Green EDM - environmentally friendly spark erosion machining in medical applications	18,5	not recommended for funding
121	AGRALIBAT	Centre of Polymer and Carbon Materials Polish Academy of Sciences	Advancing 3D graphene materials as active anode platforms for Li-ion batteries	18,5	not recommended for funding
121	IL4WOOD	Sieć Badawcza Łukasiewicz - Instytut Ciężkiej Syntezy Organicznej „Błachownia”	Formaldehyde-free melamine-urea resin with ionic liquid-based hardener as a new adhesive system for the wood industry	18,5	not recommended for funding

136	HighFlex	Cracow University of Technology	Monitoring of the thermal and strength performance of pressure components of power units with particular emphasis on start-up and shutdown processes	18	not recommended for funding
137	HAN	Łukasiewicz Reaserch Network - Metal Forming Institute	Deposition of nanoporous hydroxyapatite coatings doped with copper nanoparticles by vacuum cold spraying	18	not recommended for funding
138	PbFREEM	Lodz University of Technology	LEAD-FREE GAMMA RAYS AND X-RAYS SHIELDING EPOXY MATERIALS WITH SELF-HEALING PROPERTIES FOR MULTIPURPOSE APPLICATIONS	18	not recommended for funding
138	CUTTINGS	Gdansk University of Technology	Innovative drill cuttings analysis for better reservoir surveillane	18	not recommended for funding
138	UHTC	Łukasiewicz Research Network - Krakow Institute of Technology	Processing of Ultra-high temperature ceramics for an extreme environment applications	18	not recommended for funding
138	SWRisk	Warsaw University of Life Science	Soil Water Repellency as a forest fire risk factor.	18	not recommended for funding
138	PYROwasteHYDRO	Gdansk University of Technology	Copyrolysis of waste rubber and biomass as a source of valuable products - nanocarbons and hydrogen.	18	not recommended for funding
138	OXYPHARM	Institute of Nuclear Chemistry and Technology	Application of different Advanced Oxidation Processes for degradation selected psychotropic pharmaceuticals in water and wastewater.	18	not recommended for funding
138	INTELTRANS	Wojskowa Akademia Techniczna im. Jarosława Dąbrowskiego	An intelligent tool for managing the transport fleet in real time	18	not recommended for funding
138	SepAlMod	Sieć Badawcza Łukasiewicz - Instytut Obróbki Plastycznej	Development of a technology for the modification of aluminum surfaces of separators for large-size bearings.	18	not recommended for funding
138	PICCAS	MARITIME ADVANCED RESEARCH CENTRE	Patient Implantable Customized Cardiovascular Assist System	18	not recommended for funding
138	NDT_wooden_beams	Gdańsk University of Technology	Non-destructive testing of wooden beams using ultrasonic elastic waves in the context of strengthening of historical carpentry joints.	18	not recommended for funding

148	RehaSkin	Sieć Badawcza Łukasiewicz - Przemysłowy Instytut Automatyki i Pomiarów PIAP	A safety system for a rehabilitation exoskeleton, based on a technology of an artificial skin for robots	18	not recommended for funding
148	LPGInnov	Polski Rejestr Statków Spółka Akcyjna / Polish Register of Shipping Joint - Stock Company	Reduction of CO2 emission to atmosphere as a result of decreasing the auxiliary engines fuel consumption on LPG gas carriers by optimizing the cooling pro-cess of transported cargo during sea passages, with particular emphasis put on ethylene	18	not recommended for funding
148	ProcedFCAWstorage	Gdańsk University of Technology	Development of a new procedure for assessing the suitability of stored flux-cored wires for FCAW welding	18	not recommended for funding
148	PelletMix	Łukasiewicz Research Network - Wood Technology Institute	Fuel granulates from mixtures of lignocellulosic materials with properties minimizing technological problems during their combustion	18	not recommended for funding
148	EkobEE	Łukasiewicz Research Network - Institute for Engineering of Polymer Materials and Dyes	Biodegradable polymer composites against varroa mites on bees	18	not recommended for funding
148	HALO	Jagiellonian University in Kraków	A novel approach to develop a non-invasive tool for the prediction about the risk of abdominal aortic aneurysm formation	18	not recommended for funding
148	FDSAA	Masdiag Sp. z o.o.	Forensic Drug Seizures Analysis - automatization of the process	18	not recommended for funding
148	DoneVAM	Institute of Chemical Engineering, Polish Academy of Sciences	Development study on the technology for the utilization of Ventilation Air Methane in Thermal Flow Reversal Reactor	18	not recommended for funding
148	FLISBI	Wroclaw University of Science and Technology	Portable, flexible light source ready for testing in personal phototherapy of bacterial infections in diabetic foot.	18	not recommended for funding
148	MetaBee	Institute of Bioorganic Chemistry, Polish Academy of Sciences	MetaBee - interactive database of honey bee gut microbiome	18	not recommended for funding

158	nonSiSolarCell	Akademia Górniczo-Hutnicza im. Stanisława Staszica w Krakowie	Modification and development of materials for non-silicon thin film solar cells	17,5	not recommended for funding
159	EPACS	Wroclaw University of Science and Technology	Energy Positive Air Conditioning System	17,5	not recommended for funding
159	AWASS	Lublin University of Technology	Adaptive wheelchair with an assistance system	17,5	not recommended for funding
161	BioReComp	Wroclaw University of Science and Technology	Innovative bioplastic composites filled with waste crop fillers	17,5	not recommended for funding
161	SWPDUB	Gdańsk University of Technology	Shaping a wind-permeable dense urban block	17,5	not recommended for funding
161	SISPlaSt	Institute of Environmental Engineering Polish Academy of Sciences	Selected indicator substances as new tools for the detection of plastic residues in the aquatic environment in the strategy against plastics pollution	17,5	not recommended for funding
161	UNREPAuto	Uniwersytet Morski w Gdyni	Parallel motion model for a group of Maritime Autonomous Surface Ships (MASS) using deep neural networks.	17,5	not recommended for funding
161	AntiBioSewage	AGH University of Science and Technology	Ecological risk assessment of the use of sewage sludge in the aspect of presence of antibiotic residues, antibiotic-resistant bacteria and their resistance genes	17,5	not recommended for funding
161	BV-Reactor	Fundacja Rozwoju Kardiochirurgii im. prof. Zbigniewa Religi	A new type of bioreactor to modify collagen tissues for medical purposes	17,5	not recommended for funding
161	EEDSNNFAVPS	Akademia Górniczo-Hutnicza im. Stanisława Staszica w Krakowie	Energy efficient deep spiking neural networks for autonomous vehicles' perception systems.	17,5	not recommended for funding
161	REOBIOGREASE	Sieć Badawcza ŁUKASIEWICZ - Instytut Technologii Eksploatacji	The method of simultaneous identification of the rheological and tribological properties of the bio-greases	17,5	not recommended for funding
161	Lion_carriers	Wroclaw University of Science and Technology	Stable and durable solid state oxygen carriers	17,5	not recommended for funding
161	mi-ADT	Poznan University of Medical Sciences	The protocol for minimally invasive-Active Dynamic Thermography (mi-ADT) to support	17,5	not recommended for funding

			the diagnostics of central sensitization related to muscles		
161	EEOrgFerti	Institute of Technology and Life Sciences	Environmental and economical effects of acidified organic fertilisers with use of tool for their prediction	17,5	not recommended for funding
161	TracePCBlife	Łukasiewicz Research Network- Tele and Radio Research Institute	Sustainable technological system for products life cycle identification and monitoring	17,5	not recommended for funding
173	DERVIGES	Gdańsk University of Technology	Innovative device for repeatable vibration impact in structural systems	17,5	not recommended for funding
173	ALA-aPDI-AT	University of Gdańsk	Combination of Photoinactivation with ALA and antibiotics as a supportive treatment of skin infections caused by multidrug resistant microorganisms	17,5	not recommended for funding
175	HoloULens4SiLaser	NANORES SPÓŁKA Z OGRANICZONĄ ODPOWIEDZIALNOŚCIĄ SPÓŁKA KOMANDYTOWA	Precise holographic microlens for semiconductor laser	17	not recommended for funding
175	FMCM	AGH University of Science and Technology	Forecasting Models for Mass-Customization Manufacturing	17	not recommended for funding
175	ProCools	Cools Group S.A.	Conducting applied research on developing technological methods of cryogenic production in liquid nitrogen in -195.8C of an innovative functional food product - ProCools, unique, organic ice cream in shape of mini balls, enriched with live probiotic microorganisms characterised by pro-health properties, intended for typical -18C cold chains.	17	not recommended for funding
175	TendoREGEN+	International Institute of Translational Medicine (Międzynarodowy Instytut Medycyny Translacyjnej)	TendoREGEN+ medical device for the treatment of tendon injuries in horses.	17	not recommended for funding
175	VOLCOR	Wroclaw University of Science and Technology	Potential of low-molecular organic compounds in the prevention of bio-corrosion caused by the presence of sulfate-reducing (SRB) and	17	not recommended for funding



			sulfur-oxidizing (SOB) bacteria in wastewater treatment systems.		
175	ALOBIO	Łukasiewicz Research Network - Institute of Precision Mechanics	Composite coatings on metal basis with nanoparticles active on microorganism	17	not recommended for funding
181	BET-COM	Bialystok University of Technology	Innovative technology for the production of prefabricated concrete paving and road slabs with composite reinforcement	17	not recommended for funding
181	NanoFuCla	Jerzy Haber Institute Of Catalysis And Surface Chemistry Pas	Nanoengineering and functionalization of layered clay minerals structures towards efficient sorption of carbon dioxide	17	not recommended for funding
181	2ChInterferometer	Institute of Plasma Physics and Laser Microfusion	Implementation of two-channel interferometric diagnostic setup for investigation of plasma generated by high intense femtosecond pulse	17	not recommended for funding
181	URBAN_PM_BRAKE	AGH University of Science and Technology	Assessing human health and environmental risk associated with non-exhaust vehicle particle emissions in urban environment, derived from most prevalent original equipment manufacturer (O.E.M) brake pads vs their non-O.E.M counterparts.	17	not recommended for funding
181	AntyMic	Łukasiewicz Research Network - Institute for Engineering of Polymer Materials and Dyes	Obtaining elastomers and testing chemical, physico-mechanical and microbiological properties of them with fillers of antibacterial, antifungal and antiviral properties	17	not recommended for funding
181	PrediHeat	Uniwersytet Przyrodniczy we Wrocławiu	Predictive approach to heating, ventilation and air conditioning supply	17	not recommended for funding
181	TRI-LOC	Akademia Górniczo - Hutnicza im Stanisława Staszica w Krakowie	TRI-LOC Automatic non-invasive system for locating sources of seismic waves	17	not recommended for funding
181	MoniC	The Silesian University of Technology	Monitoring of carbon isotope composition in the biosphere in the area of strong urban and industrial anthropopression in Silesia	17	not recommended for funding
189	SMILE	Politechnika Warszawska / Warsaw University of Technology	Modelling of soil cover with the use of multi-source data and machine learning methods	17	not recommended for funding

189	functioilmat	Politechnika Krakowska im. Tadeusza Kościuszki	Obtaining materials for the ground for use in places with increased risk of development of microorganisms and pests	17	not recommended for funding
189	PURFire	The Main School of Fire Service	Modification of polyurethane foams with ionic liquids focusing on reducing fire hazard	17	not recommended for funding
189	NCMEM	Warsaw University of Technology	Nitroamines crystallization for use in modern energetic materials	17	not recommended for funding
189	PRoJCoM	Silencions Sp. z o.o.	Panel Resonator of Joint Complementary Metamaterials	17	not recommended for funding
194	MOFS	Lublin University of Technology	Modeling of the operation of frame scaffolds in a probabilistic approach	17	not recommended for funding
195	HEPAnovation	Nałecz Institute of Biocybernetics and Biomedical Engineering Polish Academy of Sciences	Preparation of human hepatocyte primary culture on novel cell growth substratum to develop patient-specific personalized test in liver tumor therapies	17	not recommended for funding
196	Eco-SPS	Łukasiewicz Research Network - Metal Forming Institute	Optimization of the energy consumption in the SPS process by modifying the design of the tools and the applied thermal insulation	16,5	not recommended for funding
196	CHALK	Łukasiewicz Research Network - Institute of Industrial Organic Chemistry	Application of compounds containing a chalcogen atom in combating fungal skin infections	16,5	not recommended for funding
196	EXTERN	Jerzy Haber Institute of Catalysis and Surface Chemistry Polish Academy of Sciences	External fields-assisted Molecular Beam Epitaxy of spintronic heterostructures.	16,5	not recommended for funding
196	STREAMCAT	Instytut Inżynierii Chemicznej PAN / Institute of Chemical Engineering, PAS	Novel design of the structured converter for catalytic lean methane combustion	16,5	not recommended for funding
200	TITAN	Uniwersytet Gdański	Targets at the Immune-Cancer Synapse in Metastatic Oesophageal Adenocarcinoma	16,5	not recommended for funding
200	NanoCanTool	Centrum Medyczne Kształcenia Podyplomowego/Centre of	Novel Nanotechnology-based Tools for Drug Delivery and Effective Cancer Treatment	16,5	not recommended for funding

		Postgraduate Medical Education			
200	3DGP	Tadeusz Kosciuszko Cracow University of Technology	Underwater 3D printing of geopolymer composites	16,5	not recommended for funding
203	nZEBRA	Stowarzyszenie Wielkopolski Dom Pasywny	Performing qualitative and quantitative analysis of existing nearly zero energy, single family homes (8 case studies) to determine: indoor environmental quality, thermal conductivity and air tightness of a building's envelope, inhabitant's comfort level and environmental impact of the buildings during the whole life cycle (LCA)	16,5	not recommended for funding
203	IDOCAT	Uniwersytet Marii Curie-Skłodowskiej w Lublinie	Innovative development of novel catalyst suitable for hydrogen production from ethanol steam reforming	16,5	not recommended for funding
205	BioTiO-Med	Politechnika Łódzka	Extended in vitro evaluation of doped titanium dioxide coatings for potential biomedical applications	16	not recommended for funding
206	AIDABIoT	Kazimierz Wielki University	The use of Artificial Intelligence methods in data analysis from a multifunctional system of sensors and effectors for rehabilitation and care realised in the three-layer paradigm of the Internet of Things	16	not recommended for funding
206	COMP-REC	Gdynia Maritime University	Composite post-production waste from industry as a filler in new construction composites	16	not recommended for funding
206	optimizationAI	Softblue Spółka Akcyjna	Strengthening the competences of Female Principal Investigator through carrying out of an R&D project aimed at developing an innovative system for optimizing the operation of machinery and production lines based on artificial intelligence methods and techniques	16	not recommended for funding
206	DDTOSC	Akademia Górniczo Hutnicza im Stanisława Staszica w Krakowie	Dye-doped ternary organic solar cells preparation & investigation	16	not recommended for funding

210	RNBR	Gdańsk University of Technology	Retrieval of Native Buildings Resources in Circular Economy	16	not recommended for funding
210	ADAPT	Uniwersytet Medyczny w Lublinie	Acute Respiratory Distress Syndrome: an interdisciplinary approach to investigate its pathophysiology and proposing novel therapies.	16	not recommended for funding
210	ORGANIC_INN	University of Agriculture in Krakow	Innovative low-emission organic fertilizer production technology for environmental safety	16	not recommended for funding
210	BATRECO	Łukasiewicz Research Network - Institute of Precision Mechanics	Simultaneous hydro-electrometallurgical recovery of zinc and manganese from spent Zn-Mn batteries leachates	16	not recommended for funding
210	NewSkin	Nicolaus Copernicus University in Torun	New products for Skin regeneration after cancer removal	16	not recommended for funding
210	EMEA	Uniwersytet Marii Curie-Skłodowskiej w Lublinie	Engineered Materials for Environmental and Agricultural Applications	16	not recommended for funding
216	MODAIRQ	Silesian University of Technology	Numerical model of air quality based on experimental research for educational facilities	16	not recommended for funding
216	ELEC-TREAT	Instytut Chemicznej Przeróbki Węgla/Institute for Chemical Processing of Coal	Electrochemical treatment of highly saline wastewater formed during flue gas desulfurization at large combustion plants.	16	not recommended for funding
216	nanoSILP	Uniwersytet im. Adama Mickiewicza w Poznaniu/ Adam Mickiewicz University, Poznan	Ionic liquids supported on nanobiopolymers for the removal of organic water pollutants	16	not recommended for funding
219	M-SOLAR	Łukasiewicz Research Network - Institute of Microelectronics and Photonics	Multijunction Solar cells with High Efficiency	15,5	not recommended for funding
219	NANO_CARBON	Cracow University of Technology	Hybrid graphitic carbon nitride-based nanocomposite for photocatalytic water purification	15,5	not recommended for funding
219	hydro-flex	Gdańsk University of Technology	Detection of deformation for flexible composite lifting surfaces and the impact on the hydromechanical performance	15,5	not recommended for funding

219	Psor3T-Patch	Instytut Podstawowych Problemów Techniki Polskiej Akademii Nauk	Multifunctional Transdermal Patch for Topical Treatment of Psoriasis	15,5	not recommended for funding
219	OsteoID	Lublin University of Technology	Innovative system for identification of osteoporotic defects using advanced algorithms for texture analysis of CT images	15,5	not recommended for funding
219	InBIO	Wrocław University of Science and Technology	Indoor air biofilter with closed material and water cycling	15,5	not recommended for funding
219	ProMed	Łukasiewicz Research Network - Krakow Institute of Technology	Development of the core, titanium based material and polymer coating for the needs of individualized regenerative medical applications	15,5	not recommended for funding
219	AppleBioCarbon	Sieć Badawcza ŁUKASIEWICZ - Instytut Technologii Eksploatacji	Shaping the antimicrobial properties of biocarbon produced from apple waste	15,5	not recommended for funding
219	InTroll	Lublin University of Technology	InTroll new autonomous control system for switches of the trolleybus overhead line network	15,5	not recommended for funding
228	NaComCoat	Łukasiewicz Research Network - Institute for Sustainable Technologies	An optimised test method for the abrasive wear of advanced thin, nanocomposite anti-wear coatings	15,5	not recommended for funding
228	Dewelop	Akademia Górniczo-Hutnicza im. Stanisława Staszica w Krakowie	Determinants of development activity in the suburban area of Krakow	15,5	not recommended for funding
228	ProFlav	Ignacy Łukasiewicz Rzeszow University of Technology	Synthetic derivatives of natural compounds in non-coding RNAs modulation - way for prostate cancer prevention	15,5	not recommended for funding
231	DSWGM	Kazimierz Wielki University	Diamond layer biosensor for water quality monitoring	15	not recommended for funding
232	LaWeT	Politechnika Opolska	Laundry waste water treatment in the context of implementation of New Circular Economy Strategy	15	not recommended for funding
233	PhotoCatRoMa	Zachodniopomorski Uniwersytet Technologiczny w Szczecinie	Study of Rotating Magnetic Field Assisted Photocatalytic Water Purification Process	15	not recommended for funding

233	FroAggRec	Warsaw University of Life Sciences - SGGW	Effect of chemical stabilization on the strength and frost resistance of anthropogenic aggregate.	15	not recommended for funding
233	MESonCS	Gdańsk University of Technology	Monitoring of electromagnetic smog based on a compressive sensing framework	15	not recommended for funding
233	DONAgel	University of Gdansk	Development of semi-industrial synthesis and preliminary preparation for manufacturing processes of RADA-KGHK peptide hydrogel for the treatment of diabetic foot	15	not recommended for funding
233	DCS-AI-Hi-Risk	INSTYTUT BADAWCZO ROZWOJOWY INOTEC SPÓŁKA Z OGRANICZONA ODPOWIEDZIALNOSCIA	Developing decision support system based on Artificial Intelligence algorithms for staff guiding in processes of resolving complex, multistage issues and reconfiguring systems affected by high risk factors.	15	not recommended for funding
233	LubriNanoAAO	Wojskowa Akademia Techniczna im. Jarosława Dąbrowskiego	Lubricant infused nanoporous anodic aluminium oxides for low-friction applications in lightweight car engines	15	not recommended for funding
233	MsAlgor	Military Institute of Hygiene and Epidemiology	Algorithm for Planning Personalized Multiple Sclerosis Therapy with Immune Modulation Drugs Currently Used	15	not recommended for funding
233	ArtificialSurgery	Fundacja Rozwoju Kardiologii im. prof. Zbigniewa Religi	Development of a training system with the use of innovative training scenes for minimally invasive surgery.	15	not recommended for funding
233	SEOIBM	Wroclaw University of Science and Technology	The search for essential oils that inhibit the growth of harmful bloom-forming microalgae	15	not recommended for funding
233	T-QMediComp	Lublin University of Technology	Technology and qualification of carbon based composite instrumentation for applications in medicine	15	not recommended for funding
233	POL-NOR	Uniwersytet Ekonomiczny w Poznaniu/ Poznań University of Economics and Business	Synthesis of quaternary ammonium salts and evaluation of their application potential	15	not recommended for funding
233	MuFuRiC	Warsaw University of Life Sciences - SGGW (WULS-SGGW)	The role of multifunctional roofs in mitigation cities vulnerability to the effects of climate change	15	not recommended for funding

233	LaserFoBiN	Wroclaw University of Science and Technology	Laser-induced formation of bimetallic nanoparticles	15	not recommended for funding
233	BioUrban	Uniwersytet Warszawski	A harmonized approach to the resilient city idea in particular by implementation of given green infrastructure model - creating a new and universal tool for integrated planning and the creation of green areas in the city at different levels of a city activity areas in governance, planning and design (bottom-up and top-down).	15	not recommended for funding
233	GTFYWICP	University of Silesia in Katowice	Gait Trainer For Young People With Infantile Cerebral Palsy (ICP)	15	not recommended for funding
233	DTFS	Masdiag sp. z o.o.	Novel tools for remote diagnostic for thyroid function screening	15	not recommended for funding
233	CuO-ZnO	Łukasiewicz Research Network - Tele and Radio Research Institute	Nanocomposite CuO-ZnO heterojunction for photovoltaic application	15	not recommended for funding
233	Detection	Akademia Górniczo - Hutnicza im. Stanisława Staszica w Krakowie	Object detection using advanced computing methods based on lidar and image data	15	not recommended for funding
233	SSDSPL	Masdiag Sp. z o.o.	Development of an open access database for new psychoactive substances - Survey of Suspected Drugs Seized from Polish market	15	not recommended for funding
252	CondPolNeurElectrode	Gdańsk University of Technology	Development of multi-functional conducting polymer based electrode for neural interface	15	not recommended for funding
252	C2H2FiberGasSensor	NANORES SPÓŁKA Z OGRANICZONĄ ODPOWIEDZIALNOŚCIĄ SPÓŁKA KOMANDYTOWA	Gas sensor based on microstructured fiber optics	15	not recommended for funding
254	ACRANN	Astrotectonic Spółka z ograniczoną odpowiedzialnością	Advanced Cosmic Rays Analysis using Neural Networks.	14,5	not recommended for funding
254	CorrosANN	Łukasiewicz Research Network - Institute of Precision Mechanics	The use of artificial neural networks to predict the size of corrosion loss in atmospheric corrosion.	14,5	not recommended for funding

254	TIG	Sieć Badawcza Łukasiewicz - Instytut Lotnictwa	TIG welding of Rene'77 / Udimet 700 with Rene' 41 weld wire	14,5	not recommended for funding
257	TILS	Gdansk University of Technology	TiO2 nanotubes as porous support for the confinement of ionic liquids for the extraction of analytes from liquid samples using direct and head-space solid-phase microextraction technique.	14,5	not recommended for funding
257	Scaffold	Instytut Podstawowych Problemów Techniki PAN	NEURALON - smart scaffold for nerve regeneration	14,5	not recommended for funding
257	PSLW	Warsaw University of Life Sciences -SGGW	External single-layer walls made of perforated perlite blocks	14,5	not recommended for funding
257	OFD	University of Rzeszow	OpenFallDetection: platform accelerating research in fall detection systems	14,5	not recommended for funding
261	BioTexPants	Lodz University of Technology	Biotextronics system for preventive and support treatment of lower urinary tract inflammations	14,5	not recommended for funding
261	KpmC	Łukasiewicz Research Network - Institute of Precision Mechanics	Composite metal coatings with a dispersive phase in the form of allotropic varieties of carbon	14,5	not recommended for funding
263	TempCool	Cracow University of Technology (CUT)	Prediction of temperature inside isothermal containers during the logistic cycle	14	not recommended for funding
264	EOMS	Cracow University of Technology	Comprehensive assessment of water supply and sewerage networks with respect to their environmental impact and technical shape	14	not recommended for funding
264	BioCarboSorb	Sieć Badawcza Łukasiewicz - Instytut Technologii Eksploatacji	The development of biocarbon heavy metal sorbents produced by pyrolytically from plant waste	14	not recommended for funding
266	BioSensDesign	Wroclaw University of Science and Technology	Designing biosensors - developing bioreceptor elements using semiconductive structures	14	not recommended for funding
267	BetHemp	Politechnika Opolska	Modification and optimization of the composition and properties of ecological composites with the addition of hemp chaff	14	not recommended for funding
267	AMIDOAMINE_LAC	Sieć Badawcza Łukasiewicz - Instytut Ciężkiej Syntezy Organicznej „Blachownia”;	Amidoamine lactates based on natural raw materials for practical applications in cosmetic chemistry.	14	not recommended for funding



269	CEMGLASS	Łukasiewicz Research Network - Institute of Ceramics and Building Materials	APPLICATION OF WASTE MATERIALS OF THE CEMENT INDUSTRY FOR MELTING OF SODIUM-CALCIUM-SILICATE GLASS	13,5	not recommended for funding
270	TeleMedVC	Poznan University of Medical Sciences	Teleconsulting and Telerehabilitation System for improvement of patients medical treatment	13,5	not recommended for funding
270	NanoDosing	NANORES SPÓŁKA Z OGRANICZONĄ ODPOWIEDZIALNOŚCIĄ SPÓŁKA KOMANDYTOWA	NanoDosing - nano-volume dosing technology	13,5	not recommended for funding
272	PEEBMOWK	Gdańsk University of Technology	Improving the energy efficiency of residential buildings with cultural value in the context of the pro-ecological policy of the European Union.	13,5	not recommended for funding
272	Harsh-SOL	Łukasiewicz Research Network - Tele and Radio Research Institute	Increasing the reliability of industrial / special electronics working in the demanding advice of industrial power engineering	13,5	not recommended for funding
272	AntibactHAP	Sieć Badawcza Łukasiewicz-Instytutu Obróbki Plastycznej	Cold-spray deposition of composite antibiotic hydroxyapatite coatings for antibacterial applications in veterinary implants	13,5	not recommended for funding
272	CER_COATINGS_ER	Cracow University of Technology	The effect of ceramic coatings obtained by ALD method on extruded electrodes on the ultra-high aspect ratio holes	13,5	not recommended for funding
272	AhtiCo	Silesian University of Technology	Application of heat treatment to increase the mechanical properties of CoCr alloys obtained by SLM	13,5	not recommended for funding
277	ZebrafishEPR	Medical University of Warsaw	Testing kit for in vivo oxidative stress and membrane fluidity studies in zebrafish (D.rerio) embryos with X band Electron Paramagnetic Resonance	13	not recommended for funding
278	LAMOMONI	Cracow University of Technology	Improving the system of monitoring the risk of landslide movements for road embankments	13	not recommended for funding
278	SENSEI	Uniwersytet Warszawski	Network system for unmanned aerial vehicle safe missions	13	not recommended for funding

278	ComposTech	Łukasiewicz Research Network - Wood Technology Institute	Recovery technology of post-production waste from Medium Density Fibreboard (MDF) for compost and panels production	13	not recommended for funding
281	MERFILMAT	Jan Dlugosz University in Czestochowa	Application of carbonaceous materials as filter media for mercury removal from groundwater and industrial effluents	13	not recommended for funding
281	BioPrep	Politechnika Warszawska	Development of a prototype biopreparation and know-how to eliminate pesticide contamination and to improve the quality and biotic conditions of the soil and water environment	13	not recommended for funding
283	CONwaste	Silesian University of Technology	An attempt to manage contaminated concrete from demolition in the form of fine aggregate in concrete	12,5	not recommended for funding
284	InMatHelm	The Main School of Fire Service	Application of innovative materials in manufacturing fire helmets	12,5	not recommended for funding
284	AntiMicScaleup	Enzybiotx Sp. z o.o.	Design of universal production system of novel antimicrobials-enzybiotics.	12,5	not recommended for funding
286	Nomograms.	Politechnika Opolska	Development of nomograms for the assessment of the technical and economic operation efficiency of RES by using mathematical modelling.	12	not recommended for funding
286	Archeo	Akademia Górniczo - Hutnicza im. Stanisława Staszica w Krakowie	Protection of archaeological sites. The aspect of limiting rights to real estate and shaping the value of land.	12	not recommended for funding
288	ALUCEHIS	Warsaw University of Technology	Automatic lung cancer evaluation on histological slides	12	not recommended for funding
288	SiAs	Sieć Badawcza Łukasiewicz - Instytut Metali Nieżelaznych	Functionalized silica as a specific adsorbent of arsenic used in analysis and purification of wastewater from non-ferrous metals industry	12	not recommended for funding
288	CHAMPION	Silesian University of Technology	Isolation and characteristics of autochthonous microorganisms for potential bio-vaccine to sewage sludge hydrolysis in biogas production.	12	not recommended for funding
291	QM-GEN	University of Agriculture in Krakow	QMILK-GEN- The innovative diagnostic method to detect udder inflammation in dairy cattle and prediction quality traits in production milk.	11	not recommended for funding

291	DHIFS	Poznan University of Technology	Design Standards: Design for Health Inspired by Future Societies	11	not recommended for funding
293	TICF	Medical SPA & Wellness spółka z ograniczoną odpowiedzialnością	Telemedicine - diagnosis of Functioning, Disability and Health as a WHO framework	11	not recommended for funding
294	BIOVESSELS	Fundacja Badań i Rozwoju Nauki	Electrospinning of polymer scaffolds using extracellular matrix proteins to create bionic blood vessels for clinical applications.	10,5	not recommended for funding
295	TIFPS	Gdańsk University of Technology	Technical infrastructure in future public spaces in the context of electro-efficiency and climate change	10,5	not recommended for funding
295	FreeWatPharm	University of Silesia in Katowice	Freeing water from pharmaceuticals - a challenge and obligation for generations	10,5	not recommended for funding
297	3RenewalAidKits	Uniwersytet Przyrodniczy we Wrocławiu	„Working Model of Renewal” (WMR) application of integrated tools in the design process of regeneration.	10	not recommended for funding
298	DMCCRIAUPCRCC	Akademia Górniczo-Hutnicza im. Stanisława Staszica w Krakowie	DEVELOPING A MODEL CONCEPT OF CITY REVITALIZATION AS AN INSTRUMENT FOR ARCHITECTS AND URBANISTS OF POLISH CITIES IN RESPONSE TO THE CLIMATE CRISIS	10	not recommended for funding
299	AMAL	Kielce University of Technology	Innovative research on the impact of CO2 on mold fungi in the aspect of air quality in enclosed spaces.	9	not recommended for funding
300	Opti3D	Sieć Badawcza Łukasiewicz - Instytut Lotnictwa	Optimization of 3d printing from material IN718 used in DMLM technology in aviation industry, using optical measurement system of the 3D scanner.	9	not recommended for funding
301	PWE-PHP-DSPSS	Uniwersytet Marii Curie-Skłodowskiej w Lublinie	Pharmaceuticals in the water environment - a new public health problem - determination using screen-printed sensors	0	not recommended for funding
301	PrECS	Instytut Podstawowych Problemów Techniki PAN	Design of prestressed FRP composite structures	0	not recommended for funding