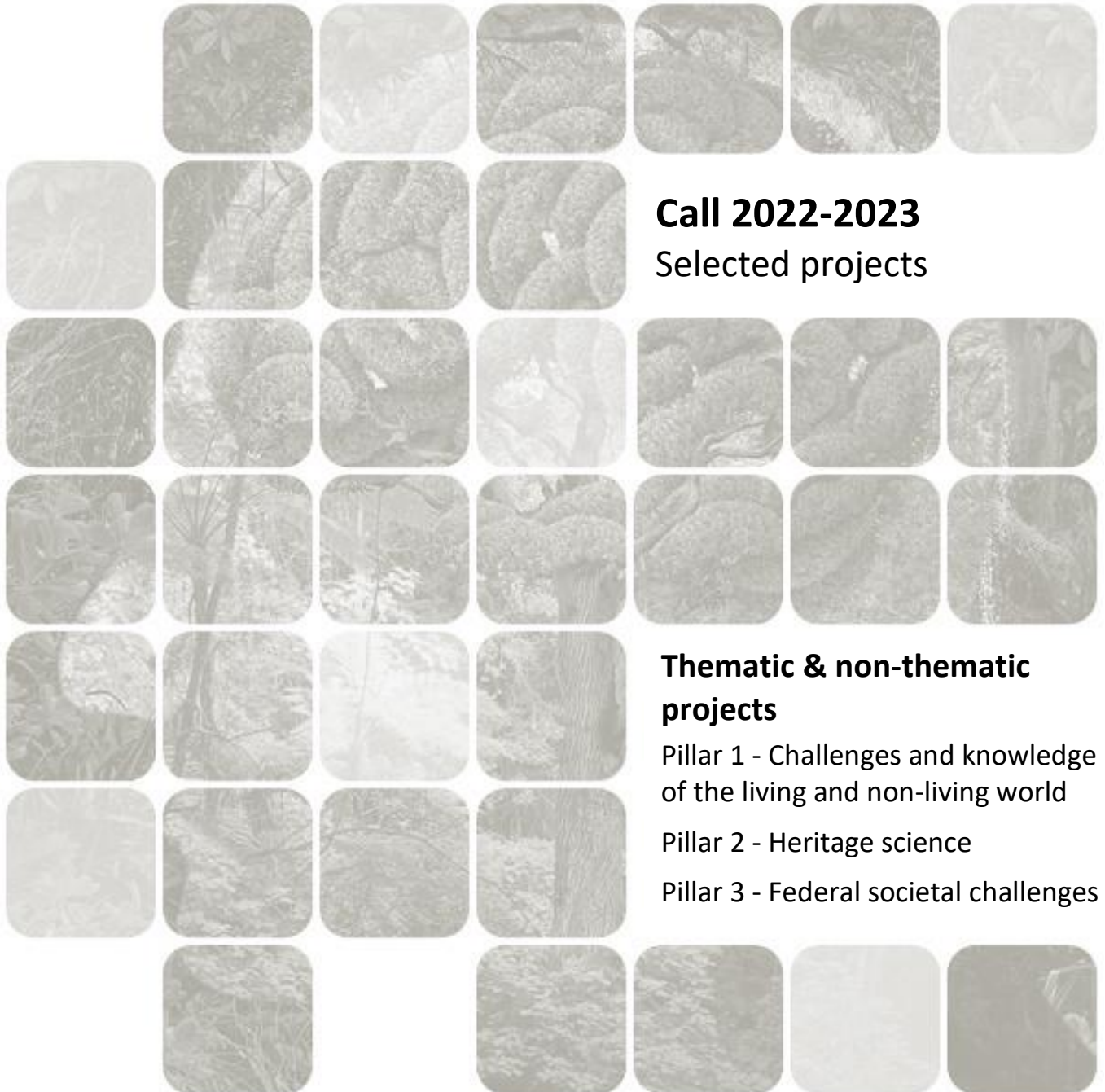


BRAIN-be 2.0

BELGIAN RESEARCH ACTION THROUGH INTERDISCIPLINARY NETWORKS - Phase 2



Call 2022-2023
Selected projects

Thematic & non-thematic projects

Pillar 1 - Challenges and knowledge of the living and non-living world

Pillar 2 - Heritage science

Pillar 3 - Federal societal challenges

Pillar 1. Challenges and knowledge of the living and non-living world

Acronym	Title	Project Duration	Type Partner	Institute	Name	Firstname	Budget (EUR)	Total (EUR)
AGROFLUX	Improving the agrosystem GHG budget through data-assimilation of surface fluxes	4 years	C	UCLouvain	Chatelain	Philippe	358 302	956 196
			P	ULiège	Heinesch	Bernard	319 098	
			P	IRM-KMI	Laffineur	Quentin	65 754	
			P	KU Leuven	Meyers	Johan	213 042	
CLOSE-UP	Campfires, Loops, and Oscillations in the Solar EUV atmosphere at Unprecedented Precision	4 years	C	ORB-KSB	Verbeeck	Francis	393 403	489 199
			P	KU Leuven	Van Doorselaere	Tom	95 796	
CORDEX.be II	COmbining Regional Downscaling EXpertise in Belgium II	4 years	C	IRM-KMI	Termonia	Piet	345 102	950 919
			P	UGent	Caluwaerts	Steven	79 660	
			P	ULiège	Fettweis	Xavier	219 003	
			P	VITO	Lefebvre	Filip	88 151	
			P	KU Leuven	van Lipzig	Nicole	219 003	
DAMOCO	Closing the DATA gap to develop Land Surface MODEls for CONgo Basin forests	4 years	C	UGent	Verbeeck	Hans	434 700	983 320
			P	UGent	Boeckx	Pascal	0	
			P	ULiège	Fayolle	Adeline	31 500	
			P	MRAC-KMMA	Hubau	Wannes	367 920	
			A	INERA (RD Congo)	Angoboy	Bhély	69 600	
			A	UNIKIS (RD Congo)	Makana	Jean-Rémy	79 600	
DERISC	Deep learning based Extreme Rainfall and flood warnings through Seamless foreCasting	4 years	C	IRM-KMI	De Cruz	Lesley	330 100	741 404
			P	VUB	Munteanu	Adrian	205 234	
			P	KU Leuven	Willems	Patrick	206 070	
E-TREND	Extensible Tools for Renewable ENergy Decision making	4 years	C	IRM-KMI	Termonia	Piet	389 760	1 027 486
			P	IMEC	Gordon	Ivan	199 057	
			P	UAntwerpen	Hellinckx	Peter	214 137	
			P	KU Leuven	Meyers	Johan	224 532	
FOURCAST	FOrest cold and URban heat island effects on Climate Adaptation of biodiversity at different Spatial and Temporal scales	4 years	C	APM	Vandelook	Filip	240 521	999 431
			P	IRM-KMI	Caluwaerts	Steven	262 135	
			P	UGent	De Frenne	Pieter	205 449	
			P	INBO	De Vos	Bruno	91 742	
			P	IRSNB-KBIN	Hendrickx	Frederik	199 584	

GEOTROP	GEOmorphic hazards and compound events in a changing TROPical East Africa	3 years	C	MRAC-KMMA	Dewitte	Olivier	205 991	249 772
			P	VUB	Thiery	Wim	43 781	
			O	NMHH/ECGS (Lux)	d'Oreye	Nicolas	0	
			O	CNRS/EOST (France)	Malet	Jean-Philippe	0	
			O	UFZ (Germany)	Zscheischler	Jakob	0	
INT-ORB	A self-consistent study of the internal evolution of icy satellites coupled to the evolution of orbital motion and of dissipation in the central planet	4 years	C	ORB-KSB	Van Hoolst	Tim	393 791	393 791
LEAP	Learning from the past: The impact of abrupt climate changes on society and environment in Belgium	3 years	C	IRSNB-KBIN	Deforce	Koen	116 548	998 036
			P	IRPA-KIK	Boudin	Mathieu	92 404	
			P	UGent	Crombé	Philippe	281 182	
			P	VUB	Snoeck	Christophe	269 252	
			P	IRSNB-KBIN	Verheyden	Sophie	238 650	
MODEVECO	Study of vector competence and other aspects of vector capacity of Belgian mosquitoes for zoonotic flaviviruses, with focus on West Nile virus and Japanese encephalitis virus	4 years	C	Sciensano	De Regge	Nick	492 438	492 438
			P	Sciensano	Cargnel	Mickaël	0	
			P	Sciensano	Sohier	Charlotte	0	
MOMENTUM	MesOscale Modelling for ExoMars TGO/NOMAD To Understand gravity waves in the Martian atmosphere	2 years	C	IASB-BIRA	Neary	Lori	233 620	233 620
PLATINUM	PLAnetary plasma Turbulence and Intermittency – coupling with interplanetary transients from data analysis and NUmberical Modelling	3 years	C	IASB-BIRA	Echim	Marius	217 141	458 737
			P	KU Leuven	Lapenta	Giovanni	145 042	
			P	ORB-KSB	Rodriguez	Luciano	96 554	
			O	ISS (Romania)	Teodorescu	Eliza	0	
RECARBON	Restoring carbon sinks in floodplains through different land use practices	4 years	C	KU Leuven	Verstraeten	Gert	369 621	1 039 213
			P	IRPA-KIK	Boudin	Mathieu	155 925	
			P	INBO	Lettens	Suzanna	262 906	
			P	ULiège	Meersmans	Jeroen	250 761	
TAPIOWCA	long-Term Assessment, Proxies and Indicators of Ozone and Water vapour changes affecting Climate and Air quality	3 years	C	IASB-BIRA	Hubert	Daan	196 949	285 672
			P	ULB	Coheur	Pierre	88 723	
UNTANGLE	Understanding the role of transposons as novel forces in genomic landscapes	4 years	C	IRSNB-KBIN	Schön	Isa	246 771	246 771
VERBE	Towards a greenhouse gas emission monitoring and VERification system for Belgium	4 years	C	IASB-BIRA	De Maziere	Martine	407 755	724 813
			P	UAntwerpen	Gielen	Bert	158 529	
			P	ULiège	Heinesch	Bernard	158 529	
			O	DLR (Germany)	Marshall	Julia	0	
			O	CEA (France)	Ramonet	Michel	0	

Pillar 2. Heritage science								
Acronym	Title	Project Duration	Type Partner	Institute	Name	Firstname	Budget (EUR)	Total (EUR)
BELCOHORT+	Bringing together existing population health data collections into a Belgian population-based cohort to evaluate dynamically the interaction between health, environment and society to support more targeted policy	3 years	C	Sciensano	Van der Heyden	Johan	497 965	497 965
BelgicaWeb	BelgicaWeb - Sustaining access to Belgium's born-digital heritage	3 years	C	KBR	Geeraert	Friedel	287 080	575 459
			P	UNamur	de Terwangne	Cécile	85 700	
			P	UGent	Mechant	Peter	202 679	
Be-MUSIC	A Plurivocal Acces to Belgian Musical Heritage	4 years	C	MRAC-KMMA	Jadinon	Rémy	279 820	558 800
			P	MRAH-KMKG	Willaert	Saskia	278 980	
COLLINT	Internment of suspects of collaboration in Belgium (1944-1946)	2 years	C	WHI	Nefors	Patrick	152 622	371 000
			P	ERM-KMS	Horvat	Stanislas	218 378	
COLOURINPALAEO	To colour or not to colour: COLOUR patterns and pigments in INvertebrates from the PALAEOzoic of Belgium	4 years	C	IRSNB-KBIN	Mottequin	Bernard	230 999	230 999
			O	IPANEMA (France)	Gueriau	Pierre	0	
CONteXT	CONgolese heritage objects examined and contextualized through X-ray Tomography	2 years	C	MRAC-KMMA	Genbrugge	Siska	172 325	176 000
			P	UGent	Van den Bulcke	Jan	3 675	
DASA	Digital Animal Sound Archive project	2 years	C	IRSNB-KBIN	Brabant	Robin	153 343	191 459
			P	Natagora	Brabant	Claire	19 058	
			P	Natuurpunt	Lambrechts	Jorg	19 058	
DIGICOLJUST-2	"Military Violence and its (Dis)Contents in Colonial Congo: Sharing the Records, Writing the History"	4 years	C	AGR-ARA	Tallier	Pierre-Alain	196 502	602 442
			P	VUB	Henriet	Benoit	230 690	
			P	ULB	Lauro	Amandine	175 250	
FARSuN	Findability and Accessibility of historical (1610-1980) Raw Sunspot Numbers	4 years	C	ORB-KSB	Lefevre	Laure	297 385	499 816
			P	UCLouvain	von Sachs	Rainer	202 431	
			O	Obs. Paris (France)	Cecconi	Baptiste	0	
			O	UEX (Spain)	Vaquero	Jose	0	
For2-BioB	Management and development of forensic biobanks at operational and policy levels in Belgium	2 years	C	NICC-INCC	Renard	Bertrand	125 034	444 528
			P	UCLouvain	Hausman	Jean-Marc	168 149	
			P	NICC-INCC	Steuve	Séverine	151 345	

Mero-Jewel	Production, Materials and Exchange of Merovingian Jewellery (5th-8th centuries)	4 years	C	MRAH-KMKG	Claes	Britt	222 073	340 431
			P	ULiège	Van Wersch	Line	61 705	
			P	IRPA-KIK	Wouters	Helena	56 653	
MUTER	MUseum epigenomics as a Toolbox in Evolutionary Research	2 years	C	IRSNB-KBIN	Vangestel	Carl	161 962	161 962
			P	UGent	Asselman	Jana	0	
			O	UU (Sweden)	Guschanski	Katerina	0	
ORG-ID	Identification and 14C Dating of Organic Materials in Archaeological Ceramics	2 years	C	IRPA-KIK	Boudin	Mathieu	212 729	212 729
			P	UGent	Crombé	Philippe	0	
			P	UGent	De Clercq	Wim	0	
			P	IRSNB-KBIN	Deforce	Koen	0	
PaReS	Painted Relic Shrines in Situ. Study of the materials, techniques, function and use of painted relic shrines.	4 years	C	IRPA-KIK	Reyniers	Jeroen	387 957	646 684
			P	ULB	Debeir	Olivier	139 942	
			P	ULB	Henderiks	Valentine	3 665	
			P	UAntwerpen	Janssens	Koen	115 120	
PERISSORIGIN	Origin and early radiation of perissodactyls based on precious fossil collections	2 years	C	IRSNB-KBIN	Smith	Thierry	164 955	164 955
			O	IVPP (China)	Bai	Bin	0	
			O	Umontpellier (France)	Lebrun	Renaud	0	
PRECIP-PREDICT	Development of innovative dynamical approaches for short-term PRECIPitation PREDICTION based on long-term radar datasets	4 years	C	IRM-KMI	Vannitsem	Stephane	295 838	495 422
			P	VUB	De Cruz	Lesley	199 584	
PROMA	Provenance Research for Museum Audiences	3 years	C	MRAC-KMMA	Cornelissen	Els	175 948	175 948
ProvEnhance	Enhancing the provenance data of the collections of the Royal Museums of Fine Arts of Belgium (RMFAB) since 1933. Scientific study, digital valorization and narrative in context	4 years	C	MRBAB-KMSKB	Alexandre	Aude	403 616	676 442
			P	AGR-ARA	Luyten	Dirk	0	
			P	ULB	Oosterlinck	Kim	272 826	
			O	TU Berlin (Germany)	Hopp	Meike	0	
REIGN	Reconstructing the Ghent knowledge center of the Counts & Countesses of Flanders, 11th-18th C.	4 years	C	AGR-ARA	Verfaillie	Joke	299 925	299 925
ReSoXy	Resounding the Musical Heritage of the Xylophone Collection from RMCA	3 years	C	MRAC-KMMA	Jadinon	Rémy	120 000	120 000
VAMOS	Venus Atmosphere exploration through machine learning and open science in preparation to EnVision	4 years	C	IASB-BIRA	Vandaele	Ann C.	434 809	999 895
			P	LUCA	Claes	Sandy	5 775	
			P	UNamur	Frénay	Benoît	327 429	
			P	KU Leuven	Sermeus	Jan	231 882	

Pillar 3. Federal societal challenges

Acronym	Title	Project Duration	Type Partner	Institute	Name	Firstname	Budget (EUR)	Total (EUR)
BeCoDigital	Digital Co-Creation of Public Services with Citizens: Understanding Pre-Conditions, Technologies and Outcomes	2 years	C	UNamur	Simonofski	Anthony	209 885	593 032
			P	Sciensano	Saelaert	Marlies	33 940	
			P	KU Leuven	Snoeck	Monique	182 767	
			P	UAntwerpen	Verhoest	Koen	166 440	
BE-FAST	Data Infrastructure and Indicators for Fast Monitoring of Social and Labour Market Developments in Belgium	2 years	C	KU Leuven	Van Lancker	Wim	257 335	425 734
			P	UAntwerpen	Marchal	Sarah	168 399	
Be-ForIntel	Building the foundations of a forensic intelligence tool in Belgium	3 years	C	NICC-INCC	Renard	Bertrand	242 954	485 989
			P	NICC-INCC	Gason	Fabrice	0	
			P	UGent	Vander Beken	Tom	0	
			P	UGent	Vandeviver	Christophe	243 035	
			O	UNIL (Switzerland)	Ribaux	Olivier	0	
BEPIDS	Belgian Economic Potential in the Industry of Defence and Security	2 years	C	ERM-KMS	Du Bois	Cind	220 850	321 449
			P	VUB	Buts	Caroline	100 599	
BEvitalise	Revitalising the Belgian Circular Consumer: No time to waste food, nor electronics	2 years	C	UAntwerpen	Bjornavold	Amalie	89 983	89 983
			P	KU Leuven	Rousseau	Sandra	0	
CAMBIUM	Circular Material flows in Belgium	3 years	C	VITO	Christis	Maarten	148 500	247 500
			P	ICEDD	Orsini	Marco	99 000	
CHANGE	Changing work, changing incomes: designing a responsive social protection system for all	4 years	C	UAntwerpen	Marchal	Sarah	400 192	937 178
			P	ULB	Dumont	Daniel	297 559	
			P	KU Leuven	Van Lancker	Wim	239 427	
DIGIPOL	Digitalizing the police: internal and external challenges for the police organization in an inclusive society	4 years	C	NICC-INCC	Tange	Carrol	373 167	785 670
			P	ULB	Bingen	Aline	0	
			P	VUB	De Kimpe	Sofie	192 563	
			P	ULB	Maskens	Maité	219 940	
			P	VUB	Melgaço	Lucas	0	
			P	NICC-INCC	Renard	Bertrand	0	
			P	ULB	Smeets	Sybille	0	

E4BEL	Equity, Environment, Energy, Economy: An investigation into the equity, efficiency and acceptability of carbon pricing in Belgium	4 years	C	BFP-FPB	Van Steenberghe	Alex	334 649	1 011 775
			P	KU Leuven	Bachus	Kris	342 568	
			P	KU Leuven	Decoster	André	334 558	
FedDiverse	Ethnic diversity in federal public services	2 years	C	VUB	Verhaeghe	Pieter-Paul	149 189	315 000
			P	UGent	Derous	Eva	165 811	
			P	UCLouvain	Desmette	Donatienne	0	
HAIOPOLICY	The impact of Covid-19 on heterogeneous households and businesses, and implied optimal policies.	4 years	C	ULB	Magerman	Glenn	534 301	881 047
			P	KU Leuven	Konings	Joep	346 746	
INTERCEPT	Monitoring the trade of exotic animals, wild meat and the pathogens they carry	2 years	C	IRSNB-KBIN	Gryseels	Sophie	294 387	323 787
			P	UAntwerpen	Leirs	Herwig	0	
			P	Sciensano	Ramaekers	Kaat	18 900	
			P	MRAC-KMMA	Smits	Nathalie	10 500	
LAMIE	The labour market disadvantage of citizens with a migration background: from measuring to explaining and remedying	4 years	C	UGent	Baert	Stijn	138 259	535 004
			P	UAntwerpen	Marx	Ive	79 349	
			P	ULB	Rycx	François	158 698	
			P	UMONS	Volral	Mélanie	158 698	
RE-BOrn	REturn to work after BurnOut	3 years	C	UGent	Derous	Eva	170 511	314 711
			P	UGent	Baert	Stijn	0	
			P	UGent	Braeckman	Lutgart	0	
			P	ULiège	Hansez	Isabelle	144 200	
SUSFOODBEL	Transitioning to healthy diets from sustainable food systems in Belgium: Priority policy actions and their multiple sustainability impacts	4 years	C	Sciensano	Vandevijvere	Stefanie	364 089	945 657
			P	ULB	Achten	Wouter	97 962	
			P	Sciensano	Berger	Nicolas	83 680	
			P	Sciensano	Devleeschauwer	Brecht	0	
			P	UGent	Dewulf	Jo	107 609	
			P	KU Leuven	Mathijs	Erik	292 317	
SUSHY	Towards sustainable hybrid work: the study of hybrid work effects on well-being, productivity and environment	4 years	C	UCLouvain	Taskin	Laurent	457 425	1 076 484
			P	UNamur	Castiaux	Annick	148 530	
			P	VUB	Vanroelen	Christophe	186 941	
			P	UCLouvain	Jeanmart	Hervé	283 588	