

BEODay 2023

Floreffe – 9 March 2023



Programme

10:00	Opening of the Workshop
10:15	The STEREO IV programme
11:15	ESA Future EO block 4 programme: funding opportunities
12:15	Lunch
14:00	The first STEREO IV projects
14:55	Belgian and ESA climate activities
15:15	Other announcements and opportunities in EC
15:45	Coffee & Networking

Closure of the Workshop





9/3/2023

16:30









THE STEREO PROGRAMME



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The STEREO team



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OUTCOME STEREO III PROGRAMME



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STEREO III accomplishments: valorisation and support

- New website launched in October 2018.
 - News items published last year: 251
 - Webstories published since October 2018: 57
 - Events and Opportunities published last year: 219
- Events (co-)organized during STEREO III:
 19 (including IGARSS 2021) + 9 sponsored
- Satellite images acquired:
 935 for 23 projects

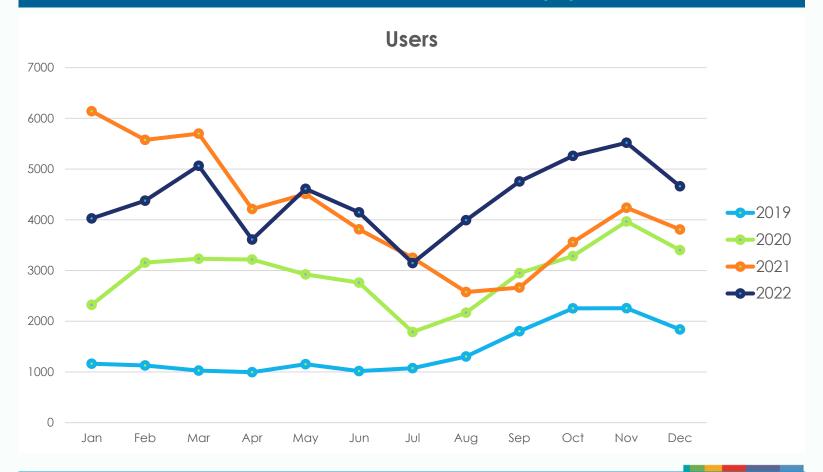








STEREO III accomplishments: valorisation and support



Belgian Earth Observation Website: http://eo.belspo.be



STEREO III projects in figures

Promotors and organisations:

	Belgium	Foreign
Promotors	133	56
New to STEREO	94	51
New to RS	15	
PhD students	37	
Research departments/labs	58	44
Organisations	27	43
Number of countries		16

Peer reviewed papers:

Conference presentations/posters:

• Open access software/data:

450 and counting

287/75

34/16



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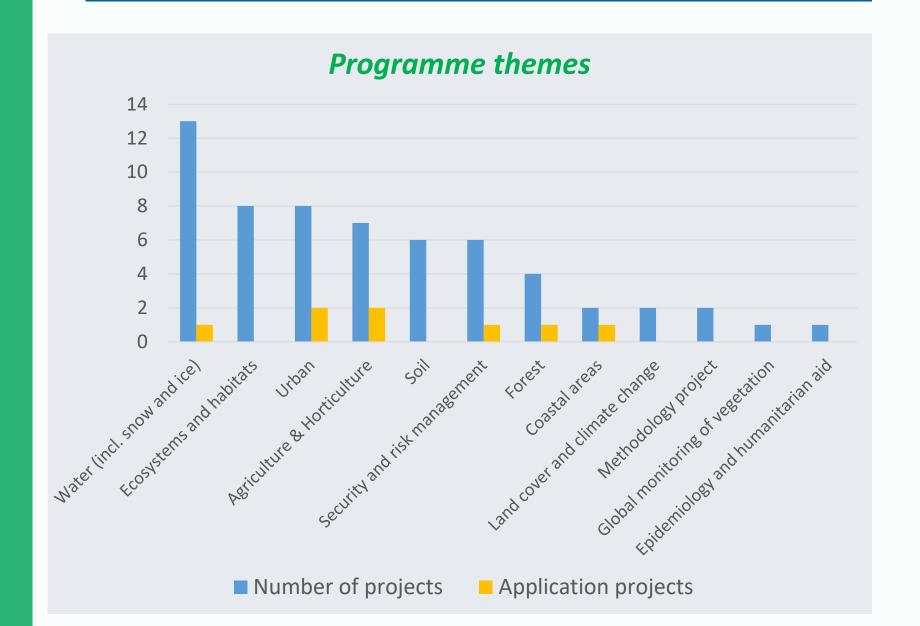
Projects and paper output



Project type	# of projects	# of pa	pers	
PROJECTS RESULTING F				
Thematic projects	15	247		
Exploration projects	28	151		
Innovation	18		101	
Spin-off	7		38	
BELAIR	2		7	
PROBA-V	1		5	
Application projects	3 industry/ 4 administrations	6		
Shared cost projects	7	21	+ 39) in
DISSUP projects	38	16	prepar / subn	
TRANSVERSAL SUPPORT	T PROJECTS		/ Subii	iitteu
	20	8		
TOTAL	BEODAY 20 <mark>2</mark> 815	45	0	00



Projects per programme theme





International standing STEREO III scientists

List of world's top scientists per discipline:

29 Belgian SRIII promotors are represented (22%) (https://research.com/)



ENVIRONMENTAL SCIENCES	ECOLOGY AND EVOLUTION	EARTH SCIENCE
17	6	3
ENGINEERING AND TECHNOLOGY	COMPUTER SCIENCE	PLANT SCIENCE AND AGRONOMY
1	1	1

• List of highly-cited scientists (https://clarivate.com)

2021	2022
5	5

2022 list of top rising stars in science

(oldest publication is from 12 or less years ago -

https://research.com/scientists-rankings/rising-stars)

1 STEREO promotor





STEREO III EVALUATION



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SRIII programme evaluation

- Contract carried out by consortium DIALOGIC / EFI
- Executed second semester of 2021 (several projets still ongoing at the time)
- Evaluation steps:
 - Portfolio analysis
 - Bibliometrics (scientific impact)
 - Survey
 - Interviews
 - Workshop on impact pathways
- Expert panel to validate results evaluation 8 international experts







RECOMMENDATIONS FROM STEREO III EVALUATION



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Appraisal by Expert Panel

Programme management

- Well-structured well managed
- Minor administrative burden
- Diversity of calls
- Evaluation process
- Steering Committees

Community building

- BEODAYS
- Networks
- International partners

Research

- Open science approach
- Strong impact
- Complementing operational projects
- Catalyst for external projects

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Career booster



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Recommendations



Focus on high quality research

Keep variety of project types

Keep international character of projects

Foster new talent



Connect fundamental research with societal needs

Connect projects and groups

Connect research and policy makers and industry

Connect STEREO with ESA and EU



Share datasets and tools

<u>EO = satellite + airborne + in-situ</u>





ELABORATION OF STEREO IV PROGRAMME (2022 – 2029)



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Programme structure

Organization of tasks in 2 pillars

RESEARCH SUPPORT

- Call management (definition, launch, evaluation, selection)
- Project funding
- Project supervision

VALORISATION AND SUPPORT

- Communication (website, newsletter, Twitter, ...)
- Events
- Data acquisition
- Toolbox
- Cal/val activities
- Training

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19



Programme objective

Maintaining a Belgian topnotch, dynamic and visible remote sensing community

Subobjectives

Facilitating quality research

Increase the visibility of Belgian RS research

Support building a dynamic RS community







Research themes

Impact **Climate change** on terrestrial/marine environments (data exploitation, monitoring, modelling, mitigation strategies)



In line with European initiatives and Belgian priorities

Advanced Monitoring and Assessment of **Hazards** (including pandemics)



Monitoring **Environment** for improved environmental health and **Biodiversity**

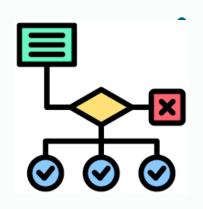


Geo-information for Sustainable and **Green**Cities





Programme priorities



Methodological priorities

- Al and deep learning
- Big data exploitation
- Use of multimission and multi-scale data:
 from space over airborne to close sensing



Sensor priorities in addition to Sentinel

- Thermal
- Hyperspectral
- LiDAR





Programme priorities

Managerial priorities

@ Project level

- Open access to data and publications
- Social media and non-traditional communication
- Reduction of carbon footprint
- Support of young career scientists
- Collaboration with other STEREO projects
- Collaboration with TERRASCOPE and Climate Centre

@ Programme level

- Increased international collaboration
- Support of young career scientists and start-ups
- Uptake by new users (new disciplines and non-space industries)
- Foster collaboration with TERRASCOPE and Climate Center
- Prepare use of data from ALTIUS and NITROSAT

Contact Jurgen

<u>EVERAERT</u>



Contact Ella JAMSIN



Funding beneficiaries

Eligible for project funding

- □ Belgian organisations:
 - Universities, public and non-profit research institutions





□ Foreign organisations

- Universities, public and non-profit research institutions
- Max. 20 % of project budget on basis of fund matching
- Must make substantial scientific contribution to project





Project Types

Thematic network projects



Call 2023

Exploration projects



Call 2022 and 2024

- Early career scientist grants
- Applications projects
- Shared cost projects

See next

- Dissemination and support (DISSUP) projects
- Cal/val activities





Project Types - II

- Exploration projects
 - Small-scale projects with focus on innovation in RS:
 - Duration 1 to 3 years
 - Executed by 1 to 3 Belgian teams international team optional
 - The projects are directed at either:
 - Investigating new concepts, technologies and sensors- high risk projects encouraged (INNOVATION PROJECT)
 - Exploring a new research track resulting from previous BELSPO projects (SPIN-OFF PROJECT)

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Project Types - III

Early career scientist grant

- 2nd half of programme
- Grants of max. 2 years to promising young scientists
- To carry out innovative remote sensing research in a Belgian host laboratory of their choice
- Outlines still to be defined





Project Types - IV

Application projects

- Knowledge and technology transfer between research institutions and Belgian public administrations or private companies
- Non-research organisations in the driver's seat
- Potential gains in resources, efficacy or business must be clearly demonstrated
- Non-research organisations cannot obtain funding
- Max. duration 3 years Max. 3 research teams



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Project Types - V

Shared cost projects

- Co-financing for a Belgian partner who was selected for an international, bilateral, regional or national project but did not receive a 100 % financing
- Mother project must be selected upon basis of peer review
- Only the part of project dealing with remote sensing can be financed
- Co-funding for a Belgian participation in transnational programmes such as ERA-nets is also possible

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Project Types - VI

- Dissemination and support (DISSUP) projects
 - Small short-term projects maximum duration of 6 months budget not exceeding € 30,000
 - They concern a.o.:
 - Writing up of papers of project research output not initially foreseen or not yet mature by the end of the project
 - Rendering software written for a specific project accessible for RS community
 - Small dedicated research needed for BELSPO or to support use of remote sensing in an unserved specific research domain
 - Linking up of two STEREO projects through comparison of approaches, testing of methodology in study site of other project, joint paper,
 - Training grant for scientist
 -





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VALORISATION AND SUPPORT – ACTIVITIES

Support at EO events such as today!

Outreach BEO website, newsletter, Twitter

Image Acquisition EO imagery for use in

STEREO projects

Training aimed at researchers Cal/val activities of tools and instruments

Toolbox support STEREO-generated software and datasets





VALORISATION AND SUPPORT – OUTREACH

1. Belgian Earth Observation website https://eo.belspo.be

- Launch date: October 2018
- Almost 3,000 pages content in EN FR NL
- More than 3,000 entries in the Directory section
- 49,000 visitors from all over the world (1/3 from Belgium) 110,000 page views / last 12 months



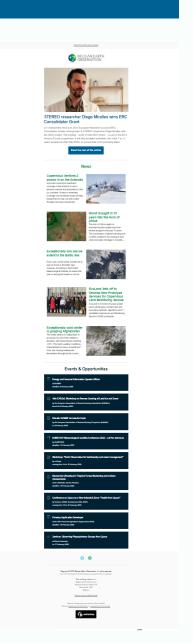




VALORISATION AND SUPPORT – OUTREACH

2. Newsletter

- Twice monthly newsletter sent out to 1,000+ subscribers
- Strong focus on STEREO projects and announcements from partners
- projects get highlighted via a webstory (~once a month)
- Subscribers : 50 % Belgian 30 % STEREO
- Average open rate: 57.3% (peers' performance: 35.2%)
- Average click rate: 14.7% (peers' performance: 5.6%)
- 68 % subscribers highly engaged (often open & click)



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VALORISATION AND SUPPORT – OUTREACH

3. Twitter @BelgianEO

- Account created on 14/02/2020
- 1122 tweets in total, averaging 7.0 tweets per week
- Tweets and retweets focused on
 - Activities of our researchers;
 - News aimed at our (growing!) community
- From 0 to 1487 followers in just 3 years
- Currently planning to expand to other platforms (for obvious reasons)









VALORISATION AND SUPPORT – IMAGE ACQUISITION

- 1. Image acquisitions for BELSPO-funded projects
 - during STEREO III: 935 images for 23 projects
 - All images ever acquired: available in STEREO archive
- 2. Pléiades 4 Belgium <u>Pleiades4Belgium.be</u>
 - Platform available to all institutional users
 - Much lower cost for purchase of (new/archive) data
 - Free use of all imagery already purchased (BE cover!)
- 3. Helping users find their way to other distribution portals
 - Notably freely available data (Copernicus, Landsat, ...)



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WEBSTORY – SOME GUIDELINES

Outreach activities in STEREO IV more and more aimed at general public

- ✓ More frequent updates on STEREO and its projects
- ✓ Articles that are:
 - Shorter
 - less jargon/graphs
 - more "visual"
- ✓ Content: not just big steps or end results, but also:
 - Interesting facts/finds along the way
 - Pictures from lab/field
 - Interviews with new researchers/institutes
 - Anything that is remarkable, shareable, "tweetable"





Calendar of calls

	2022*	2023	2024°	2025	2026	2027	2028	2029
FIXED CALL								
Thematic								
Exploration	8							
OPEN CALL								
Early career scientists grant								
Applications	1							
Shared cost								
DISSUP	1							

CAL-VAL and Toolbox activities: after negotiation – funded by valorisation budget line

*: number of projects granted

": joint call with other country investigated

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2023 Call for Proposals

Thematic network projects

- Budget: 8 M€
- Multi-annual multidisciplinary and inter-disciplinary projects
- Duration: 4 to 5 years
- Aimed at fundamental to application-oriented research
- Innovation is key: new RS data, new methodologies, innovative thematic use of RS, introduction RS in new research domain
- Must address global societal challenges listed in thematic priorities
- Partnership: 2-4 Belgian research teams and mandatory 1-2 international team(s)
- Inclusion of teams from Flemish and French community
- Frame for PhD research
- There should be a genuine synergy between all project partners (joint papers and PhDs, stays and training of staff at partner institutes)



Timeline and Evaluation Steps

Launch call	12 February 2023		
Submission of expressions of interest	31 March 2023		Contact
Feedback on expressions of interest by Programme Managers	14 April 2023		us
Submission of proposals	9 June 2023	J	
Written evaluation:			
Oral defence of proposals rated best:	Mid-September 2023		
6 panel members – 20 ' Q & 25' A	2023		
Selection of proposals by STEREO Programme Board	Early October 2023		Rankin
Approval of selection by State Secretary of Science Policy		(
Start of contracts	December 2023		
lake sure your proposal is not on't hesitate to contact us to a	b	elspo	



Evaluation criteria

Written Evaluation

- Compliance with call
- Scientific quality
- Quality of partnership
- Exploitation plan
- Feasibility

Review Panel

- Presentation
- Knowledge of domain
- Innovative character of proposal
- Motivation of presenter(s)
- Clarity and relevance of answers



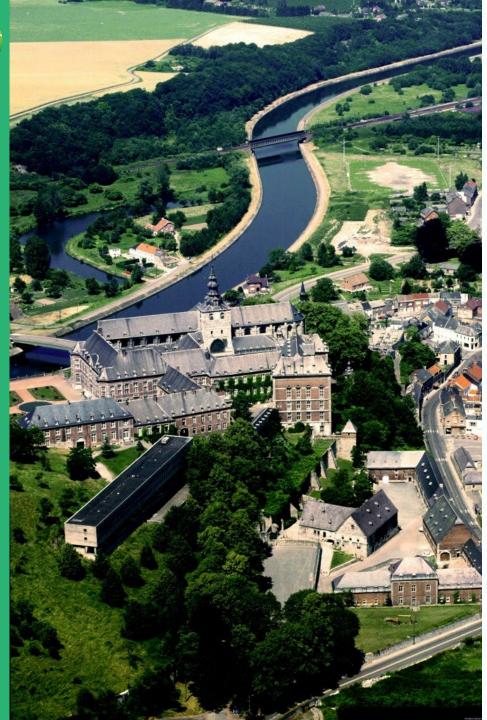


Further information

- Contact STEREO team here or via e-mail
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 - Martine Stélandre stel@belspo.be
 - Joost Vandenabeele <u>vdab@belspo.be</u>
- Go to website
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Thank you for your attention

Questions?

