

Interbull Business Meeting

20 May 2024



THE GLOBAL STANDARD FOR LIVESTOCK DATA





Interbull Business Meeting

Matthew Shaffer Interbull Steering Committee Chair











Please silence your mobile phones

Please use the microphone and state your name

Official Delegates, please sign your name on the paper



Business Meeting Delegates

Australia Austria Belgium Canada Croatia Czech Rep. Denmark Estonia Finland France Germany Hungary Ireland Israel Italy Japan

Matthew Shaffer Alain Gillon Brian Van Doormaal Marija Špehar Jiri Splichal Gert Pedersen Aamand Gert Pedersen Aamand Laurent Journaux **Reinhard Reents** Marija Klopčič **Ross Evans** Yaniv Lavon Johannes van Kaam Takefumi Osawa

Latvia Lithuania **Netherlands** New Zealand Norway Poland Portugal Slovakia Slovenia South Africa South Korea Spain Sweden Switzerland United Kingdom Uruguay **USA**

- Erna Galvanovska Vytenis Čukauskas Gerben de Jong
- Janez Jenko Sebastian Mucha Adriana Pereira Marija Klopčič Marija Klopčič **Bernice Mostert** Chang-gwon Dang **Daniele Vicario** Gert Pedersen Aamand Urs Schnyder Raphael Mrode **Ezequiel Nicolazzi Ezequiel Nicolazzi**



Interbull Business Meeting Item 2: Adoption of agenda

Item 2: Adoption of agence Matt Shaffer



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Business Meeting Agenda

- Opening and welcome
- 2. Adoption of agenda
- 3. Acceptance of the minutes of the 2023 Interbull **Business Meetings**
- 4. ICAR Update
- Interbull Strategic Plan 5.
- Interbull Governance 6.
- Interbull Centre Director's Report Part 1
- New Traits Pipeline 8.
- Business Funding Models Task Force 9.

- 10. Interbull Centre Director's Report Part 2 11.Interbull Technical Committee / Research and
- Development
- 12. European Union Reference Centre 13. Other Matters and Open Discussion
- **14. Future Events**
- 15.Close



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Interbull Business Meeting

Item 3: Acceptance of the minutes of the 2023 Interbull Business Meetings





Interbull Business Meeting

Item 4: ICAR Update **Daniel Lefebvre ICAR** President



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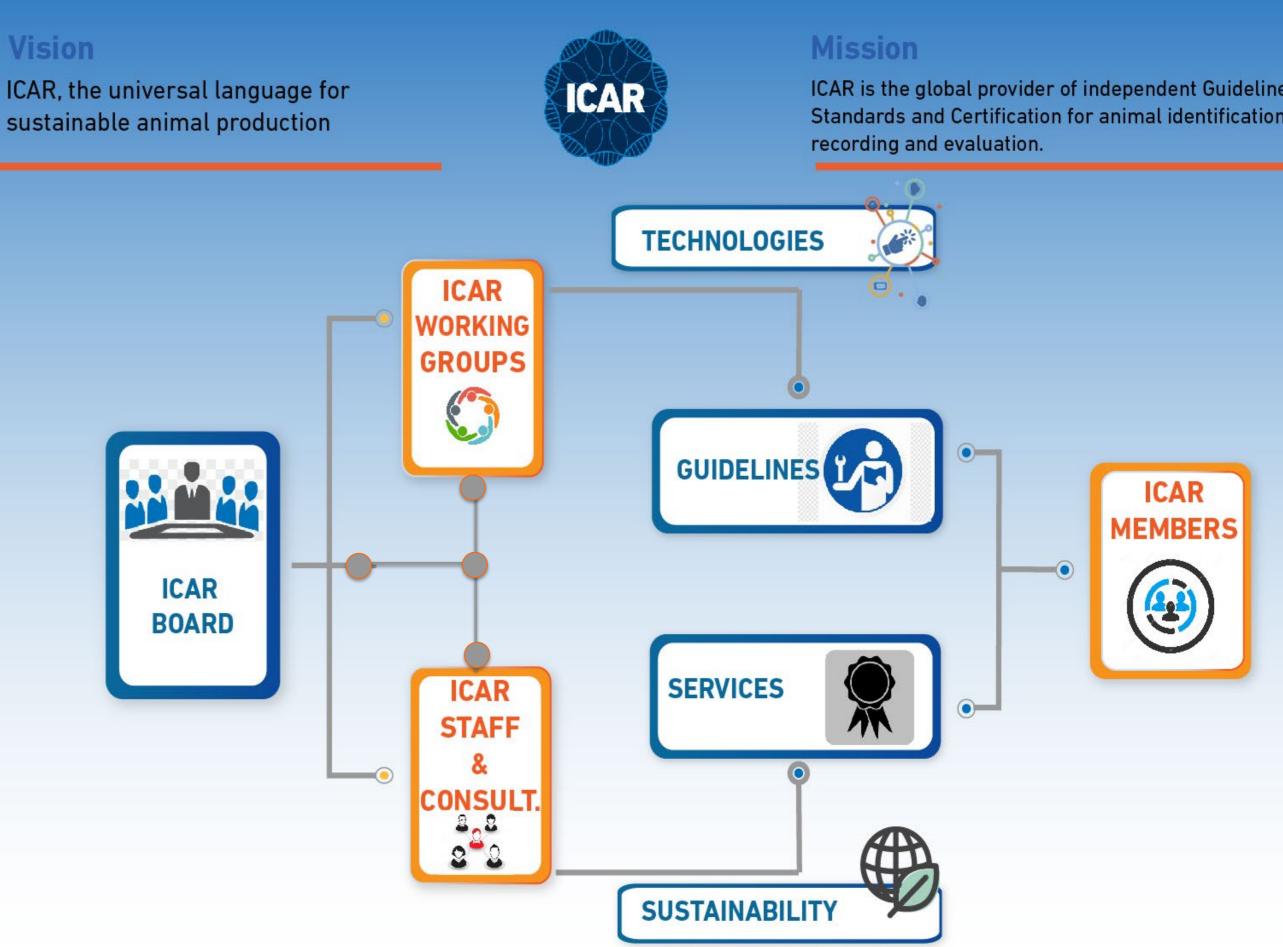
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ICAR UPDATE INTERBULL BUSINESS MEETING

MONDAY 20TH MAY 2024 BLED, SLOVENIA



ICAR Vision & Mission





THE GLOBAL STANDARD FOR LIVESTOCK DATA

ICAR is the global provider of independent Guidelines, Standards and Certification for animal identification,

ICAR GROUPS 2024

2024 ICAR GROUP ACTIVITY | GUIDELINES | HIGHLIGHTS

- **15 Working Groups /** Sub-Committees,
 - Task Force on Sustainability
 - Certificate of Quality Experts Advisory Group
- +190 Experts and Practitioners from our member base
- ICAR boasts 23 sections of Guidelines from Animal ID, Milk Recording, Sampling and Analysis, right through to Genetic **Evaluations and Data Exchange.**
- **2 new sections**, Sustainability / Wool sheep recording.





INITIATIVES

COMMUNITY OF EXPERTS

WHAT DO YOU GET FROM US?

Global Community Benefits & Services

Grow your business

Expand your knowledge

DONE

- MoU IDF, AgGateway
- Strengthen relationship with global organizations and competent authorities
- **SNP-Based Parentage Discovery Certification**
- LinkedIn Community

WHAT ARE WE WORKING ON?

ONGOING

- **Develop regional events** \checkmark
- Website refresh
- **MyICAR**
- Wiki
- **BWYPEX** revamp
- PT on Bull Semen
- **ISO** Certification

Network, Guidelines, Certification,

Uphold professional standards

PLANNED

Implement regional events Be part of strategic projects ICAR Representative: win/win concept

ICAR SERVICES 2024

ANIMAL **IDENTIFICATION**

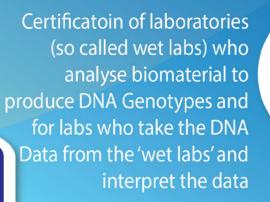
ICAR serves as the Registration Authority for the ISO in specific respect to RFID devices conforming to ISO Standards 11784 and 11785

MILK RECORDING DEVICES

ICAR certifies milk recording devices for compliance with the latest ICAR Recording Guidelines

Provides an international interlaboratory proficiency test programme for milk analysis laboratories

CERTIFICATION FOR DNA ACCREDITED LABS and DNA **INTERPRETATION CENTRE**





The Certificate of Quality demonstrates that a Member provides high quality services according to the ICAR standards and guidelines.

MILK ANALYSERS

T



FOR LIVESTOCK DATA

ICAR certifies milk analysers in THE GLOBAL STANDARD compliance with ISO 8196-3 IDF128-3 and ICAR Recording Guidelines Network, Guidelines, Certification,

MILK ANALYSIS PROFICIENCY TEST

BULL SEMEN PROFICIENCY TEST

To promote equivalence on bull semen evaluation in the Al

WC/SC PROJECTS

- 1. New ICAR service Proficiency Testing for bovine semen quality assessment
- DNA parentage discovery
- Standardization of AMS traits 3.
- Rewrite Section 12/13 (Milk analysers) 4.
- ICAR Device reference ID project 5.
- WIKI project 6.
- **Global Methane Hub**





Concept / protocol

- Worldwide participation of AI laboratories and CASA-producers
- Participants receive straws to analyse via a fixed protocol
- Results are analysed independently (by ICAR according ISO 5725 and ISO 13528)
- Participant receives own performance, and all the other results anonymized



WC/SC PROJECTS

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03. STANDARDIZATION OF AMS TRAITS

- Occasion: different trait definitions between brands of AMS devices.
- For traits like milking speed, box time, failed milkings etc.
- Survey held in spring 2023.
- Output has been discussed in DCMR working group.

Status:

- DCMR has finished definitions on milking speed and box time.
- Shared with several SC/WG within ICAR.
- Will be shared with manufacturers soon after Bled meeting for feedback.



WC/SC PROJECTS

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VERIFICATION OR VALIDATION: OPTIONS FOR APPLICANT

	Milk recording parameters (for official milk recording purposes)	(fa
Laboratory analyser	ICAR Verification	
 On-farm analyser At – line In – line 	ICAR Verification	

Verification* of a milk analyser: performance evaluation according to an ICAR verification protocol against stated ICAR limits for official milk recording purposes by an ICAR appointed testing facility Validation* of a claim: performance evaluation according to a dedicated (case-by-case) ICAR test plan against a manufacturer's claim on milk recording or other parameters in an ICAR appointed testing facility



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*Note:

Use of terms 'validation', 'verification', 'certification' and 'attestation' in Section 11 to be aligned, thereby seeking conformity with use according to international standards.

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Other arm management) parameters

ICAR Validation

ICAR Validation

WC/SC PROJECTS

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05. ICAR DEVICE REFERENCE ID PROJECT

- Occasion: ICAR members have need to know data source (device of measurement) of a record.
- Aim: to have a unique code for each type of device
- Will include both ICAR-certified and non-certified devices
- Will become part of ICAR ADE standards
- MRSD and ADE group involved.
- Manufacturers and members consulted Status:
- Proposal/quote to build a database that can handle devices and ID.
- Will be build these months as part of MyICAR.
- Will be beta tested within ICAR community.



WC/SC PROJECTS

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06. WIKI PROJECT

- November 2023: training by Bruce Golden to ICAR staff and 3 ICAR WG/SC.
- Guidelines of these groups have been turned to Wiki.
- Glossary of terms has been made on Wiki page as well.

Status

- Looking for student who could transition other PDF guidelines to Wiki.
- Groups to check translation.
- When done, new guidelines will be developed in Wiki.
- Wiki will become part of MyICAR.



WC/SC PROJECTS

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07. GLOBAL METHANE HUB

- WUR granted US\$ 5 million for coordination of global program to accelerate genetic progress to reduce methane in ruminants by Bezos Earth Fund (2024 – 2029)
- Key activities:
 - Sharing protocols and data in public domain
 - Enhancing methane recording and data collection
 - **Developing breeding programs**
 - Implementation of routine genetic evaluation
 - Global coordination, program development & management ____

Status:

ICAR and WUR are still defining how to transition from project plans to actions regarding responsibilities and data management structures.











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ICAR ANNUAL CONFERENCE & IDF/ISO ANALYTICAL WEEK 2025 29 March | 04 April INDIA ANAND





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THANK YOU!





Interbull Business Meeting

Item 4: ICAR Update Daniel Lefebvre **ICAR** President



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Interbull Business Meeting Item 5: Interbull Strategic Plan

Item 5: Interbull Strategic P Matt Shaffer

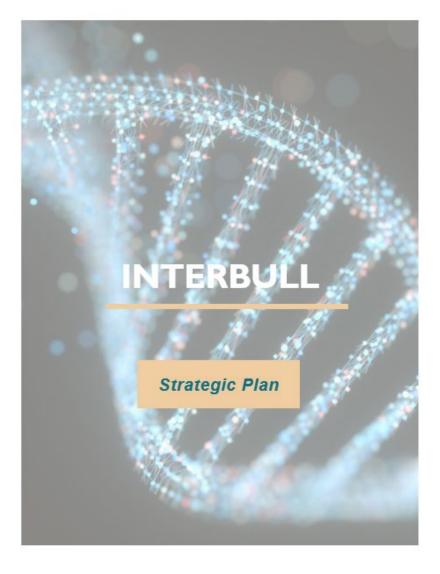


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Developing 2024-2027 Strategic Plan

- Current Documentation:
 - 2020-2023 Interbull Strategic Plan
 - 2022 Interbull Technical Strategic Plan
 - Past survey results (December 2022/January 2023)





Strategic Plan Timeline

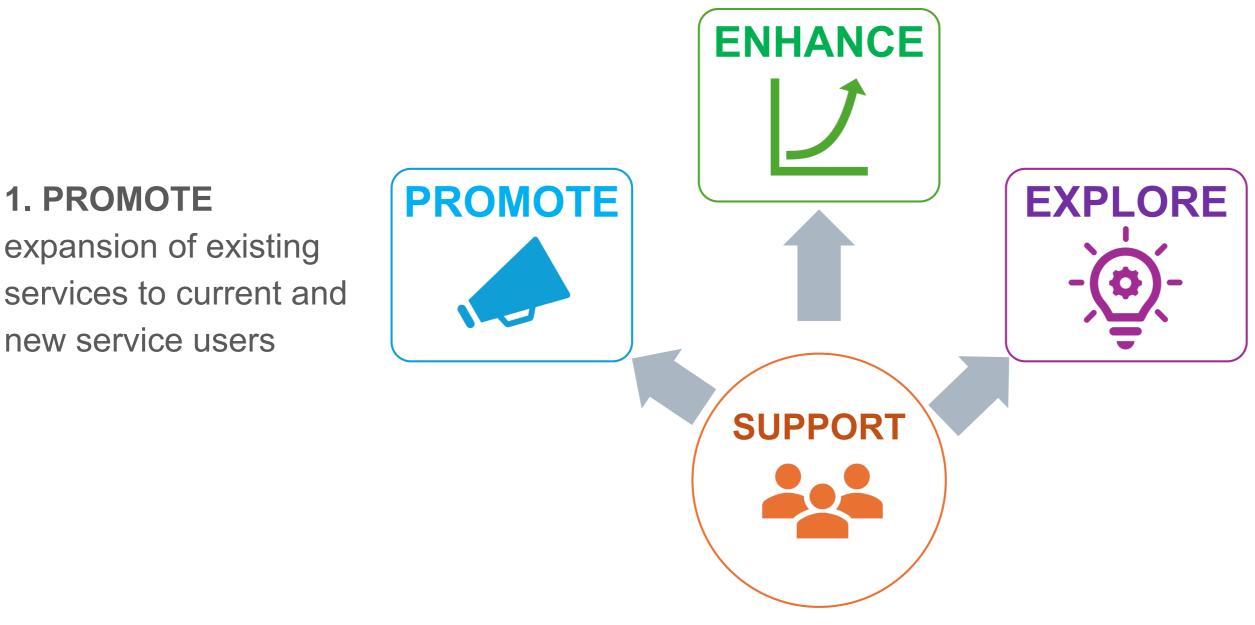






FOUR STRATEGIC PILLARS

2. ENHANCE existing services to increase value and relevance to current and new service users



4. SUPPORT capability and collaboration to effectively deliver and share Interbull's success



3. EXPLORE diversified service options to underpin Interbull's future







- New traits in MACE
- Understanding roadblocks
- Staffing and resourcing
- Promote validation services
- New countries for engagement
- Assess customer satisfaction





Increase participation Maintain quality delivery Increase service satisfaction





- Changed evaluation frequency and timing
- 'Closed' MACE service
- GenoEx-GDE more accessible
- Enhance genetic traits / pedigree exchange services
- Continuous development of methodologies
- Implementation of improvements

- users



OBJECTIVES:

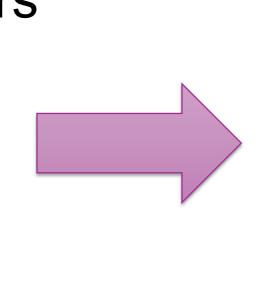
Expand services to new

Incorporate females Improve methodologies





- DataHub concept
- Engage with new service users
- "Borderless" evaluations
- Certification and auditing opportunities
- Services for beef on dairy
- New EU projects / existing ones
- Horizon scanning



OBJECTIVES:



DataHub concept

Understand new user needs

Identify diversified service opportunities





- Streamline internal processes and implementation activities
- Enhanced project management capacity
- Engagement with ICAR and its Working Groups.
- Fit-for-purpose structure for future roles and activities



OBJECTIVES:

Sustainable financial base Right capability and capacity Effective collaboration Value for participants









	PROMOTE	ENHANCE	EXPLORE
(expansion of existing services to current and new service users	existing services to increase value and relevance to current and new service users	diversified service option underpin Interbull's fu
•	Increase participation Maintain quality delivery Increase service satisfaction	 Expand services to new users Incorporate females Improve methodologies 	 DataHub concept Understand new us needs Identify diversified s opportunities
	 New traits in MACE Understanding roadblocks Staffing and resourcing Promote validation services New countries for engagement Assess customer satisfaction 	 Changed evaluation frequency and timing 'Closed' MACE service GenoEx-GDE more accessible Enhance genetic traits / pedigree exchange services Improvement of methodologies Implementation of enhancements 	 DataHub concept Engage with new set users Borderless evaluation Certification and autopportunities Services for beef or New EU projects / existing ones Horizon scanning



SUPPORT

options to Il's future	capability and collaboration to effectively deliver and share Interbull's success
pt v user ed service	 Sustainable financial base Right capability and capacity Effective collaboration Value for participants
pt w service uations d auditing ef on dairy s /	 Streamline internal processes and implementation activities Enhanced project management capacity Engagement with ICAR and its Working Groups. Fit-for-purpose structure for future roles and activities



Interbull Business Meeting Item 5: Interbull Strategic Plan

Item 5: Interbull Strategic P Matt Shaffer



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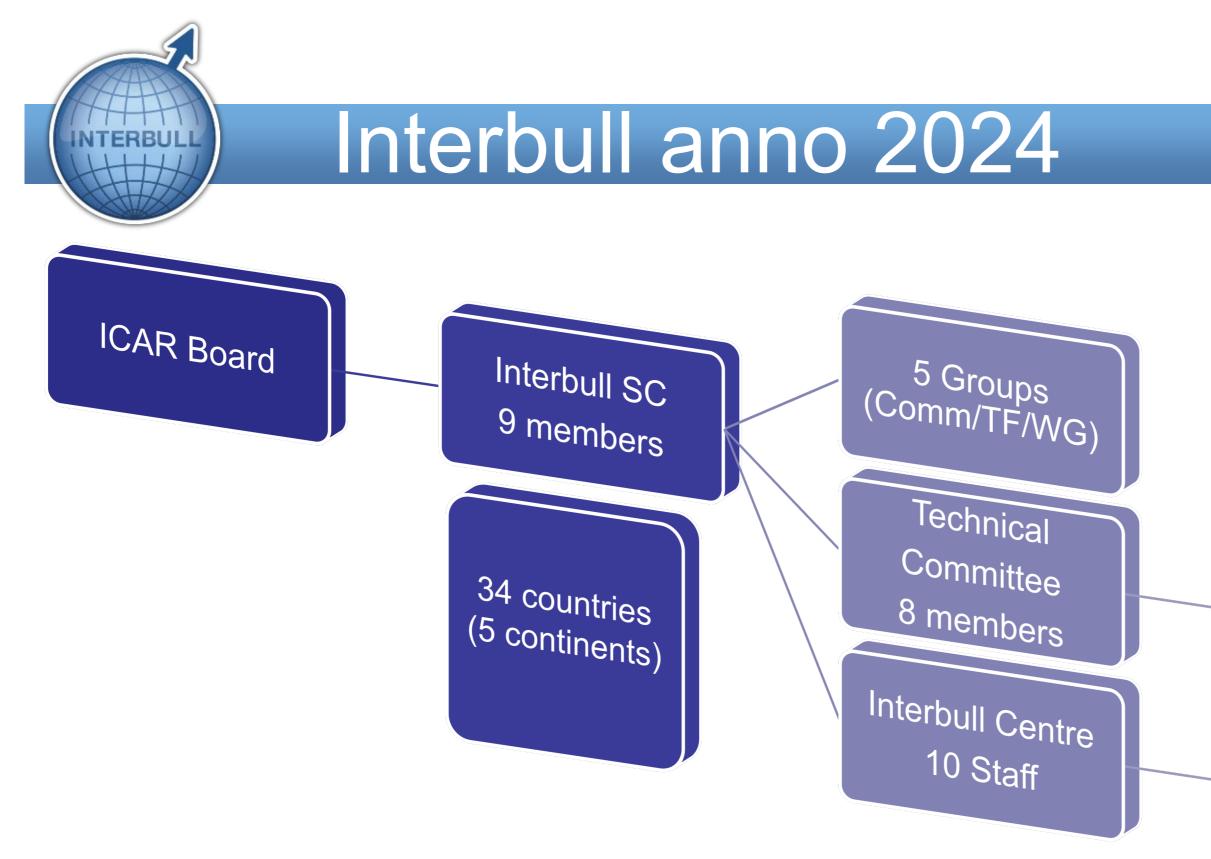
Interbull Business Meeting

Item 6: Interbull Governance Matt Shaffer



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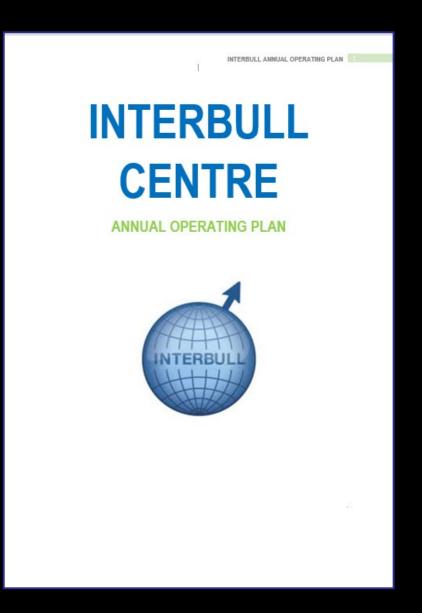


35 Genetic Evaluation Centres

MACE GMACE InterGenomics Validations Genetic Data Exchange

Business Meeting Materials





www.interbull.org/ib/itbcreports



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Item 6: Interbull Governance Annual Operating Plans: Achievements and Priorities Matthew Shaffer



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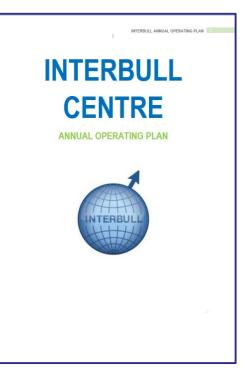
Key Achievements 2023

- Completed the implementation of Governance Review Recommendations
- Review/introduction of Business Models and Service Fees:
 - MACE
 - Genetic Traits Exchange
- Brown Swiss added to Genetic Traits Exchange
- Maintain high quality delivery
- Technical Workshop in Rome, Italy
- Annual Meeting in Lyon, France with EAAP
- Published Interbull Bulletin Issue no. 58 and 59.





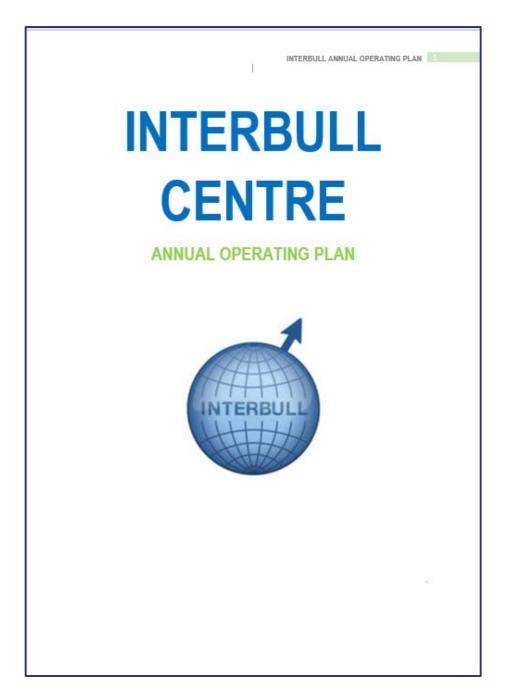






Key Priorities 2024

- Strategic Plan: finalise and start implementation
- Maintain high quality delivery
- Launch new Interbull website
- Increase visibility of EURC Zootechnics
- Improved GEBV test software
- Implement Future MACE software
- Increase service participation
- Staff recruitment and training





Interbull Business Meeting

Item 6: Interbull Governance **Committee Membership Matthew Shaffer**



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Steering Committee Membership

Name	End of Term	Region
Daniele Vicario	2024	Italy, Spain, Portug
Brian Van Doormaal	2024	Americas
Ezequiel Nicolazzi	2025	Americas
Marija Klopčič	2025	Central/Eastern Eur
Laurent Journaux	2026	France, Wallonia
Matthew Shaffer	2026	Other regions
Gert Pedersen Aamand	2023	Nordic Countries
Urs Schnyder	2023	German-speaking c
Gerben de Jong	2023	Netherlands, Flande







Steering Committee Membership

- Nomination for a new 4-year term from:
 - Italy, Portugal and Spain
 - Daniele Vicario



2 ottobre 2021 giusco - BRESSANVII





Thank you



Brian Van Doormaal





Steering Committee Membership

- Nomination for a new SC member from:
 - Americas
 - Filippo Miglior











Technical Committee Membership

End of Term	Organisation
2024	USDA, USA
2024	Holstein USA, USA
2025	SRUC, Great Britai
2025	Lactanet, Canada
2026	vit, Germany
2026	Interbull Centre
2027	CDCB, USA
2027	CRV, Netherlands;
2027	ANAFIBJ, Italy
	Term 2024 2025 2025 2025 2026 2026 2027 2027





Thank you

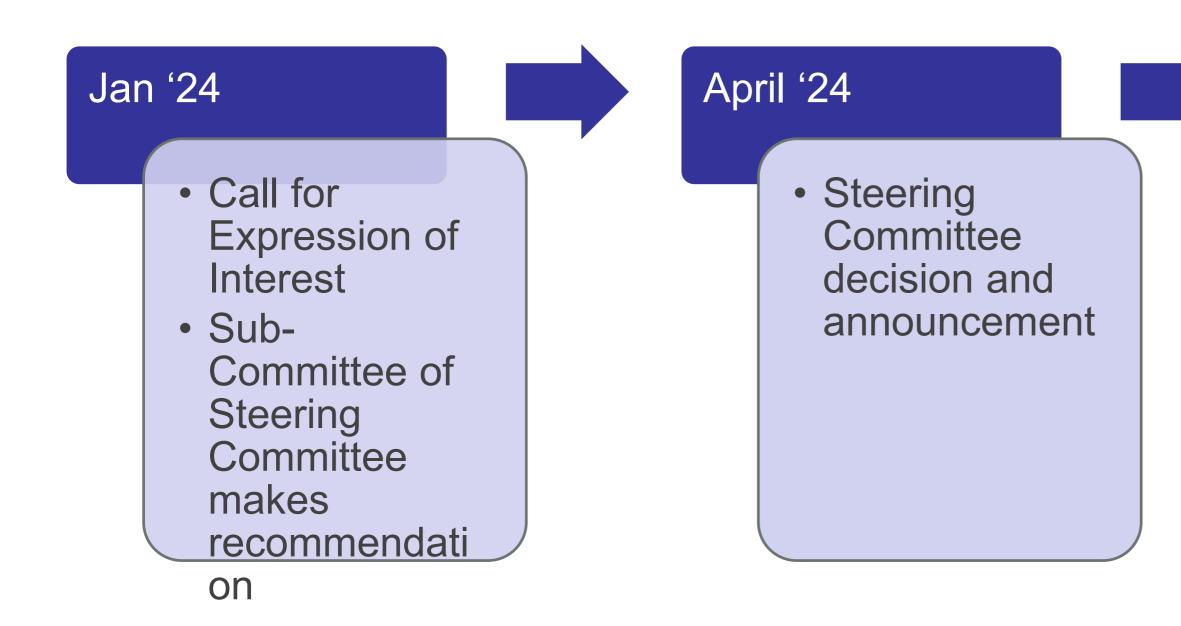


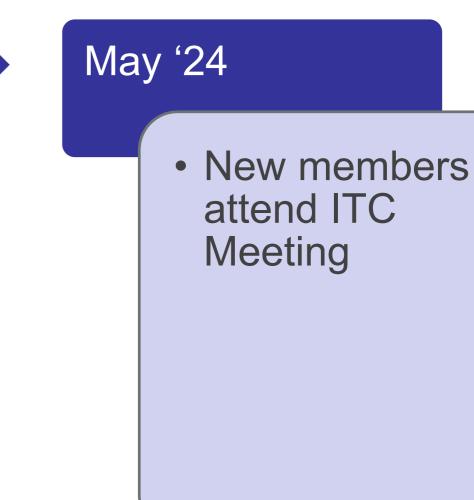
Paul VanRaden

Tom Lawlor



Technical Committee Membership







Welcome





Hongding Gao

Iola Croué

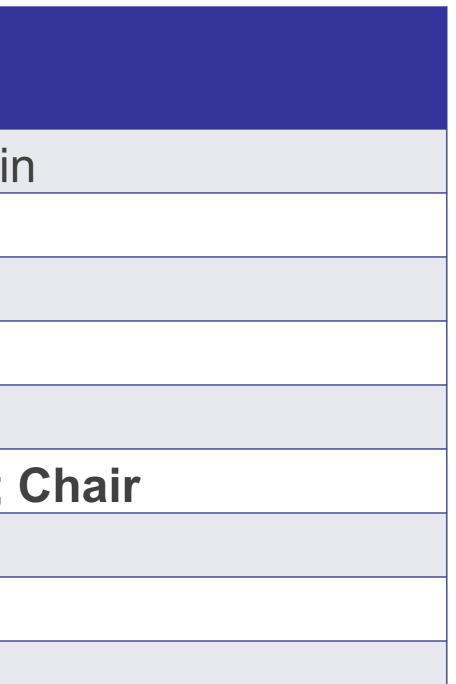


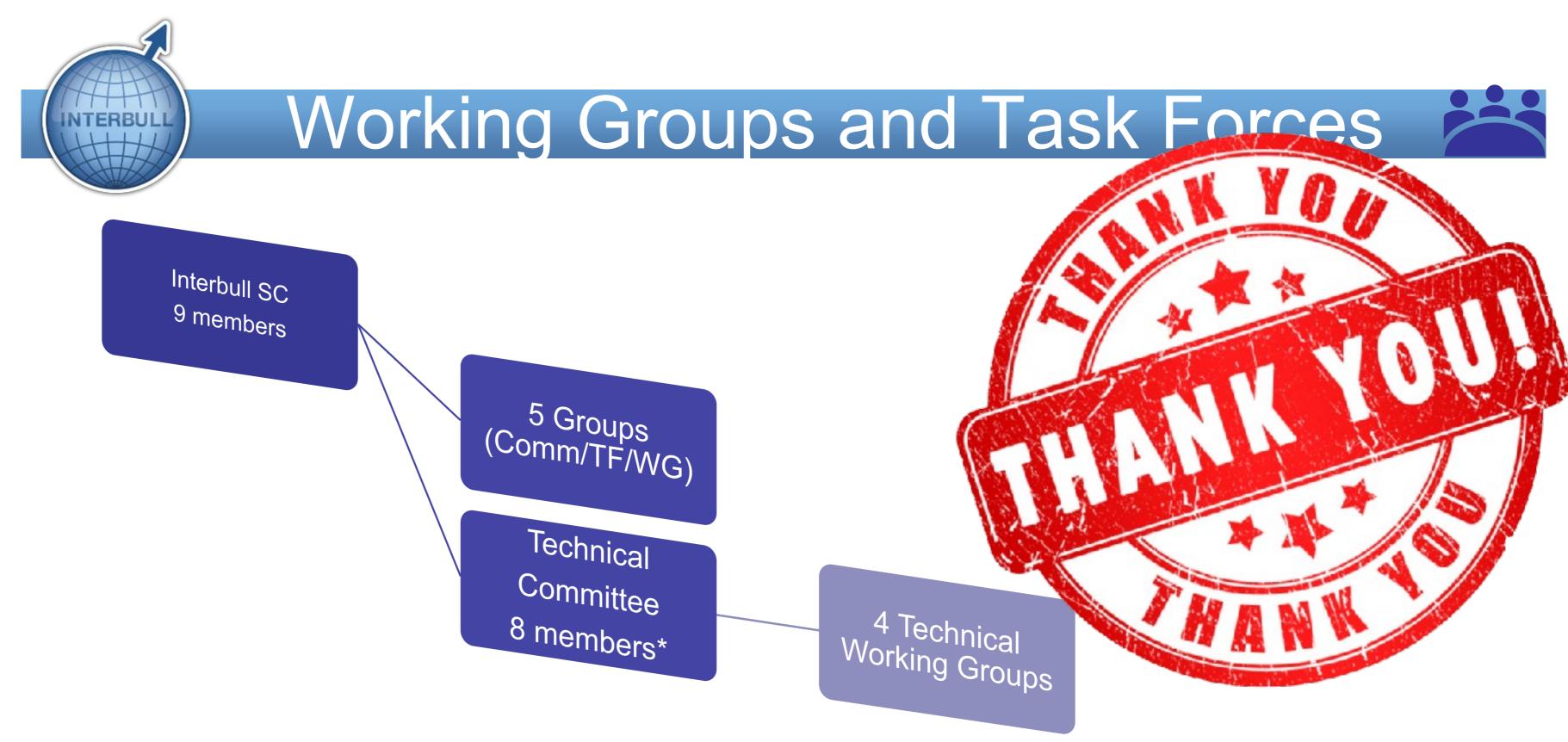


Technical Committee Membership

Name	End of Term	Organisation
Raphael Mrode	2025	SRUC, Great Britai
Pete Sullivan	2025	Lactanet, Canada
Zengting Liu	2026	vit, Germany
Valentina Palucci	2026	Interbull Centre
Andres Legarra	2027	CDCB, USA
Gerben de Jong	2027	CRV, Netherlands;
Jan-Thijs van Kaam	2027	ANAFIBJ, Italy
Iola Croué	2028	GenEval, France
Hongding Gao	2028	Luke, Finland









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Item 6: Interbull Governance **Committee Membership Matthew Shaffer**



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Item 7: Interbull Centre Director's Report – Part 1 Toine Roozen



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Interbul Centre



Interbul Centre



Swedish University of Agricultural Sciences



Department of Animal Biosciences ("HBIO") Swedish University of Agricultural Sciences ("SLU")

Operational unit of ICAR's Interbull SC & Interbeef WG



European Union Reference Centre – Zootechnics



SO 9001 certified.



Interbull Centre

Objective:

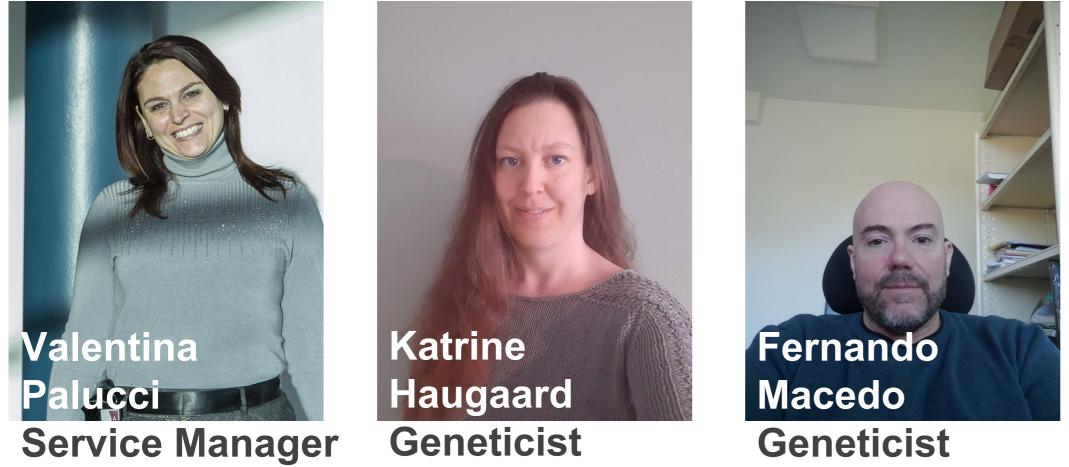
- accurate genetic information
- for use by importers and exporters
- facilitating selection of the best genetics
- different countries, environments or breeding goals.



orters est genetics ents or



Interbull Centre Staff





- Carl Wasserman Database
- Marcus Pedersén Systems \bullet
- Jan-Erik Strömqvist Programmer

Vacancies: Geneticist **EURC** Coordinator





Administrator



Interbull Centre Finance

Final accounts 2023:

- Audit:
- **Budget 2024:**
- €1.3M
- Approved Feb 2024



Published: March 2024







Interbull Centre Finance

€	2023	2024
e	Actual	Budget
Income	1 371 976	1 286 087
Expense	1 182 985	1 407 703
Result	188 992	- 121 616

Balance	end 2023
Interbull	709 524
Interbeef	- 42 877
Total	666 649



Income

TERRI

Expenses







Invoices for 2024 Services have been issued to Service Users

No changes to Fee structure:

- MACE fee calculations based on "traditional fee structure" with "Number of Milk-Recorded Cows" as underlying metric.
- No increase in fee rates in comparison to 2023.

 \rightarrow Any difference in service fee in comparison to 2023 is due to a difference in:

- Number of Milk-Recorded Cows, and/or
- Participation level.



2023 Interbull Business Meeting, Lyon:

- Business Funding Models Task Force
- From 2025, Service Fee to be based on "5-Year Increase in Milk Daughters".
- Advantages: •
 - Very objective statistic that can be validated by any MACE service user
 - Can be calculated each year internally by Interbull Centre staff
 - Directly related to data contributing to MACE based on breeds included



In preparation of introducing the new fee model, each Service User will receive in the next few weeks information on the 2024 fee with "5-Year Increase in Milk Daughters" as underlying metric - for information only.

To be addressed:

- Data truncation at the national level
- Large / unexpected differences in consecutive years



Item 7: Interbull Centre Director's Report – Part 1 Toine Roozen



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Item 8: New Traits Pipeline E. Nicolazzi, G. de Jong, V. Palucci, T. Roozen



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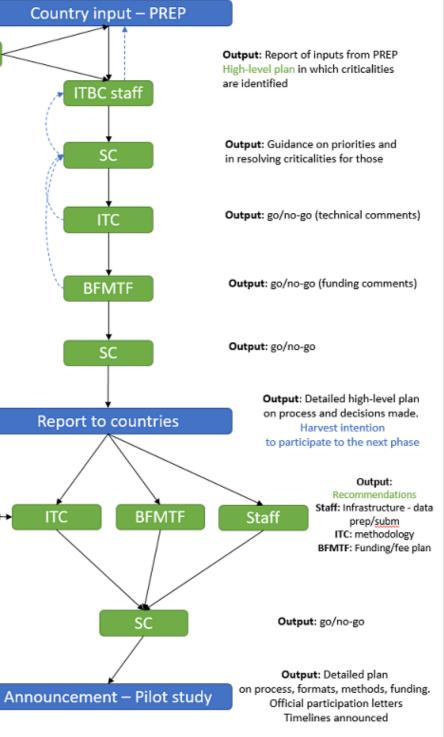
New Traits Pipeline

- 2021: WG defined to establish a clear pipeline to:
 - ✓ Identify key decision factors for implementing any traits
 - Define infrastructure needed and programs/methodology
 - Develop business model, business plan and appropriate fee structure
 - ✓ PREP-DB chosen as input platform
 - Active inputs from member countries on their needs for new int'l evaluations

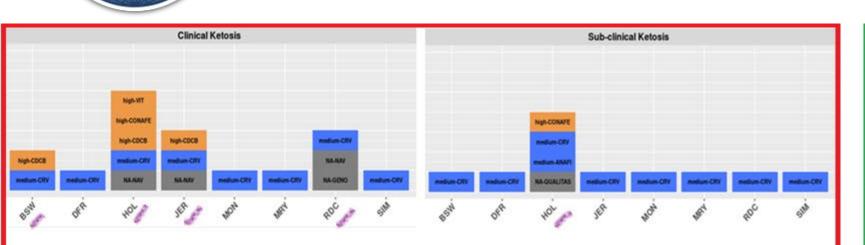
Research

Unit

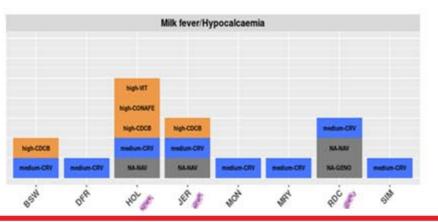
NTC

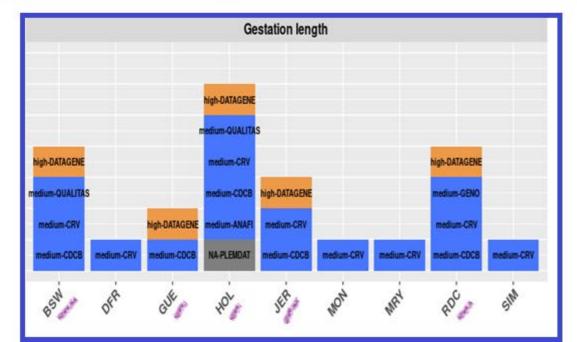


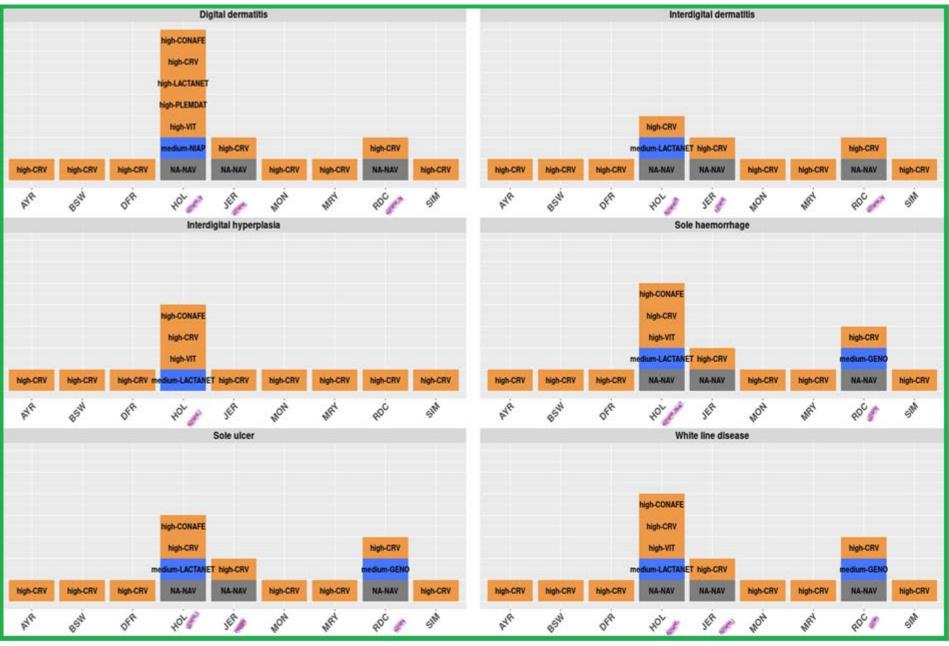
Next Traits Identified – Collected Information



NTERBULL











Trait	ICAR Trait definition
Digital Dermatitis	Infection of the digital and or in mostly painful ulcerations and proliferation
Interdigital Dermatitis	All kind of mild dermatitis arou classifies as digital dermatitis
Interdigital Hyperplasia	Interdigital growth of fibrous ti
White line disease	Separation of the white line w
Sole Haemorrhage	Diffused and or circumscribed the sole and or white line
Sole Ulcer	Penetration through the sole h
Milk fever/Hypocalceamia	Permanent recumbency of the and phosphorus content of the
Clinical/sub-clinical Ketosis	Disturbance of carbohydrate r content of ketone bodies and the blood
Gestation Length	Number of days between con insemination date) and the ca

interdigital skin with erosion, or chronic hyperkeratosis/

und the claws, that is not

issue

ith or without purulent exudation

I red or yellow discoloration of

horn exposing fresh or necrotic

e dairy cow with reduced calcium le blood

metabolism with increased reduced content of glucose in

alving date.



- 2 New Trait Groups Several traits per group
- Gestation Length included in current Calving Trait Group

ITC feedback:

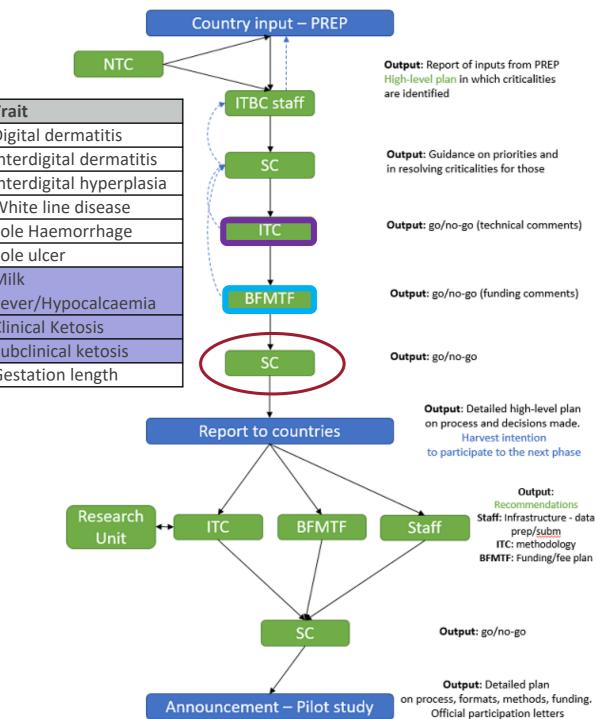
>ICAR definition available

 \succ Supported by ITC as the official trait definition

BFMTF feedback:

> Next presentation

Priority Assessment	Trait Group	Tr
		Di
		In
1	Claw Health	In
I	ciuw rieutti	W
		Sc
		Sc
		Μ
Ш	Metabolic disease	
"	wielubolic disease	Cl
		Su
	Calving	Ge



Timelines announced



Working Group Status

- ≻ Pipeline
- > PREP
- > Structure for appropriate report to:
 - > SC / ITC / BFMTF

Once again a BIG thank you to all organisations providing information into PREP!!



Item 8: New Traits Pipeline E. Nicolazzi, G. de Jong, V. Palucci, T. Roozen



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Item 9: Business Funding Models Task Force Brian Van Doormaal



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eeting Task Force



Business Funding Models Task Force Update

Chair: Brian Van Doormaal Members: Gert Pedersen Aamand, Urs Schnyder, Gerben de Jong, Laurent Journaux, Toine Roozen



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 Fee structure for new traits recommended by the New Traits Pipeline Working Group

 GMACE survey results and recommendations for discussion



Fee Structure for New Traits



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- New traits include:
 - Claw Health (6 defined lesions)
 - Metabolic Diseases (Milk Fever, Clinical Ketosis, Subclinical Ketosis/BHB)
 - Gestation Length (direct not maternal)
- Claw Health & Metabolic Diseases developed as new trait groups
- Gestation Length added to Calving trait group



General MACE vs SNP Training MACE

- MACE:
 - Defined trait groups
 - Allows inclusion of indicator/correlated traits
 - Results are distributed to all participating countries, which are required to publish them nationally
 - Some countries use MACE results as input to national genomic evaluations
 - Fee is set as a % of Production MACE

- MACE for SNP Training
 - Defined trait groups
 - Only defined traits permitted
 - Results are distributed to participating countries and not normally published
 - Focus is for countries with national genomic evaluations for the given trait
 - Fee structure provides a credit of up to 50% depending on the proportion of bulls with a MACE EBV for Production that also have EBV for specific trait

Proposed Fees for New Traits

- No fee for including/adding Gestation Length to "Calving" trait group
 - Recommended to include Direct Gestation Length (not maternal) and not allow substitute traits
- Proposed fee for the Claw Health and Metabolic Diseases trait groups is 15% of MACE Production fee for each new trait group
 - Ideally, Metabolic Diseases could also include Displaced Abomasum if sufficient interest exists

Calculation of Other MACE-Related Service Fees Relative to Production Fee

Conformation	Udder Health	Longevity	Calving	Female Fertility	Workability	Clinical Mastitis	GEBV Validation
30%	15%	15%	15%	20%	5%	8%	15%



GMACE Survey Results



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- 2023 Business Meeting presented new fee structure for MACE for Production
 - Starting 2025 Interbull invoices, use "5-Year Increase in Milk Daughters" as the underlying metric instead of "No. of Milk-Recorded Cows"
- BFMTF also presented suggestions for revised fees for other services
- Business Meeting discussion asked for consideration of a new fee for GMACE
- A survey was recently conducted about the use and value of GMACE with all users of MACE for the Holstein breed invited to participate • Of the 30 possible respondents, 23 surveys were received



Survey Participating Countries

		Submitting GEB	Vs to GM
		YES	
tional Genomic Evaluation?	YES	10	
National (Evalua	NO		



IACE?

NO

10

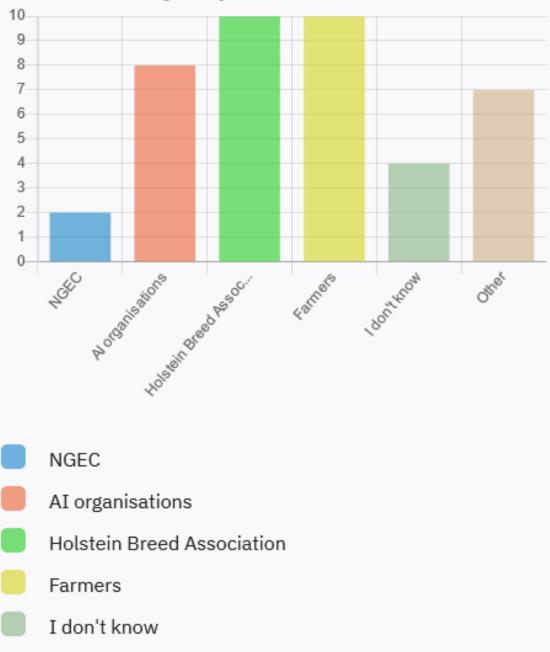
3



Other

Who Uses GMACE Results?

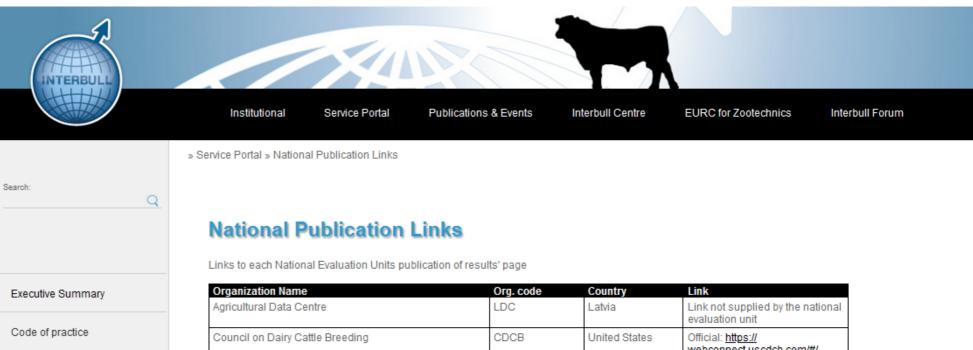
Who in your country uses the GMACE results that you publish?



Several organisations said the results were public, and thus available to everyone. Others said the results were published for specific groups.

GMACE results are to be published by all countries submitting GEBVs to GMACE

Link from each country to publish GMACE results are available on the Interbull Center webpage. https://interbull.org/ib/nat_publication_links





Org. code	Country	Link
LDC	Latvia	Link not supplied by the national evaluation unit
CDCB	United States	Official: <u>https://</u> webconnect.uscdcb.com/#/

How are GMACE Results Used?

		Submitting GEB	Vs to GI
		YES	
Il Genomic uation?	YES	 Get BV for bulls without national BV, which are used for calculating parent averages for not genotyped females, for mating programs and pedigree cards Selection of bulls Pre-screening of bulls before import Published on websites 	 Make Rank of Calcula Selection Integration of SNP
Nationa Evalu	NO		 Farmer select k Publish Publish

MACE?

NO

- summary with GMACE results
- comparisons
- ate parent averages for calves
- tion decisions
- ration into cow GEBV and estimation P effects
- rs and breeding organizations can bulls for breeding h for breeding organizations h on breeding certificates

Why Results are not Used or Published

		Submitting GEBVs to GM			
		YES			
al Genomic luation?	YES	 No demand from farmers or organisations Don't know how to best integrate Have genotypes from important bulls Use only MACE as input GMACE doesn't cover all traits in the TMI GMACE only relevant for bulls without genotypes in national system 	 Too sma Most of through We have exchang We don' are not in 		
Nationa	Q		• We do no		

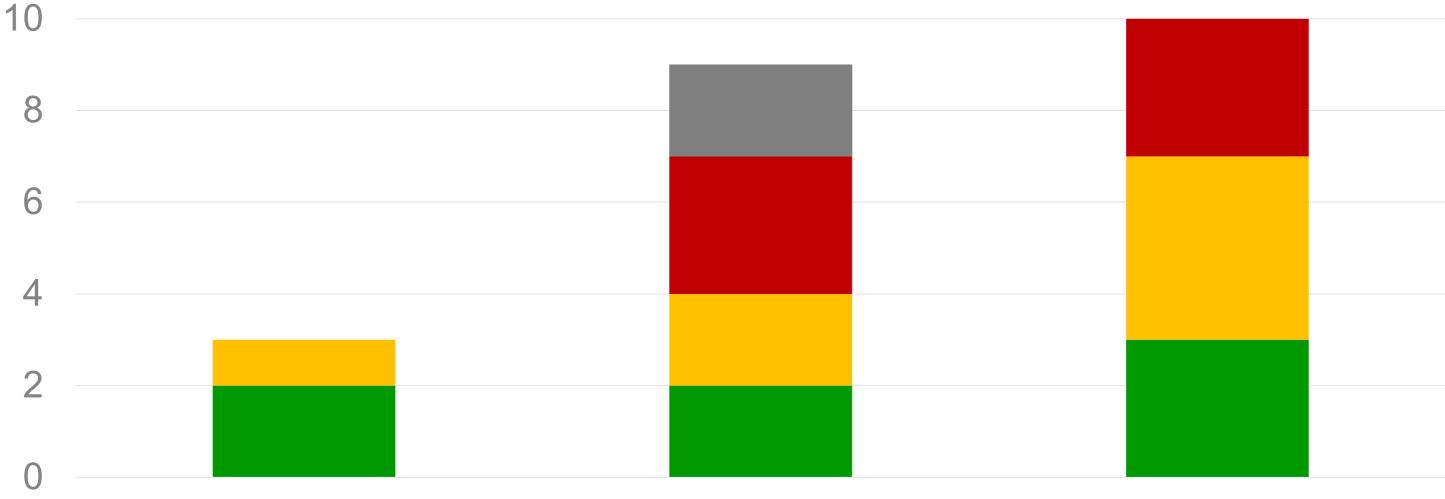
ACE?

NO

- all population, still in development f the imported bulls receive GEBVs n national evaluation
- ve our own evaluation including
- ged genotypes
- 't participate in GMACE so results relevant

ot have a genomic evaluation





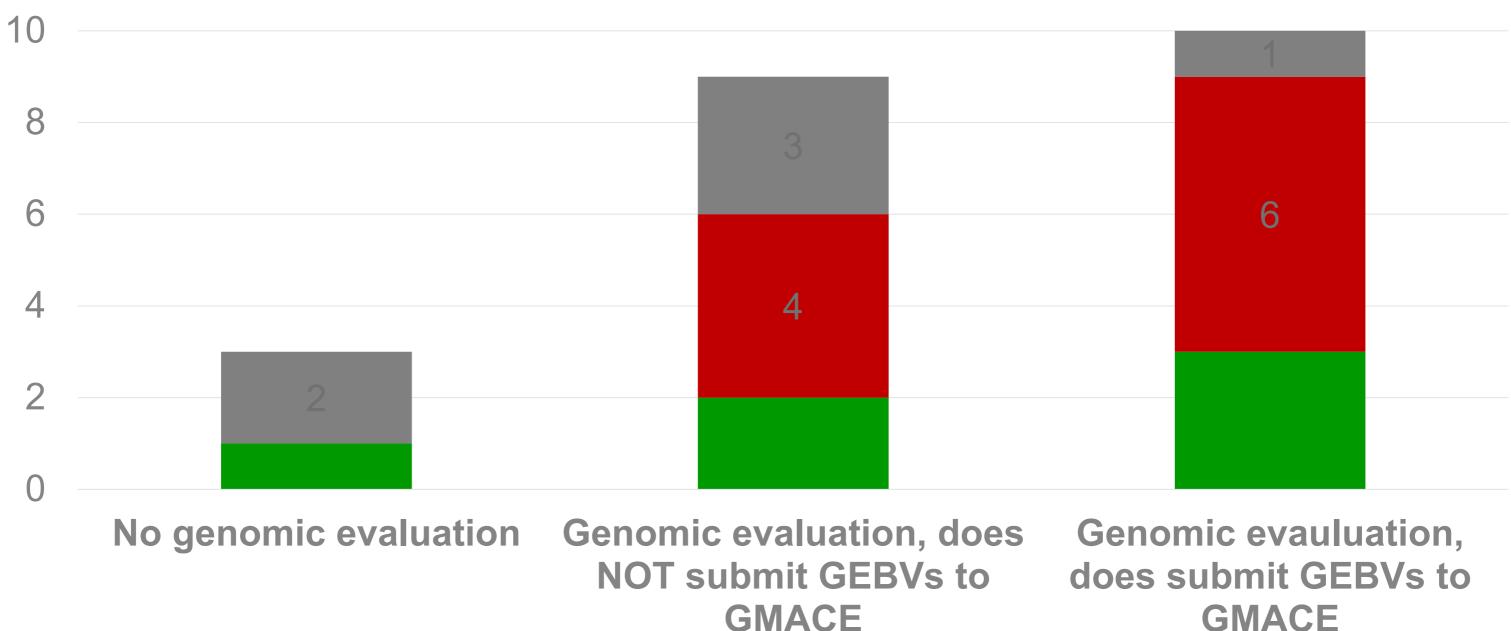
No genomic evaluation Genomic evaluation, to **GMACE**

Valuable/very valuable somewhat valuable Not valuable Don't know

Genomic evaluation, does NOT submit GEBVs does submit GEBVs to GMACE



Preparedness to Pay a GMACE Fee



■ Yes fee ■ No fee ■ Don't know



GMACE



- GMACE is sufficiently valued by multiple Interbull service users ... with or without national genomic evaluations
- Appetite for a GMACE fee is very low, even assuming a small annual level
- Recommend maintaining the GMACE service without a new fee
- GEBV Validation service exists at a cost of 15% of MACE Production fee
 - Need to review how this fee is applied
 - Consider requiring participation every two years for countries submitting data to GMACE



Item 9: Business Funding Models Task Force Brian Van Doormaal



Network. Guidelines. Certification.

eeting Task Force



Interbull Business Meeting 20 May 2024 Close of Meeting 1



THE GLOBAL STANDARD FOR LIVESTOCK DATA