



# Interbull Centre Director's Report 2021

Toine Roozen

Interbull Centre Director



THE GLOBAL STANDARD  
FOR LIVESTOCK DATA

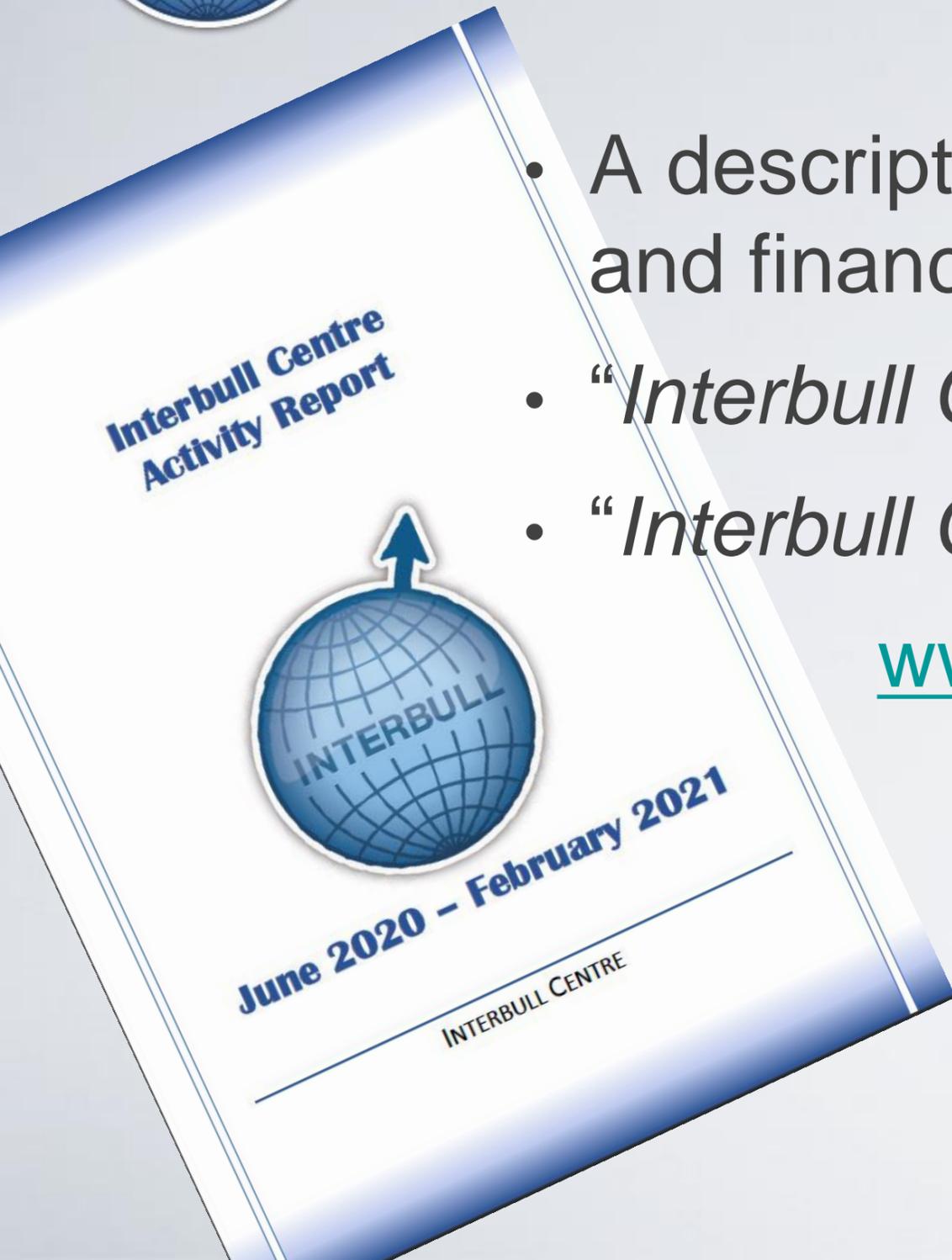




# Interbull Centre: Activities

- A description of the Interbull Centre activities and finances can be found in:
- “*Interbull Centre Activity Report 2020-2021*”.
- “*Interbull Centre Financial Report 2020*”.

[www.interbull.org/ib/itbcreports](http://www.interbull.org/ib/itbcreports)





# Interbull Centre

- Operational unit of Interbull



# Interbull Centre





← Husdjursgenetik  
Dept. of Animal Breeding and Genetics

← In Silico Lab

← Interbull Centre



# Interbull Centre's "In Silico Lab"



# Interbull Centre Offices

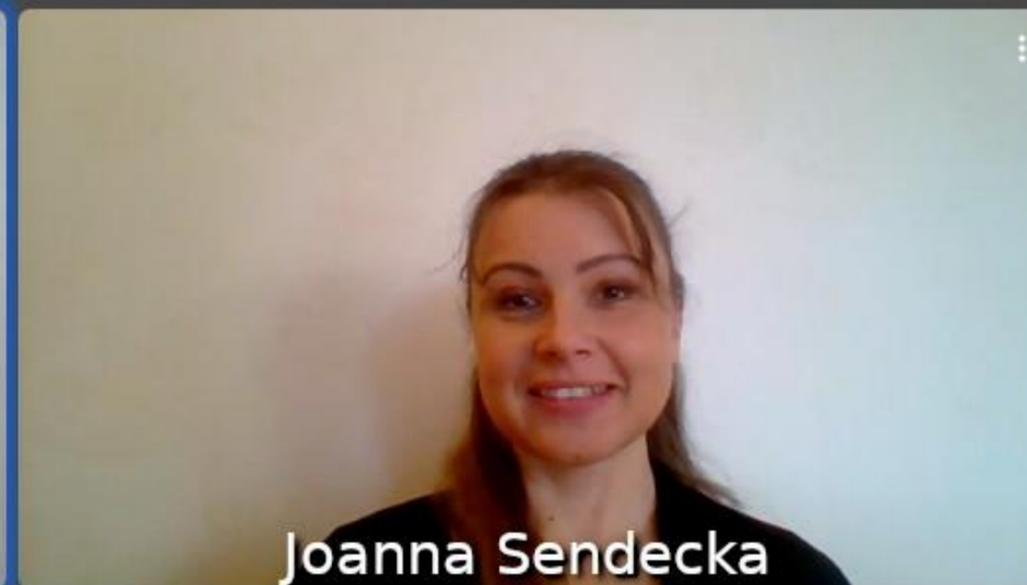




Hans Persson



Toine Roozen



Joanna Sendecka



Alexis Michenet



Valentina Palucci



Carl Wasserman



Marcus Pedersén



Simone Savoia



Sofie Lennartsson

Not shown: Jan-Erik Strömqvist





# Interbull Centre

- Operational unit of Interbull
- Provide genetic information services and applied research for improvement of livestock to a worldwide network



• Dairy

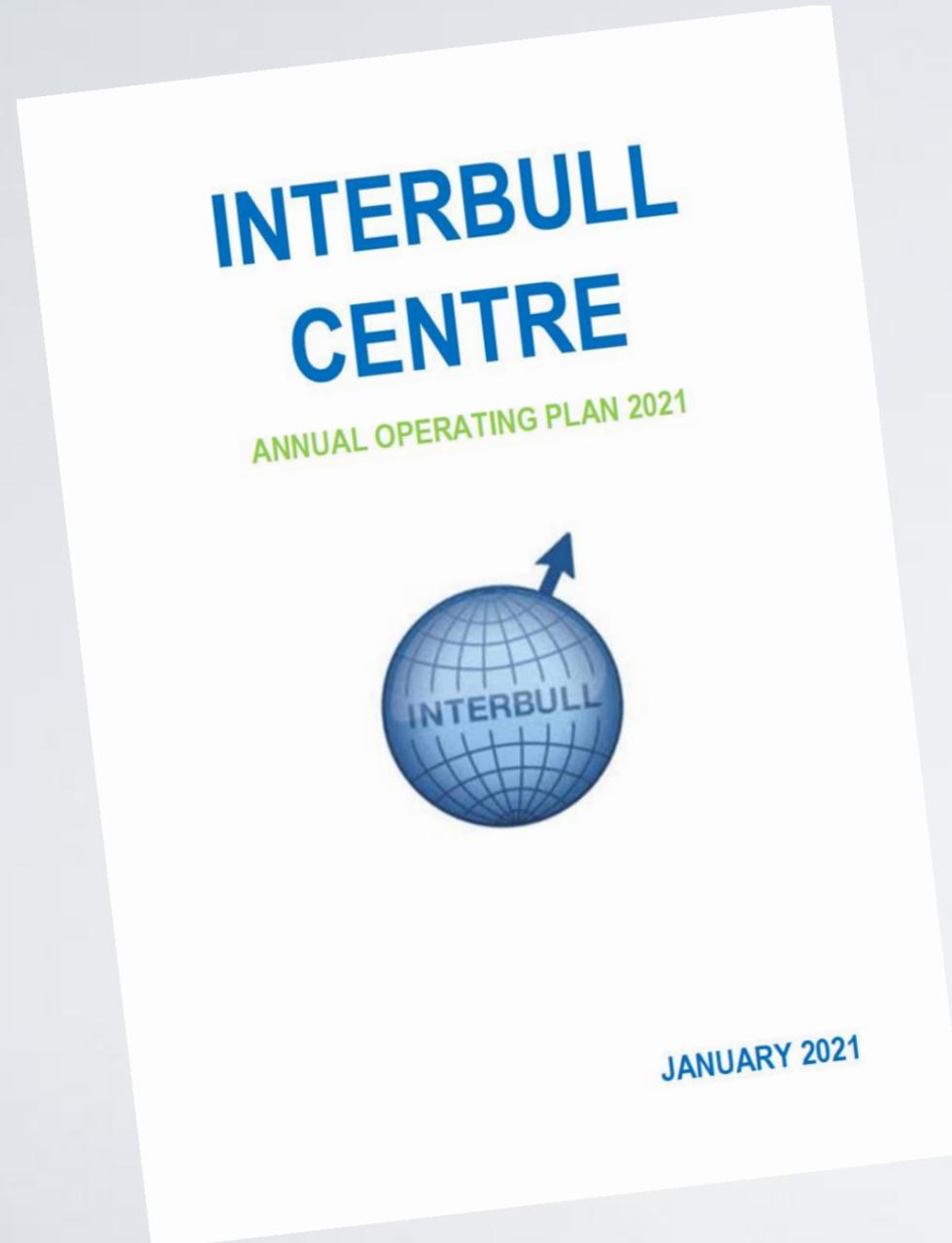


Beef





# Interbull Centre: Operating Plan 2021



## 4 ANNUAL OPERATING PLAN FOR 2021

The 'Priority' assessment is based on the following 'traffic light' system, where green has the highest priority:

HIGH	<ul style="list-style-type: none"> <li>Must have this requirement to meet the business needs. The must requirements are non-negotiable</li> <li>Critical to the current delivery timeframe in order for the project or organisation to be a success</li> </ul>
Medium	<ul style="list-style-type: none"> <li>Should have this requirement if possible, but project or organisational success does not rely on it</li> <li>Important but not necessary for delivery in the current delivery timeframe</li> <li>They are often not as time-critical or there may be another way to satisfy the requirement so that it can be held back until a future delivery timeframe</li> </ul>
low	<ul style="list-style-type: none"> <li>Could have this requirement if it does not affect anything else in the project or organisation</li> <li>Desirable but not necessary, e.g. could improve the user experience or customer satisfaction for little development cost</li> <li>These will typically be included if time and resources permit</li> </ul>

The 'Effort' assessment is based on a 'traffic light' system where green constitutes the least effort.

minor	Under 4 weeks total time requirement
Moderate	4 to 8 weeks
SIGNIFICANT	Greater than 8 weeks

Activities that depend on external activities have been included and have been identified in *italics*.

### 4.1 SERVICES

High-quality delivery of Interbull Centre's services is critical to its success. All of Interbull Centre's current services are hence identified as 'HIGH'. Delivery of the services accounts for approximately 60% of Interbull Centre resources. Most services require a significant amount of resources.

SERVICE	EFFORT	PRIORITY
MACE	SIGNIFICANT	HIGH
GMACE	SIGNIFICANT	HIGH
InterGenomics	SIGNIFICANT	HIGH
Interbeef	SIGNIFICANT	HIGH
European Union Reference Centre	SIGNIFICANT	HIGH
Validation Services	SIGNIFICANT	HIGH
GenoEx-PSE	Moderate	HIGH
Exchange of Genetic Traits	minor	HIGH
Communication, including Organisation of Meetings	SIGNIFICANT	HIGH
ICAR Services (DNA Interpretation Centre Accreditation)	Moderate	HIGH





# Interbull Centre – Services 2020-2021

← 2020 2021 →



interGenomics



interGenomics  
interGenomics



TMACE



interGenomics  
interGenomics



interGenomics  
interGenomics



Estonia Pilot Run



interGenomics  
interGenomics





# R&D.... and New Services



## Interbull Technical Committee Report

Gert Pedersen Aamand  
Chairman ITC



Network, Guidelines, Certification.



## Interbull 2020-2023 Strategic Goals



Meeting future data service needs



Continuously improve core services



Defining a new traits pipeline



Strengthening governance



Providing international evaluations in the genomic era



Driving branding and marketing

### 4.3 Research and Development

STRATEGIC GOAL 1 Meeting future data service needs		OBJECTIVES 1A. Maintain existing data exchange services 1B. Expand data sharing 1C. Understand and meet future data needs		
FOCUS ACTIVITIES	DELIVERABLES IN 2021	2021 TARGET / OUTCOMES	EFFORT	PRIORITY
1.1 Continue to deliver and improve data exchange services to meet Interbull user needs	1.1.1 Release GenoEx-GDE 2.0	1.1.1 a) Improved User Experience by developing and implementing high-priority Web Interface Features	SIGNIFICANT	HIGH
		1.1.1 b) Improved Quality of the Service by developing and implementing additional Database Features i.e. cross-reference ICAR DNA WG recommendations on genotypes quality control; connect GenoEx-GDE to IDEA	SIGNIFICANT	HIGH
		1.1.1 c) Use of GenoEx-GDE extended to additional Users (InterGenomics-Holstein, Interbeef)	minor	Medium
	1.1.2 Release GenoEx-PSE 2.0	1.1.2 a) Implementation of new sex, breed, and percentage contribution features for GenoEx-PSE	minor	HIGH
		1.1.2 b) Implementation of Parentage Discovery features for GenoEx-PSE <i>Conditional on external activity: "Parentage Discovery" to be part of ICAR's DNA Data Interpretation Accreditation</i>	minor	Medium
		1.1.2 c) 2: Interbull Centre to provide technical part of the accreditation <i>Conditional on external activity: Procedure and software for "Parentage Discovery" as part of ICAR's DNA Data Interpretation Accreditation developed</i>	Moderate	Medium
1.1.3 Launch EUrc - PREP Database	1.1.3 a) Database populated with Dairy Production (PROD) and Beef Adjusted Weaning Weights (AWW) information	1.1.3 a) Database populated with Dairy Production (PROD) and Beef Adjusted Weaning Weights (AWW) information	SIGNIFICANT	HIGH
		1.1.3 b) Standardise and review set of questions for Dairy and Beef traits	SIGNIFICANT	HIGH
		1.1.3 c) User interface available for uploading and looking up of information	SIGNIFICANT	HIGH
1.1.4 Genetic Traits Exchange	1.1.4 a) Expand Genetic Traits Exchange to additional breeds and associations <i>Conditional on external activities</i>	Minor	low	
1.2 Conduct a needs analysis to understand future data exchange requirements	No deliverables or outcomes in 2021			
1.3 Meet future data needs of customers through data science principles and collaboration with other big data users	No deliverables or outcomes in 2021			



## "InterGenomics-Holstein" Interbull genomic evaluation of small Holstein populations

Simone Savoia  
simone.savoia@slu.se



Network, Guidelines, Certification.



## "SNPMace" (International SNP Evaluations) Next steps towards the first pilot run

Simone Savoia  
simone.savoia@slu.se



Network, Guidelines, Certification.





# EURC PREP DataBase



## EURC Performance Recording, Evaluations and Publications Database

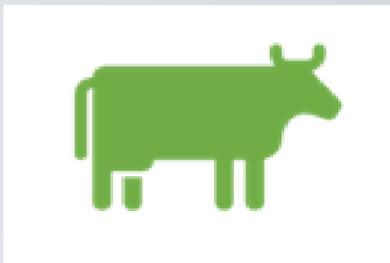
- Improved, online, system for comparing and harmonising performance testing and genetic evaluation methodologies
- Activities reach beyond populations involved in International Bull evaluations.





# PREP DB and New traits pipeline

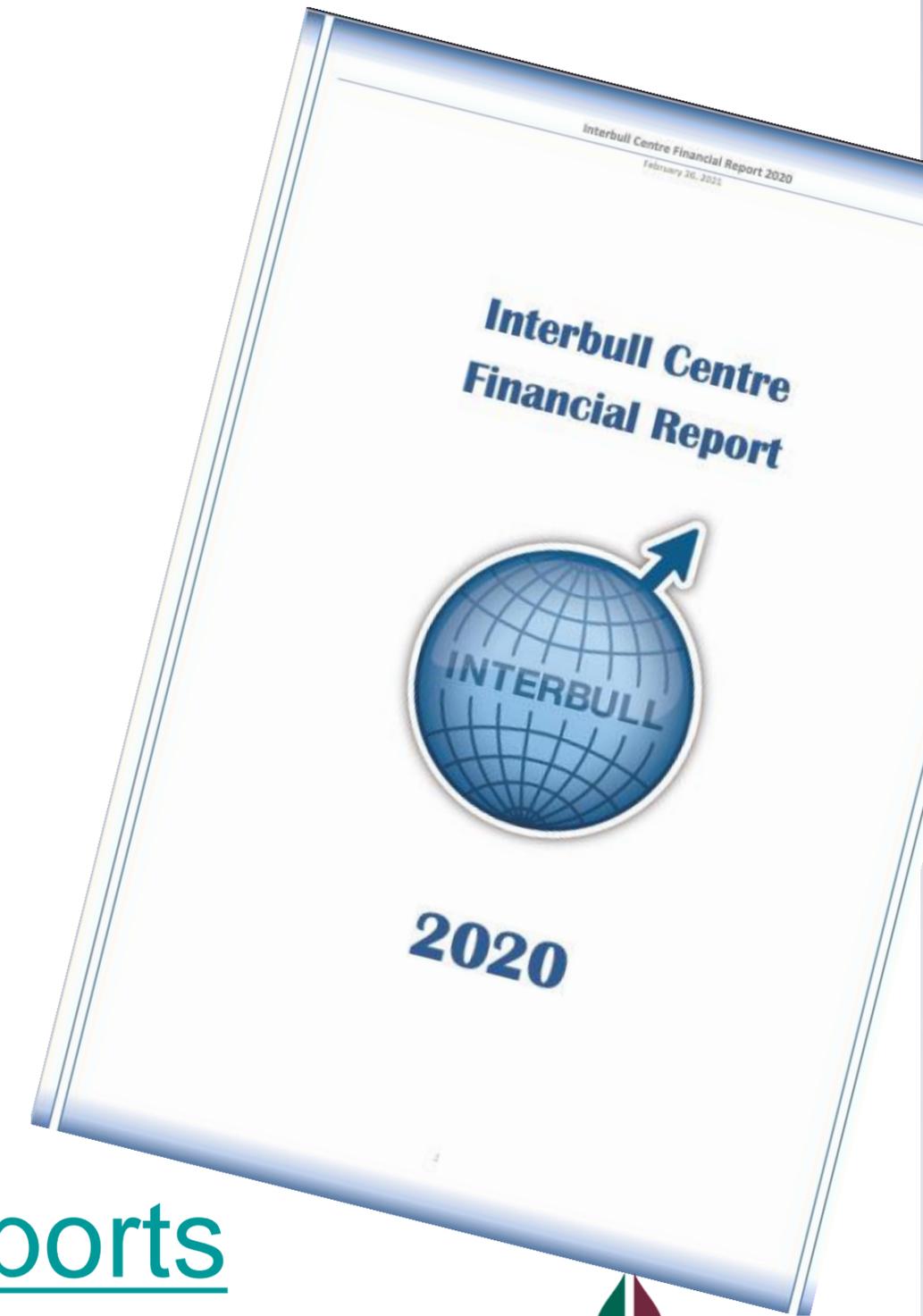
- What traits available to add to the Interbull service offering.
- Faster implementation and a focus on high value traits to service users and farmers.





# Interbull Centre Financial Report 2020

[www.interbull.org/ib/itbcreports](http://www.interbull.org/ib/itbcreports)



THE GLOBAL STANDARD  
FOR LIVESTOCK DATA





# Finance: background / overview

## Final accounts 2020:

- Audit: 

## Budget 2021:

- €1 200 000
- Approved Nov 2020 





# Finance: background / overview

## Final accounts 2020:

- Audit: 

## Budget 2021:

- €1 200 000
- Approved Nov 2020 





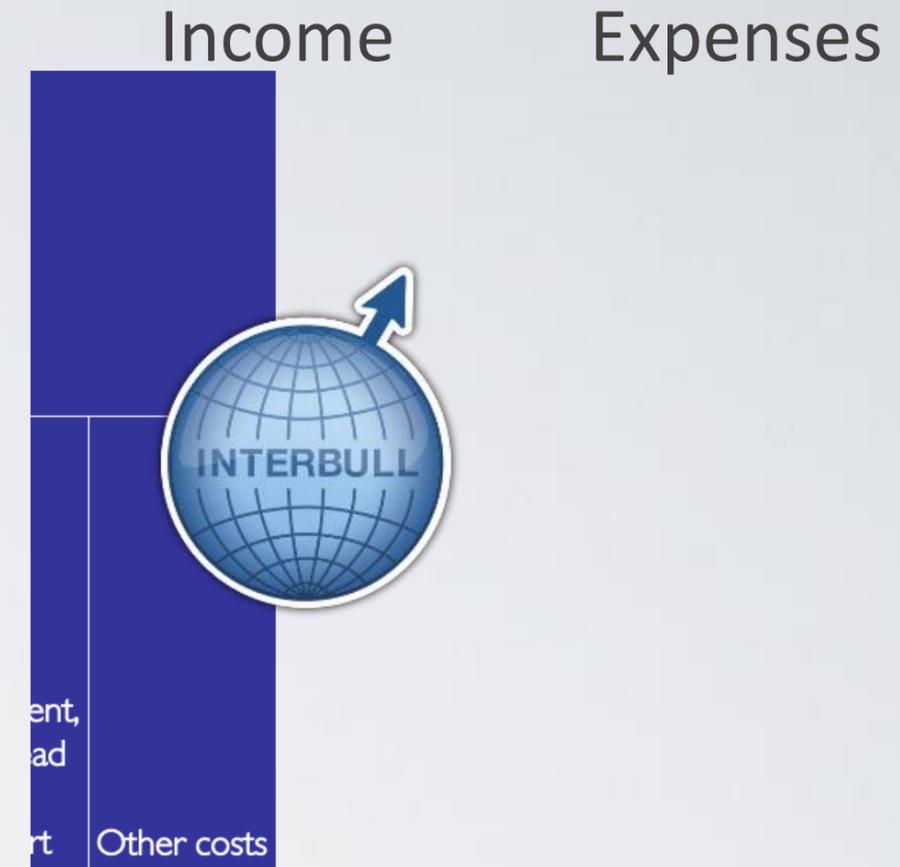
# Finance: background / overview

## Final accounts 2020:

- Audit: 

## Budget 2021:

- €1 200 000
- Approved Nov 2020 





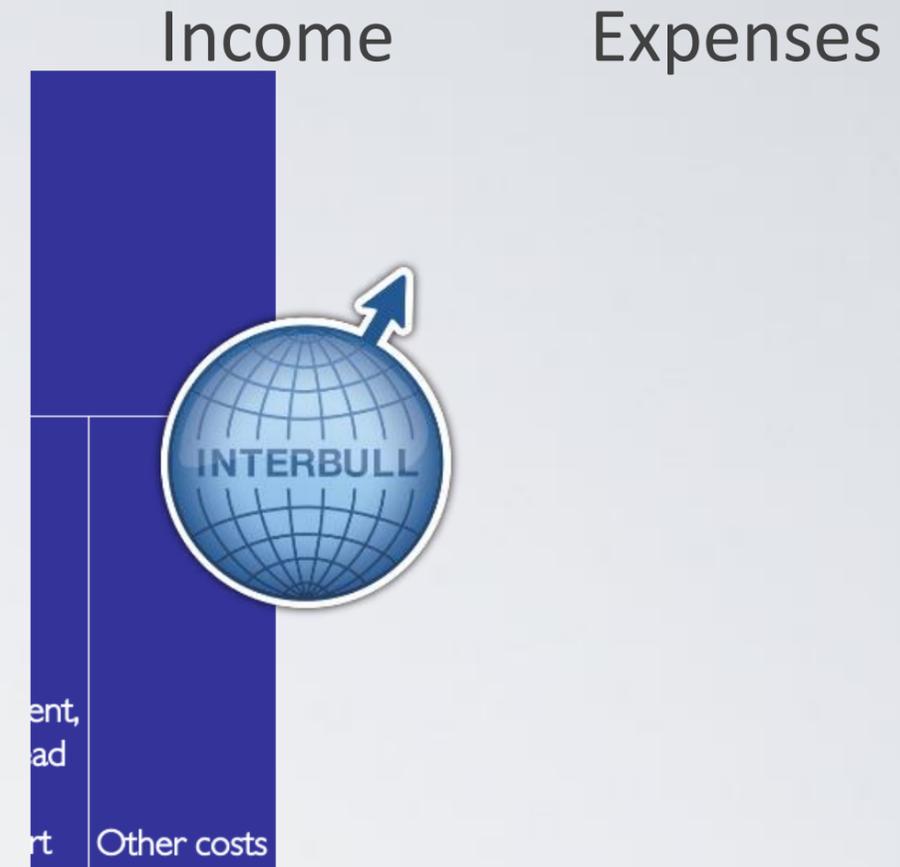
# Finance: background / overview

## Final accounts 2020:

- Audit: 

## Budget 2021:

- €1 200 000
- Approved Nov 2020 





# Finance: 2020 results

## Interbull: €16.6K negative compared to budget

- Reduced fee income

## Interbeef: 6.7K better than budget:

- Reduced income due to delay of introducing new fee structure
- Reduced input of resources to stay within budget

## High Grant income

- Grant from SLU for strategic relevant topics: €70K
- Increased EURC grant (transfer from 2019): €40K

## Interbull Centre: Net result €10 K lower than budget

	2020	Budget	Actual	Variance
Interbull	Income	233 107	109 467	-123 640
	Expense	249 184	142 172	-107 012
	<b>Result</b>	<b>-16 077</b>	<b>-32 705</b>	<b>-16 628</b>
Interbeef	Income	125 572	99 243	-26 392
	Expense	123 045	89 992	-33 053
	<b>Result</b>	<b>2 527</b>	<b>9 251</b>	<b>6 724</b>
Total	Income	358 679	208 711	-149 968
	Expense	372 146	232 164	-140 065
	<b>Result</b>	<b>-13 467</b>	<b>-23 454</b>	<b>-9 904</b>

Balance	end 2020
Interbull	371 446
Interbeef	- 91 221
<b>Total</b>	<b>280 225</b>





# Finance: 2021 budget

## Income (€40K lower than in 2020)

- Decrease in Grant income
  - €150K EU Reference Centre (vs €190K in 2020)
  - €30K SLU/HGEN (vs €100K in 2020)
- Increase in Service Fee income
  - Service fee level (+2%)
  - MACE for SNPtraining (Clinical Mastitis)
  - Full year of IgHOL evaluations
  - Higher degree of participation
  - Use of new Interbeef fee structure
  - Additional Interbeef users

	2021	Budget
Interbull	Income	1 048 627
	Expense	1 099 036
	<b>Result</b>	<b>-50 410</b>
Interbeef	Income	120 728
	Expense	114 005
	<b>Result</b>	<b>6 723</b>
Total	Income	1 169 355
	Expense	1 213 041
	<b>Result</b>	<b>-43 686</b>





# Finance: 2021 budget

## Expenses (€20K lower than in 2020)

- Temporary reduction in staff
- New recruits starting in May and
- Resulting in reduced costs:
  - Staff costs
  - Running costs
  - Office Rent
  - Support Functions and Overhead.



## Expenses

	2021	Budget
<b>Interbull</b>	Income	1 048 627
	Expense	1 099 036
	<b>Result</b>	<b>-50 410</b>
<b>Interbeef</b>	Income	120 728
	Expense	114 005
	<b>Result</b>	<b>6 723</b>
<b>Total</b>	Income	1 169 355
	Expense	1 213 041
	<b>Result</b>	<b>-43 686</b>







# Interbull Centre

**Department of Animal Breeding and Genetics**

**Swedish University of Agricultural Sciences - SLU**

Ulls Väg 26, PO Box 7023, 750 07 Uppsala, Sweden

Phone: +46(0)18-67 2098

[www.interbull.org](http://www.interbull.org)

[Interbull@slu.org](mailto:Interbull@slu.org)



THE GLOBAL STANDARD  
FOR LIVESTOCK DATA

