

# ICAR Subcommittee Interbull



ICAR May 22, 2014



## Reinhard Reents

- Chairman of the Interbull Steering Committee
- CEO IT Solutions for Animal Production, vit, Germany






## Joao Dürr

- Interbull centre director





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-  Future meetings



# STEERING COMMITTEE

Reinhard Reents, Chairman, DEU

Gerd Pedersen Aamand, DNK

Juraj Candrak, left 2013 → Marija Klopčič, Slovenia

Brian van Doormaal, CAN → new term since 2013

Marj Faust, USA → new term since 2013

Bevin Harris, NZL left 2013 → Daniel Abernathy, AUS

Sophie Mattalia, FRA → renominated 2014

Enrico Santus, ITA

Andrew Cromie, IRL

Erling Strandberg, secretary



# Scientific Advisory Committee

- ❖ Georgios Banos, Chairman, Greece left
- ❖ Vincent Ducrocq, FRA, new Chairman since 2013
  
- ❖ Daniel Gianola, USA
- ❖ Mike Goddard, AUS
- ❖ Ignacy Misztal, USA

Outstanding scientists for animal genetics



# PERSONNEL IB CENTRE



# Interbull Centre

- ❖ Erling Strandberg
- ❖ João Dürr
- ❖ Hossein Jorjani
- ❖ Eva Hjerpe
- ❖ Valentina Palucci
- ❖ Carl Wasserman
- ❖ Mohammad A. Nilforooshan
- ❖ **Petri Pennanen**
- ❖ Dan Englund
- ❖ Gerald Jansen (consultant)
- ❖ Jette Jakobsen
- ❖ Anne Loberg (PhD student)



# **SERVICE AND OPERATIONS**



# Popultions joining service

<b>Breed Group</b>	<b>Production</b>	<b>Conformation</b>	<b>Udder Health</b>	<b>Longevity</b>	<b>Calving</b>	<b>Female Fertility</b>	<b>Workability</b>	<b>TOTAL</b>
<b>Brown Swiss</b>		GBR						<b>1</b>
<b>Guernsey</b>								<b>0</b>
<b>Holstein</b>				ZAF, POL	NZL			<b>3</b>
<b>Jersey</b>				IRL		IRL		<b>2</b>
<b>Red Dairy Cattle</b>				IRL	IRL, NZL	USA		<b>4</b>
<b>Simmental</b>	GBR							<b>1</b>
<b>TOTAL</b>	<b>1</b>	<b>1</b>	<b>0</b>	<b>4</b>	<b>3</b>	<b>2</b>	<b>0</b>	<b>11</b>





# Populations in MACE (April 2014)

Breed Group	Production (3)	Conformation (23)	Udder Health (2)	Longevity (1)	Calving (4)	Female Fertility (5)	Workability (2)	TOTAL (40)	Number of publishable proofs (production)
Brown Swiss	10	9	10	10	5	9	6	<b>60</b>	9 885
Guernsey	6	4	6	6	0	6	0	<b>28</b>	1 060
Holstein	31	25	29	21	16	20	9	<b>151</b>	135 646
Jersey	11	9	8	9	0	9	4	<b>50</b>	11 055
Red Dairy Cattle	14	9	13	10	7	11	5	<b>69</b>	14 388
Simmental	12	0	10	4	0	0	0	<b>26</b>	28 251
<b>TOTAL</b>	<b>84</b>	<b>56</b>	<b>76</b>	<b>60</b>	<b>28</b>	<b>55</b>	<b>24</b>	<b>383</b>	<b>200 285</b>



## ❖ GMACE

- August 2013
  - implementation run in Dez. 2013
  - Pilot runs
    - estimation of genetic parameters
    - $r^2$  from national level versus expectation
- February 2014
  - SC → MT .5
  - Bull Control Country (BCC) → which country is controlling the status of bull → published yes / no
  - Test run in February
  - April 2014 → implementation run



# GMACE II

## ❖ GMACE

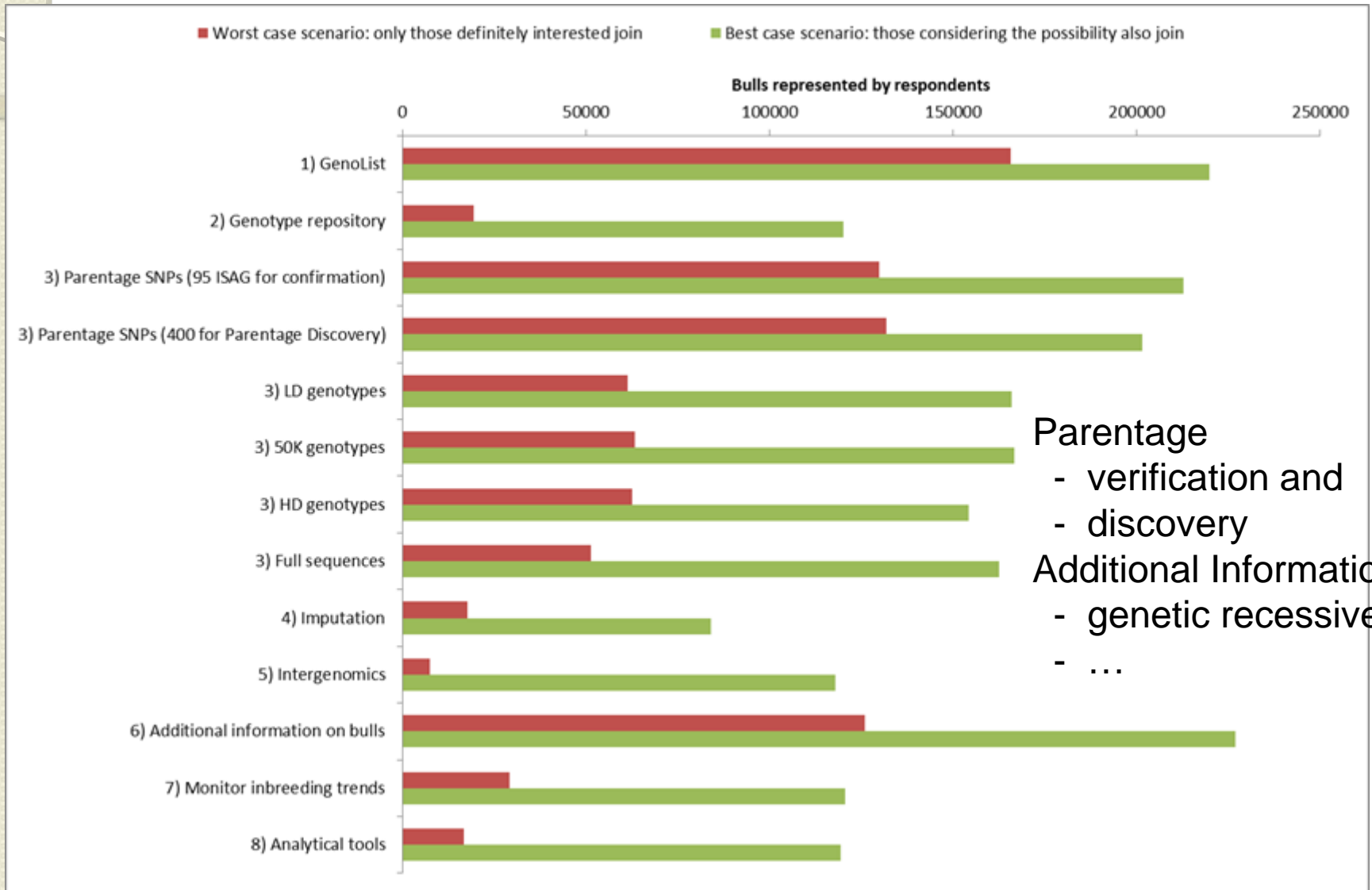
- May 2014
  - Decision to start first routine run in August 2014
  - Clarification on BCC rules (joint ownership)



GEN  EX  
International Genotype Exchange Platform



# Genoex – potential demand from survey





# Actions in 2013

- Technical proposal developed by Interbull centre
  - Sent to group of experts
- Active participation in ICAR parentage WG
- Presentation to the ICAR board (November 2013)



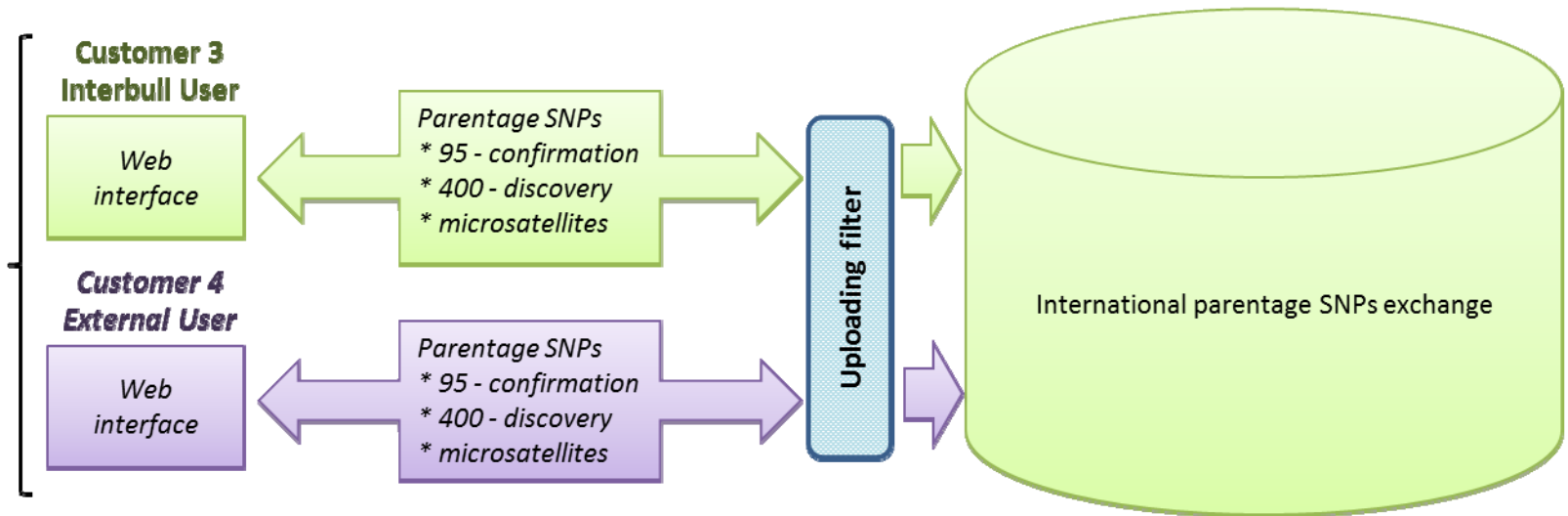
# Actions in 2014

- Interbull proposed a joint session with ICAR on use of SNP data in parentage issues → Session Tuesday May 20, 2014
- Interbull SC decided to separate implementation into two levels
  - Infrastructure to enable parentage SNP data exchange between breeding organisations
  - Complete genotype repository (eg demand from BS federations, Interbeef)
- Business plan finalised
- Proposal submitted to ICAR DNA working group



# Parentage SNP exchange service

**Parentage  
SNP  
exchange  
service**







# Actions in 2014 → Berlin

- Clarification of the technical proposal to the WHFF council
- Preparation of a proposal to the ICAR board
- Business rules have to be established
  - Proposal of the IB SC
    - I-2 reps from
      - ICAR DNA WG
      - ICAR Parentage WG
      - Interbull SC

form a Task Force to work on this



# Thank You !

Your Interbull Team



# Genoex – budget - parentage

Initial investment (€)	Year 1	Year 2
Software (initial licensing)	30,000	0
Data collection functionality (BC Platforms)	5,000	0
DB server	5,000	0
Operational costs (€)		
Software (maintenance fee)		
Internet bandwidth and traffic	0	
Programmer/DB Admin (50%)	15,000	15,000
Scientist (20%)		0
Overheads (33% of salaries)	4,950	4,950
Income source (€)		
Infrastructure grants	40,000	0
Service fees	19,950	19,950
Total income:	59,950	19,950