

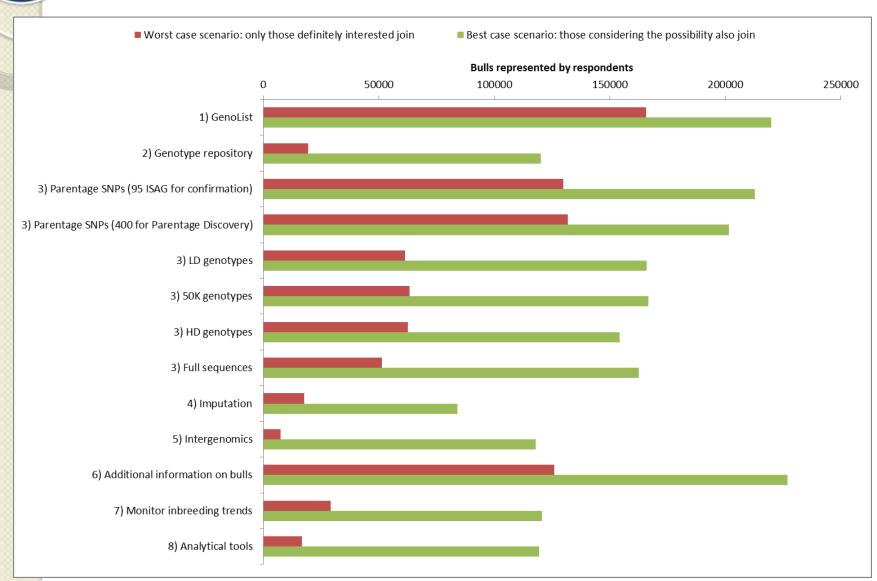




- SNP data has become a integral part of genetic evaluation of cattle
- Concerns to share this data have decreased
 - Although in many (Al) / herdbook organisations this is not yet the case
- Interbull conducted in 2012 a survey among their customers to assess the demand
 - Sent to the customers
 they should share this document with other organisations involved in this field (ie for parentage with breed federations)



Genoex – potential demand from survey



Actions in 2013

- Little time for discussion in the IB SC because of GMACE implementation
- Technical proposal developed by Interbull centre
 - Sent to group of experts
- Active participation in ICAR parentage WG
- Discussion with NAC (Indianapolis July 2013) showed an option to establish a different approach (not a single location with all data rather a connection between (the servers of the) parentage verification service providers)
- Presentation to the ICAR board (November 2013)



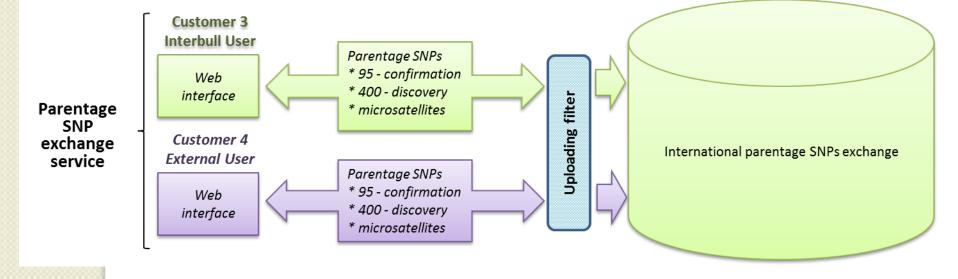
- Interbull proposed a joint session with ICAR on use of SNP data in parentage issues -> Session Tuesday May 20, 2014
- Interbull SC decided to separate implementation into two levels
 - Complete genotype repository (eg demand from BS federations, Interbeef)
 - Infrastructure to enable parentage SNP data exchange between breeding organisations
- Business plan developed
- Presentation of a proposal at the ICAR meeting in Berlin

VALUE PROPOSITION

- Establish the INFRASTRUCTURE necessary for international cooperation based on SNP data
- Optimize customer investments in genotyping by AVOIDING DUPLICATION
- Establish STANDARD PROTOCOLS FOR GENOMIC DATA EXCHANGE
- Become the international source of BOVINE PARENTAGE SNPS
- Facilitate MULTILATERAL SNP DATA EXCHANGE by establishing a common repository and customer driven access rules
- (Provide affordable GENOMIC DATA STORAGE for small populations)



Parentage SNP exchange service



Genoex – budget - parentage

Initial investment (€)	Year I	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



Infrastructure grants

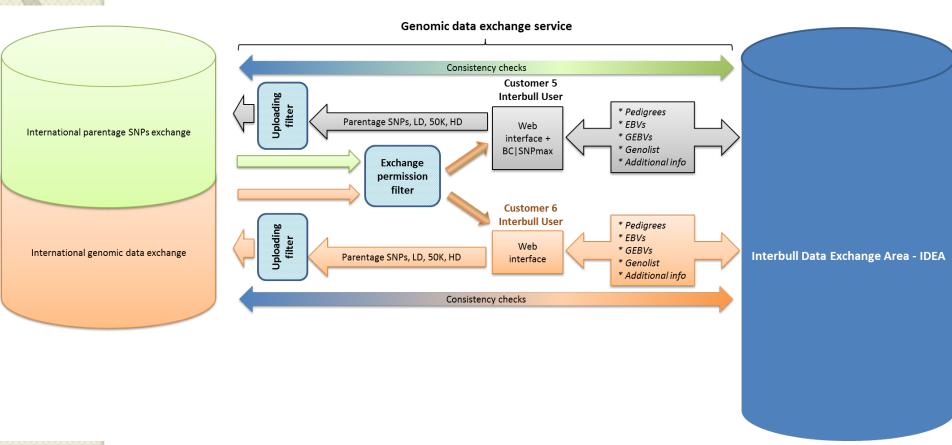
- Potential sources:
 - ICAR
 - SLU
 - Swedish funds

Service fees

- Parentage SNP exchange service
 - Participation fee I, irrespective of usage rate

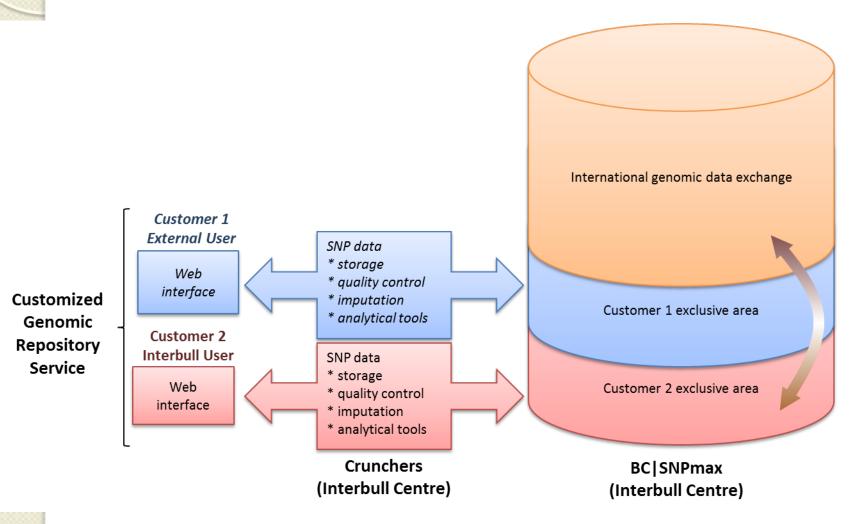


Genomic data exchange service



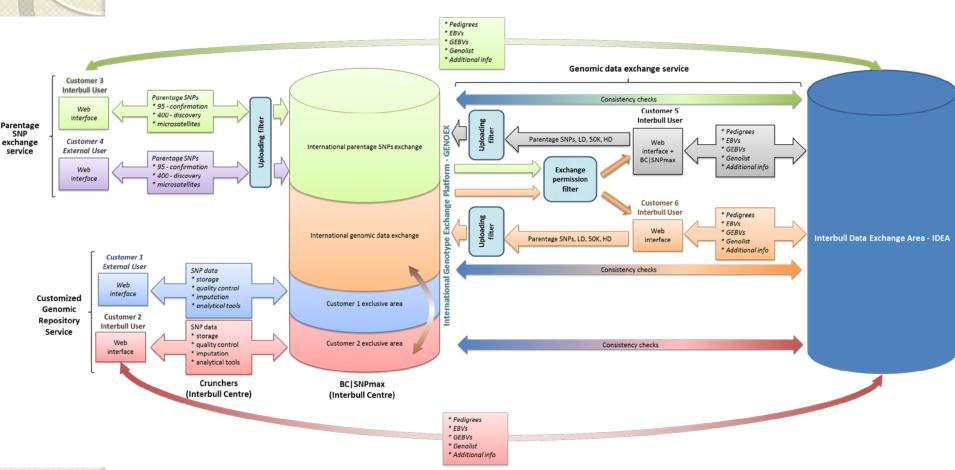


Customized genomic repository service





Genoex – service categories





Genoex – service categories

