



THE GLOBAL STANDARD
FOR LIVESTOCK DATA

Network. Guidelines. Certification.

Introducing ICAR

ICAR 40th Conference
Puerto Varas, Chile
October 24th, 2016

15-11-2016

Martin Burke, CE ICAR,

www.icar.org

Content

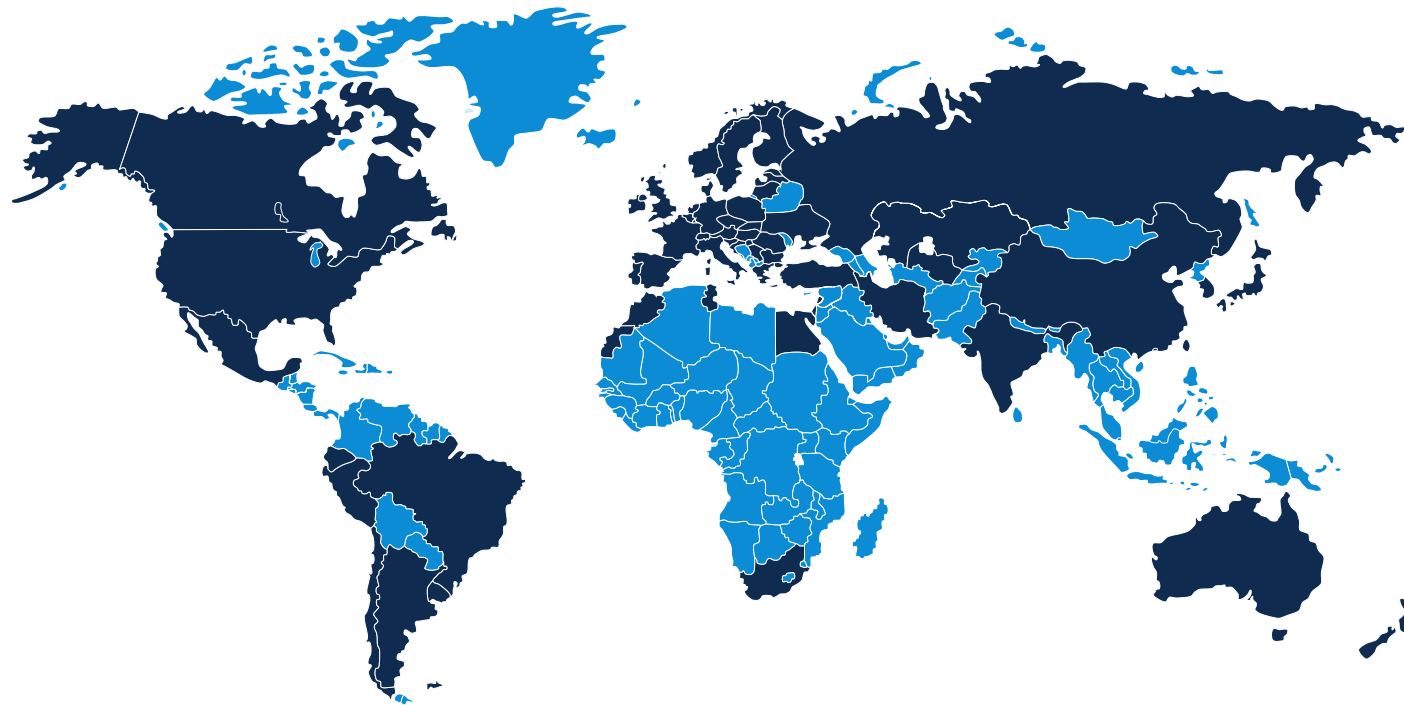
- ICAR Facts
- ICAR Structure & Group activity
- ICAR Services
- ICAR 2016 and beyond

ICAR fact sheet

- ICAR: The International Committee for Animal Recording
- International Non-Governmental Organization (INGO)
- Formed on March 9th, 1951, in Rome
- ICAR is composed of 117 Members from 59 countries;
87 Full Members, 30 Associate Members.

ICAR's members

ICAR has 117 members (87 Full members + 30 Associate members) in 59 countries



Countries (in dark blue) with at least one organisation as ICAR Member

ICAR Mission Statement

Mission of ICAR is to be the leading global provider of Guidelines, Standards and Certification for animal identification, animal recording and animal evaluation.

ICAR wants to improve the profitability, and sustainability of farm animal production by:

- Establishing and maintaining guidelines and standards for best practice in all aspects of animal identification and recording.
- Certifying equipment, and processes used in animal identification, recording and genetic evaluations.
- Stimulating and leading: continuous improvement, innovation, research, knowledge development, and knowledge exchange.

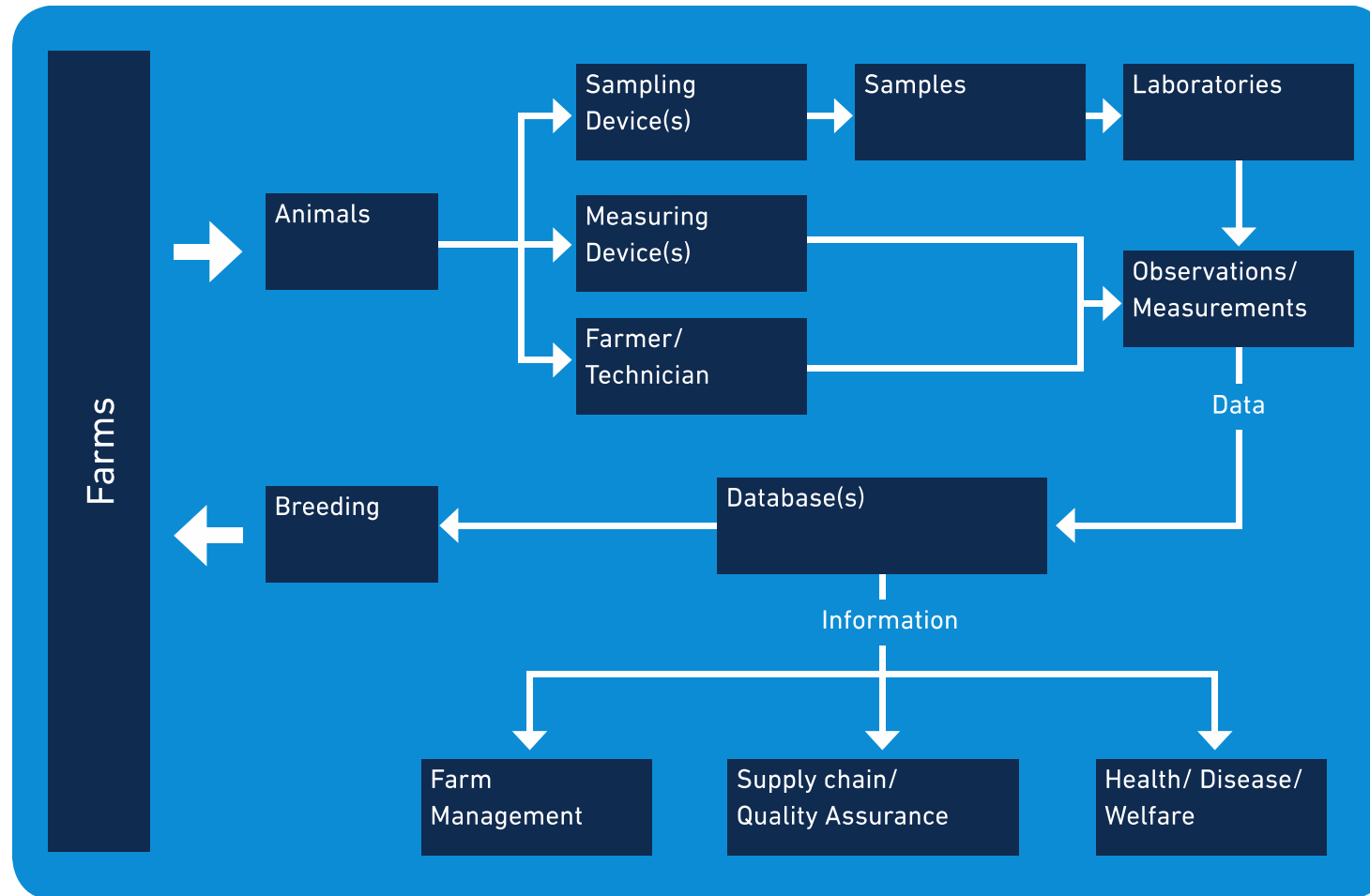
ICAR's focus

- **For our members**
 - ICAR is there for its members: farm and breeding organizations facilitating 'their' local farmers in data-recording and evaluation of production animals.
- **Help to make reliable farm management decisions**
 - Farmers need to be able to rely on data, in order to make management (including breeding) decisions.
 - Their aim is our aim: produce healthy, safe and sustainable food in a valuable way.
- **In close cooperation with associate members**
 - ICAR cooperates closely with those organizations that provide products and services to our members in the recording and genetic process and in farm management information.

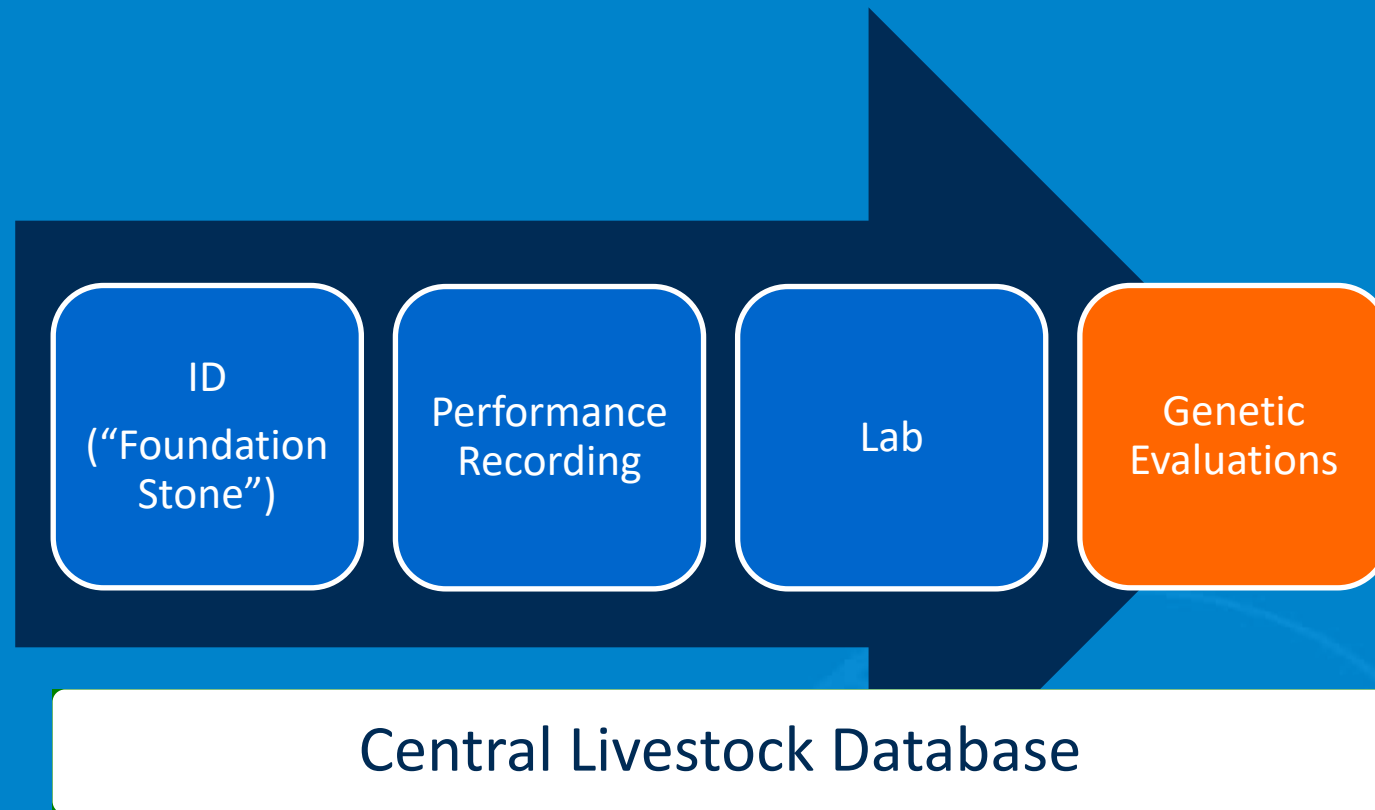
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Where ICAR operates



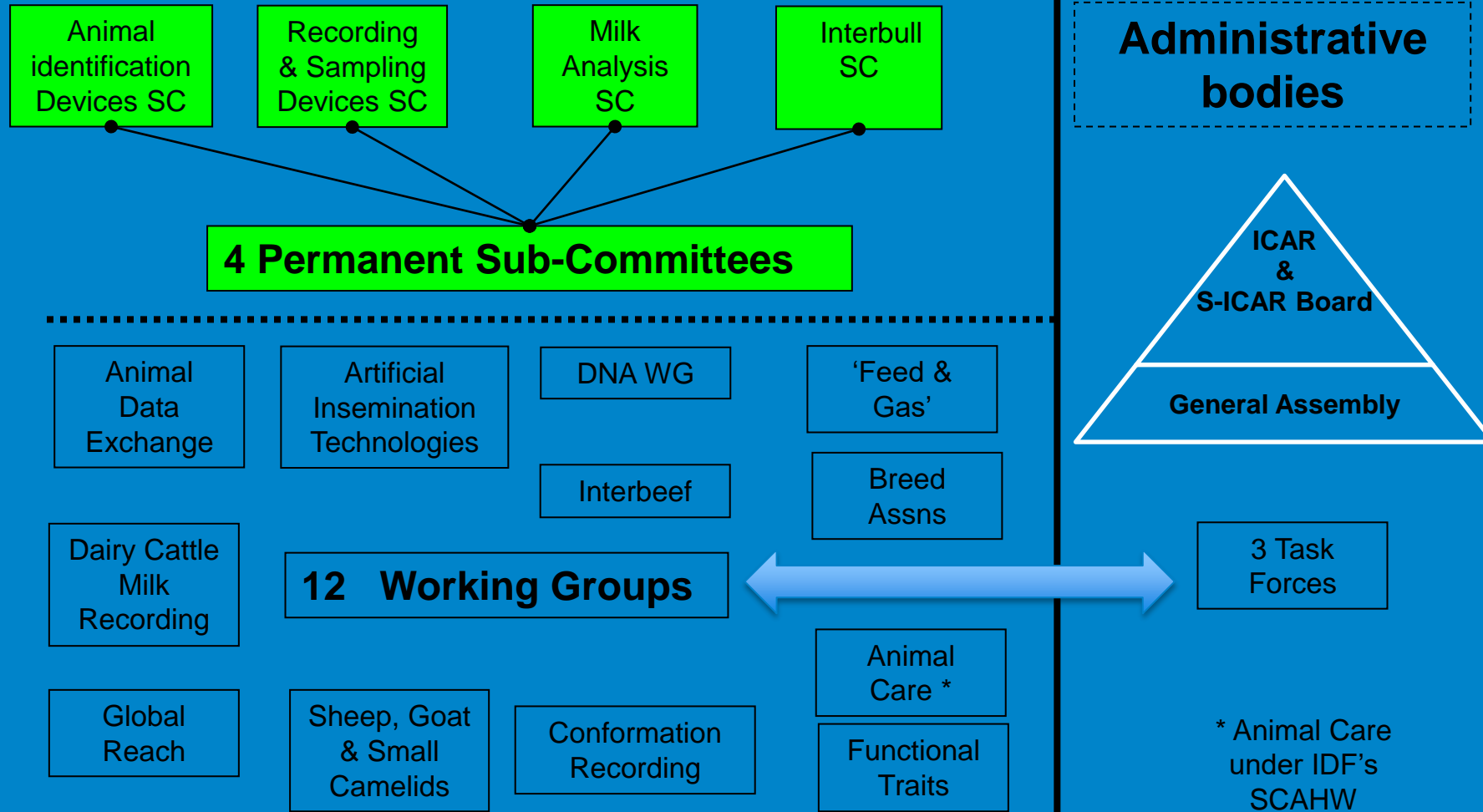
ICAR's 4 Permanent Building Blocks



ICAR Structure

- ICAR is “The” international reference guideline for animal identification, recording systems, data analysis and genetic evaluation.
- The ICAR activities are managed by ;
 - 4 Permanent Sub-Committees (SCs)
 - 12 Working Groups (WGs) plus 3 Task Forces and various Expert Advisory Groups which support the SCs & WGs

ICAR Current Technical Organisation



ICAR Guidelines and Standards

- Results of the work of the ICAR Sub-Committees and Working Groups are the “ICAR RECORDING GUIDELINES”
- The Guidelines is a “living being” of amendments/updates, according to new technologies, tools and developments
- Every year new text of RG is proposed to GA for approval



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- **ICAR Services**
- ICAR 2016 and beyond

ICAR's core products and services

- Guidelines
- Certification Services
- Evaluation Services
- Seminars and workshops

for



ANIMAL
IDENTIFICATION



ANIMAL
RECORDING



ANIMAL
EVALUATION



ANIMAL DATA
MANAGEMENT

ICAR's (Independent) Services;

- Identification Tag Test and Certification
 - ICAR and ISO have together developed test procedures, protocols and guidelines through which compliance of RFID systems with the ISO standards can be verified.
 - Since 2007, ICAR is the Registration Authority for ISO in respect to ID devices conforming to ISO Standards 11784 / 11785.
 - Working with our Industry stakeholders ICAR has in 2016 introduced a QA system for ID, namely; Certification, 5Yr Retest, DCN, Field Validation Services.



ICAR's (Independent) Services ;



- Recording Device Test and Certification
 - Evaluates, tests and certifies milk recording and other animal recording/sampling devices in the market for compliance with stipulations of the latest ICAR Recording Guidelines. (Section 11)
 - In 2016 ICAR convened a Task Force to review Sensors in Recording. The goal of this ICAR Sensor Task Force is to provide guidelines/methodology to help classify and qualify Sensors and Sensor data.

ICAR's (Independent) Services;

- [Milk Analysis Proficiency Testing \(PT\)](#)



- Provides an international Inter-laboratory Proficiency Test programme for member laboratories. The participation in ICAR's twice yearly PT Test complies with analytical quality assurance requirements in ISO 17025.
- The ICAR PT parameters considered are: fat, protein, urea, somatic cell, lactose, Beta-Hydroxybutyric (BHB), PCR and Pregnancy Associated Glycoproteins (PAG).

ICAR's (Independent) Services ;



- **DNA Laboratory Accreditation**
 - Provides Accreditation for laboratories who analyse biomaterial to produce DNA Genotypes (DNA Data). For this accreditation, applicants (so called wet labs) have to provide a valid ISAG membership number. ICAR maintains a list of accredited laboratories on its website.
- **DNA Interpretation Centre Accreditation**
 - ICAR has developed a new Accreditation for DNA Data Interpretation Centres who take the DNA Data from the 'wet labs' above and interpret the data for the purposes of Animal Identification, Parentage Verification and Parentage Discovery. (so called dry labs).

ICAR's (Independent Services) ;

- International Genetic Evaluations
 - The **INTERBULL Sub Committee** is responsible for coordinating the research and development of methods for international evaluation of the genetic merit of dairy cattle on behalf of ICAR members.
 - Likewise, the **INTERBEEF Working Group** is responsible for international genetic evaluation of beef cattle.
 - This international evaluation work is done by the **Interbull Test Centre** at our strategic partner, the Department of Animal Breeding & Genetics in the **University of Uppsala in Sweden (SLU)**.



ICAR's (Independent Services);



- Parentage SNP Exchange ('GenoEx' PSE)
 - ICAR & INTERBULL are offering a new genotype exchange service. This is to facilitate the work of organisations in charge of parentage certification by sanctioning the establishment of a database for storage and exchange of SNP data at the Interbull Centre in SLU.
 - The goal of ICAR is to identify the needs and also sanction the stepwise build-up of a system that meets the requirements of using SNPs in parentage validation and recording.

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- **ICAR 2016 Focus for ICAR Team**
 - ICAR Brand Project – modernised brand
 - ICAR Proficiency Test – global under ICAR
 - ICAR Certificate of Quality – New Consultative Review and Audit Schedule
 - Group Review - update and consolidate.





THE GLOBAL STANDARD
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- 2017 Focus for ICAR Team

- ICAR Guidelines - Refresh Access/Navigation.

- ICAR 'Global Reach' - bringing ICAR to all parts of the globe



ICAR's Values 2016 & Beyond;



Summary of Benefits – 7 Reasons to work with ICAR

1. An open platform for best practices and shared development
2. A shared system for the benefit of all in quality based livestock production
3. Helping to keep up with speed of innovation
4. Certification Services to validate quality and to stimulate open markets
5. A neutral body for open international markets and a level playing field
6. Working for equal opportunities for all, also in emerging markets
7. A roadmap to professional breeding programs



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Muchas Gracias !

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