

Food and Agriculture Organization of the United Nations

Animal identification for traceability

and performance recording: FAO's

multipurpose and integrated approach

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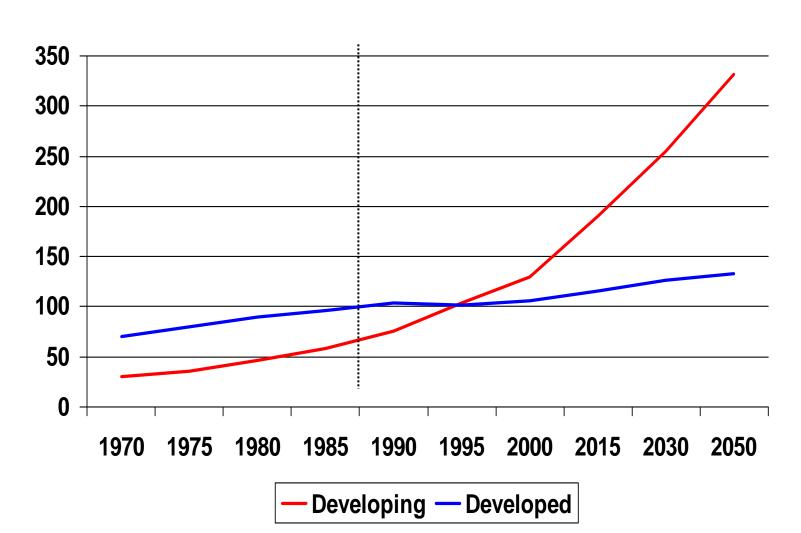
Global context

- Massive increase in demand for food of animal origin
- Longer and more complex transport and value chains
- Intensification of production systems and development of industrial private sector
- Reduction of public investment, transfer of certain services to private sector and awareness of shared responsibility
- Awareness of consumers about food safety, quality, animal welfare and the environment



Global context

Meat: Million metric tons



Farming systems evolution in Dvl'g Countries

from:

- Smallholder mixed to large-scale industrial
- Multifunctional to commodity-specific
- Local market to globally integrated markets
- Scattered to clustered production
- Diverse breeds/varieties to narrow genetic base
- Increasing dichotomy between large and small/middle size farms



Animal identification, traceability and performance recording



Definitions

- Animal identification is the marking of an animal, individually or collectively by its group, with a unique individual or group identifier
- Animal identification system is the inclusion and linking of components such as identification of establishment / owner(s), the person(s) responsible for the animals, movements and other records with animal identification
- Recording is the process by which data including parentage, characteristics, performance and relevant events, are collected, recorded and securely stored and made appropriately accessible to the users.



Definitions - Traceability

- ISO8402: The "aptitude to find the history, the use or the localisation of an entity by means of recorded identifications"
- Codex definition (27th CAC 2004): Traceability/product tracing: The ability to follow the movement of food through specified stage(s) of production, processing and distribution.
- OIE: The ability to follow an animal, or group of animals, during all stages of its life

AI: Important tool for many purposes

- Farm management
- Genetic improvement
 - basis for pedigree and performance recording
 - artificial insemination schemes
- Biodiversity management
- Prevention & control of zoonosis & other animal diseases
- Trade opportunities
 - trade certification and access to markets for higher quality and geographically identifiable products
- Proof of ownership
 - subsidy payment schemes
- Theft control



Protect public health (food safety)

- identify, trace and control animal movements
- identify, trace and recall unsafe foods (and feeds) at any stage of the food production and distribution chain
- tool of risk management

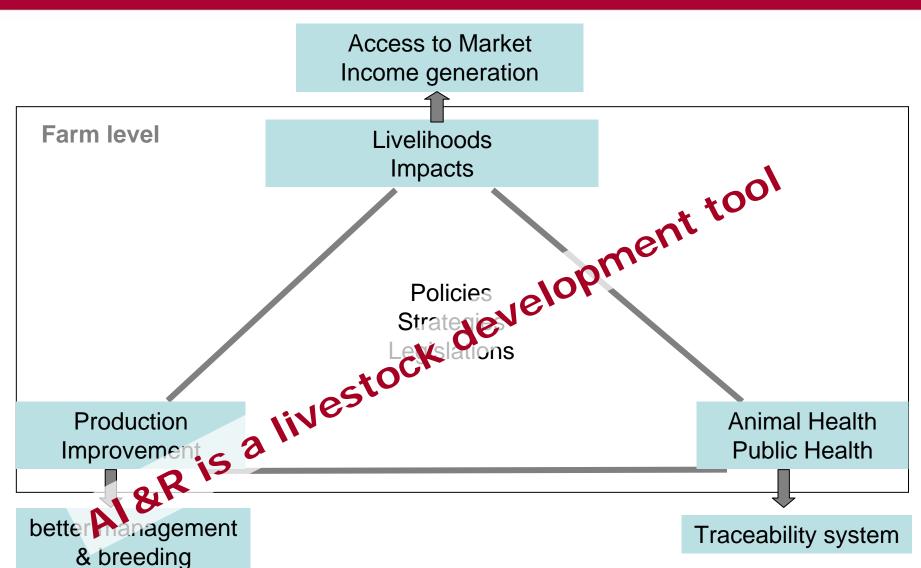
Plant and animal health

Ensure inspection and certification for animal health

Ensure fair practices in food trade (WTO TBT Agreement)

 protect from deceptive practices and fraud in the market place and unsubstantiated product claims (e.g. geographic indication, food quality)

Al&R: FAO Multipurpose integrated approach





AI&R: FAO Multipurpose integrated approach

This multipurpose and global approach increases acceptance and distribution of costs among all stakeholders

Players – National level

- Breeders organisations
 - Production recording
 - Herd book and IPR
 - Al and breeding programme management
- Competent authorities
 - Traceability
 - Public health
 - Animal health and welfare
 - Animal movement
- Livestock and food industry
 - Market access
 - Traceability
 - Product branding

Players – International level

Standard and guideline setting
WTO, OIE, Codex Alimentarius (FAO/WHO),
ICAR, ISO, private/retail/processing

Support to standards implementation
FAO, World Bank and other funding agencies,
Livestock and food industry



















- National Counterpart: Ministry of Agriculture, Livestock, Environment, Health, Planning, etc
- Partners: international conventions and bodies, REO, CGIAR/ARIs/NARS, NGOs, private sector

FAO's Global Goals

- reduction of number of people suffering from hunger;
- elimination of poverty, increased food production, enhanced rural development and sustainable livelihoods;
- sustainable management and utilization of natural resources for the benefit of present and future generations.



FAO's tasks

Based on FAO's comparative advantages:

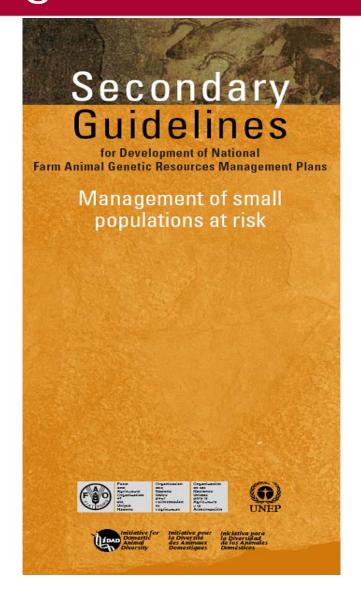
- putting information within reach
- sharing policy expertise
- providing common fora for countries and stakeholders
- bringing knowledge to the field

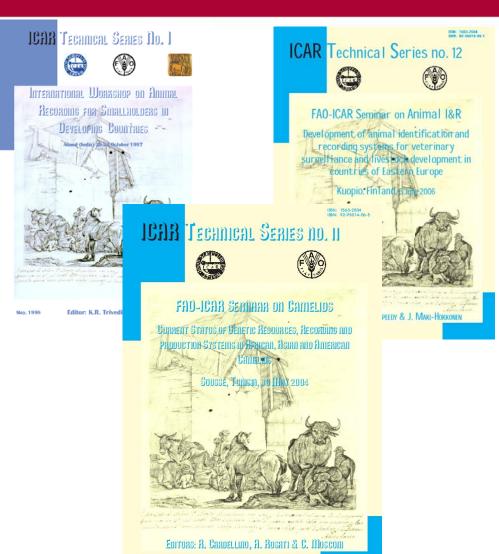
FAO's activities in AI&R

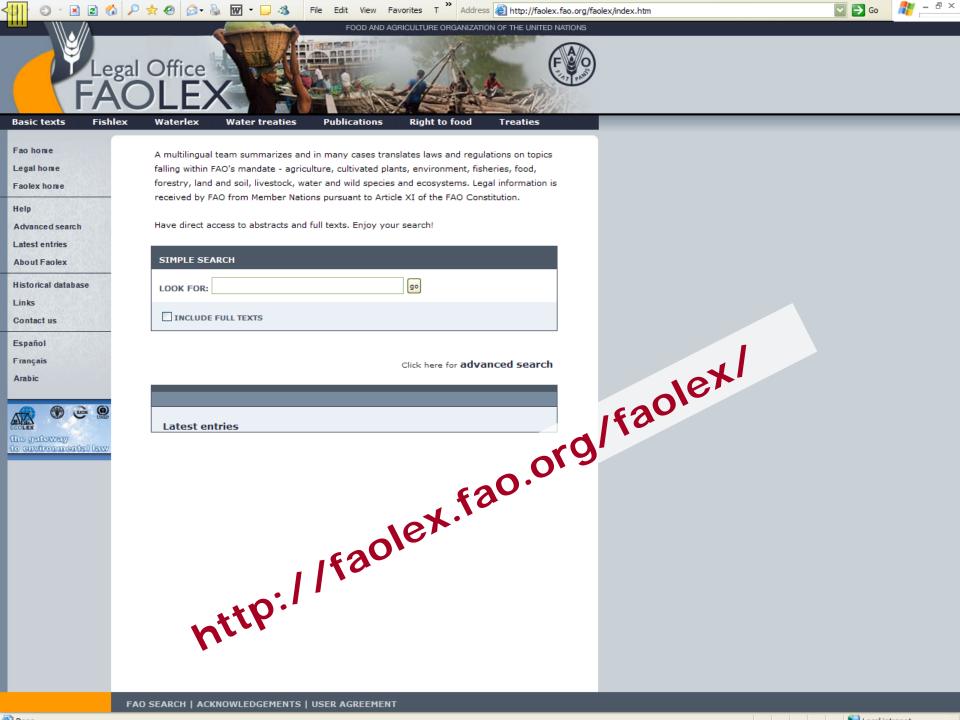
- Technical cooperation projects for formulating legislation and designing national AI&R systems; e.g. Chile, Uganda, Malawi, Lesotho, Moldova, Ukraine, India, Swaziland, Tanzania,....
- Organization of joint FAO-ICAR workshops: Tunisia, 2011, Hungary 2008; Finland 2006; Tunisia 2004; Switzerland 2002; Slovenia 2000; Poland 1998; India 1997
- Develop/update guidelines for AI&R, with focus on small-scale production
- Support to ICAR WG for Developing Countries



guidelines for AI & R









FAO Survey

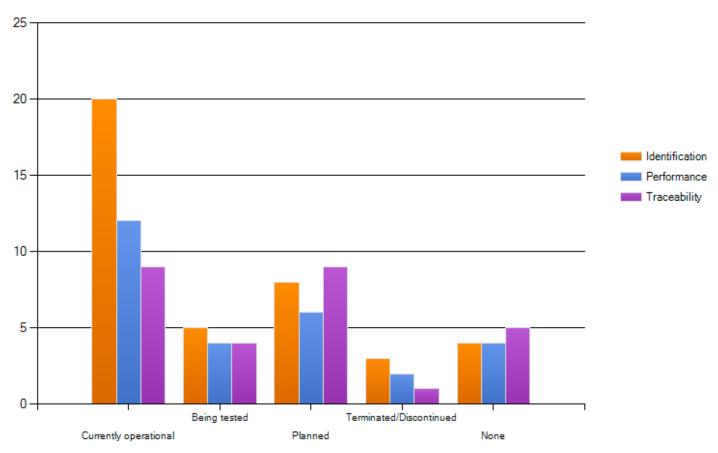
Objectives:

- What is the current situation? Threats & Opportunities?
- What lessons can we learn?

Survey (Questionnaire)

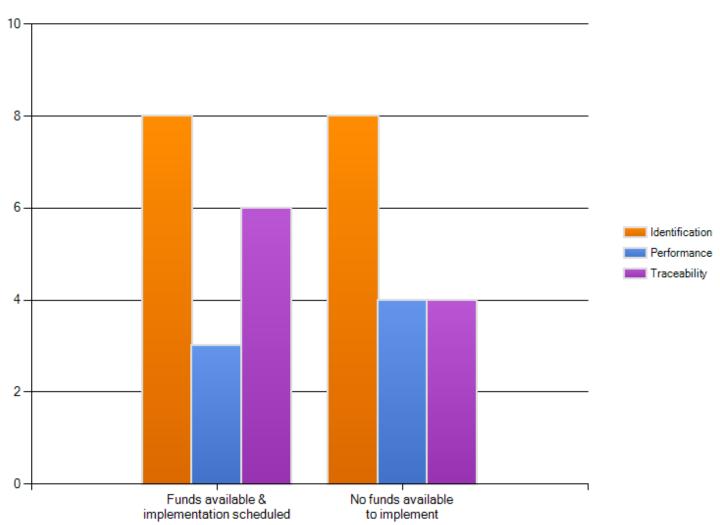
- Existing systems (running, planned or being implemented)
- Purpose(s)
- scope
- Funding
- Type of production system
- •



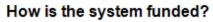


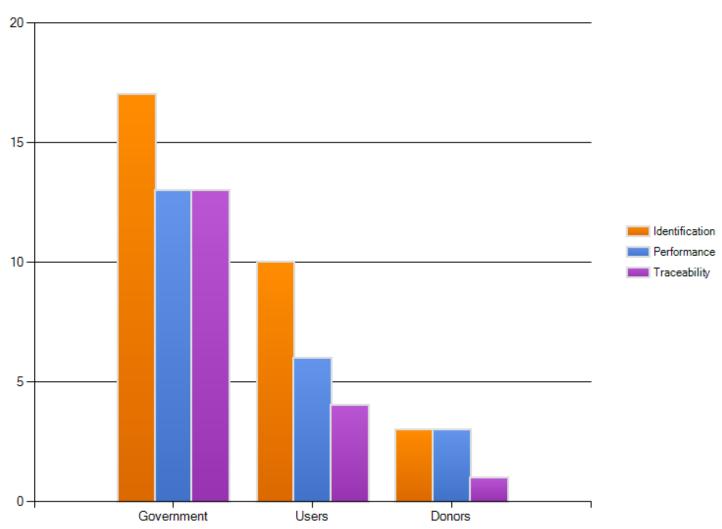


If systems are planned, what is the progress towards implementation?



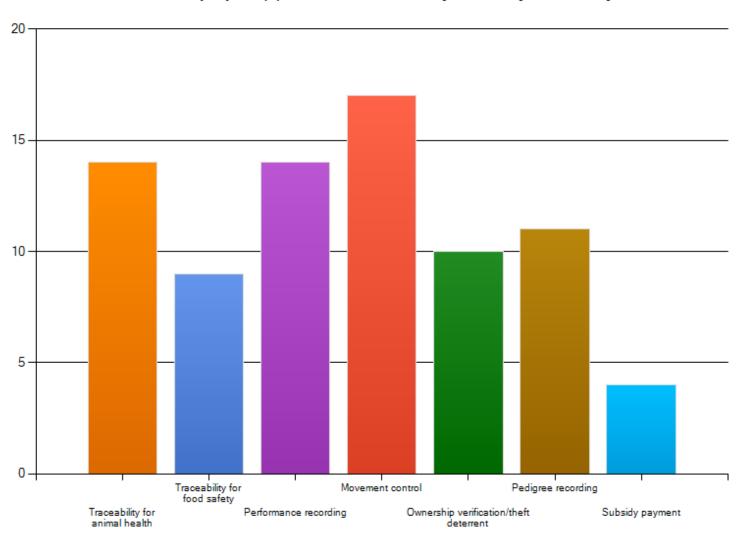






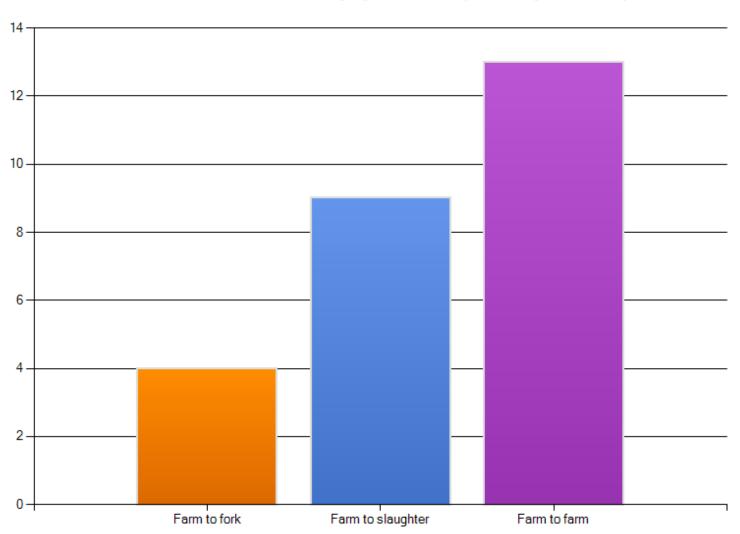


What are the purpose(s) of the identification systems in your country?



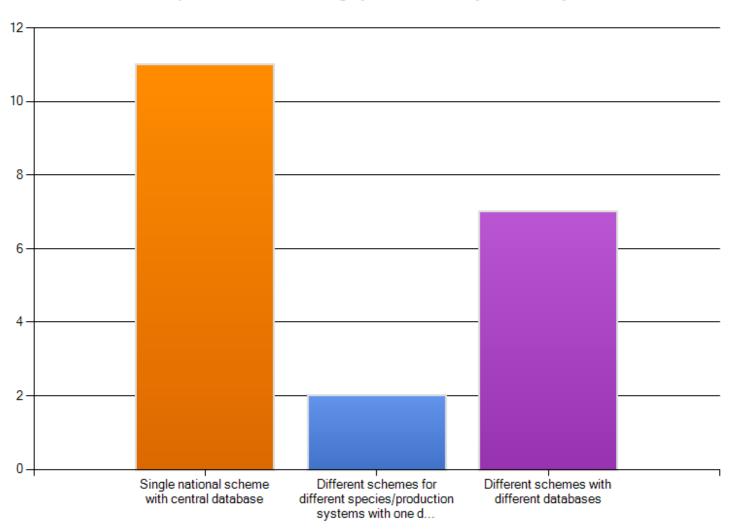


What is the extent of the traceability systems that operate in your country?



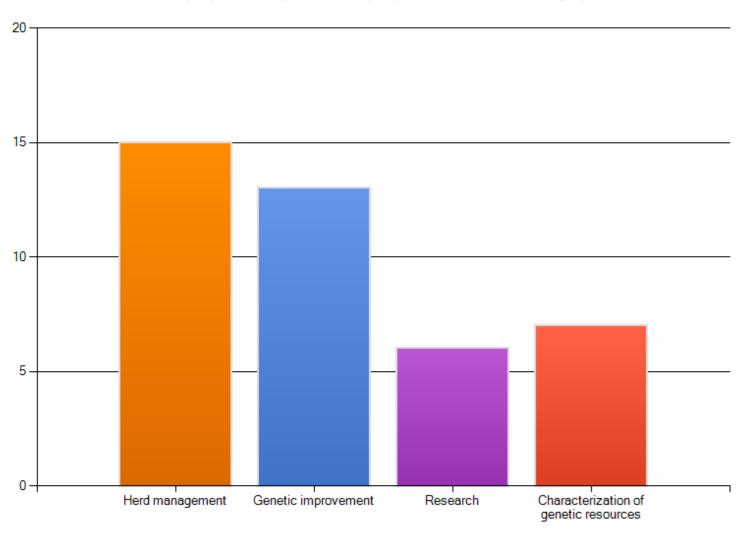


What performance recording systems exist in your country?



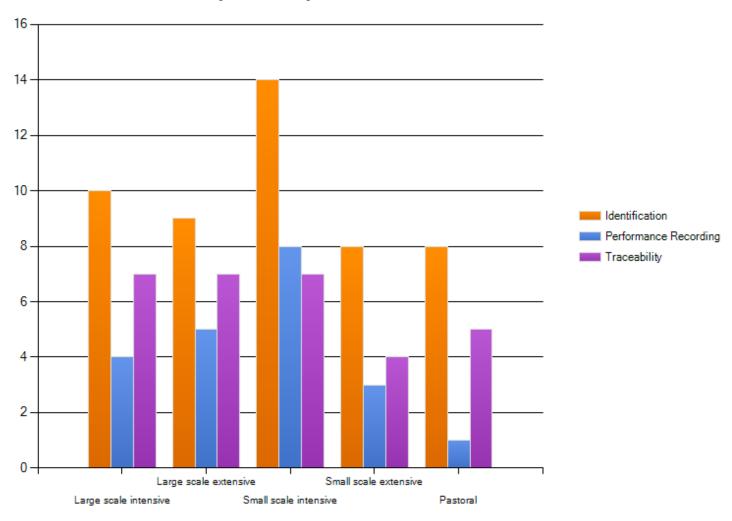


What are the purposes of your country's performance recording systems?





What are the main production systems with recorded animals in your country?





Challenges

- Countries' relations: trade (WTO, TBT, SPS)
- Lack of political will, esp. in absence of direct motivation (trade)
- Lack of resources (human and financial) in developing countries to implement traceability
- Lack of infrastructure and support services
- Need for a better collaboration and coordination among international players



What can FAO do more?

- Reinforce capacity building and support to countries to implement compliant identification, traceability and perf. recording systems
- Ensure coordination with other international players, especially at the country level
- Play a bigger role in policy and standard setting - FAO may try to influence international agreements/standards so they focus more on results rather than the method