

# Web based solutions to support management on cattle dairy farms

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**Workshop**

*Establishing Operational Groups under Rural Development Programmes*

**Ljubljana, 25-26 March 2014**



# Agricultural Institute of Slovenia ([www.kis.si](http://www.kis.si))

- A public research institution founded in 1898
  - *Crop Science*
  - *Plant Protection*
  - *Fruit Growing, Viticulture and Oenology*
  - *Agricultural Economics*
  - *Agricultural Engineering and Energetic*
  - *Agroecology and Natural Resources*
  - *Agrochemical and Oenological Labs*
- *Animal Science (Cattle, Pigs, Bees, Animal nutrition)*
  - *Recording data processing center in cattle*

*To bring innovations  
and promote new knowledge  
in agriculture*



[www.cattle.si](http://www.cattle.si)



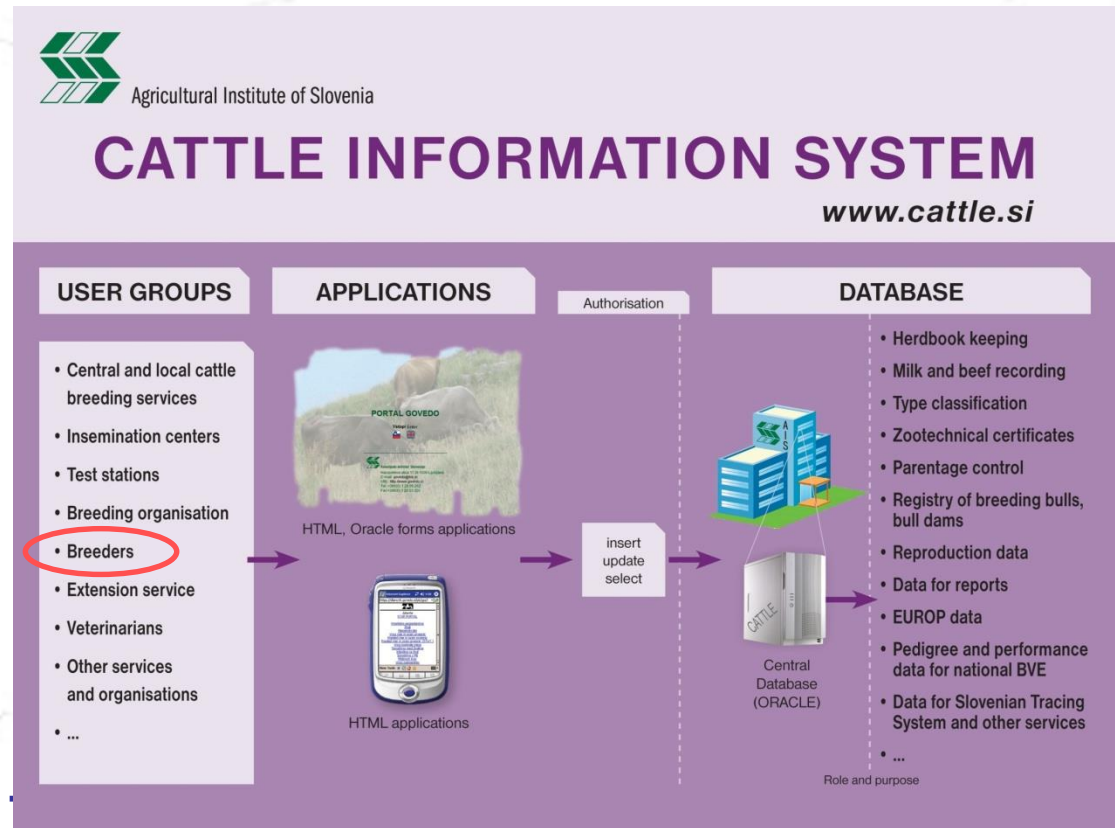
# Recording Data Management

- In the 1990s, development of the new **Cattle Information System (CIS)** started

- CIS caters for most informational requirements in the Slovenian cattle breeding scheme

- All farmers access to [www.cattle.si](http://www.cattle.si)

- Data & technology enable new tools  
→ Animate farmers,...



# Initiative for applications

- Later initiative for a farm management tools **on the base of recording data** came from:
  - Farmers
  - Advisers, veterinarians, feed industry
    - Different meetings
- Why?
  - Dairy production - need of a lot of decisions on a daily base  
→ To produce milk of good quality, healthy animals, to reduce costs → **for better income**
- *R&D* - Agricultural Institute of Slovenia, Animal Science Department (AIS)
  - ID - Partly founded as public expert work, a lot of voluntarily work
  - KOKRA – CRP project



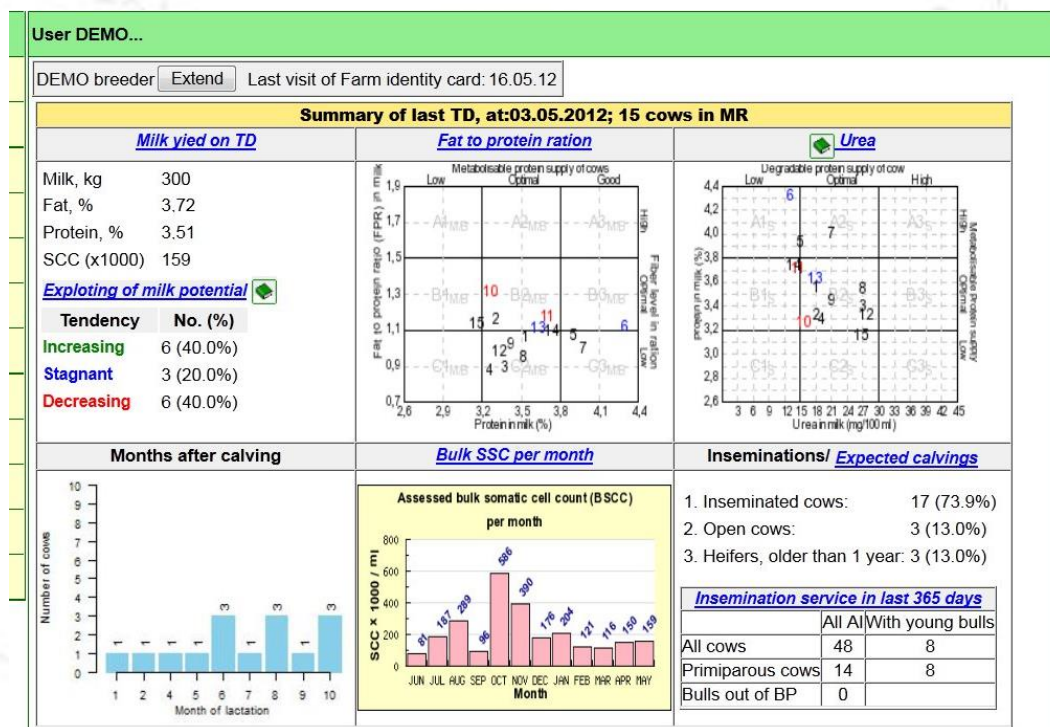
# Farm Identity Card (ID)

- Application to facilitate decision-making in the field of herd management
  - Dynamic views with links to further more detailed information and instructions



- To make recording data more effective

- Information immediately after data processing  
recording+1-2 days





# Application KOKRA

- *Application* for planning of dairy cow rations

- Data from:
- Recording sys.
  - Farms
  - Feed industry
  - Labs



# Communication

- Farmers were/are informed
  - On the regular recording reports
  - On educational meetings
  - In publications
- Now an E-mail ([govedo@kis.si](mailto:govedo@kis.si)) communication (15/month)
  - Questions
  - Needs ...



## Positive response!

- Voluntarily access!
- No. of visitors is increasing
- 20% herds (out of 4.000) with 30% dairy cows use Farm ID card regularly



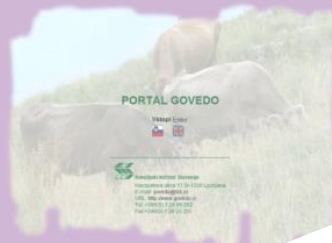


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# CATTLE INFORMATION SYSTEM

→ To be a good service for cattle breeding scheme and also for farmers, industry ...

- Central and local cattle breeding services
- Insemination centers
- Test stations
- Breeding organisation
- Breeders
- Extension service
- Veterinarians
- Other
- ...



HTML, Oracle forms

**Good DATA – very important for all decisions!**  
**CIS** - An useful platform  
for new Operational Groups



Central  
Database  
(ORACLE)

- Herd management
- Breeding bulls, dams
- Reproduction data
- Data for reports
- EUROP data
- Pedigree and performance data for national BVE
- Data for Slovenian Tracing System and other services
- ...

Role and purpose





# Go further!

New needs of partners (farmers, dairy industry, ...)

A big interest for cooperation

Knowledge

Ideas

→ Solutions in benefit of all partners and society

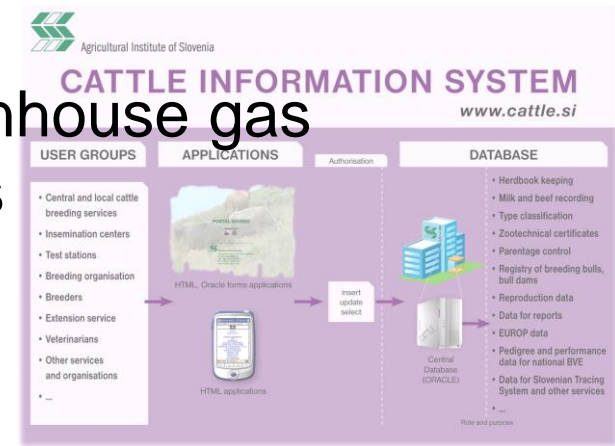
Founding as OG?



# Projects ideas

Regarding farmers, dairy industry, consumers, ... needs

- Production of milk with special characteristics (low somatic cell milk, n-3 fatty acid rich milk, hay milk, ...)
- Milk with special reputation (milk produced by autochthonous breeds)
- Milk characterized by low greenhouse gas emissions, milk from hilly areas
- ...



# Thank You for your attention!

*CIS R&D:*

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