



VINEYARDS REGISTER, HOP-FIELDS REGISTER, GARDENS REGISTER

CUSTOMER DESCRIPTION

Vineyards register, hop-fields register and gardens register information system (further as Special Registers or SR) has been created for the Central Institute for Supervising and Testing in Agriculture (CISTA).

The Ministry of Agriculture of the Czech Republic has been the biggest investor and the highest authority.

CISTA

- is operated by the Ministry of Agriculture of the CR as a specialized authority of the state administration
- is an organizational section of the state
- is an administrative authority.

The Institute performs the administration and carries out some other administrative activities, expert and testing tasks and control and monitoring activities in accordance with special acts in the areas of viticulture, feedingstuffs, varieties, seeds and seedlings of the grown plants, protection of hops, fertilisers, soil improvers, growth regulators and substrates and agrochemical examination of agricultural soil, plant variety rights protection and in the area of the animal production. The institute

headquarters are in Brno and its activities are ensured at workplaces all over the Czech Republic.

CISTA is the main user of the special register information system.

The Ministry of Agriculture is according to Act No.2/1969 Col. and 272/1996 Col. a central authority of state administration for agriculture excepting preservation of agricultural land fund, for water management excepting preservation of natural water accumulation, preservation of water sources and preservation of water quality, and for food industry. It is also a central state authority administrating forests, hunting and gamekeeping and fisheries outside territory of national parks.

The Ministry of Agriculture is also a governmental authority of administration in the matter of stock exchanges of commodities, which organize trading with commodities coming from agricultural and forest industry, further in the matter of veterinary and plant-care, of protection of animals against cruelty, and of protection of rights to new plant varieties and to new breeds of animals.

STARTING POSITION

Up to the execution of the project there had been no uniform special register information system.

The vineyards register, the hop-fields register as well as the gardens register had been represented by three different authorities.



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This condition entailed following problems:

- The registers did not contain processes support connected to new legislation (especially with entering the EU)
- It was the matter of local installation in all cases. It meant limited usage possibilities.
- An investor required the possibility of distant access into the registers within the complete MZe internal network. Used technology did not make this possible.
- The registers were not ready to cooperate and/or share information with other information systems. Those were namely information systems of these authorities:
 - The Ministry of Agriculture of the Czech Republic (MZe)
 - The State Agricultural Intervention Fund (SZIF)

- The Czech Agriculture and Food Inspection Authority (SYPI)

- Each of these registers was managed by a different IS/ICT company. The registers were not developing at the same rate, they did not share common codebooks.

OBJECTIVES

Following objectives requests have emerged due to inadequacies of the starting position:

- 1) to create a completely new and uniform application for all three registers
- 2) to support processes emerging from new legislation
- 3) to use a three-layer architecture – to enable access for users via web forms
- 4) to implement cooperation with information systems of other authorities – MZe, SZIF, SZPI

ANALYSIS DESCRIPTION

Special register information system has been developed by the help of ORACLE technology. The whole project has been realized by the SDLC (System Development Life Cycle) method in following stages:

Strategy

- Appointing a steering committee and an executive body
- Defining objectives, specific outcomes and criteria of success
- Setting a progress chart

Analysis

- Rational data model
- Data path diagrams
- Functional model – processes definition
- Entity life cycles
- These outcomes have been reached by the means of business meetings of the executive body
- The stage has been closed by a steering committee meeting



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Design

- Physical data model
- Graphic proposal to all forms
- Detailed description of all processes
- The stage has been closed by a steering committee meeting

Build

- An outcome of this stage is a tested application

- A scope of this stage is self programming

Tests

- An outcome of this stage is an application ready for verification operation
- Unit tests
- Integration tests
- Exercise tests
- User tests
- The stage has been closed by a steering committee meeting

IMPLEMENTATION AND VERIFICATION OPERATION

- An outcome of this stage is an application ready for regular operation
- Application implementation into operational environment
- Training for verification operation users
- Verification process feedback
- Taking the feedback into consideration before launching the regular operation
- The project is closed by an acceptance procedure with the participation of the steering committee

ANALYSIS CONTRIBUTION

A user or an investor have acquired a special register system, which has fulfilled all objectives.

- Completely new and uniform application for all three registers
- Meets new legislature
- The system is perfectly documented and verified by further adjustments (especially because of potential changes in legislature)
- Users access the registers via web forms
- The system communicates with information systems of other authorities – MZe, SZIF, SZPI



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