

FITOSANITARNI INFORMACIJSKI SISTEM - VSEBINE IN ZAHTEVE

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IZVLEČEK

Fitosanitarni informacijski sistem predstavljajo vsi informacijski sistemi s področja zdravstvenega varstva rastlin, fitofarmaceutskih sredstev, mineralnih gnojil, varstva in registracije sort rastlin ter kakovosti semenskega materiala kmetijskih rastlin, ki se razvijajo pod okriljem državnega organa, pristojnega za fitosanitarno področje. Njegovi zametki segajo v leto 1997, ko je začel delovati spletni portal Fito-info. Sledila mu je spletna aplikacija za podporo upravnih zadev Fito-register, ki vsebuje register izdajateljev rastlinskih potnih listov oziroma imetnikov določenih rastlin, rastlinskih proizvodov in nadzorovanih predmetov v skladu z Zakonom o zdravstvenem varstvu rastlin in s tem povezane evidence. V letu 2003 smo začeli z razvojem več aplikacij za podporo upravnim postopkom, registrom in evidencam:

- Fito-register je bil nadgrajen s Seme-registrom, ki vsebuje register dobaviteljev semenskega materiala kmetijskih rastlin in s tem povezanih evidenc.
- Fito-nadzor, ki vsebuje podatke o pojavljanju škodljivih organizmov, najdenih na območju RS, ki so jih v okviru načrtovanih posebnih nadzorov zabeležili fitosanitarni inšpektorji ter pooblaščenici izvajalci fitosanitarnih pregledov. Vsebuje tudi evidenco opravljenih analiz pooblaščenih laboratorijev za zdravstveno varstvo rastlin.
- Fito-GIS je modul, ki je vgrajen v večino omenjenih aplikacij in omogoča zajem geografskih podatkov v registre in evidence in različne prostorske prikaze in analize geografsko povezanih podatkov.

V letu 2004 smo pričeli še z razvojem modulov, ki tudi geoinformacijsko beležijo preglede in dogodke povezane z varstvom rastlin in so podlaga za upravljanje fitosanitarnega področja v Republiki Sloveniji:

- Fito-pregled je pilotska aplikacija, ki vsebuje evidenco inšpekcijskih in fitosanitarnih pregledov fitosanitarne inšpekcije na področju zdravstvenega varstva rastlin, ki so jih opravili v notranjosti države. Vsebuje tudi evidenco uradno odvzetih vzorcev s sumom na karantenske ali gospodarsko pomembne organizme. V prihodnje bo to aplikacijo razširila aplikacija FSI-pregled, ki bo podpirala vodenje vseh postopkov in evidenc fitosanitarne inšpekcije.
- Fito-FFS je aplikacija, ki zajema register FFS, register prodajaln FFS, centralno evidenco izobraževanja na področju FFS in centralno evidenco opravljenih testiranj škropilnih naprav.
- Fito-sorta je aplikacija, ki zajema sortno listo kmetijskih rastlin, register prijav za varstvo sort rastlin in register zavarovanih sort rastlin v RS.
- Fito-prognoza je aplikacija v razvoju, zajema pa evidenco meteoroloških podatkov (on-line podatki meritev avtomatskih agrometeoroloških postaj v petih regijskih centrih opazovalno napovedovalne službe za varstvo rastlin), evidenco prognostičnih obvestil, vsebovala pa bo tudi prognostične modele za pomembnejše bolezni in škodljivce.
- Uradna spletna stran Fitosanitarne uprave RS (www.furs.si) je zbirka informacij o predpisih, mednarodnih standardih in drugih informacijah javnega značaja.

Ker je večina registrov in evidenc povezanih z ostalimi uradnimi evidencami RS je standardizacija in skladnost podatkov v vseh sistemih ključnega pomena za točnost in preverljivost podatkov ter izmenljivost podatkov z ostalimi aplikacijami. Zelo pomembna je tudi varnost sistemov, ki vsebujejo osebne in zaupne podatke. Standardizacija, skladnost podatkov - izmenljivost, sledenje dostopov in izpolnjevanje vseh zahtev varnosti informacijskih sistemov po obsegu in stroških predstavljajo dve tretjini obsega razvoja informacijskega sistema.

Ključne besede: informacijski sistemi, registri, evidence, varstvo rastlin, fitofarmaceutska sredstva, sorte rastlin, semenski material, Slovenija

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ABSTRACT**PHYTOSANITARY INFORMATION SYSTEM – SUBJECTS AND REQUIREMENTS**

The phytosanitary information system is represented by all information systems from the field of plant health, plant protection products, mineral fertilisers, protection and registration of varieties of plants and quality of agricultural seed material, which are developed under the auspices of a state body responsible for the phytosanitary field. It was initiated in 1997 with the website portal Phyto-info. This was followed by a website application, the Phyto-register, which was created as a support for administrative matters and includes the register of persons authorised to issue plant passports or of holders of certain plants, plant products and regulated articles in accordance with the Plant health act and the related records. In 2003 a number of applications were initiated as to support administrative procedures, registers and records:

- Phyto-register was upgraded with the Seed-register, which includes register of suppliers of agricultural seed and propagating material and the related records.
- Phyto-surveillance, which includes information in relation to the occurrence of harmful organisms, found within the territory of the RS, recorded by phytosanitary inspectors and authorised persons of phytosanitary examinations within planned special surveillance. It includes also the record of analyses performed by authorised laboratories for plant health.
- Phyto-GIS is a module, incorporated in most of the above mentioned applications, enabling geographical information to be included in registers and records, as well as various spatial presentations and the analysis of the geographically related information.

In 2004 we started to develop also modules for the geoinformational recording of examinations and events, related to plant health, which are the basis for the management of the phytosanitary field in the Republic of Slovenia:

- Phyto-examination is a pilot application, which includes a record of inspections and phytosanitary examinations performed by phytosanitary inspection in the field of plant health within the country. It includes also a record of samples, officially taken on the basis of suspected quarantine or economically important organisms. This application shall be in the future extended by the application PSI-inspection, as to support the management of all procedures and records of phytosanitary inspection.
- Phyto-PPP is an application, which includes the register of PPP, the register of sales outlets for PPP, the central record of training courses in the field of PPP and the central record of the executed tests of spraying equipment.
- Phyto-varieties is an application, which includes common catalogue of agricultural varieties of plants, the register of applications for the protection of varieties of plants and the register of protected varieties in the RS.
- Phyto-prognosis is an application which is under development and includes record of meteorological data (on-line data of the measurement carried out by automatic agrometeorological stations in five regional centres of the observation prognostic plant health service), record of prognostic reports, and is planned to include also prognostic models in respect of more significant diseases and harmful organisms.
- The official website of the Phytosanitary Administration of RS (www.furs.si) is a collection of information as to the regulations, international standards and other information of public character.

Since most registers and records are connected with other official records of RS, the standardisation and conformity of data in all systems is essential so as to ensure accuracy and ascertainability of data as well as exchangeability of data with other applications. The security of systems, which include personal and confidential data, is also of great importance. Standardisation, congruency of data – exchangeability, traceability of accesses and meeting all requirements in respect of the security of information system as regards the extent and costs, represent two thirds of the level of the information system's development.

Key words: information systems, registers, records, plant health, plant protection products, varieties of plants, seed material, Slovenia.