



Nadgradnja in prenovljene vsebine informacijskega sistema za varstvo rastlin Fito-info

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Od svojih začetkov, v letu 1997, slovenski informacijski sistem za varstvo rastlin – Fito-info nenehno doživlja vsebinske spremembe, predvsem zaradi povečevanja njegovega obsega. V prvi fazi je vseboval le podatke o registriranih fitofarmacevtskih sredstvih (FFS), seznam trgovin, kjer se prodajajo in nekaj osnovne zakonodaje. Kasneje so bile dodane še informacije o toksikologiji FFS, opisi in slike škodljivih organizmov, začeli smo tudi s poskusno objavo prognostičnih obvestil Opazovalno-napovedovalne službe za varstvo rastlin Slovenije. V zadnjem letu dni pa Fito-info doživlja popolno vsebinsko prenavo in precejšnjo nadgradnjo sistema z novimi informacijami. V letu 2002 je tako zaživel modul za objavo prognostičnih obvestil in elektronsko obveščanje naročenih uporabnikov prek elektronske pošte in kratkih SMS sporočil. V tem letu smo sistemu dodali še obsežen šifrant organizmov, imenovan Cirsium, ki vsebuje sistematiko organizmov, domača imena v različnih jezikih, slike, opise organizmov, in povezave na podsisteme, ki jih obsega Cirsium, kot je sortna lista, seznam FFS, seznam zakonodaje, karte razširjenosti organizmov ipd. Šifrant organizmov obsega podatke za okrog 200.000 različnih taksonov in okrog 130.000 domačih imen organizmov, od katerih jih je nekaj manj kot desetina slovenskih in več kot 3000 fotografij. Zadnja dva modula sta zasnovana kot relacijski podatkovni bazi na SQL strežniku, internet aplikacije pa so razvite na osnovi IIS in dinamičnih ASP strani. V zadnjem času smo začeli s preoblikovanjem preostalega dela sistema iz statičnih html dokumentov v relacijsko podatkovno bazo, ki bo omogočala sprotno ažurnost sistema ob vsaki vneseni spremembi v sistem. Razvoj sistema finančno in strokovno podpira Uprava RS za varstvo rastlin in semenarstvo, razvoj pa poteka v sodelovanju z več raziskovalnimi institucijami.

ABSTRACT

Upgrade and new issues of Fito-info - Slovenian information system for plant protection

From the first beginning in the year 1997, Slovenian information system for plant protection – Fito-info has been continually changing in his issues, mostly because of upgrading with new topics. In the first phase it consisted only from of data about the registered pesticides, list of stores where they are sold and some basic data about the legislation on the field of plant protection. Later the information about the toxicology of active ingredients and pesticides, systematic, description and images of harmful organisms where added in the system too. We also started with the publishing of information, which were issued by the Warning and forecasting service of Slovenia. In the last year Fito-info was redesigned and upgraded with many new information. In the year 2002 the information systems for prognosis and control measures against several diseases and pests were added. This is an automatic module, updated from official institutions in Slovenia, which are authorised for issuing official information

on prognosis and control measures against harmful organisms. Information's are in the real time available on the Internet page of Fito-info, and sent to the farmers or specialists via e-mail or SMS messages to the mobile phones. In the same year we started the development of a new application called Cirsium, which contains information on living organisms (systematic, common names in different languages, images, description of organisms, connections to other modules, which are related to the organism e.g. registered cultivars, pesticides, legislation, distribution maps etc.). At the present this module contains more than 200,000 Latin names of taxa, more than 130,000 common names of taxa from which one tenth are Slovenian, and more than 3,000 images. Last two modules are designed as relational databases on SQL server; Internet interfaces are developed in IIS and dynamic active server pages (ASP). Recently the redesigning of the system from html documents to the relational database have begun, which enables real time updating of the system from authorised users. Development of the system is financially and professionally supported by the Administration for Plant Protection and Seeds and is a result of cooperation of several research institutions.