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Type of presentation proposed: **Impact contribution**

Title of presentation: **AgroIT integration platform to support data integration in farming**

Summary: Farming has been witnessing high demands for data reporting and the deployment of various sophisticated technologies in the area of machinery and automation. Market of IT applications for farming offers quite a lot of applications, which lack the possibility of data integration. Presentation will introduce the benefits and impact of data integration in IT for farming through introduction of goals and concepts of AgroIT project whose goal is to implement cloud integration platform. Finally, also the initiative to define common information model for data in farming and the initiative to join efforts in data standardisation in IT for farming.

Extended abstract

In farming, there are various national and EU policies, which obligate farmers to report data in electronic form. EU and national governments are willing to give subsidies to farmers, but they will demand from year to year more data reported in electronic form. In the last decade, farming has also been witnessing the deployment of various sophisticated technologies in the area of machinery and automation. Market of IT applications for farming offers quite a lot of applications, which lack the possibility of data integration. Consequently, farming is witnessing the extensive need for data integration.

In the first part of the presentation, the benefits and the impact of data integration in IT for farming will be presented. Through presentation, some approaches, which increase the impact of data integration, will be presented: National livestock movement databases, registers of pesticides, weather data, etc. We believe that it is essential that various national registers become open, where farming applications will be able to perform not only data querying, but also updating.

In the second part of presentation, AgroIT project will be presented. AgroIT project is an EU project with the main objective to integrate various software products and devices through cloud integration platform: ERP systems for farming, mobile applications, GIS systems, sensors data, and data gathered by other devices, e.g. electronic traps and mobile weather stations.

One of objectives of AgroIT project is also to define and submit standard for integration. The overview of past and current projects and initiatives, which cover the area of standardisation of data integration for farming reveals, that significant effort has been done towards data integration in farming. In the last part of presentation, the brief overview of those projects and initiatives. Based on presenting those projects and initiatives we will present the analysis of current situation of data integration in IT for farming. As part of analysis two key initiatives will be presented: the initiative to define common information model for data in farming and the initiative to join efforts in data standardisation in IT for farming.