

# Perencanaan Strategis Sistem Informasi: Studi Kasus Badan Pendidikan dan Pelatihan Keuangan = Strategic Planning of Information Systems: A Case Study on Financial Education and Training Agency

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## Abstrak

Badan Pendidikan dan Pelatihan Keuangan BPPK merupakan unit eselon I di Kementerian Keuangan Kemenkeu yang bertugas menyelenggarakan pendidikan dan pelatihan diklat dan sertifikasi di bidang Keuangan Negara. Dalam menjalankan tugasnya, BPPK telah menggunakan sistem informasi/teknologi informasi SI/TI untuk kegiatan pembelajaran dan administrasi. Namun, selama periode 2012-2016, kemampuan rata-rata BPPK menyelenggarakan diklat terhadap total pegawai Kemenkeu sebesar 58. Hal ini berarti penggunaan SI/TI belum mampu menangkap peluang bisnis berupa pegawai yang tidak mengikuti diklat sebesar 42. Hasil observasi terkait SI/TI menemukan sebanyak 51 aplikasi tidak terintegrasi dengan beragam platform, database, dan tools yang disebabkan oleh pengembangan SI bersifat parsial dan tidak terencana. Oleh karena itu, BPPK membutuhkan Perencanaan Strategis Sistem Informasi PSSI. Dalam penelitian ini, pembuatan PSSI menggunakan metodologi Ward dan Peppard dengan menambahkan Business Model Canvas BMC untuk menganalisis model bisnis organisasi. Teknik analisis yang digunakan dalam penelitian ini adalah BMC, value chain, balance scorecard, critical success factors, PEST politic, economic, social, and technology, tren TI dan McFarlan strategic grid. Penelitian ini menghasilkan strategi SI/TI strategi SI, strategi TI, dan strategi manajemen SI/TI dan roadmap implementasi SI/TI berdasarkan strategi bisnis BPPK. Strategi SI mengusulkan, pertama BPPK fokus pada pengembangan core system kediklatan dan pembelajaran. Kedua, pengembangan SI dilakukan secara terpusat dan memperhatikan interoperabilitas dengan sistem lain agar tidak terjadi SILO sistem dan efisiensi sumber daya. Strategi TI mengusulkan, pertama pengadaan bandwidth dan jaringan dilakukan secara terpusat dengan spesifikasi perangkat manageable. Kedua, pengintegrasian SI menggunakan single sign on dan enterprise service bus Kemenkeu. Strategi manajemen SI/TI mengusulkan, pertama menambahkan steering committee dan chief information officer untuk menciptakan keselarasan strategi bisnis dengan SI/TI dan meningkatkan peran TI. Kedua, penambahan dan pengembangan kompetensi pengelola SI/TI di bidang project management, data integration, big data analytic, analisis media sosial, dan mobile application. Penelitian ini juga menghasilkan kebutuhan SI mendatang sebanyak 32 aplikasi dengan portofolio 26 aplikasi support, 2 aplikasi key operational, 1 aplikasi strategic, dan 3 aplikasi high potential.

.....The Finance Education and Training Agency FETA is the organization on the Ministry of Finance MoF which is responsible for organizing education and training and certification of State Finance. In performing its duties, FETA has used information system information technology IS IT for learning and administration activities. However, during the period 2012 2016, the average capacity of FETA organized training to total MoF employees by 58. This means that the use of IS IT has not been able to achieve business opportunities in the form of employees who do not the training by 42. Observation results related to IS IT found 51 applications not integrated with various platforms, databases, and tools caused by IS development are partial and unplanned. Therefore, FETA requires Strategic Planning of Information Systems SPIS. In this research, making SPIS using Ward and Peppard methodology by adding Business Model Canvas BMC to analyze the

organization's business model. The analysis techniques used in this research are BMC, value chain, balance scorecard, critical success factors, PEST political, economic, social, and technology, IT trends and McFarlan strategic grid. The results of this study IS IT strategy IS strategy, IT strategy, and IS IT management strategy and roadmap of implementation of IS IT based on business strategy of FETA. The SI strategy proposes that the first, FETA focuses on the core systems development are training administration and learning technology. Second, the IS development are centralized and must to interoperability systems should not to happen SILO systems and resources efficiency. The IT strategy proposes, first, the procurement of bandwidth and networking is centralized with device specifications manageable. Second, the integration of IS using the single sign on and enterprise service bus. The IS IT management strategy proposes, first to add steering committee and chief information officer to alignment business strategy and IS strategy and enhance IT role. Second, the addition human resources and development of IS IT competencies in project management, data integration, big data analytic, social media analysis, and mobile application. The research also result of the IS to be requirements of 32 applications with a portfolio of 26 application of support, 2 applications of key operational, 1 application of strategic, and 3 applications of high potential.