

# Kerangka Kerja Enterprise Agile Berdasarkan The Essence Of Software Engineering Menggunakan Metodologi Design Science Research (DSR) = The Enterprise agile Framework based on the Essence of Software Engineering using design science research (DSR)

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## Abstrak

Survei yang dilakukan oleh Project Management Institute dan VersionOne memaparkan bahwa pengembangan proyek menggunakan pendekatan agile telah berkembang sangat pesat. Kerangka kerja enterprise agile atau scaling agile diharapkan dapat menangani problem yang lebih kompleks pada saat organisasi beralih dari pendekatan tradisional ke agile. Meskipun saat ini terdapat metode-metode scaling agile yang populer memiliki praktik-praktik yang diajukan, tidak semua praktik dan metode tersebut cocok untuk organisasi. Oleh karena itu, memilih metode dan praktik agile dari beberapa metode dibandingkan adaptasi satu metode secara keseluruhan dapat dipertimbangkan sebagai strategi untuk pemilihan praktik yang diperlukan. Penelitian oleh scrum.org menyebutkan bahwa 49% organisasi tidak memiliki kerangka kerja untuk penerapan scaling agile mereka, sedangkan pemilihan kerangka kerja merupakan salah satu proses yang penting. Saat ini, belum ada penelitian yang membahas mengenai kerangka kerja yang bersifat general untuk enterprise agile. Penelitian ini bertujuan untuk membangun kerangka kerja enterprise agile berdasarkan konsep The Essence SEMAT Kernel dan general theory of software engineering. Design Science Research (DSR) digunakan sebagai metodologi penelitian, karena karakteristiknya yang sesuai dengan tujuan penelitian ini. Penelitian ini menghasilkan luaran berupa kerangka kerja enterprise agile yang sudah dilakukan proses uji coba pada beberapa organisasi di Indonesia. Proses evaluasi berdasarkan konsep DSR sudah dilakukan sampai beberapa kali iterasi. Evaluasi dilakukan pada setiap proses desain dan setelah tahapan uji coba. Evaluasi oleh para pakar, praktisi dan pakar internasional dilakukan menggunakan metode wawancara daring menggunakan video conference, focus group discussion (FGD) dan structured-interview dengan formulir daring. Untuk kontribusi akademik, penelitian ini memberikan rujukan kepada penelitian lainnya pada bidang enterprise agile. Berdasarkan Software Engineering Body of Knowledge (SWEBOK), penelitian ini menambahkan referensi mengenai scaling agile methods pada area Software Engineering Model and Methods.

.....A survey conducted by the Project Management Institute and VersionOne showed that the development of projects using the agile approach had developed very rapidly. The enterprise agile framework or scaling agile framework is expected to solve the complex problem while they are transitioning from traditional to agile approach. Although there are several agile methods each encompasses multiple practices, not all of them may fit for all organizations. Therefore, picking appropriate agile practices from different methods rather than adapting to a whole agile method, can be considered as practice selection strategy. The research by Scrum.org explores that 49% of organization have no framework for their implementation of scaled agile, whereas the selection of the framework is of the important process. Currently, there are no studies to explore the generic framework of the enterprise agile. In the other related software engineering field, there are the common ground concept. This study aims to develop an enterprise agile framework based on the concept of The Essence SEMAT Kernel and general theory of software engineering. Design Science Research (DSR) is

used as a research methodology, because of its characteristics that are in accordance with the objectives of this research. This research produces an output in the form of an enterprise agile framework that has been evaluated in several organizations in Indonesia. The evaluation process based on the DSR concept has been carried out for several iterations. Evaluation is carried out at each design process and after the trial phase. Evaluation by experts, practitioners and international experts is carried out using online interview methods using video conferencing, focus group discussions (FGD) and structured-interviews with online forms. In the academic field, this research contributes to adding agile scaling methods to SWEBOK in the Software Engineering Model and Methods area. For practitioners, the framework that was built can be used as a guide for implementing agile scaling in organizations. For academic contributions, this research provides references to other research in the field of enterprise agile. Based on the Software Engineering Body of Knowledge (SWEBOK), this study adds a reference to scaling agile methods in Software Engineering Models and Methods.