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Improving management issues in software testing

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With the advancement of technology and the growth of data from several different sources of knowledge within an organization, it becomes necessary to provide computerized support for tasks of acquiring, processing, analyzing and disseminating knowledge. In the software process, testing is a critical factor for product quality, and thus there is an increasing concern in how to improve the accomplishment of this task. In software testing, finding relevant knowledge to reuse can be a difficult and complex task, due to the lack of a strategy to represent or to associate semantics to a large volume of test data, including test cases, testing techniques to be applied and so on. This paper presents the progress in the doctoral thesis of the first author of this article that aims to investigate aspects associated with applying Knowledge Management to Software Testing and propose an approach to work with the knowledge in this domain.