Data Lakes: New Generation
of Information Systems?

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Abstract. Information systems are strongly impacted by new information technologies. New challenges emerge in the scientific and technological research caused by the craze around data and more particularly around big data. The data poses many challenges related to its exploitation. Its scope goes beyond traditional structures, such as databases or data warehouses. Furthermore, it is mostly unstructured which results in a need for new approaches to explore it. The different existing processes need to be redesigned. Their evolution poses new scientific obstacles as soon as they are projected in a big data framework. The Data Lakes represent today an emerging concept how to organize around the data to rethink innovation cycles within companies. On the other hand, this concept opens up new issues of investigation and promises real challenges, which will allow information technologies to evolve towards new perspectives in the professional world, and calls on new skills to develop and to capitalize on future users. What is it really about?