

Discipline or Subdiscipline	Insight of Author
Computer Science	<p>“A system can be new in technology but at the same time inherit the legacy governance due to the replication of legacy system functions without improvement to the business process. While the more meaningful approach would be to improve governance and replace any associated legacy, this may not always be possible in the public sector” (Irani et. al, 2023, Vol. 40, Issue 1).</p>
	<p>“These complex systems run a large variety of system software programs, which require high adjustment costs for technical and business users who interact with software systems to conduct work. Because firms anticipate costly future adjustments that engineers would have to make to adapt to new systems, they may forgo transformation because continuity allowed by maintaining legacy systems and keeping complicated co-invention processes untouched outweigh gains from coherent data architecture in the medium run” (Cao & Iansiti, 2022, p. 19).</p>
Cybersecurity	<p>“The agile methods of system redesign and reconfiguration based on SPD requirements while adhering to STANAG requirements such as interoperability, QoS, and safety mechanisms ensure that the V&V methodology presented covers the dynamic technology integration and testing as per the evolving IoT technologies” (Pradhan & Noll, 2020, p.20).</p>
Business Management	<p>“The financial services industry is one of the biggest spenders on IT but the majority of this spend is on maintenance activities required to keep legacy systems operational. By some estimates, seventy-five per cent of the IT budgets of banks and insurance companies are consumed maintaining existing systems. Consequently, identifying and implementing appropriate solutions to contain the maintenance cost of legacy systems is a significant requirement for many organizations” (Crotty & Horrocks, 2017, p. 175).</p>
	<p>“Aurum and Wohlin have recognized that requirements engineering methods prescribe the necessary analysis to decouple technical from business considerations... Yet often enough during legacy replacement, requirements analysis activities are time-and scope-wise compressed significantly, due to the assumption that the legacy system itself represents a set of stable requirements that can be quickly captured. But since legacy documentation rarely exists, the articulation, and rendering-explicit of requirements tends to be skipped in favor of direct, or informal communication between technical staff” (Alexandrova, 2012).</p>
Sociology	<p>“Educators can play an important role in disseminating these skill sets, which provides benefits in two ways: the many organizations with legacy application portfolios will have better access to resources prepared to deal with the challenges, and students will graduate with highly marketable skills. Moreover, these skills will continue to be valuable in the future since today's new software will eventually be considered legacy. As technology continues to evolve, there will always be a need to update older applications for compatibility with modern standards” (McAllister, 2011).</p>

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