

Adoption of Remote Pilot Training Platforms: Technology Acceptance and Organizational Readiness

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Abstract: *The growing demand for unmanned aerial vehicle (UAV) pilots has accelerated remote pilot training platform (RPTP) creation. RPTPs employ online technologies to simulate flight scenarios, evaluate regulatory competency, and provide skill ratings. This conceptual framework document speaks of the application of remote pilot training platforms by integrating the Technology Acceptance Model (TAM) and theory of Organizational Readiness. It is proposed to provide a theoretical basis for explaining how technical, organizational, and human problems influence the uptake of remote pilot training systems. The primary constructs of perceived usefulness, perceived ease of use, top management support, digital infrastructure, and employees' readiness are examined to explain user acceptance and institutional readiness. The proposed model forms a foundation for future empirical research and serves as a guide for training providers, operators of drones, and policymakers to create policy that facilitates the successful integration of digital training platforms in aviation and drone training centers.*

Keywords: Technology Acceptance, Remote Pilot Training, Conceptual Framework, Organizational Readiness, E-learning Adoption, Digital Training Platforms, Drone Education, Institutional Preparedness, Training Technology Integration.

