



BACKGROUND & OBJECTIVE

This study examined the influence of digital leadership competencies on technology and teaching effectiveness in schools and explored how these factors interact to support educational digital transformation.



METHODOLOGY

Mixed-Methods
Cross-Sectional Design

Quantitative



Surveys from
school leaders
and teachers



Qualitative



Semi-structured
interviews with
school leaders



Analyses:

Descriptive statistics,
EFA, and linear regression;
Thematic analysis for
qualitative data.



CONCEPTUAL MODEL AND KEY RELATIONSHIPS



KEY FINDINGS



School leaders
demonstrated high
levels of digital
leadership
competencies.



Digital leadership
has a strong
positive association
with technology
integration.



Technology
integration is
positively associated
with teaching
effectiveness.



The combined model
explains a substantial
proportion of the
variance in teaching
effectiveness.

**Leadership + Integration
= Improved Teaching
Outcomes**



QUALITATIVE INSIGHTS

Key themes from interviews with school leaders



Strategic
Vision



Professional
Development



Teacher
Support



Organisational
Readiness



Adequate
Infrastructure

These factors are essential for successful technology integration and effective teaching.



CONCLUSION

Digital leadership competencies play a critical role in promoting technology integration, which in turn enhances teaching effectiveness. School leaders and policymakers should focus on strengthening leadership, building capacity, and investing in infrastructure to advance sustainable digital transformation in schools.



How to cite this article:

Lim VCH, Huynh TT, Ng I. Digital Leadership Competencies, Technology Integration, and Teaching Effectiveness: A Mixed-Methods Study in Schools. Strategic Leadership and Business Management. 2026; 2(1): 1-12.



<https://doi.org/10.55735/jvsmdq05>