Policy Analysis of Digital Education Reforms

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Dr T. Aswini
KL University
Vadeshawaram, A.P., India
aswini.oleti@gmail.com

ABSTRACT

The global education landscape underwent a historic and accelerated transformation beginning in early 2020 as pandemicdriven school closures forced governments, institutions, and technology providers to experiment—at scale—with digital, remote, and hybrid learning modalities. What began as emergency remote teaching in many countries rapidly evolved into structured agendas for long-term digital education reform. This manuscript undertakes a policy-oriented analysis of those reforms, examining how national and subnational education systems translated crisis-response improvisations into more formalized strategies addressing infrastructure, equity, teacher capacity, digital content standards, and data governance. The study synthesizes findings from two complementary evidence streams: (1) a structured review and coding of 50 policy documents, national frameworks, and implementation guidelines issued between January 2020 and December 2024; and (2) a cross-sectional survey of 100 stakeholders—educators, policymakers, and learners—from 12 countries representing high-, middle-, and low-resource environments. The analysis explores five guiding dimensions: policy drivers, implementation instruments, governance arrangements, stakeholder inclusion, and measurable outcomes in access, quality, and equity. Descriptive and thematic evidence indicate that the most effective reforms shared several attributes: multi-sector partnerships for last-mile connectivity; targeted device provisioning paired with digital literacy; flexible curriculum policies allowing asynchronous and mobile-first learning; iterative teacher professional development embedded in practice; and data feedback loops linking platform metrics with instructional support. Yet major gaps persist. Rural households, linguistic minorities, and learners with disabilities often remain underserved despite broad reform rhetoric. Policy fragmentation where telecom, curriculum, higher education, and K-12 authorities operate in silos—weakens sustainability.

KEY WORDS

Digital Education Reforms, Policy Analysis, Post-2020, COVID-19, Equity, Accessibility

Introduction

The years following 2020 represent a watershed era in the policy history of education systems worldwide. Virtually overnight, more than a billion learners were separated from physical classrooms. Governments faced urgent questions: How do we maintain instructional continuity when mobility is restricted? How do we support teachers who may never have delivered instruction online? What happens to national exams, curriculum pacing, and funding formulas tied to seat time? The earliest wave of responses was reactive—broadcast lessons on television and radio, rapid activation of commercial video platforms, temporary licensing of digital textbooks. Yet the scale of disruption exposed structural inequities that had long existed but were politically deferred: unreliable

broadband in rural regions, device scarcity in low-income households, curricula misaligned with digital formats, and teachers underprepared for technology-mediated pedagogy.

Achieving Resilient Digital Education



Figure-1. Achieving Resilient Digital Education

By late 2020, the policy discourse shifted from emergency patchwork to structured reform. Ministries began issuing national digital education roadmaps, teacher ICT competency frameworks, and inclusion mandates tied to connectivity subsidies. Some countries bundled education connectivity into broader national digital economy strategies; others embedded minimum access guarantees in social welfare programming. Development agencies and philanthropic alliances funded rapid infrastructure build-outs, while edtech vendors offered freemium access that later transitioned into subscription or procurement decisions. This swirl of activity produced a diverse yet uneven policy terrain.

The present manuscript addresses three interlocking questions central to post-2020 reform learning:

- 1. What policy instruments have governments and education authorities deployed to scale, regulate, subsidize, or standardize digital learning ecosystems?
- 2. How effective have these reforms been—according to stakeholder perceptions—in improving access, instructional quality, and equity for disadvantaged learners?
- 3. What governance, funding, and implementation patterns distinguish policy environments that are sustaining postcrisis digital transformation from those reverting to pre-pandemic baselines?

Answering these questions matters for multiple audiences. Policymakers need comparative heuristics to judge whether infrastructure spending is translating into classroom impact. School leaders require guidance on sequencing investments: connectivity first, or

teacher capacity, or content localization? International partners need evidence on where catalytic financing yields durable inclusion gains. Researchers seek conceptual models linking policy levers with student outcomes in mixed-modality systems.

Global Education Transformation Post-Pandemic

Stakeholder Policy Maturity Pandemic-Driven Structured Stakeholder Inclusion Model **Digital Education** Implementation School Closures Survey Instruments Evaluating the Proposing a Reform Schools close due Gathering insights involvement of framework for to the pandemic, Development of from educators, Examining tools and benchmarking various initiating a shift to policymakers, and stakeholders in the progress in digital long-term strategies methods used to implement reforms. digital learning. for digital education. learners. reform process. education. Emergency Policy Document Analysis of Governance Measurable Review Policy Drivers Remote Teaching Arrangements Outcomes Initial efforts to Analysis of policy Identifying factors Assessing the Assessing the provide education documents and influencing policy structures and impact of reforms remotely in guidelines to decisions. processes for on access, quality,

Figure-2. Global Education Transformation Post-Pandemic

managing education

systems.

and equity.

This study integrates policy document analysis with on-the-ground perceptions captured through a 100-respondent global survey stratified across roles (educator, policymaker, learner) and geographies (urban, peri-urban, rural; high- and low-resource). Rather than assuming that formal policy texts reflect lived educational realities, we explicitly compare stated policy intent with reported user experience. The resulting synthesis surfaces not only successes but also policy blind spots—areas where infrastructure exists yet pedagogical use lags; where teacher training is delivered but unsupported; where devices reach schools but remain locked in storage due to maintenance and security concerns.

The manuscript is organized as follows. The Literature Review maps major thematic streams—disruption response, infrastructure, teacher capacity, curriculum digitalization, inclusion, and governance. The Survey section profiles the sample and headline attitudinal indicators. The Methodology section details our mixed-methods design, coding schema, reliability checks, and analytic strategy. Results present quantitative and qualitative findings aligned to the guiding research questions. The Conclusion distills policy lessons and proposes a maturity model. Scope and Limitation clarify interpretive boundaries and future research needs. Together these sections aim to support evidence-informed digital education policymaking in a world where hybrid learning is no longer a niche supplement but an expected component of resilient education systems.

LITERATURE REVIEW

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strategies.

Digital education reform is not a singular policy construct but a nexus of interdependent domains. In synthesizing the literature published since 2020, five broad conceptual clusters emerge: emergency continuity responses, infrastructure and affordability, human capacity and pedagogical transformation, curriculum and assessment digitization, and equity-inclusive governance. A sixth cross-cutting cluster—data, privacy, and sustainability—threads through all others.

1. From Emergency Remote Teaching to Strategic Digital Transformation

Early pandemic adaptations were improvised: teachers livestreamed lessons from smartphones; curriculum bureaus uploaded PDF worksheets; broadcasters reactivated educational radio archives. Subsequent analyses show that systems which treated these stopgap measures as learning laboratories progressed faster toward durable strategies. Lessons learned included the need for centralized content repositories, offline-capable delivery for bandwidth-constrained regions, and structured teacher helpdesks. Some countries formalized emergency innovations into "anywhere learning" policies that now complement in-person schooling during weather closures, conflict, or localized health outbreaks.

2. Infrastructure, Connectivity, and Devices

Equitable digital learning depends first on physical and network access. Broadband expansion policies ranged from regulatory incentives for telecom build-out to universal service funds earmarked for school connectivity. Community Wi-Fi, satellite solutions for remote geographies, and zero-rated educational portals helped reduce cost barriers. Yet access is multidimensional; adequate household device ratios and electricity reliability proved equally critical. Where governments distributed tablets or laptops without sustained repair, refresh, or theft-recovery plans, usage fell sharply after the first academic year. Evidence suggests that community device libraries and shared charging hubs extend lifecycle value in resource-constrained areas.

3. Teacher Digital Competence and Support Ecosystems

Technology adoption in classrooms rises or falls with teacher confidence and workload realities. Widely referenced competency frameworks break digital teaching into technical, pedagogical, assessment, and community engagement domains. Professional development models that move beyond one-off webinars toward multi-phase coaching, peer mentoring, and classroom-embedded practice generate higher transfer to instruction. Incentive mechanisms—micro-credentials, salary increments, promotion points—encourage participation. Importantly, training must align with locally available platforms; teaching simulation tools built for high-bandwidth contexts may not translate to rural schools on 3G networks.

4. Curriculum Alignment, Content Localization, and Digital Assessment

Digital reform is unsustainable if content remains locked in analog formats. Ministries that issued digital curriculum standards, metadata schemas, and open licensing guidance enabled rapid scaling of localized learning objects. Mobile-first micro-modules proved effective for supplementing core textbooks, particularly in multilingual settings where community translation accelerated uptake. Assessment innovations include auto-graded quizzes, e-portfolios, and analytics dashboards that feed formative insights to teachers. However, high-stakes summative exams remain a sticking point: ensuring integrity, proctoring, and equivalence between test modalities continues to challenge regulators.

5. Inclusion, Equity, and Targeted Intervention

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The pandemic exposed sharp digital divides between urban and rural learners, high- and low-income households, students with and without disabilities, and those in conflict-affected zones. Inclusive policy responses bundled subsidized data packages with devices pre-loaded with accessibility tools (screen readers, captioned video, adjustable font interfaces). Some jurisdictions linked education cash transfers to proof of school platform usage, raising participation but also raising privacy and monitoring concerns. Gender-responsive technology policies—safe online participation spaces, community sensitization—helped narrow engagement gaps for girls in conservative contexts.

Synthesis Gap

Despite a rapidly growing evidence base, relatively few studies triangulate formal policy text, implementation funding, and multistakeholder user experience across jurisdictions. Even fewer assess differential impacts by geography and learner group using comparable metrics. This manuscript addresses that gap by combining document coding with stakeholder survey perceptions, producing a policy-facing evidence synthesis meant to guide adaptive reform beyond the reactive phase.

SURVEY OF 100 PARTICIPANTS

To ground the policy analysis in lived experience, we conducted a cross-sectional online survey between March 1 and May 31, 2025. The sampling strategy pursued functional diversity (roles across the policy-to-classroom pipeline) and contextual diversity (varying levels of national digital readiness). Recruitment channels included professional educator associations, government reform working groups, open calls circulated through regional education technology networks, and student leadership forums. Participation was voluntary; no monetary incentives were offered to reduce response bias tied to compensation.

Instrument Structure

The survey instrument contained 25 closed-ended items organized into six scales: (1) infrastructure adequacy; (2) device and platform access; (3) teacher capacity/support; (4) instructional quality and learner engagement; (5) policy clarity and communication; (6) equity and inclusion outcomes. Five-point Likert response anchors ranged from 1 = strongly disagree / very poor to 5 = strongly agree / excellent. Cronbach's alpha across the pooled instrument was 0.88, indicating strong internal reliability; subscales ranged from 0.74 to 0.91. Seven open-ended prompts captured narrative reflections on implementation successes, barriers, and future priorities.

Response Quality and Data Cleaning

Completed surveys were screened for straight-lining, missingness, and completion time anomalies. Four partial submissions were excluded (completion <40%); one duplicate IP within a short interval was removed after respondent confirmation. The final analytic dataset comprised 100 valid records. Missing item-level data (max 3% per item) were mean-imputed within respondent role groups to preserve group comparisons without inflating variance.

Preliminary Observations

Respondents generally acknowledged that post-2020 policies increased awareness and prioritization of digital learning. However, endorsement intensity varied by role. Policymakers rated reform sufficiency higher than did educators and learners, suggesting

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perception gaps between policy intent and operational reality. Rural respondents consistently rated infrastructure adequacy lower and reported more frequent log-in disruptions and device sharing. Learners flagged inconsistent platform navigation across courses as a usability barrier. These descriptive signals informed deeper analyses presented in the Results section.

METHODOLOGY

A convergent mixed-methods design was used to integrate structured policy document review with stakeholder survey analytics. Both data streams were collected in parallel and merged during interpretation, allowing cross-validation of findings and identification of convergence, complementarity, or dissonance.

1. Policy Document Corpus Development

Fifty policy artifacts were purposively sampled to represent geographic, economic, and governance diversity. Inclusion criteria: (a) issued between January 1, 2020 and December 31, 2024; (b) publicly accessible; (c) explicitly addressed digital, online, remote, technology-enhanced, or blended learning policy at national or subnational scale; (d) language English or official translation. Artifacts included legislation, ministry white papers, national ICT in education strategies, implementation guidelines, and large-donor partnership frameworks.

2. Coding Framework and Analytical Dimensions

An a priori codebook was developed from the literature review themes and refined iteratively during pilot coding of eight documents. Final top-level codes: policy driver (crisis response, modernization, equity mandate, economic innovation), infrastructure strategy (broadband, device, platform licensing, offline backups), human capacity (teacher training, leadership development, digital support staff), curriculum/assessment (digitization standards, open educational resources, adaptive platforms, exam policy), inclusion (targeted subsidies, disability access, gender equity, language localization), governance (inter-ministerial coordination, regulatory changes, data governance, funding mechanism), monitoring and evaluation (KPIs, dashboards, reporting cycles). Each code carried optional attributes: funding scale, enforcement strength, timeline horizon, and evidence of stakeholder consultation. Coding was conducted in NVivo; inter-coder agreement across 20% double-coded subset achieved Cohen's kappa = 0.82 (substantial agreement). Discrepancies were resolved through consensus meetings.

3. Survey Data Analysis

Survey Likert items were aggregated into scale scores by averaging constituent items (infrastructure α =.84; device/platform α =.81; teacher capacity α =.89; instructional quality α =.78; policy clarity α =.74; equity inclusion α =.91). Descriptive statistics (means, SDs) were computed overall and by role, income group, and locale (urban vs. rural). One-way ANOVA tested role-based differences; independent t-tests compared locale subgroups; effect sizes reported using Cohen's d or η^2 . Non-parametric alternatives (Kruskal-Wallis) were checked when normality assumptions were violated. Correlation matrices explored associations between infrastructure scores and instructional quality or equity outcomes.

4. Qualitative Analysis of Open-Ended Responses

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Narrative responses (n=100; some respondents answered multiple prompts) were imported into NVivo and coded inductively using thematic analysis procedures: familiarization, initial coding, theme clustering, theme review, definition, and exemplar selection. Emergent categories—sustainability, community partnership, usability fragmentation, teacher workload, learner motivation, data privacy concerns—were mapped against policy codes to identify alignment or gaps.

5. Integration Strategy

Following separate analyses, a side-by-side joint display matrix aligned policy code frequencies with stakeholder ratings. For example, where a national policy strongly emphasized teacher training but educator respondents rated training quality low, we classified that dimension as an implementation gap. Conversely, high alignment (policy intent + positive user experience) signaled effective realization. Mixed convergence ratings were used to draft the policy maturity model in the Conclusion.

RESULTS

Findings are organized by the three guiding research questions: policy instruments, effectiveness across equity and quality dimensions, and distinguishing features of sustainable digital transformation environments.

RQ1: What Policy Instruments Drove Post-2020 Digital Education Reform?

Infrastructure Subsidies and Universal Access Mandates: In 76% of the coded documents, governments committed budget lines or regulatory mandates for school connectivity expansion. Forty-two percent specified speed targets (e.g., Mbps per learner or per classroom). A smaller subset linked universal service funds to rural community learning centers or multi-purpose tele-education hubs. Survey respondents reflected these investments: 88% reported noticeable broadband improvements post-2020, though stability was uneven.

Device Distribution Programs: Two-thirds of policies described device provisioning—student tablets, low-cost laptops, or shared device carts. Yet only 62% of survey respondents judged device access sufficient "for most or all learners." In open responses, educators reported breakage, theft, or non-standard chargers limiting sustained use. Policies lacking lifecycle funding struggled to maintain inventories.

Platform Licensing and National Content Repositories: Over half the policy corpus referenced national learning platforms or curated content portals. Some adopted open-source LMS alternatives to reduce vendor lock-in; others negotiated national licenses with commercial providers. Stakeholder ratings for platform usability averaged 3.6/5 overall but dipped to 3.0 in rural locales citing load times.

Teacher Professional Development Mandates: Nearly all policy frameworks (92%) required teacher digital training; 75% of surveyed educators reported receiving some form of training. However, only 55% rated it "very effective," with qualitative feedback pointing to mismatch between training content and classroom constraints, insufficient follow-up coaching, and lack of incentives for ongoing practice.

Regulatory Flexibilities: Several jurisdictions temporarily relaxed seat-time rules, attendance verification procedures, or textbook adoption cycles to accelerate digital material approval. Where such flexibility became permanent, schools reported greater autonomy in blending in-person and online modalities.

RQ2: How Effective Were Reforms in Improving Access, Quality, and Equity?

Access: Infrastructure scores averaged 3.9/5 overall but masked disparity: urban respondents 4.2 vs. rural 3.1 (p<.01, large effect). Device sufficiency correlated moderately with instructional quality scores (r=.46), suggesting that access remains foundational.

Instructional Quality and Engagement: Educators who reported frequent use of interactive tools (polls, breakout rooms, adaptive quizzes) also reported higher perceived learner engagement (M=4.3 vs. 3.5 among low-use peers). Learners echoed this pattern; 62% felt more engaged when classes used multimedia and interactive feedback features. However, 38% cited digital fatigue—extended screen time, inconsistent scheduling, and platform hopping.

Teacher Capacity: Training participation alone did not predict quality improvements; depth mattered. Educators receiving multisession coaching scored 0.8 points higher on confidence scales than those with single session webinars. Systems embedding peer mentoring networks reported more consistent digital lesson integration.

Equity and Inclusion: Direct questions on whether reforms improved outcomes for disadvantaged learners produced a modest mean of 3.2/5. Respondents from lower-income communities described challenging trade-offs: shared devices among siblings, unreliable power, and limited parental digital literacy. Disability access tools were available in policy rhetoric but uneven in practice; only 45% rated accessibility features as adequate. Language localization also lagged—national platforms often prioritized dominant or official languages first.

Policy Communication and Clarity: Policymakers believed guidance was well disseminated (M=4.4), yet educators scored communication at 3.5, citing late circulars, overlapping directives from multiple agencies, and unclear compliance timelines. This mismatch emerged repeatedly in open comments.

RQ3: What Distinguishes More Sustainable Reform Environments?

Cross-case comparison of document strength and stakeholder ratings suggests five differentiators:

- 1. **Integrated Governance Structures:** Jurisdictions with standing inter-ministerial digital education councils aligned telecom regulation, curriculum approval, and funding streams, reducing duplication and accelerating procurement cycles.
- 2. **Equity-Indexed Funding Formulas:** Rather than flat per-student allocations, some systems weighted rurality, poverty, or disability to direct greater subsidies where connectivity gaps were widest.
- 3. **Teacher Development Pipelines Linked to Career Progression:** Where digital competency counted toward certification or promotion, participation and application rates rose sharply.
- 4. **Open Standards and Interoperability Requirements:** Mandated data APIs and content packaging standards minimized vendor lock-in and enabled local content integration.
- 5. **Community Anchors:** Hybrid models that extended connectivity to community centers, libraries, or youth hubs ensured off-school access, particularly valuable where household bandwidth was limited.

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CONCLUSION

Digital education reforms launched in the wake of the 2020 global disruption have moved education systems through a rapid learning

curve—from improvisation to intentional strategy. Across the policy corpus and stakeholder feedback analyzed in this study, several

clear lessons surface.

First, infrastructure is necessary but not sufficient: Bandwidth expansion and device distribution are foundational; however,

without aligned teacher capacity, curated curriculum materials, and usability design that anticipates low-bandwidth failover, access

does not automatically translate to learning improvement.

Sixth, learner-centered flexibility should remain a permanent feature of reformed systems: Recorded lessons, mobile-friendly

microlearning, and blended attendance flexibility support continuity during seasonal migration, health interruptions, or localized

disasters. These affordances also help working students and caregivers manage learning schedules.

Seventh, data governance frameworks need to catch up with scale: The expansion of cloud-hosted learning data raises privacy,

consent, cross-border transfer, and algorithmic bias considerations. Policymakers should adopt minimum data protection baselines,

require transparency from edtech vendors, and ensure audit trails for analytics used in high-stakes decisions.

Eighth, inclusion depends on localization: Accessible design features, multilingual content layers, culturally relevant examples,

and offline downloadable modules reduce attrition among groups historically excluded from digital transition benefits.

SCOPE AND LIMITATION

This study offers a structured yet bounded view of digital education reforms in the post-2020 period. Several interpretive constraints

warrant explicit acknowledgment.

Sample Representativeness

Although drawn from 12 countries across income classifications, the survey sample of 100 respondents is not statistically

representative of global education stakeholders. Participation skewed toward individuals already engaged in digital initiatives,

potentially inflating perceived awareness relative to broader populations. Rural respondents, while intentionally oversampled to

reach 30%, remain a minority compared with actual global rural learner demographics. Findings should therefore be interpreted as

indicative patterns rather than population estimates.

Language and Document Availability Bias

Policy document selection was limited to English originals or officially translated versions. Important reforms documented in other

languages—particularly in regions where national education directives are issued in local or colonial languages—may not be

captured. Translation nuance can also obscure regulatory detail (e.g., distinctions between advisory guidance and statutory mandate).

Temporal Scope

The document corpus closes at December 31, 2024. Rapid technological upgrades and revised policy directives issued in 2025 onward fall outside this analytic window. Because digital policy cycles are fast-moving, some interpretations may already be evolving; readers applying insights to current planning should validate whether referenced policy structures remain active.

Self-Reported Data Limitations

Survey results rely on respondent perceptions, which are subject to recall bias, social desirability pressures, and role-based framing. For instance, policymakers may overestimate implementation reach; educators may emphasize constraints relative to intent. We mitigated this by triangulating across roles and cross-checking with document codes, but residual subjectivity remains.

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