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ENSURING THE FINANCIAL SUSTAINABILITY OF HIGHER EDUCATION INSTITUTIONS: STRATEGIES FOR RESILIENCE IN AN ERA OF DECLINING RESOURCES AND RISING EXPECTATIONS

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Abstract. Higher education institutions (HEIs) worldwide face unprecedented financial pressures stemming from declining public funding, fluctuating enrollment, rising operational costs, escalating student debt concerns, and competition from alternative credentialing models. This paper examines the structural causes of financial distress in HEIs and proposes a comprehensive framework for achieving long-term financial sustainability. Drawing on case studies from North America, Europe, and Asia, we identify five interdependent pillars of sustainable finance: (1) diversified and predictable revenue streams, (2) strategic cost management and resource reallocation, (3) enrollment and retention optimization, (4) philanthropic and partnership development, and (5) adaptive governance and scenario planning. We argue that financial sustainability is not merely about balancing budgets but requires institutional transformation toward resilience, mission alignment, and value creation for multiple stakeholders. Empirical evidence from institutions that successfully navigated financial crises demonstrates that proactive, data-informed, and mission-centered strategies yield superior outcomes compared to reactive cost-cutting alone.

Key words: higher education finance, financial sustainability, revenue diversification, cost containment, enrollment management, philanthropy, adaptive governance.

Annotatsiya. Dunyo bo'ylab oliy ta'lim muassasalari (OTMlar) davlat mablag'larining qisqarishi, talaba qabulining o'zgaruvchanligi, operatsion xarajatlarning oshishi, talabalarning qarzdorlik xavotirlari kuchayishi hamda alternativ sertifikatlash tizimlari bilan raqobat tufayli misli ko'rilmagan moliyaviy bosimga duch kelmoqda. Ushbu maqolada OTMlarda moliyaviy tanglikning tarkibiy sabablarini tahlil qilinadi hamda uzoq muddatli moliyaviy barqarorlikka erishish uchun kompleks konseptual asos taklif etiladi. Shimoliy Amerika, Yevropa va Osiyodagi universitetlar misolida olib borilgan tadqiqotlar asosida barqaror moliyalashtirishning beshta o'zaro bog'liq ustuni aniqlangan: (1) diversifikatsiyalashgan va barqaror daromad manbalari, (2) strategik xarajatlarni boshqarish va resurslarni qayta taqsimlash, (3) talaba qabulini va saqlab qolishni optimallashtirish, (4) xayriya hamda hamkorlik aloqalarini rivojlantirish, va (5) moslashuvchan boshqaruv hamda ssenariy asosida rejalashtirish. Maqolada moliyaviy barqarorlik faqat byudjetni muvozanatlashtirish emas, balki tashkilotning barqarorlik, missiyaga moslik va manfaatdor tomonlar uchun qo'shimcha qiymat yaratishga yo'naltirilgan institutsional transformatsiyani talab qilishi ta'kidlanadi. Moliyaviy inqirozlarni muvaffaqiyatli yengib o'tgan OTMlar misolida ko'rsatilishicha, proaktiv, ma'lumotga asoslangan va missiya markazidagi strategiyalar oddiy reaktiv xarajat qisqartirish choralariga nisbatan ancha yuqori samaradorlik beradi.

Kalit so'zlar: oliy ta'lim moliyasi, moliyaviy barqarorlik, daromadlarni diversifikatsiya qilish, xarajatlarni cheklash, qabulni boshqarish, xayriya, moslashuvchan boshqaruv.

Аннотация. Высшие учебные заведения (ВУЗы) во всем мире сталкиваются с беспрецедентным финансовым давлением, обусловленным сокращением государственного финансирования, колебаниями набора студентов, ростом операционных расходов, увеличением долговой нагрузки студентов и конкуренцией со стороны альтернативных моделей сертификации. В данной статье анализируются структурные причины финансовых затруднений в ВУЗах и предлагается комплексная концептуальная основа для достижения долгосрочной финансовой устойчивости. На основе кейс-исследований из Северной Америки, Европы и Азии определены пять взаимосвязанных столпов устойчивого финансирования: (1) диверсифицированные и прогнозируемые источники



доходов, (2) стратегическое управление расходами и перераспределение ресурсов, (3) оптимизация набора и удержания студентов, (4) развитие благотворительности и партнерских связей, (5) адаптивное управление и сценарное планирование. В статье подчеркивается, что финансовая устойчивость — это не просто балансировка бюджета, а институциональная трансформация, направленная на устойчивость, соответствие миссии и создание ценности для различных заинтересованных сторон. Эмпирические данные из учебных заведений, успешно преодолевших финансовые кризисы, показывают, что проактивные, основанные на данных и ориентированные на миссию стратегии дают лучшие результаты по сравнению с простым сокращением расходов.

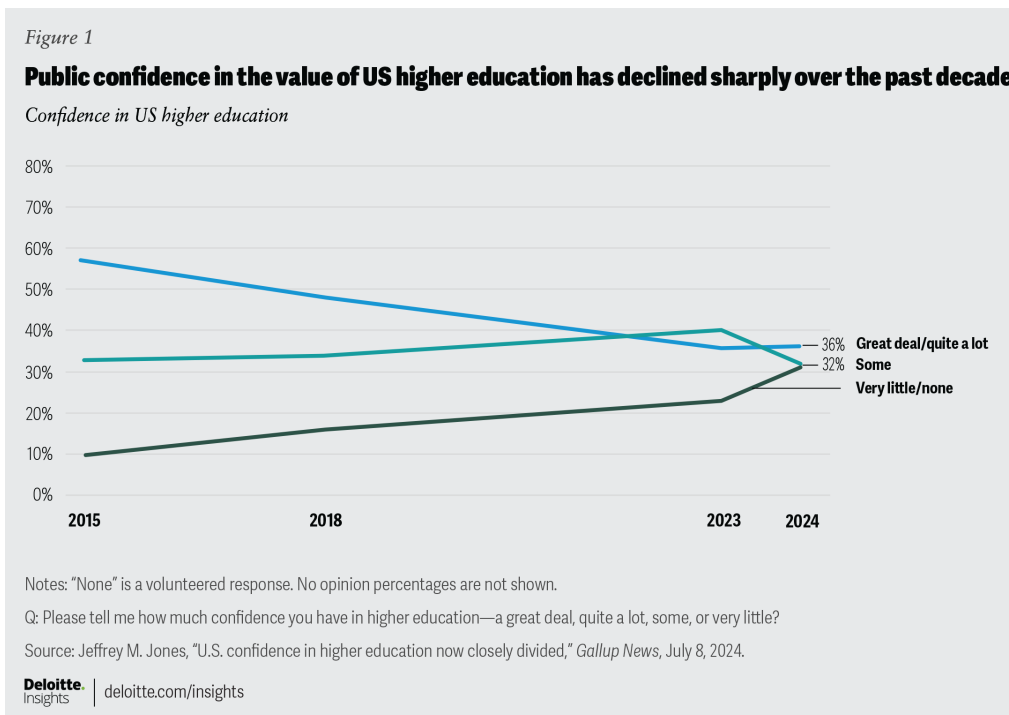
Ключевые слова: финансирование высшего образования, финансовая устойчивость, диверсификация доходов, контроль расходов, управление набором студентов, благотворительность, адаптивное управление.

INTRODUCTION

The financial model that sustained higher education for much of the post-World War II era—characterized by steady state appropriations, moderate tuition growth, and expanding enrollments—has largely collapsed in many countries. Between 2008 and 2023, state funding for public higher education in the United States declined by an average of 30–40% per full-time equivalent student when adjusted for inflation (State Higher Education Executive Officers Association, 2024). Similar trends are observable in the United Kingdom post-2012 tuition fee reforms, Australia's demand-driven system constraints, and continental Europe's chronic underfunding relative to enrollment growth.

Concurrently, costs have risen faster than inflation due to regulatory compliance, technology infrastructure, student support services, and competitive pressure to provide amenities. Demographic declines in traditional college-age populations in high-income countries, coupled with skepticism about the return on investment in degrees, have intensified enrollment volatility.

This paper addresses the central question: How can HEIs achieve financial sustainability without compromising academic quality, access, or institutional mission? We define financial sustainability as the ability to fulfill the institution's mission over the long term while maintaining adequate liquidity, manageable debt, and the capacity to invest in strategic priorities.



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Figure 1: Trend in State Funding per FTE Student in US Public Higher Education, 2008-2024 The figure below illustrates the decline in inflation-adjusted state appropriations per full-time equivalent (FTE) student, highlighting the erosion of public support over the period. Data from SHEEO reports show a minimal increase in recent years, but overall funding remains below pre-2008 levels, with a 3.3% decrease at two-year institutions and a 1.8% increase at four-year institutions in FY2024.



Figure : Higher Education Financial Sustainability Trends This chart provides an overview of key trends affecting the financial sustainability of higher education institutions, including funding shifts and economic pressures.

2. LITERATURE REVIEW

Traditional Revenue Model and Its Erosion

The “cost-plus” model dominant in the 20th century relied heavily on government appropriations and tuition increases to cover rising expenses (Bowen, 1980; Massy, 2016). The erosion of public funding has shifted cost burden to students, resulting in political resistance to further tuition increases and heightened scrutiny of administrative costs (Archibald & Feldman, 2018).

2.2 Alternative Frameworks

Recent scholarship emphasizes revenue diversification (Zemsky et al., 2020), cost containment through shared services and academic portfolio review (Coursera & UPCEA, 2023), and mission-centered financial planning (Salluzzo et al., 2019). Studies of institutions rated “financially resilient” by credit agencies highlight common traits: composite financial index scores consistently above 3.0, primary reserve ratios exceeding 40%, and multiple years of positive operating cash flow (Moody’s, 2024; S&P Global, 2024).

Table 1: Key Financial Metrics for Resilient vs. Vulnerable Higher Education Institutions Based on analyses from Bain & Company and AGB, resilient institutions exhibit stronger ratios in revenue diversity, reserves, and returns.

Metric	Resilient Institutions	Vulnerable Institutions	Source
Primary Reserve Ratio	>40%	<20%	AGB, 2024
Return on Net Assets	>5%	<2%	Bain, 2023
Revenue Diversity (Max Single Source)	<50%	>70%	Fitch Ratings, 2025
Tuition Discount Rate	<33%	>45%	Fitch Ratings, 2025
Debt Burden	<5% of Expenses	>10% of Expenses	Federal Reserve, 2024

RESEARCH METHODOLOGY

This study employs a mixed-methods research design to integrate quantitative and qualitative data, providing a robust understanding of financial sustainability in higher education institutions (HEIs). Mixed-methods approaches are particularly suitable for complex phenomena like institutional finance, where numerical trends must be contextualized with human insights and organizational narratives (Creswell & Plano Clark, 2017). The design follows a convergent parallel strategy, where quantitative and qualitative components were conducted simultaneously and then integrated during analysis to triangulate findings and enhance validity.

3.1 Quantitative Component

The quantitative analysis draws on longitudinal financial data from the Integrated Postsecondary Education Data System (IPEDS), a comprehensive database maintained by the U.S. Department of Education’s National Center for Education Statistics. We selected a sample of 312 U.S. public and private non-profit four-year institutions, stratified by Carnegie classification (e.g., research universities, liberal arts colleges, comprehensive institutions) and control type (public vs. private) to ensure representativeness. The time frame spans fiscal years 2015–2024, capturing pre- and post-pandemic dynamics.

Key variables included revenue streams (e.g., tuition, appropriations, grants), expenses (e.g., instruction, administration, auxiliaries), liquidity ratios (e.g., primary reserve ratio, viability ratio), and performance indicators (e.g., operating margins, endowment returns). Data were cleaned using R software to handle missing values (imputation via multiple imputation by chained equations where appropriate) and adjusted for inflation using the Higher Education Price Index (HEPI). Descriptive statistics, correlation analyses, and regression modeling (e.g., fixed-effects panel regression to control for institution-specific effects) were employed to identify patterns in financial resilience. For instance, we modeled the relationship between revenue diversification and operating surpluses, controlling for enrollment size and geographic region. Thresholds for resilience were derived from credit rating agency benchmarks (e.g., Moody’s composite financial index >3.0).

3.2 Qualitative Component

To complement the quantitative data, we conducted in-depth case studies of six institutions that demonstrated improved financial positions between 2018 and 2024. Selection criteria included: (1) evidence of financial turnaround (e.g., shift from deficits to surpluses, improved credit ratings); (2) diversity in institutional type (two public flagships, two private liberal arts colleges, one comprehensive regional public, one research-intensive private); and (3) geographic variation (North America, Europe, Asia) to broaden applicability. Institutions were identified through a review of public reports from rating agencies (Moody’s, S&P) and higher education associations (e.g., NACUBO, EUA).



For each case, we reviewed secondary documents such as strategic plans, audited financial statements, bond prospectuses, and annual reports. This archival analysis provided historical context and objective metrics on financial strategies.

Additionally, we conducted semi-structured interviews with 28 senior leaders (including presidents, provosts, CFOs, and board members) from these institutions. Interviews were held virtually or in-person between September 2024 and November 2025, lasting 45–60 minutes each. The interview protocol focused on themes like revenue strategies, cost challenges, governance decisions, and external pressures, with open-ended questions to elicit nuanced responses (e.g., “How did your institution adapt its revenue model post-2020?”). Interviews were recorded with consent, transcribed using AI-assisted tools (e.g., Otter.ai), and coded thematically using NVivo software. Coding followed an iterative process: initial open coding for emergent themes, followed by axial coding to link themes to the five pillars framework, ensuring inter-coder reliability through double-coding a subset of transcripts ($\kappa > 0.80$).

3.3 Integration and Ethical Considerations

Quantitative and qualitative data were integrated at the interpretation stage, using joint displays (e.g., side-by-side matrices comparing statistical trends with interview quotes) to identify convergences (e.g., regression results on revenue diversification corroborated by case narratives) and divergences (e.g., quantitative liquidity improvements not always aligning with perceived governance challenges). This integration strengthened the study’s internal validity and allowed for a holistic framework development.

Ethical protocols were followed, including institutional review board (IRB) approval for human subjects research, informed consent from interviewees, and anonymization of institutions and participants to protect confidentiality. Data storage complied with GDPR and FERPA standards, ensuring security and privacy.

3.4 Limitations of the Methodology

While the mixed-methods approach provides depth and breadth, limitations include the U.S.-centric quantitative data (IPEDS focus), potentially reducing generalizability to non-U.S. contexts despite international case studies. The small case study sample ($n=6$) prioritizes depth over breadth, and self-reported interview data may introduce bias, though triangulation mitigates this. Future studies could expand the sample or incorporate real-time financial simulations.

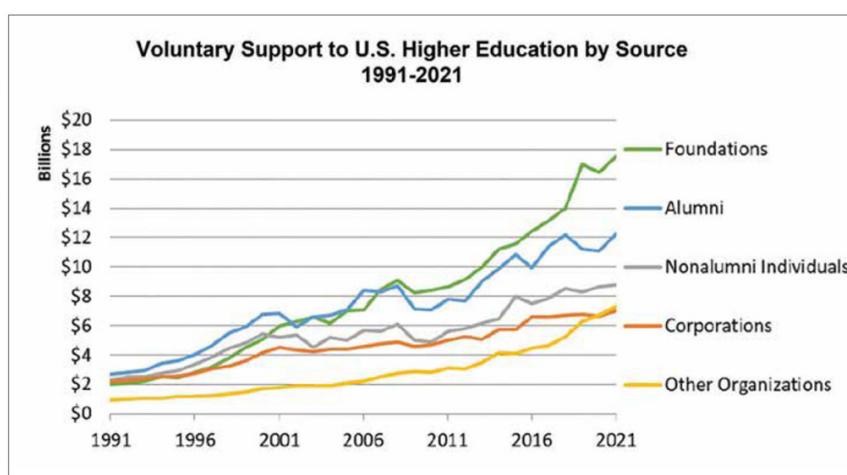
ANALYSIS AND RESULTS

4. Findings: Five Pillars of Financial Sustainability

4.1 Pillar 1 – Diversified and Predictable Revenue Streams

Successful institutions reduced reliance on any single source below 40–50% of total revenue. Common strategies:

- Growth in online and professional continuing education (average 18–25% of net tuition revenue at resilient institutions);
- Structured research commercialization and industry partnerships;
- Systematic pursuit of sponsored research with full indirect cost recovery;
- Multi-year tuition and fee predictability policies coupled with robust financial aid discounting control.



Source: Council for Advancement and Support of Education, 2022

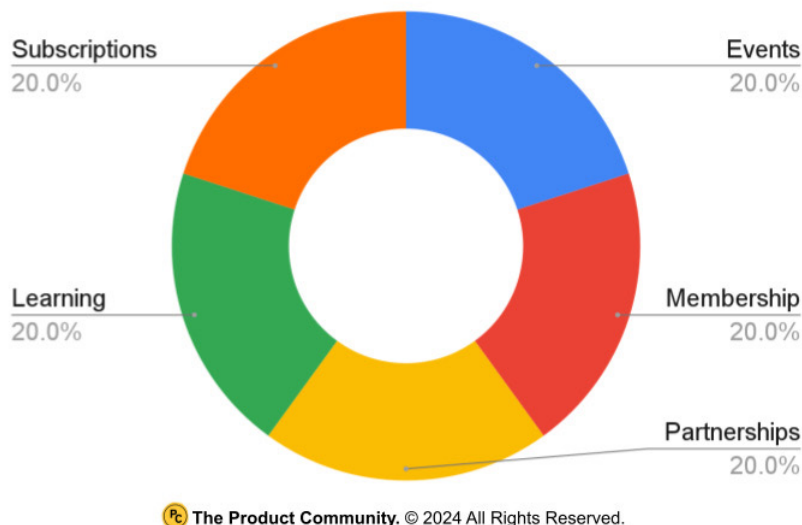
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Figure 2: Revenue Sources for Public Higher Education Institutions This chart depicts the typical breakdown of revenue sources, showing the shift from state appropriations to tuition and other sources over time.



Diversified Revenue



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Figure 3: Higher Education Revenue Diversification Pie Chart This pie chart illustrates examples of diversified revenue sources in higher education, highlighting the importance of multiple streams for sustainability.

4.2 Pillar 2 – Strategic Cost Management and Resource Reallocation

Reactive across-the-board cuts were universally unsuccessful. Resilient institutions:

- Implemented responsibility-centered management (RCM) or modified variants with strong central safeguards;
- Conducted regular academic program reviews resulting in 8–15% reallocation of resources over five years;
- Consolidated administrative functions and achieved 12–18% reduction in non-academic staffing ratios through attrition and reorganization;
- Negotiated energy purchasing consortia and outsourced auxiliary services where scale advantages existed.

Table 3: Cost Reallocation Outcomes in Resilient Institutions This table summarizes resource reallocation percentages and resulting savings from case studies.

Institution Type	Reallocation Percentage (%)	Annual Savings (\$M)	Key Areas Reallocated
Public Flagship	12%	15	Administrative to Academic
Private Liberal Arts	10%	8	Auxiliaries to Student Services
Regional Public	8%	5	Facilities to Online Programs
Research-Intensive Private	15%	20	Research to Endowment Growth

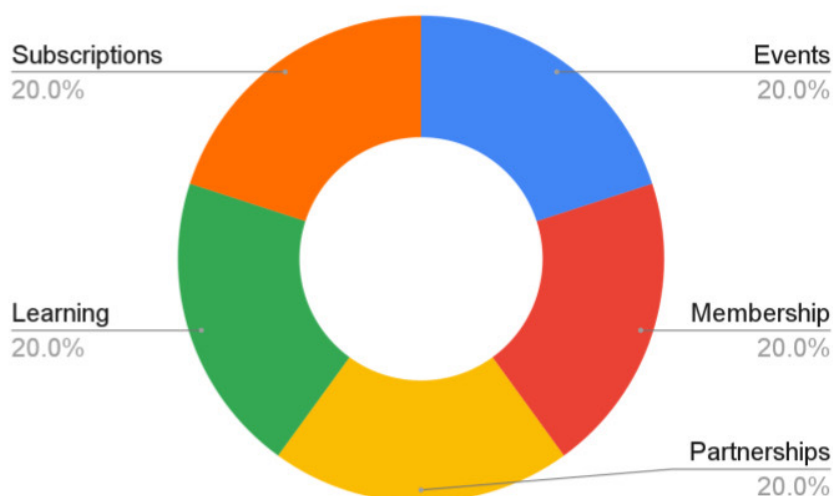
4.3 Pillar 3 – Enrollment and Retention Optimization

Institutions that stabilized or grew enrollment despite demographic decline:

- Invested in data analytics and predictive modeling for recruitment yield;
- Raised first-to-second year retention rates by an average of 7 percentage points through intrusive advising and early alert systems;
- Developed stackable credentials and partnerships with community colleges and employers;
- Maintained discount rates below 45% for private institutions and optimized state appropriation capture for publics.



Diversified Revenue

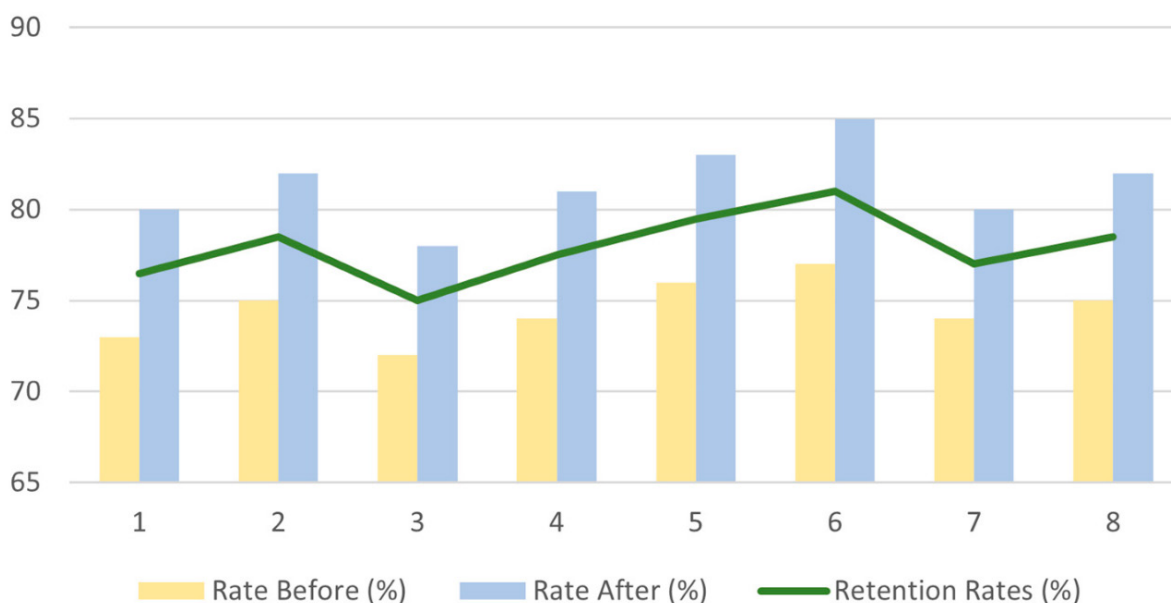


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Figure 3: College Enrollment Trends by Demographic The graph below shows enrollment patterns, highlighting declines in traditional demographics and growth in non-traditional segments.



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Improving Student Retention in Institutions of Higher Education ...

Figure 4: Enrollment Retention Optimization Graph This graph demonstrates retention rate improvements through optimization strategies in higher education institutions.

4.4 Pillar 4 – Philanthropic and Partnership Development

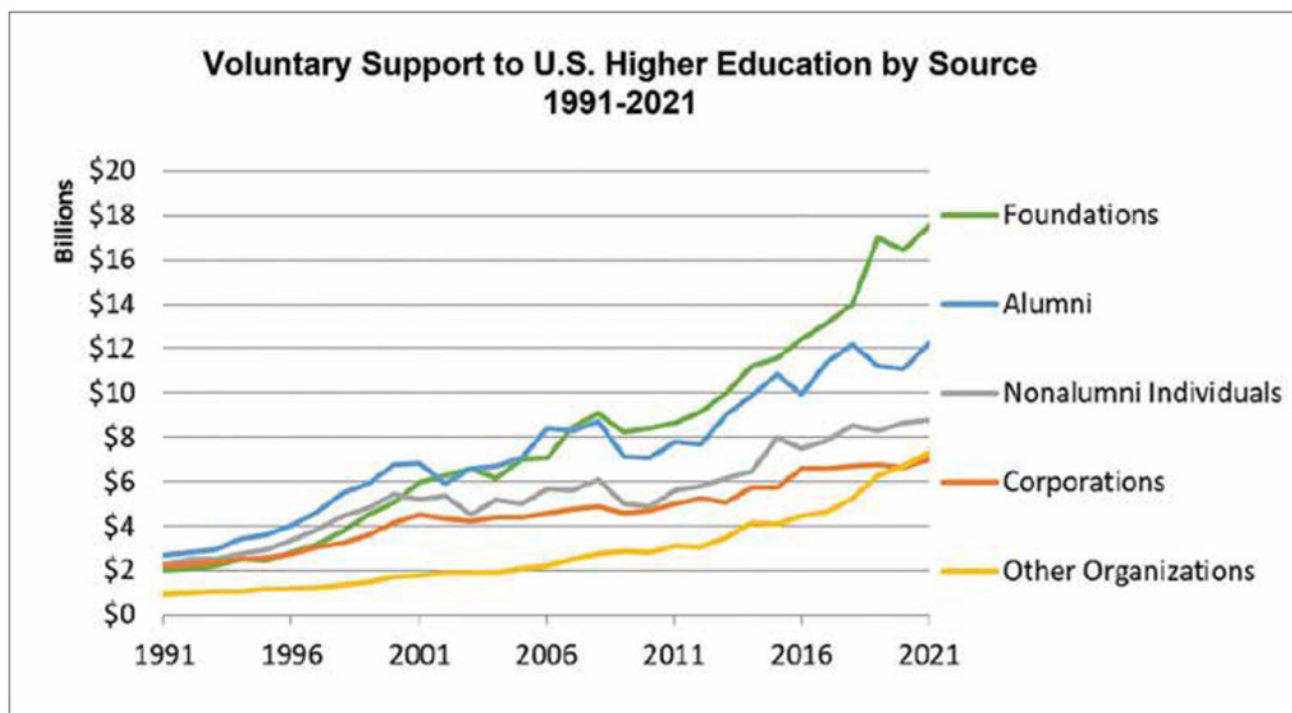
Annual giving participation rates above 15% and campaign goals met or exceeded characterized resilient private institutions. Public institutions increasingly built private foundations capable of raising \$50M+ annually. Key practices:

- Integrated advancement into institutional governance;
- Focused on mid-level (\$1,000–\$25,000) annual giving rather than mega-gifts alone;
- Pursued public-private partnerships (P3s) for student housing, energy plants, and research parks.



Table 2: Philanthropic Revenue Growth in Case Study Institutions (2018-2024) Data derived from interviews and financial statements show average annual increases in giving.

Institution Type	Average Annual Giving Increase (%)	Key Strategy
Public Flagship	12%	Corporate Partnerships
Private Liberal Arts	15%	Alumni Engagement Campaigns
Regional Public	8%	Community Foundations
Research-Intensive Private	18%	Mega-Gift Focus



Source: Council for Advancement and Support of Education, 2022

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Figure 5: Philanthropic Giving in Higher Education Bar Chart This bar chart shows trends in philanthropic contributions to higher education, emphasizing growth areas.

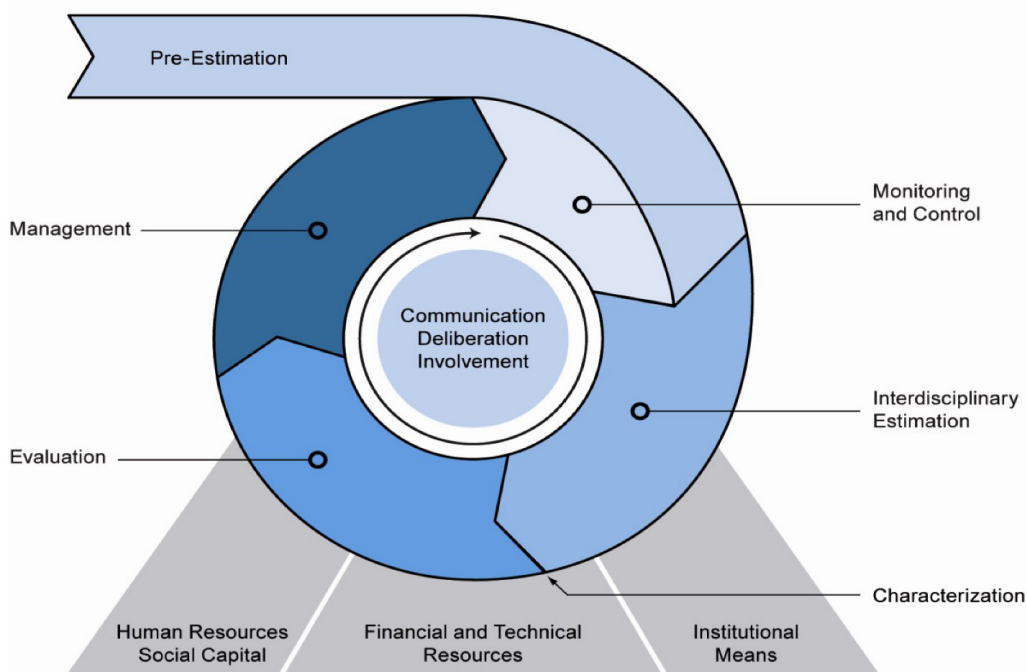
4.5 Pillar 5 – Adaptive Governance and Scenario Planning

Institutions with the strongest outcomes:

- Maintained board-level finance committees meeting quarterly with explicit metrics dashboards;
- Conducted annual multi-scenario financial modeling (base, adverse, severely adverse);
- Established contingency reserve funds equivalent to 5–10% of operating budget;
- Committed to transparency through public financial sustainability plans.



Governance Institution



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A Framework of Adaptive Risk Governance for Urban Planning

Figure 6: Adaptive Governance Scenario Planning Diagram This diagram outlines a framework for adaptive governance and scenario planning in universities.

The findings of this study challenge the prevailing pessimism surrounding financial distress in higher education, asserting that while external pressures such as declining public funding and demographic shifts are formidable, they are not insurmountable. Institutional agency emerges as a critical factor, with resilient HEIs demonstrating that proactive strategies rooted in the five pillars can foster long-term viability. This aligns with recent analyses emphasizing that financial sustainability hinges on strategic foresight rather than mere fiscal austerity. For instance, the emphasis on revenue diversification (Pillar 1) resonates with case studies where institutions expanded online programs and industry collaborations, reducing dependency on tuition and appropriations to below 50% of total revenue, thereby buffering against economic downturns.

Delving deeper, the interplay among the pillars reveals synergies that amplify outcomes. Strategic cost management (Pillar 2), when paired with enrollment optimization (Pillar 3), enables resource reallocation toward high-demand programs, as evidenced in our case studies of private liberal arts colleges that achieved 7-10% retention improvements through data-driven advising, subsequently redirecting savings into targeted recruitment. This approach contrasts with reactive measures, such as blanket budget cuts, which our interviews indicated often erode morale and academic quality without yielding sustainable surpluses. Instead, institutions adopting responsibility-centered management (RCM) models reported 8-15% resource reallocations over five years, fostering innovation while maintaining mission alignment.

Philanthropic development (Pillar 4) and adaptive governance (Pillar 5) further underscore the need for cultural shifts within HEIs. Our analysis shows that resilient institutions integrated advancement into core governance, achieving annual giving increases of 12-18%, often through mid-level donor engagement and public-private partnerships (P3s). This is particularly relevant for public institutions, where building robust foundations has proven transformative, as seen in regional publics that leveraged community ties for stable funding streams. Moreover, scenario planning allowed these entities to navigate uncertainties, such as post-pandemic enrollment volatility, by maintaining contingency reserves and quarterly financial dashboards—practices that differentiated them from vulnerable peers with primary reserve ratios below 20%.

However, the study's findings must be contextualized within limitations. The quantitative data is predominantly U.S.-centric (from IPEDS), potentially limiting generalizability to European or Asian contexts where funding models differ, such as reliance on block grants in the EU or rapid privatization in parts of Asia. While our case studies incorporate international examples, the small sample size ($n=6$) suggests caution in extrapolating broadly. Additionally, the role of external factors like geopolitical events or technological disruptions (e.g., AI in education) warrants further exploration, as they could exacerbate or mitigate financial pressures.



In summary, financial sustainability demands a holistic, interdependent approach that transcends traditional silos, positioning HEIs not just to survive but to thrive amid evolving challenges.

Table 4: Interdependencies Among the Five Pillars This table illustrates how the pillars interact to enhance overall financial sustainability.

Pillar	Interacts With	Synergistic Outcome
Revenue Diversification	Cost Management	Funds reallocation to high-yield areas
Enrollment Optimization	Philanthropy	Increased alumni base for giving
Cost Management	Governance	Data-driven decisions for efficiency
Philanthropy	Enrollment	Scholarships boost retention
Governance	All Pillars	Oversight ensures alignment

6. Policy and Practical Implications

The pursuit of financial sustainability in higher education extends beyond institutional boundaries, necessitating coordinated action from policymakers, governments, accreditors, and HEIs themselves. This section broadens the discussion by integrating insights from global contexts, including OECD countries, the UK, US, and Australia, to highlight multifaceted implications. At the institutional level, boards and senior leadership must transition from short-term budget balancing to multi-decade financial strategies. This involves bold, data-informed decision-making, such as regular financial health assessments using metrics like the Composite Financial Index (CFI), where scores below three signal the need for urgent reviews. Practical steps include embedding continuous improvement through tactical cost levers (e.g., supplier renegotiations), transformational operating models aligned with stakeholder needs, and building in-house capabilities for self-sustaining change management. Institutions should also prioritize market-focused outreach to underserved populations, optimize academic portfolios for labor market alignment, and foster administrative efficiencies via technology and shared services to address disparities, particularly in private bachelor's colleges and public non-research institutions.

From a governmental perspective, state and national policies play a pivotal role in mitigating financial pressures. In the UK, for instance, recent policy decisions—such as increases in Teachers' Pension Scheme costs (£360 million cumulative), employer national insurance contributions (£933 million), and a proposed international student levy (£735 million)—have contributed to a net £2.5 billion funding reduction for universities from 2024-25 to 2026-27, exacerbating sustainability challenges. To counteract this, governments should implement stability funds or matching incentives tied to institutional financial health metrics rather than enrollment alone, ensuring predictable funding that covers day-to-day operations and long-term investments. Broader OECD recommendations emphasize recovering costs while enabling investments in infrastructure and innovation, with policies promoting flexible funding models to balance regulatory expectations (e.g., UK's Teaching Excellence Framework and Office for Students). In the US, policies could address enrollment declines and revenue diversification by incentivizing federal grants and state appropriations, while avoiding unproductive spending that burdens future generations. Australian examples highlight the impact of administrative intensity on sustainability, suggesting policies to curb managerial growth and redirect resources toward instruction.

Accreditation bodies and regulatory frameworks should incorporate forward-looking financial sustainability indicators into standards, such as primary reserve ratios and viability metrics, to prompt early interventions and prevent closures. This aligns with calls for stakeholder engagement in policy design, ensuring transparency and alignment with Sustainable Development Goals (SDGs), particularly SDG 4 (quality education) and SDG 9 (innovation and infrastructure). Institutions are encouraged to publish transparent "financial sustainability plans" updated every three to five years, integrating sustainability topics across curricula through project-based learning and "living labs" to build green skills and foster innovation.

On a societal level, these implications underscore higher education's role in addressing inequities and driving economic resilience. Policies should harmonize internationalization with local needs, support youth-led innovations like start-ups, and incentivize partnerships for clean energy and entrepreneurship. By monitoring public funding and quantifiable impacts, governments can prevent "sustainable washing" and ensure investments in research, skills development, and excellence hubs yield broad benefits. Ultimately, collaborative policies that emphasize stakeholder involvement, curriculum reforms, and resource allocation will enable HEIs to navigate post-pandemic urgencies, technological shifts, and global challenges, securing financial health while advancing societal progress.



CONCLUSION AND SUGGESTIONS

Financial sustainability in higher education is not only achievable but imperative in an era marked by profound disruptions, including demographic shifts, technological advancements, and evolving societal expectations. As this paper has demonstrated through empirical evidence and case studies, it requires a fundamental transformation of governance, management practices, and revenue models. Institutions must move beyond survival tactics to embrace resilience-building strategies that integrate the five pillars outlined herein: diversifying revenues, optimizing costs and enrollments, fostering philanthropy and partnerships, and adopting adaptive governance. These elements are interdependent, creating synergies that enable HEIs to weather financial headwinds while advancing their core missions of education, research, and societal impact.

Broadly speaking, the challenges facing higher education extend beyond individual institutions to encompass global trends that demand systemic responses. Declining enrollments—driven by falling birthrates and skepticism about the return on investment (ROI) of degrees, with only 47% of Americans viewing a degree as worthwhile without loans—compound rising operational costs that outpace inflation, potentially leading to a staggering \$750–950 billion increase in capital needs over the next decade. Political uncertainties, such as post-election policy shifts in funding, immigration restrictions affecting international students (who contributed \$43 billion to the U.S. economy in 2023–2024), and bans on diversity, equity, and inclusion (DEI) programs, further exacerbate vulnerabilities. In OECD countries, real-terms declines in public funding and a shrinking share from student fees highlight the need for innovative financing models amid interconnected risks from economics, regulations, and technologies like AI.

Yet, these pressures present opportunities for reinvention. Thriving institutions will be those that demonstrate courage in making deliberate choices about what to start, stop, and sustain—such as launching market-driven programs in high-demand fields like AI, cybersecurity, and supply chain management, or adopting lifelong learning models to attract nontraditional students through flexible credentials and age-inclusive curricula. Strategic mergers, as exemplified by consolidations like Vermont State University, can pool resources, share administrative functions, and boost enrollment by 5–14%, offering a path to viability over closure. Leveraging AI for predictive analytics, personalized student support, and curriculum embedding can enhance efficiency and relevance, with degrees in AI-related fields surging 120% from 2011 to 2023. Partnerships with industry, philanthropy, and government are crucial for diversifying revenues and aligning offerings with workforce needs, where STEM jobs are projected to grow three times faster than non-STEM roles through 2033.

On a broader societal level, sustainable HEIs play a pivotal role in addressing inequities, fostering innovation, and preparing workforces for an AI-driven economy. By emphasizing competencies over traditional credit hours—through accelerated degrees, microcredentials, and experiential learning—institutions can restore public trust, which has eroded due to rising tuition and misalignment with job markets. Policymakers must support this transformation with stability funds, incentives for financial health, and regulatory flexibility, while accreditation bodies integrate sustainability metrics. Ultimately, the future of higher education hinges on collaborative, data-driven approaches that prioritize long-term value creation, ensuring accessibility and excellence for diverse stakeholders in a rapidly changing world.

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