UNIVERSITY OF PENNSYLVANIA

Annual Financial Report

2023–2024

Contents

From the Treasurer

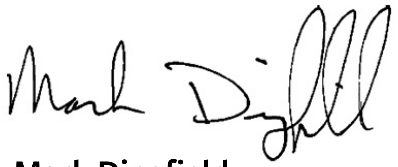
Last year, when Penn released its new strategic framework, *In Principle and Practice*, we articulated the four foundational principles comprising the University. These principles—that Penn is **Anchored**, **Interwoven**, **Inventive**, and **Engaged**—emerged from numerous consultations and conversations across the University, including with alumni.

In Fiscal Year 2024, we began selectively investing in several initiatives as a means to bring these pillars into practice. In the spirit of Penn's pledge to lead on the great challenges of our time, the University announced its **first-ever Vice Provost for Climate Science, Policy, and Action**, cementing Penn's role as a leader in understanding the impact of climate change and strategies for protecting people and ecosystems now and in the future. Penn is also championing the essential role of the arts and humanities at the core of human experience, announcing a **new Vice Provost for the Arts**. Through this investment, Penn commits to expanding opportunities in the arts both on campus and throughout Philadelphia, motivated by the belief that it is more important than ever before to bring people together through deeper understanding and empathy.

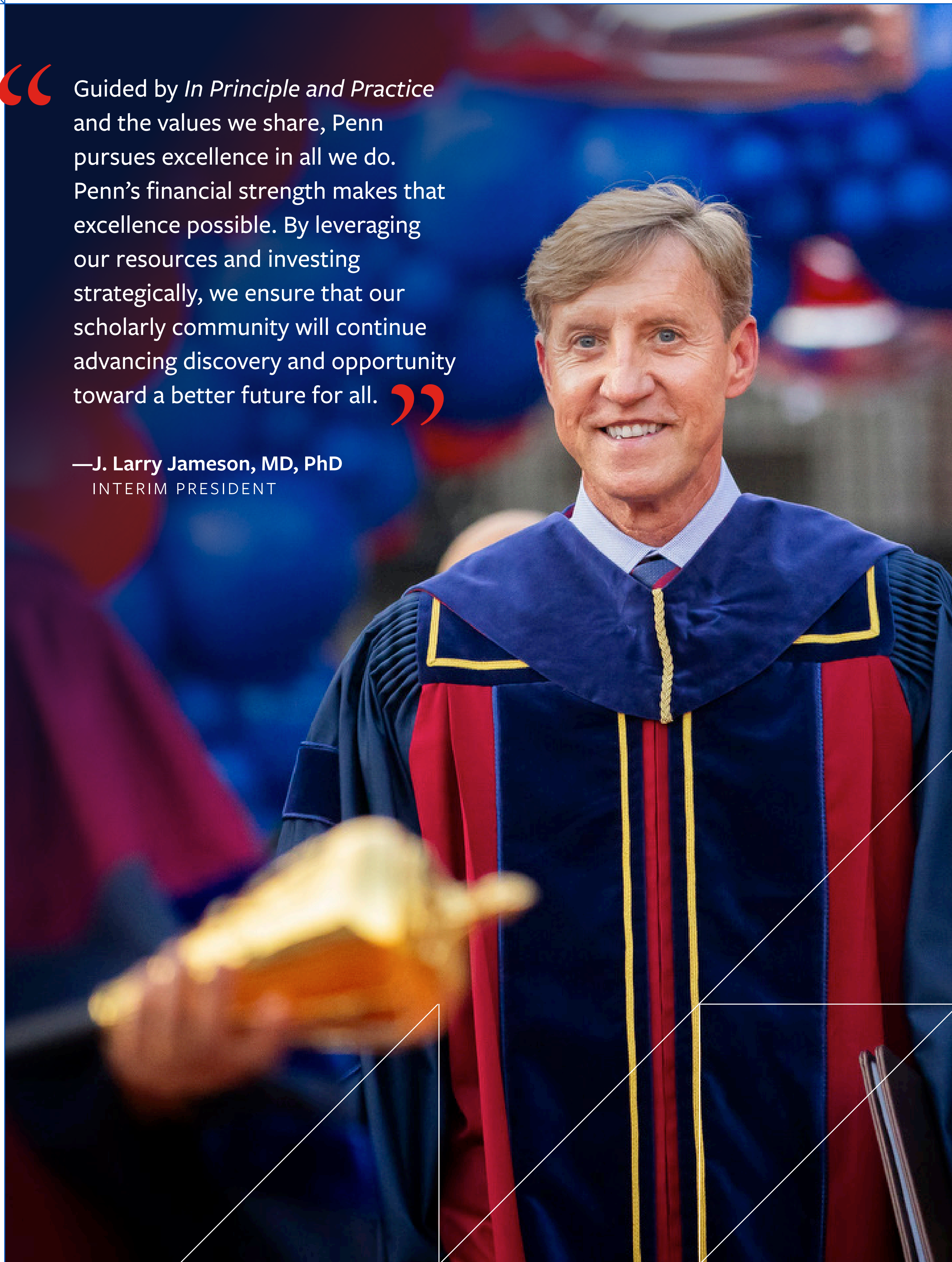
This annual financial report, for the fiscal year ending June 30, 2024, is organized around the four strategic principles and highlights both new and evergreen initiatives and the financial resources that support them, including those from our generous donors. As you will read, net assets at the end of Fiscal Year 2024 totaled $31.0 billion, an increase of $1.2 billion over the prior year. The University continues to benefit from University of Pennsylvania Health System (UPHS) operating margins and strong investment performance. At the same time, we are experiencing continued post-pandemic inflationary pressure in compensation, benefits, and general operating costs. Controlling and moderating this expense growth will be an important fiscal and budgetary priority over the next year.

While we must be measured in how we prioritize and invest in new strategic initiatives, the results from Fiscal Year 2024 show that the University has a strong financial foundation from which to enact the many ideas that continue to emerge from *In Principle and Practice*. I am grateful as always for the collective leadership of our Trustees, senior administration, and dedicated finance staff who work every day to ensure stewardship of Penn's financial assets, all in service of the academic mission.

PHOTO BY TOMMY LEONARDI



Mark Dingfield
VICE PRESIDENT FOR FINANCE AND TREASURER



"Guided by *In Principle and Practice* and the values we share, Penn pursues excellence in all we do. Penn's financial strength makes that excellence possible. By leveraging our resources and investing strategically, we ensure that our scholarly community will continue advancing discovery and opportunity toward a better future for all."

—J. Larry Jameson, MD, PhD
INTERIM PRESIDENT

In Principle & Practice

Reading This Report in Context of Penn's Strategic Framework

This report integrates the four foundational principles that serve as Penn's enduring values and distinctive strengths:

THE ANCHORED UNIVERSITY

Our exceptional and diverse people, communities, and campus are our anchor, the foundation of all we do, and they guide and propel Penn.

Being an excellent Philadelphia neighbor and global citizen is essential to Penn's mission.

THE INTERWOVEN UNIVERSITY

The more ideas and people from all backgrounds we bring to the table—and the more interconnected and less siloed our community—the more rigorous, more resourceful, and more effective Penn is.

Leadership in interdisciplinary excellence distinguishes Penn.

THE INVENTIVE UNIVERSITY

Penn is a powerhouse for breakthroughs in all fields.

Penn addresses great challenges and opportunities.

THE ENGAGED UNIVERSITY

Penn cultivates leaders who serve.

Penn seeks dialogue and collaboration across differences and divides.

Later sections feature these icons to indicate how some of this fiscal year's key investments reflect the Strategic Framework.

Financial Overview

Selected Financial and Other Statistical Highlights

FISCAL YEARS ENDED JUNE 30

	2024	2023
PRINCIPAL SOURCES OF REVENUE AND OTHER SUPPORT		
Tuition and fees (net)	1,377,670	1,361,445
Commonwealth appropriations	3,190	36,740
Sponsored programs	1,408,679	1,333,422
Contributions and donor support	217,084	239,165
Investment income	1,229,250	1,121,483
Net patient service revenue	9,459,470	8,718,133
Other income	2,095,669	2,182,485
PRINCIPAL SOURCES OF EXPENDITURES		
Compensation and benefits	8,398,503	7,742,714
Depreciation and amortization	658,267	650,251
Interest on indebtedness	143,162	139,741
Other operating expenses	5,931,344	5,324,442
SUMMARY OF FINANCIAL POSITION		
Assets	40,606,020	39,332,234
Liabilities	9,653,197	9,578,364
Net assets	30,952,823	29,753,870
NET ASSETS		
Without donor restrictions	19,554,631	18,814,722
With donor restrictions	11,398,192	10,939,148

(dollars, in thousands)

Selected Financial and Other Statistical Highlights *(continued)*

FISCAL YEARS ENDED JUNE 30

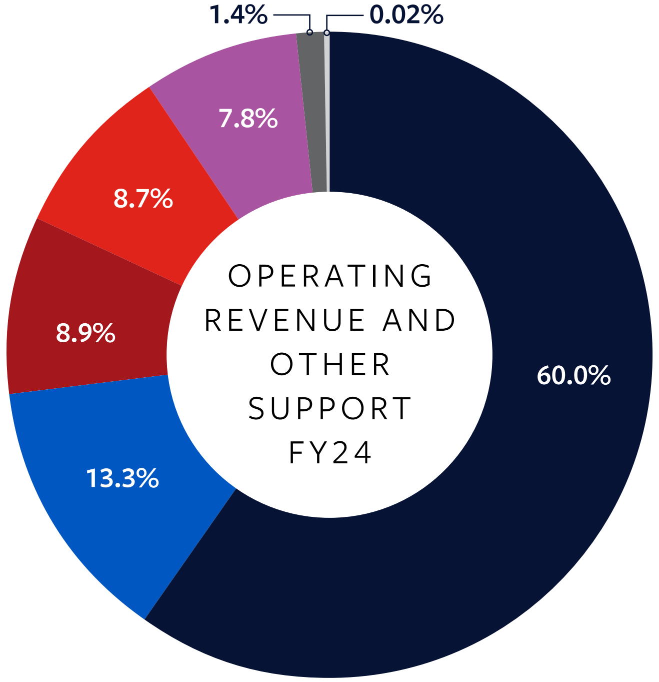
	2024	2023
STUDENTS, STAFF, AND FACULTY		
Enrollment		
Undergraduate students	11,611	11,250
Graduate students	17,100	16,951
TOTAL	*28,711*	*28,201*
Degrees and Certificates Conferred		
Undergraduate	2,884	2,994
Graduate	7,148	5,991
TOTAL	*10,032*	*8,985*
University Faculty and Staff		
Standing faculty	2,878	2,805
Associated faculty	2,687	2,488
Staff	15,215	14,403
TOTAL	*20,780*	*19,696*

Balance Sheet and Net Assets

- Penn ended FY24 with **total net assets of $31.0 billion**, an **increase of $1.2 billion (4.0%)**, over FY23.
- The **change in net assets was driven** by increases in:
  - Net patient service revenue, including Centers for Medicare and Medicaid Services (CMS) payments to settle 340B claims totaling $129 million
  - Ambulatory pharmacy growth
  - Investment income, including earnings on cash balances that benefited from higher interest rates.
- The **change in net assets was offset** by:
  - Continued tapering in mRNA patent royalty revenue
  - Increases in compensation, benefits, supplies, and other operating expenses.
- **Assets increased** by $1.3 billion ($39.3 billion in FY23 to $40.6 billion in FY24), driven by:
  - Investment performance
  - Ongoing capital projects in both the Academic Component and UPHS.
- **Liabilities increased** by $75 million ($9.6 billion in FY23 to $9.7 billion in FY24), driven by:
  - Actuarial adjustment to UPHS retirement benefit obligations
  - Increase in medical malpractice reserves.

Operating Revenue

- Total revenue **increased by $798 million** (5.3%), from $15.0 billion (FY23) to $15.8 billion (FY24).
- The consolidated operating margin was $660 million, or 4.2%.



SOURCES OF REVENUE AND OTHER SUPPORT *(dollars, in thousands)*

Net patient service revenue	$9,459,470
Other income	$2,095,669
Sponsored programs	$1,408,679
Tuition and fees (net)	$1,377,670
Investment income	$1,229,250
Contributions and donor support	$217,084
Commonwealth appropriations	$3,190
Total	**$15,791,012**

Tuition and Fees

- Net tuition and fees **increased by 1.2%, or $16.2 million**, to $1.4 billion.
- Net tuition and fees were reduced by **$446.7 million in undergraduate and graduate financial aid grants and scholarships**, which increased by 11.3% compared to FY23.

Sponsored Programs

- **Sponsored program revenue increased** $75.3 million (5.6%) to $1.4 billion in FY24.
- Sources:
  - U.S. federal government: Increased $79.5 million to $1.0 billion
    - National Institutes of Health (NIH): $811.3 million
  - Industry and foundation: $237.7 million
  - Other funding sources: $133.7 million

Penn's Undergraduate Financial Aid Program

46%

of Penn's undergraduate students received grant-based financial aid packages, all of which meet 100% of demonstrated financial need without using student loans.

$68,837/year

in funding for the average financial aid package—more than the cost of tuition.*

76%

of a student's total cost of attendance was covered by the average aid package.

*2023–2024 tuition was $58,620

Contributions

- New gifts and pledges totaled $498.3 million in FY24, a decrease of 6.9% from $535.0 million in FY23.
- Within the University's academic component, FY24 contributions included $206.4 million to restricted endowment, $1.0 million toward quasi-endowments, $196.3 million to support operations, and $55.1 million toward capital, with the remainder of contributions supporting UPHS.
- Penn received **100 gifts of more than $1 million** during FY24, 28 of which were from first-time donors.[1]
- For Penn's unrestricted giving fund, The Penn Fund, contributions **increased by 3.3%**, from $53.9 million (FY23) to $55.7 million (FY24).
- Donors established 49 new endowed undergraduate scholarships.

[1] As per the Council for Advancement and Support of Education (CASE) Global Reporting Standards.

NOTABLE GIFTS TO THE UNIVERSITY

INDIVIDUAL

Vagelos Gift to the School of Arts and Sciences

P. Roy Vagelos, C'50, PAR'90, HON'99, and Diana Vagelos, PAR'90 (above) made a record-breaking gift of $83.9 million to strengthen research and education in energy and life sciences. This was the largest single gift ever made to the School of Arts and Sciences—and among the largest in the University's history. The Vagelos family has given a total of $239 million to SAS.

FOUNDATION

Niarchos Grant to Facilitate Dialogue

The Stavros Niarchos Foundation (SNF) made a $13 million grant to the Paideia Program, created to promote informed dialogue and civic engagement. Established in 2019, SNF Paideia has grown rapidly, with a programmatic focus on individual and community wellness, service, and citizenship. This third grant, which will support the program through 2029, brings the foundation's total gifts to more than $20 million.

ANNUAL FINANCIAL REPORT 2023–2024

Investment Income

- Operating investment income—primarily endowment, paid out in accordance with Penn's spending rule policy[2]—**increased by 9.6%**, from $1.1 billion (FY23) to $1.2 billion (FY24).
- Contributing to this increase were returns on cash balances due to the interest rate environment during FY24.

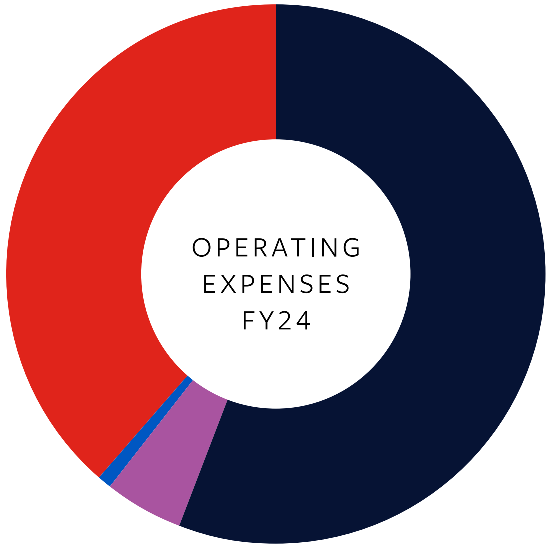
Other Revenue Sources

- Other income decreased by 4.0%, from $2.2 billion (FY23) to $2.1 billion (FY24):
  - Driven by continued tapering in mRNA patent royalty revenue
  - Offset by the increase in revenue from the ambulatory pharmacy of the University of Pennsylvania Health System (UPHS).
- Commonwealth of Pennsylvania appropriations decreased from $36.7 million (FY23) to $3.2 million (FY24). This decrease is a result of the Commonwealth not approving Penn's School of Veterinary Medicine appropriation for FY24.

[2] Penn has adopted an endowment spending policy that governs funds invested in the Associated Investment Fund (AIF). The spending policy is designed to smooth out fluctuations in annual spending levels and is independent of cash yield and appreciation of investments for the year. Under the policy, the distribution of spendable income is the sum of (i) 70% of the prior fiscal year distribution adjusted by an inflation factor; and (ii) 30% of the fund's year-end market value, lagged one year, multiplied by 5.0% for endowments.

Operating Expenses

- *Total operating expenses* increased by $1.3 billion (9.2%), from $13.9 billion (FY23) to $15.1 billion (FY24).



EXPENSE SOURCE *(dollars, in thousands)*

Compensation and benefits	$8,398,503	55.5%
Depreciation and amortization	$658,267	4.4%
Interest on indebtedness	$143,162	0.9%
Other operating expenses	$5,931,344	39.2%
Total	**$15,131,276**	

The combination of salary, wages, and employee benefits—the University's largest expense category—**increased by 8.5%**, from $7.7 billion (FY23) to $8.4 billion (FY24):

- **Salaries and wages increased by 7.4%**, from $6.1 billion (FY23) to $6.6 billion (FY24)
- **Benefits increased by 12.5%**, from $1.6 billion (FY23) to $1.8 billion (FY24).

Depreciation and amortization increased by 1.2%, from $650 million (FY23) to $658 million (FY24).

Interest on indebtedness increased by 2.4%, from $140 million (FY23) to $143 million (FY24).

Other operating expenses increased by 11.4%, from $5.3 billion (FY23) to $5.9 billion (FY24) driven primarily by:

- Increasing research costs related to lab expenses at the Perelman School of Medicine and other health sciences
- Lingering impact of inflation, which continues to affect costs even though it has decreased.

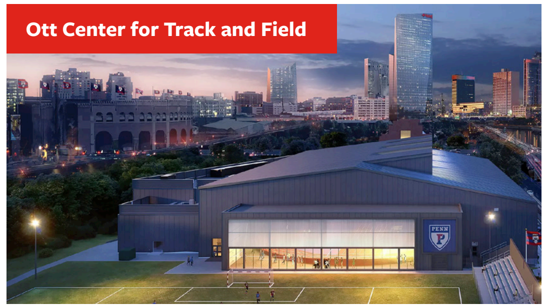
Capital Expenditures

- Capital expenditures for the Consolidated University increased, from $780 million (FY23) to $1.1 billion (FY24), primarily due to the acquisition of the Translational Research Lab and several Academic Component expenses originally planned for FY23 that were pushed to FY24.
- Spending on the University's Academic Component increased from $344 million (FY23) to $605 million (FY24).

The following projects—all academic facilities—had significant investments during FY24:


Amy Gutmann Hall


Vagelos Laboratory for Energy Science & Technology


Ott Center for Track and Field

- $89M — Translational Research Lab Acquisition
- $66M — Vagelos Laboratory for Energy Science & Technology
- $64M — Quad Renovation
- $46M — Amy Gutmann Hall
- $36M — College Hall Renovation
- $33M — Ott Center for Track and Field

ANNUAL FINANCIAL REPORT 2023–2024

Debt

- Consolidated debt totaled $4.3 billion, a decrease of 2.7% from $4.4 billion (FY23).

University Credit Ratings

In FY24 Moody's Investors Service and S&P Global Ratings both affirmed Penn's credit ratings with a stable outlook, Moody's in February 2024 and S&P in December 2023. They are (respectively):

UNIVERSITY: Aa1 AND AA+

UPHS: Aa3 AND AA

University of Pennsylvania Health System

Internationally, UPHS is recognized as a leading health care system with faculty-based clinical practices of the University of Pennsylvania, home care and hospice services, and physician practices and facilities in communities throughout the Delaware Valley.

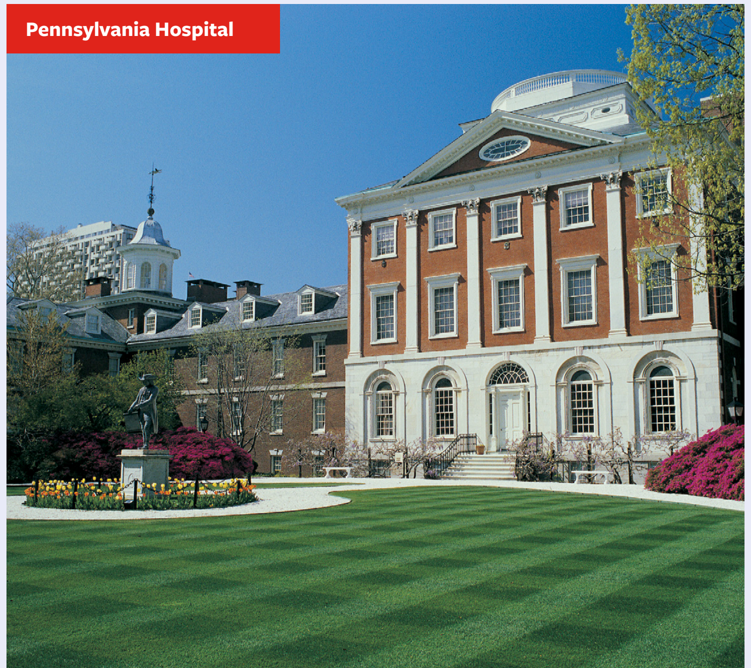
UPHS includes six major hospitals:

- HOSPITAL OF THE UNIVERSITY OF PENNSYLVANIA (HUP)
- PENN PRESBYTERIAN MEDICAL CENTER
- PENNSYLVANIA HOSPITAL
- CHESTER COUNTY HOSPITAL
- LANCASTER GENERAL HEALTH
- PRINCETON HEALTH

The University's Perelman School of Medicine joins with UPHS as a part of Penn Medicine, a world-renowned academic medical center, with hospitals ranked among the highest in the nation by *U.S. News and World Report*.

In FY24, UPHS and Doylestown Health executed a definitive agreement for integration plans—a move that will bring expanded access to advanced health care for patients in Philadelphia's northern suburbs.


Lancaster General Health


Pennsylvania Hospital

UPHS marked its 24th consecutive year of positive operating performance, with a FY24 UPHS operating margin of $278 million, or 2.6%.

- UPHS operating revenues were $10.9 billion, a 9.3% increase over FY23.
  - Net patient services revenue increased by 8.5%, from $8.7 billion in FY23 to $9.5 billion in FY24.
  - The increase was primarily attributed to a 4% increase in volume from FY23, related to strong outpatient surgeries and an uptick in infusion therapy treatments. There was also a one-time 340B settlement payment of $129 million.
- UPHS operating expenses were $10.6 billion, an increase of 9.1% over the prior year.
  - The increase was primarily attributable to increases in labor costs, medical supplies expense, and a one-time increase in medical malpractice reserve of $90 million.
- Unrestricted net assets for UPHS totaled $8.4 billion for FY24, an increase of $349 million from FY23.
- FY24 Days Cash on Hand was 195 days.
  - This is an increase of 4 days from the prior year, primarily due to strong operating cash flow.
- Debt-to-capitalization decreased to 22.5% (FY24) from 23.8% (FY23).
- UPHS capital expenditures for FY24 were $470 million.
  - This increase of $33 million over FY23 expenditures was primarily attributable to the 3600 Civic Center Boulevard project.

Princeton Health

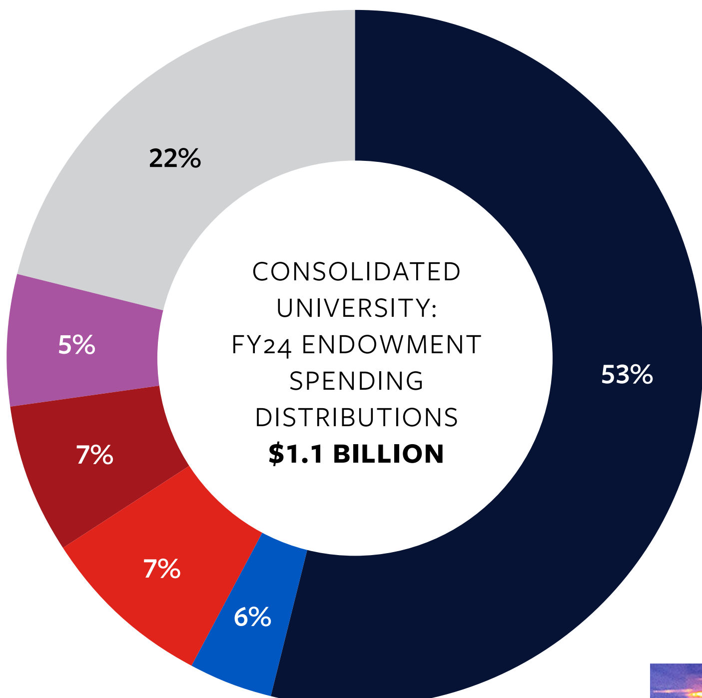
ANNUAL FINANCIAL REPORT 2023–2024

Endowment

Overview

Penn's endowment provides critical support for the University's goal of becoming the most inclusive, innovative, and impactful university in the world.

- Totaling $22.3 billion as of June 30, 2024, the endowment comprises more than 8,800 individual endowment funds benefiting the University's schools, centers, and the UPHS.
- Each year, the endowment distributes funds to support a wide range of purposes across the institution.



ENDOWMENT ALLOCATION

- Instruction
- Research
- Undergraduate Financial Aid
- Graduate Financial Aid
- Other Academic Support
- Health Care

- The majority of endowment funds are dedicated to instructional use (53%) and student financial aid (14%).
- Typically, Penn's annual target spending rate is 5% of each endowment fund. The exact payout in any given year is determined by Penn's spending rule, which smooths the impact of short-term changes in portfolio value on the amount of the spending distribution.

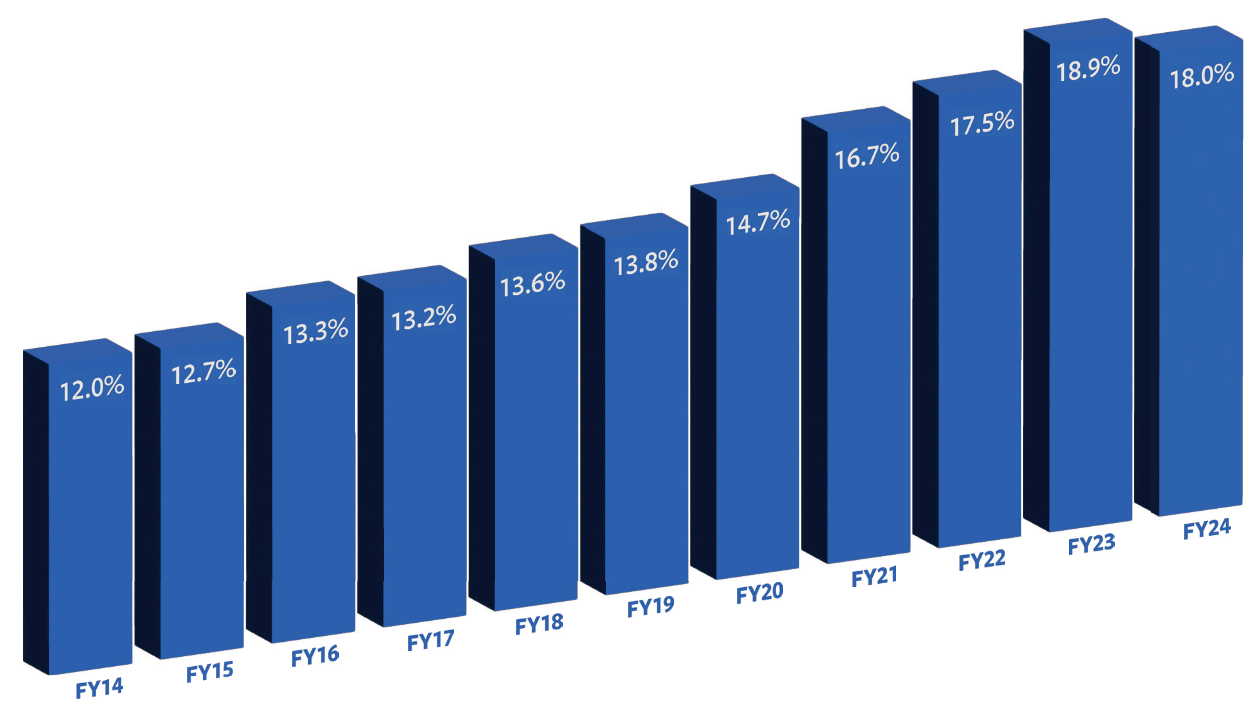
Annual Spending

During FY24, distributions from the endowment provided **$1.1 billion** in budgetary support to the University. This is an **increase of $88 million** from FY23. Over the past decade (2014–2024):

- Annual spending distributions have grown by 248%, representing an annualized growth rate of 13.3%.
- The endowment has distributed nearly $6.7 billion to support the University.

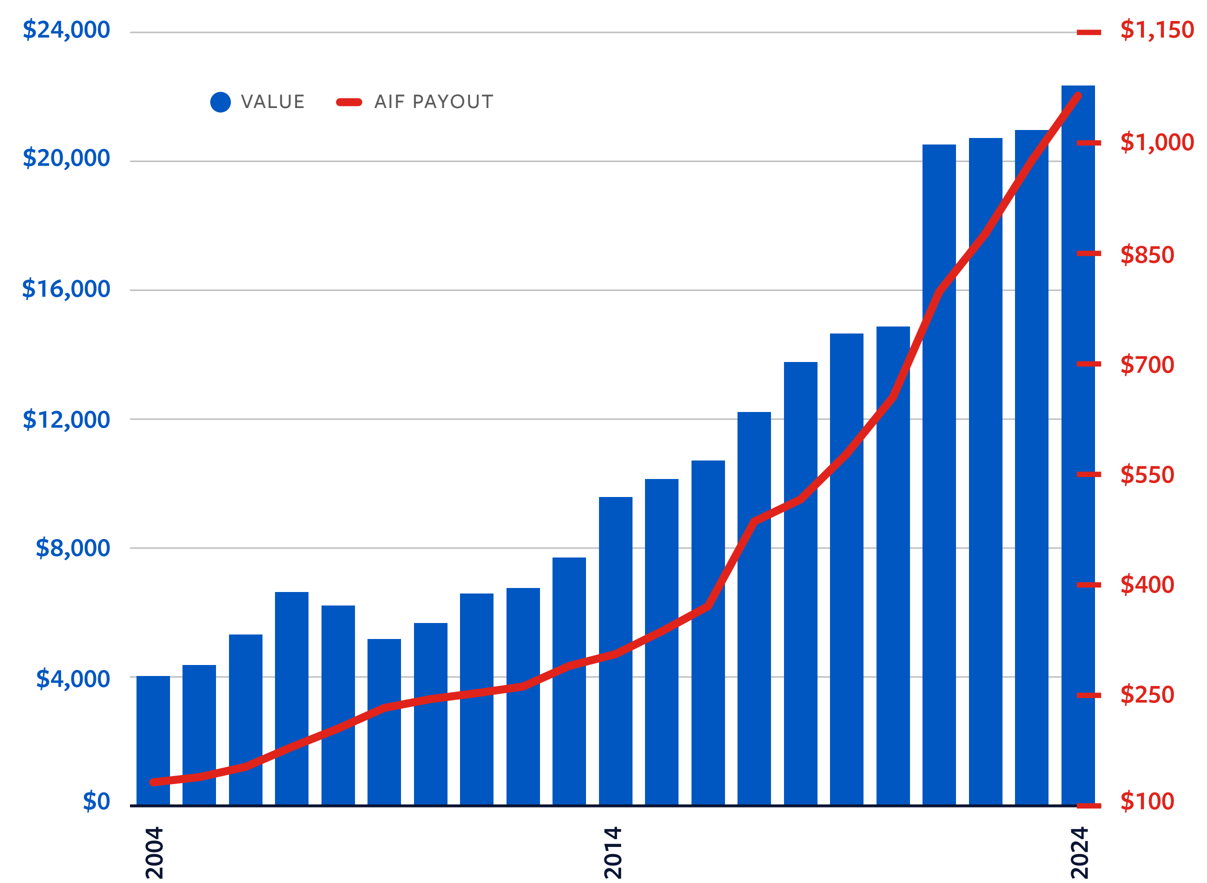
Annual distributions now support 18% of the University's academic budget, up from 12% ten years ago.

AIF CONTRIBUTION TO ACADEMIC COMPONENT OPERATING BUDGET FY14–FY24



ANNUAL FINANCIAL REPORT 2023–2024

ENDOWMENT GROWTH AND AIF PAYOUT (Dollars, in millions)



Associated Investments Fund (AIF)

The vast majority of Penn's endowment is invested in the AIF, a pooled investment vehicle in which the many individual endowments hold units. The University's Office of Investments—comprising 31 investment, operations, and administrative professionals—manages the AIF. A distinguished Investment Board, consisting of Penn alumni and University leadership, oversees the activities of the Office.

Endowment Assets and Investment Returns

Penn's endowment growth reflects the impact of investment returns, spending distributions, new gifts, and internal transfers.

- The endowment produced an investment return of 7.1% for FY24.
- Total endowment assets increased by $1.4 billion in FY24, reaching $22.3 billion as of June 30. Of this amount:
  - Approximately $17.6 billion represents assets that support the Academic Component
  - $4.7 billion represents assets that support the UPHS.
- Over time, the endowment has returned:
  - 9.6% per annum over the past five years (2019–2024)
  - 8.7% per annum over the past ten years (2014–2024)
  - 8.4% per annum over the past twenty years (2004–2024).

The long-term performance of the endowment has enabled the University to spend nearly $6.7 billion over the past decade, while still maintaining purchasing power to support future generations at Penn.

The Anchored University

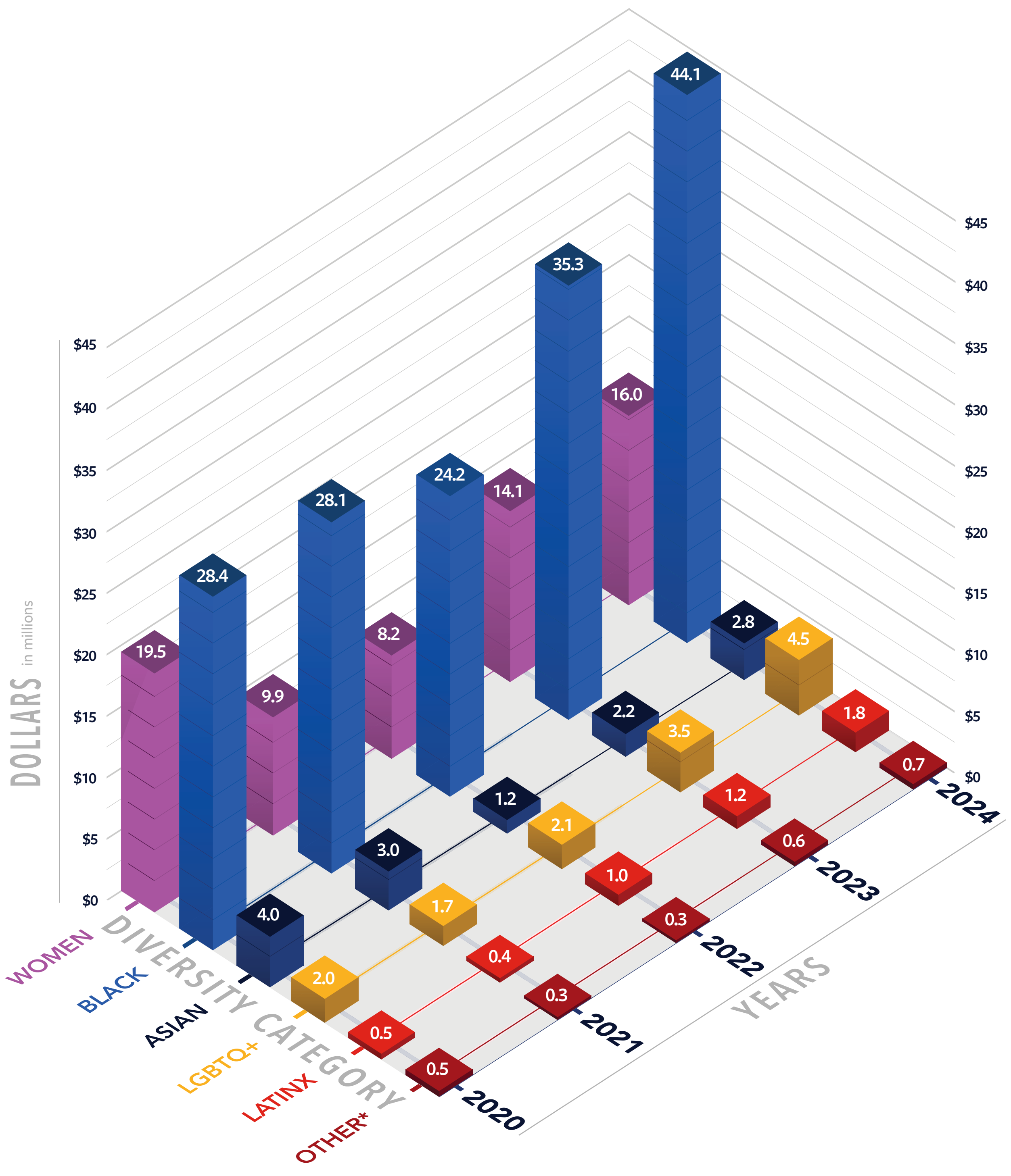
Our exceptional and diverse people, communities, and campus are our anchor, the foundation of all we do, and they guide and propel Penn.

Being an excellent Philadelphia neighbor and global citizen is essential to Penn's mission.

WORKING WITH DIVERSE LOCAL SUPPLIERS Among the 40+ suppliers at Penn's annual Diversity Supplier Forum and Expo in June were (clockwise from top left): Riggs Creative Group, a South Jersey-based strategic communication firm and Minority/Woman Owned Business Enterprise; family-owned Campus Copy Center, based in West Philadelphia; the Camden, NJ-based nonprofit Hopeworks; Wandergrace, a minority-owned, woman-owned Philadelphia design studio; Stelwagon Roofing Supply, Inc., a Philadelphia women-owned business; and WB Mason/SUPRA Office Solutions, Inc., a Minority and Small Business Enterprise.

Economic Inclusion

PHILADELPHIA SPENDING BY DIVERSITY CATEGORY, 2020–2024



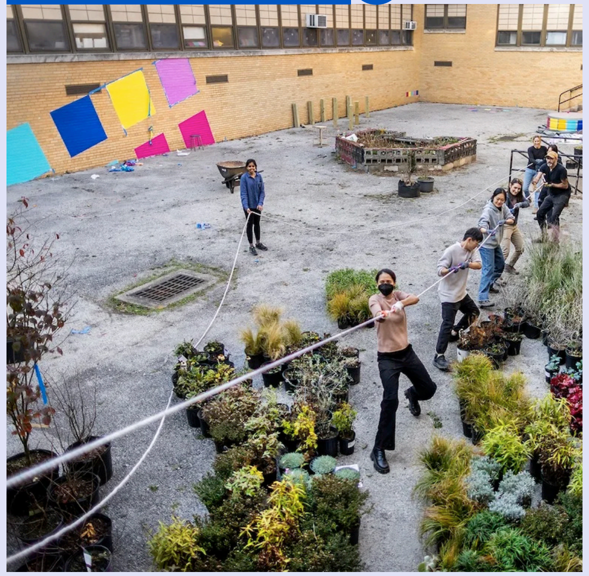
*includes Veteran, Physically Challenged and Native American, and more

Penn & Philly:

Given how integral this world-class city is to Penn, in early 2024, the University launched Penn & Philly, devoted to the many ways the two strengthen one another. This close, mutually beneficial relationship leverages Penn's talents, contributions, and priorities to help expand all of Philadelphia's assets—and vice versa.

Dozens of Penn & Philly programs this fiscal year had significant impact on one (or more) of the initiative's areas of focus:

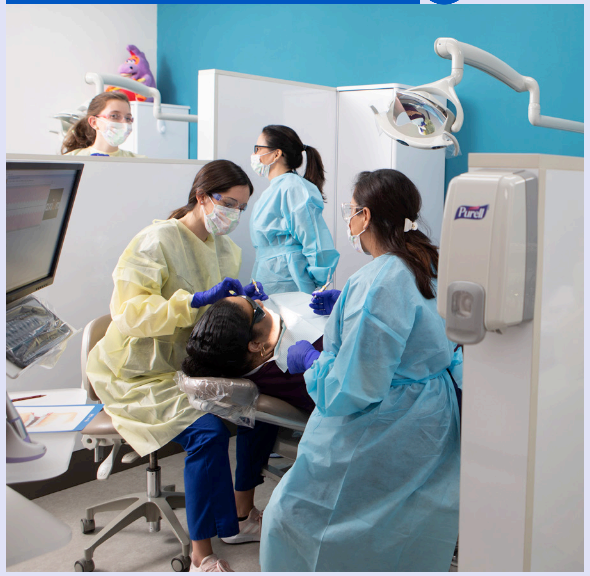
PUBLIC EDUCATION



WEITZMAN SCHOOL OF DESIGN, GRADUATE SCHOOL OF EDUCATION, PERELMAN SCHOOL OF MEDICINE, NETTER CENTER FOR COMMUNITY PARTNERSHIPS, and the OFFICE OF SOCIAL EQUITY AND COMMUNITY (SEC), as part of its PROJECTS FOR PROGRESS (P4P)

Lending a "Breathing Room" to a West Philly high school, graduate students undertook tree plantings in the Sayre school courtyard for Professor Abdallah Tabet's class. Part of the Weitzman School's Studio+ initiative, the spring 2024 project involved collaboration with Sayre students.

HEALTHY COMMUNITIES

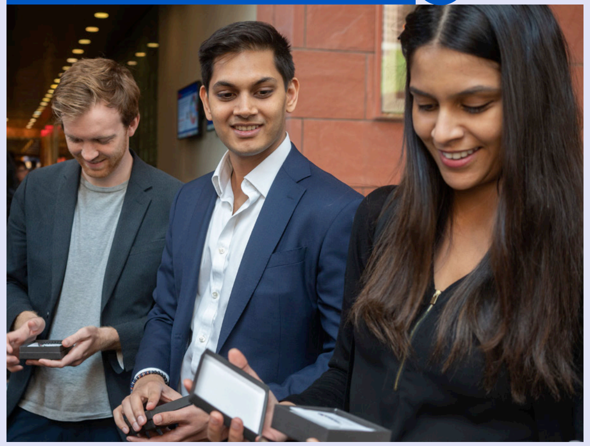


DENTAL MEDICINE
Community Care Program

The Division of Community Oral Health increases access to high-quality dental care services to Philadelphians through five programs: Mercy LIFE, PennSmiles at Schools/Community Health Centers, Puentes de Salud, and PHMC Public Health Campus on Cedar.

Dental students provide care at a Community Care site one day/week beginning in their third year for a full calendar year. These sites emphasize cultural competence, health literacy, health promotion, and ethics as well as behavior and practice management.

KNOWLEDGE IN ACTION



WHARTON
The Resilience Education: Wharton WORKS program

Wharton Opportunities for Reentry, Knowledge, and Skills (WORKS) creates pathways to economic mobility for individuals impacted by the justice system. The Wharton Coalition for Equity and Opportunity partners with the nonprofit Resilience Education.

ARTS, CULTURE & RECREATION

PENN MUSEUM
"Unpacking the Past" Program

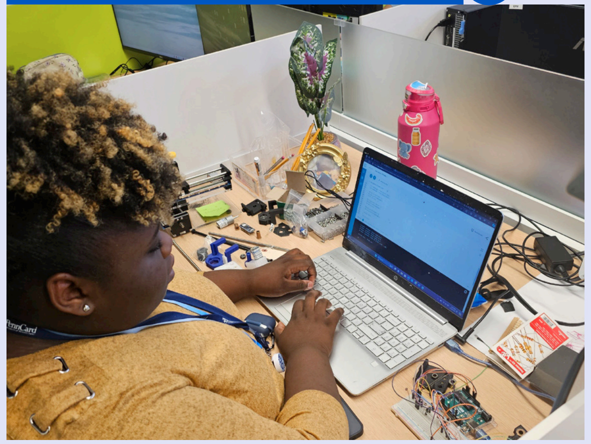
Through hands-on experiential learning, 6th and 7th grade students from Philadelphia Title 1 schools explore ancient civilizations and practice new ways to think critically.

ECONOMIC OPPORTUNITY

LAW SCHOOL
Entrepreneurship Legal Clinic (ELC)

ELC provides Philadelphia-area entrepreneurs and businesses with pro-bono transactional legal services and focuses on under-represented entrepreneurs and social-impact startups.

TOMORROW'S INDUSTRIES



PENN ENGINEERING
Community Outreach Team: Army Educational Outreach Program (AEOP)

This 7-week summer research internship is for rising high school seniors from Philadelphia public schools who identify as underrepresented in STEM fields. Senior researchers mentor and train the interns in context of real-world projects.

The Interwoven University

The more ideas and people from all backgrounds we bring to the table—and the more interconnected and less siloed our community—the more rigorous, more resourceful, and more effective Penn is.

Leadership in interdisciplinary excellence distinguishes Penn.

Leadership in Interdisciplinary Excellence

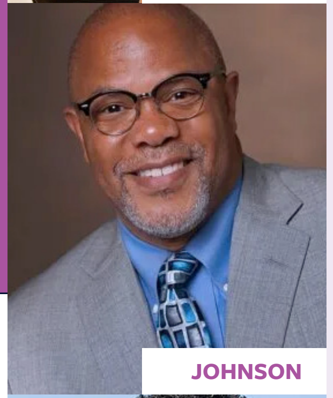
Penn Integrates Knowledge (PIK) Professors

PIK Professors are among the University's top bridge-builders and collaborators; each of them holds an appointment in two or more of Penn's 12 schools. Through their work, they foster connections between departments and disciplines, integrating knowledge to illuminate fundamental issues and collaborate with colleagues on path-breaking research.

> "[The] goal is to be open and curious enough…about the underlying intellectual architecture of the campus…to see how different parts of this incredibly eclectic, intellectual environment are interlaced."

—Provost and inaugural PIK Professor John L. Jackson, Jr.

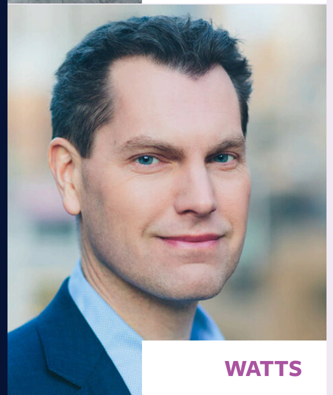
ALBARRACÍN



JOHNSON

PATTON

PLATT



WATTS

PIK PROFESSORS

DOLORES ALBARRACÍN

Director, Social Action Lab, and Director, Communication Science Division, Annenberg Public Policy Center. In 2024, she was one of five Penn experts elected to the American Academy of Arts and Sciences and one of six selected as a fellow of the American Association for the Advancement of Science (AAAS).

This year, Albarracín and her colleagues published work on:

- assessing belief in misinformation about science
- perceptions of weather trends in areas of record-breaking heat
- what predicts human behavior—and how to change it.

KEVIN B. JOHNSON

The David L. Cohen University Professor of Pediatrics, who holds appointments in the Department of Computer and Information Science in the School of Engineering and Applied Science and the Department of Biostatistics, Epidemiology, and Informatics in the Perelman School of Medicine

Johnson was one of three Penn researchers to receive a 2023 National Institutes of Health (NIH) grant through the NIH Common Fund's High-Risk, High-Reward Research program. His grant, an NIH Director's Pioneer Award, is for the project "Helping Doctors Doctor: Using AI to Automate Documentation and De-Autonomate Health Care."

DESMOND UPTON PATTON

The Brian and Randi Schwartz University Professor, with joint appointments in the School of Social Policy and Practice and the Annenberg School for Communication, with a secondary appointment in the Department of Psychiatry in the Perelman School of Medicine

One of five Penn experts elected in 2023 to the National Academy of Medicine (NAM), Patton gave the 2024 Albert M. Greenfield Memorial Lecture (with fellow Social Work faculty Courtney Cogburn) on "Can Technology Spark Joy and Imagination?"

MICHAEL PLATT

The James S. Riepe University Professor, Professor of Neuroscience, Professor of Psychology, and Professor of Marketing, with appointments in the Perelman School of Medicine, SAS, and the Wharton School

Platt published research over the fiscal year on a range of topics:

- how our brains and bodies align in social interactions
- the socioeconomic and emotional factors leading to plummeting fertility rates
- the decision-making process in the brains of buyers and sellers
- how a hurricane changed a society of monkeys.

DUNCAN WATTS

Stevens University Professor in Computer and Information Science at Penn Engineering, director of the Computational Social Science (CSS) Lab

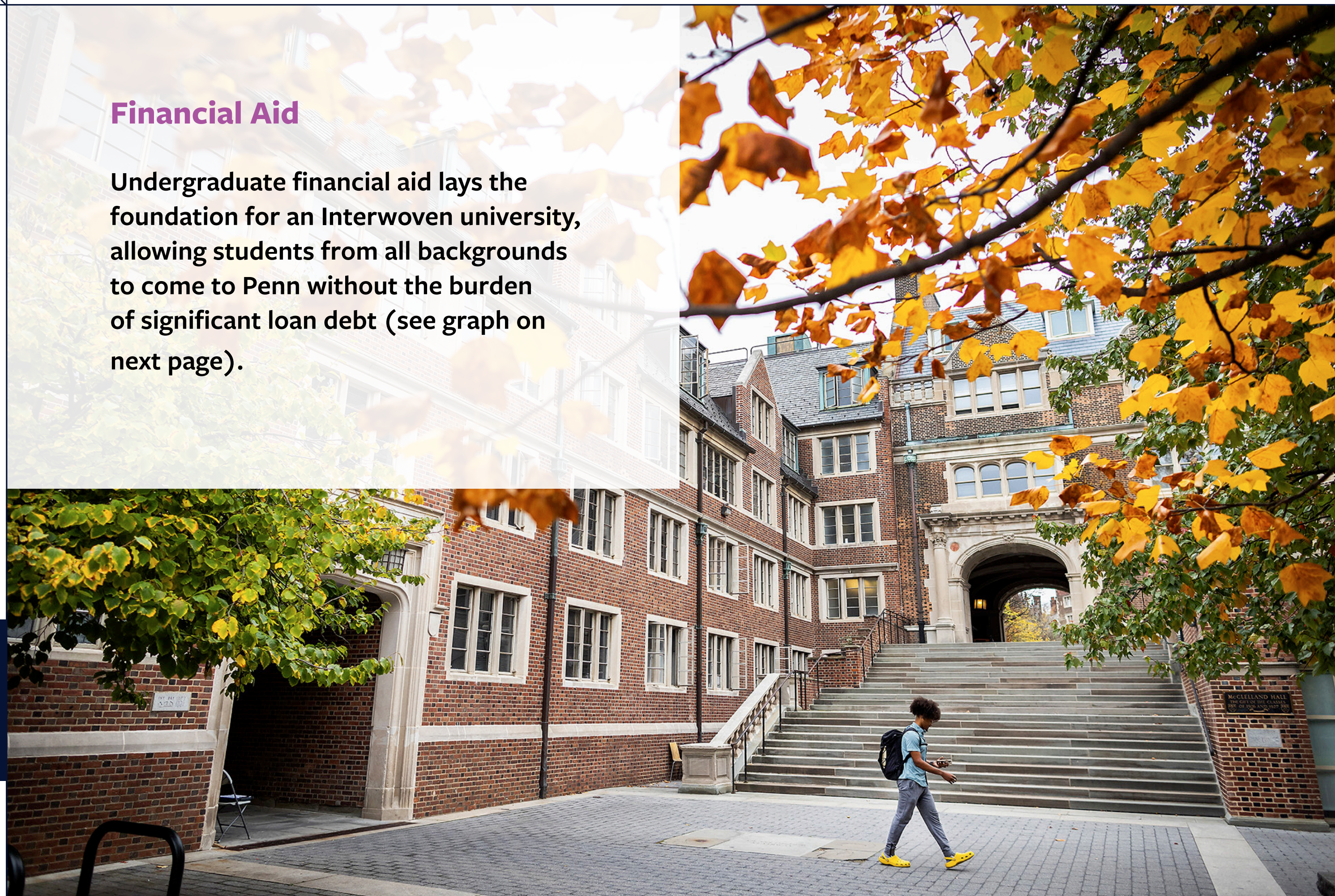
A computational social scientist, Watts worked with his CSS Lab team to:

- develop a map to navigate behavioral research
- create a Media Bias Protector
- examine the impact of "fake news" on vaccine skepticism
- determine that the YouTube algorithm has less influence on political views than previously believed.

ANNUAL FINANCIAL REPORT 2023–2024

Financial Aid

Undergraduate financial aid lays the foundation for an Interwoven university, allowing students from all backgrounds to come to Penn without the burden of significant loan debt (see graph on next page).



Ensuring Continuity of Student Aid: Covering the FAFSA Gap

When the U.S. Department of Education unexpectedly delayed the launch of the updated Free Application for Federal Student Aid (FAFSA), Penn jumped into action to ensure students and families would not be left with incomplete financial aid packages.

In partnership with Penn Admissions, Student Financial Aid reassured students applying for early-decision admission that they would receive a full and accurate financial aid package, even if they were not able to complete the FAFSA by posted deadlines. And when the delays continued to impact regular decision applicants, Penn maintained this commitment to guarantee aid eligibility based on other application materials.

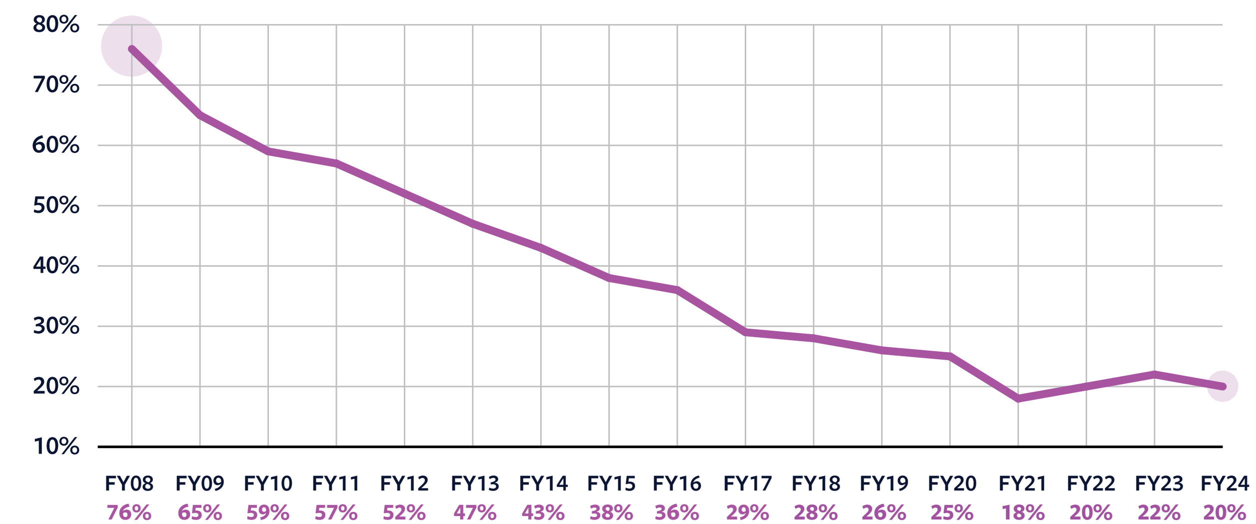
"The bottom line is that every admitted undergraduate eligible for aid received a package that met 100% of their demonstrated need," says Elaine Varas, senior university director of financial aid. "This means they were able to decide to enroll at Penn with confidence and peace of mind."

In its unyielding commitment to undergraduate access and affordability, Penn was able to eliminate confusion for students during a tumultuous time, committing $299 million to undergraduate aid in FY24. Penn leveraged its endowed undergraduate aid funding and other institutional funds to fill the gap for students until their federal aid funds became available later in the year.

Fewer Undergraduate Students Taking Loans

CHANGE IN PERCENT OF STUDENTS TAKING LOANS

of Traditional Undergraduates Receiving Need-Based Grant Aid**



** Data as of July 30, 2024

"Every admitted undergraduate eligible for aid [for the 2023–24 academic year] received a package that met 100% of their demonstrated need."

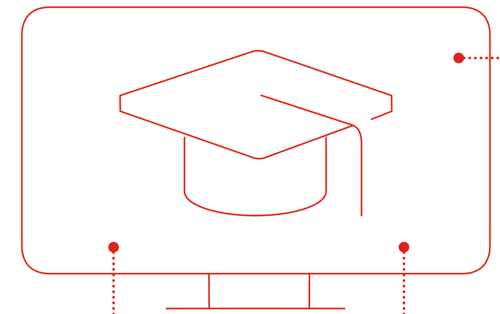
—Elaine Varas, Senior University Director of Financial Aid

The Inventive University

Penn is a powerhouse for breakthroughs in all fields.

Penn addresses great challenges and opportunities.

Online Degree Programs: A Source of Revenue That Fosters Penn's Educational Impact



1 Undergrad Degree

College of Liberal and Professional Studies (LPS)

Online Bachelor of Applied Arts and Sciences (BAAS)

3 Doctoral Degrees

Doctorate in Social Work (DSW)

Doctorate in Nursing Practice (DNP)

Doctorate in Nursing Practice Executive Leadership (DNP-EL)

14 Master's Degrees

MASTER OF SCIENCE

Applied Geosciences (Penn LPS)

Education
- Learning Analytics and Artificial Intelligence
- Global Higher Education Management
- Urban Education

Engineering
- Artificial Intelligence
- Computer and Information Technology
- Data Science

Nonprofit Leadership* (School of Social Policy and Practice)

Public Administration (Global Master's; Penn LPS)

** Offered online, hybrid, and on-campus*

MASTER'S DEGREES IN HEALTH CARE

Animal Welfare and Behavior (PennVet)

Health Care Innovation (Perelman School of Medicine)

Nutrition Science (Penn Nursing)

Oral and Population Health (MOPH) (Penn Dental)

Regulatory Affairs (Perelman School of Medicine)

Center for Excellence in Teaching, Learning, and Innovation (CETLI)

Investing in the Craft of Teaching: CETLI Centers Innovation

In expanding service to teachers at all levels, in 2023–24 the University launched CETLI, a merger of the Center for Teaching and Learning and the Online Learning Initiative. Following a hybrid model that combines consulting and thought leadership with experimentation, CETLI oversees Penn's 18 online degree programs (see p. 29), while offering deep resources for faculty and instructors at all levels.

At a Glance

$40M+

Penn's Distance Education has generated $40M+ per year for the last two academic years

10%

of Penn students who matriculated in 2023 are enrolled in a fully online degree program

LEVERAGING AI AND OTHER TECH TOOLS In learning to code, students in the Spring 2024 Programming and Data Science course got a master class in learning to put AI to work. **Masao Sako**—named CETLI's faculty co-director in April, and the Arifa Hasan Ahmad and Nada Al Shoaibi Presidential Professor of Physics and Astronomy—had students use ChatGPT, which also helped him assess their grasp of core concepts.

> "We're doing more to support instructors and using technology...[more] thinking systematically about where technology comes into our teaching, and...more to help online programs from the get-go to think about pedagogy in their design."
>
> —Rebecca Stein, CETLI Co-Executive Director

Progress Toward Campus Sustainability

Fiscal year 2024 marked significant progress in each of the seven initiatives of the Climate and Sustainability Action Plan 3.0 (CSAP 3.0), Penn's guiding document for campus sustainability, according to the goals developed and executed by Penn's Environmental Sustainability Advisory Committee (ESAC). FY24 is the end of CSAP 3.0's five-year period; the University's Office of Sustainability (POS) launched CSAP 4.0 in November 2024.

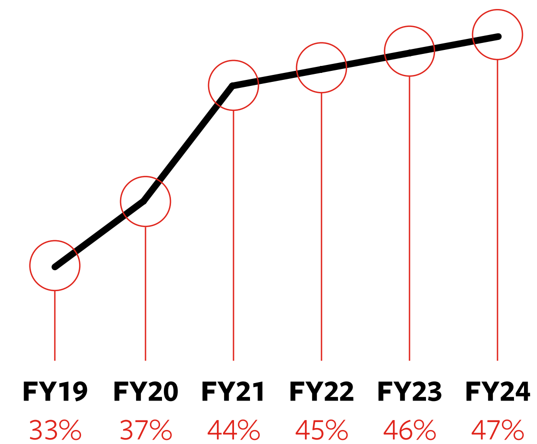
HIGHLIGHTS OF KEY SUSTAINABILITY INITIATIVES
(2020–2024 FISCAL YEARS)

INITIATIVE	KEY HIGHLIGHTS
Academics	• **5,112 students enrolled in environment-related courses** in the 2023-2024 academic year.
Utilities and Operations	• **Reduced GHG emissions by 47%** from 2009 baseline. • Two **Power Purchase Agreement (PPA) solar energy facilities constructed** in Central PA—equal to approximately 70% of the electricity demand of the University and UPHS in Greater Philadelphia.
Physical Environment	• To date, there are **51 LEED projects certified by the U.S. Green Building Council (USGBC)**, with an additional 7 under construction and 4 in design. • Completed **first carbon footprint for real estate portfolio**, and Morris Arboretum and New Bolton Center of Penn Vet.
Strategic Waste	• Initiated **waste audit** contract to help optimize waste operations; 29% diversion rate achieved in FY24 (up from 24% in FY20).
Procurement	• Enactead Travel Sustainability Policy and process to **track, fund, and offset the carbon emissions from all Penn-related air travel**.
Transportation	• Published a **Low-Emission Vehicle Guide** to support vehicle purchasers in transition to electric vehicles. • Penn transit added **6 electric passenger vans** to its fleet.
Outreach and Engagement	• **The Green Labs program** was formally established and conducted its first ULT freezer Inventory to assess energy-saving opportunities in labs.

Carbon Emission Reduction

PENN'S PROGRESS IN REDUCING THE MAIN CAMPUS CARBON FOOTPRINT

(AS COMPARED TO FY2019)



These reflect the University's advances toward its goals to:

- **Expand the scope of sustainability research** in Penn's academic Centers
- **Provide students with a rigorous education and experiential learning** opportunities in climate and sustainability
- Continue to **reduce carbon emissions** and **explore expanded use of renewable energy** to mitigate the impacts of climate change
- Incorporate **sustainable practices into campus design** and management
- Embrace circular economy principles to **reduce waste** and single-use products
- Make **sustainable choices in purchasing** and business operations
- Create an **accessible, integrated, and multimodal transportation system** for Penn students, staff, and faculty
- Inform, educate, and empower the Penn community to **participate in Penn's climate change and sustainability goals**.

"Penn has embedded bold thinking on climate change at every level of our institution. We will continue to take a whole-University approach to the challenge, intertwining sustainable practices and teaching inside and outside the classroom."

—Craig R. Carnaroli, Senior Executive Vice President

ANNUAL FINANCIAL REPORT 2023–2024

Notable Research Grants

MEDICINE

- Combating **Breast Cancer Recurrence**:

  $10 Million Department of Defense grant to *Penn Medicine*

- Link between **Traumatic Brain Injury and Dementia**:

  $10 Million NIH grant to *Penn Medicine*

PUBLIC HEALTH

- Environmental Impact on Pregnancy and **Children's Health**:

  $50 Million NIH grant to *Penn and Children's Hospital of Philadelphia*

- Supporting **Chronic Disease** Self-Management Among **Philadelphia Residents**:

  $5.5 Million NIH grant to *Penn Nursing, Philadelphia Community Engagement Alliance (CEAL), and the City of Philadelphia's Office of Community Empowerment and Opportunity (CEO)*

SCIENCE AND CLIMATE CHANGE

- "Earthshot" **Renewable Energy**:

  $5 Million U.S. Department of Energy grant (over three years) to *Penn Engineering and Applied Science and SAS faculty*

- R&D for Mitigation Technology to Halt **Methane Emissions** from Dairy Cattle:

  $508,884 grant from Gerstner Philanthropies to *Penn School of Veterinary Medicine*

SOCIAL SCIENCES

- Digital Mapping to Examine the Impact of **Federal "Redlining" Policies** on Rental Housing Post-World War II:

  $71,650 grant from the University Research Foundation (URF)[3] to *SAS faculty*—part of the $3.04 Million URF awarded in FY24

TECHNOLOGY

- Enhancing **National Computer Security**:

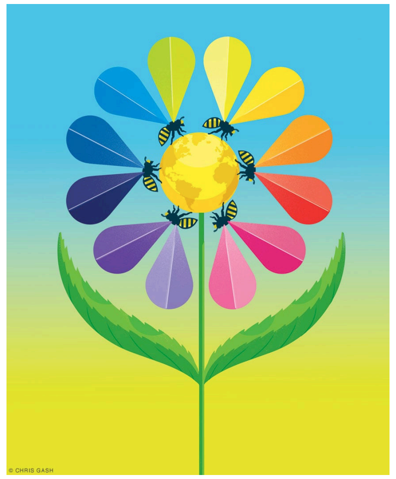
  $13.5 Million grant from the Defense Advanced Research Projects Agency (DARPA) to *Penn Engineering and Applied Science*

[3] URF is an internal funding program that supports the University's research mission.

"We serve a diverse population [in Philadelphia, including Medicaid] patients who are underrepresented in other pregnancy and pediatric cohorts in the U.S...By contributing to the national ECHO Cohort, our research will benefit not only our institutional and neighborhood communities but also communities across the country."

—Co-lead investigator Sunni L. Mumford, PhD, Co-Director of the Women's Health Clinical Research Center and Deputy Director of Epidemiology in the Perelman School of Medicine, re. the 2023 grant for the NIH's Environmental influences on Child Health Outcomes (ECHO) Program

Investments in Innovative Student Research



Penn awarded the 2024 President's Engagement and Innovation Prizes—the largest of their kind in higher education—in April. Honoring seven fourth-year undergraduate students, the prizes fund the design and implementation of projects that make a positive, lasting difference in the world. Selected from a pool of 68 applicants, this year's prizewinning projects received $100,000 as well as a $50,000 living stipend per team member for the year post-graduation they spend implementing the project.

2024 PRESIDENT'S ENGAGEMENT PRIZE

Educate to Empower seeks to identify and dismantle barriers to breast cancer screenings in marginalized communities, through education and resources at community centers in Philadelphia.

Presby Addiction Care focuses on implementing a volunteer program at Penn Presbyterian Medical Center to address challenges for individuals facing substance use disorders during hospitalization.

Left to right: Simran Rajpal and Gauthami Moorkanat for Educate to Empower; and Catherine Hood, Anooshey Ikhlas, and Brianna Aguilar for Presby Addiction Care Program. Photos by Eric Sucar.

PRESIDENT'S INNOVATION PRIZE

Jochi, an online EdTech management platform, improves educational experiences for students with learning differences, assessing student workloads in real-time to foster greater efficiency and engagement by teachers and administrators.

Several projects also earned several fourth-year students recognition as finalists, including the Refugee Health Empowerment Initiative, and Project StreetGuard.

Yash Dhir and Rahul Nambiar of Jochi

The Engaged University

Penn cultivates leaders who serve.

Penn seeks dialogue and collaboration across differences and divides.

Fostering Solidarity

Presidential Commission on Countering Hate and Building Community and the University Task Force on Antisemitism

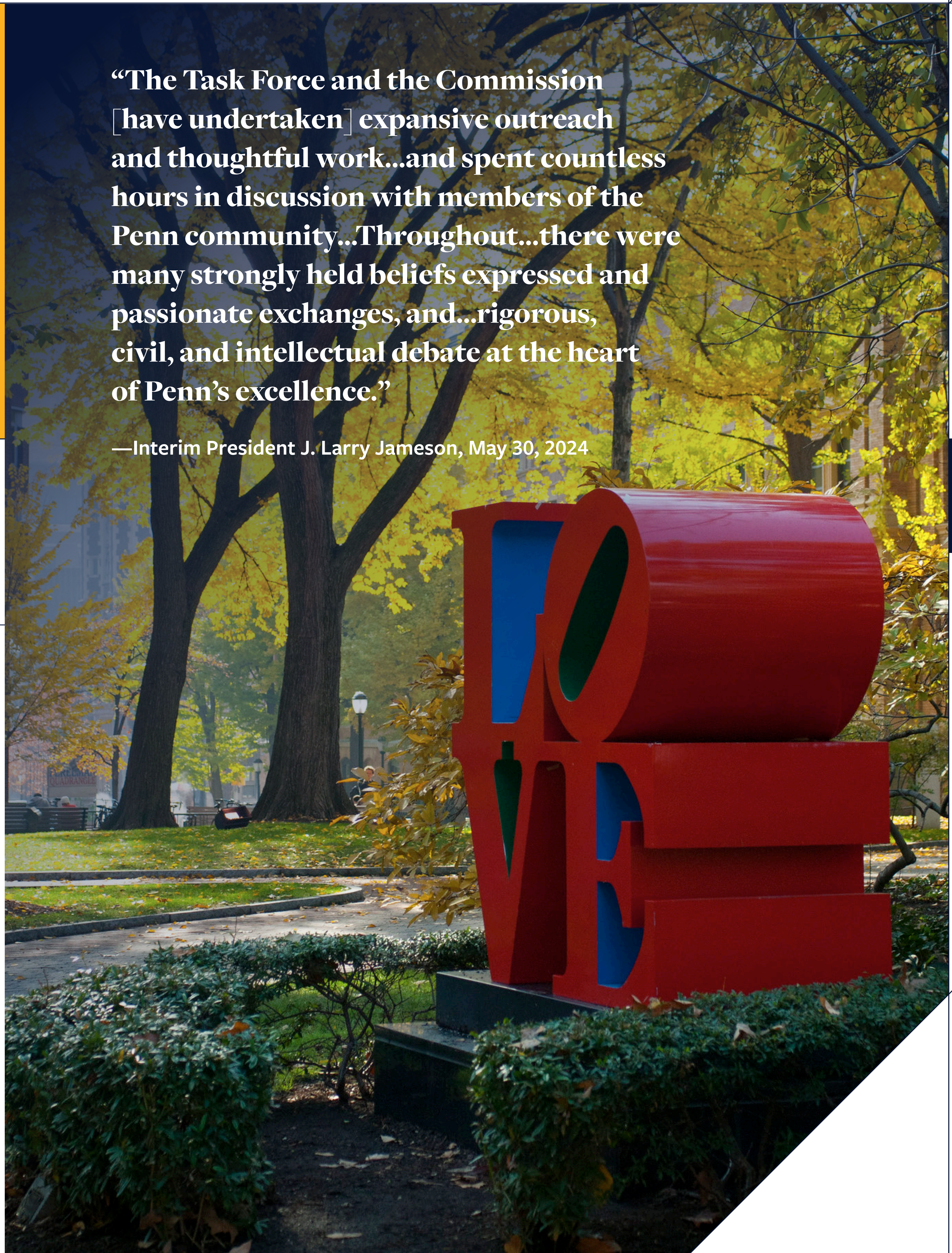
In FY24, Penn launched two cross-sectional efforts to respond to antisemitism, Islamophobia, and other forms of hatred on campus. A shared mission among the groups is ensuring the safety and belonging of all our diverse community members, by cultivating a culture that welcomes, supports, retains, and engages students, faculty, staff, and alumni of all faiths and backgrounds and helps them to thrive.

The leadership of these two interconnected bodies began to examine and address how our university must translate its values—on the ground, every day.

The coalition and commission have taken an active role in identifying, articulating, and addressing core complex issues that are at once global and personal, economic and cultural, practical and ethical. Both groups issued final reports in 2024 that are guiding the University's efforts in this work going forward. Following are some of their high-level recommendations.

"The Task Force and the Commission [have undertaken] expansive outreach and thoughtful work...and spent countless hours in discussion with members of the Penn community...Throughout...there were many strongly held beliefs expressed and passionate exchanges, and...rigorous, civil, and intellectual debate at the heart of Penn's excellence."

—Interim President J. Larry Jameson, May 30, 2024



University Task Force on Antisemitism

Areas of Focus

Safety and security, engagement, and education for the Jewish members of the University community and all those to support, teach, live, and learn alongside them.

Leadership and Membership

Six faculty members representing the Wharton School, the Law School, the Nursing School, SAS, the Jewish Studies Program, and the Katz Center of Advanced Judaic Studies. Two student representatives; six staff, alumni, and Trustee representatives; and four ex-officio members.

University Task Force on Antisemitism

Recommendations

1. Define and assert Penn's values
2. Commit to leading in Jewish studies and education
3. Enhance existing programmatic structures to promote cross-cultural understanding
4. Promote a healthy environment that supports Jewish student life on campus
5. Encourage and embrace global collaboration
6. Amplify research collaboration and resources in social media literacy
7. Clarify guidelines on open expression
8. Enhance and promote cross-cultural understanding
9. Enhance incident reporting and transparency
10. Assess campus climate

Presidential Commission on Countering Hate and Building Community

Areas of Focus

Orientation programs; education and learning; increased coordination to support student success at Penn; open expression; student wellness; religious life on campus; community standards and accountability; diversity efforts; student, faculty, and staff life on campus; safety; and collaboration with the work of the University's Task Force on Antisemitism.

Leadership and Membership

Co-chaired by two faculty representatives, from Penn Engineering and the Graduate School of Education.*

Comprises 19 members, including students, faculty, staff, alumni, and Trustees, and two ex-officio members.

Presidential Commission on Countering Hate and Building Community

Recommendations

1. Create a values statement for the Penn community
2. Develop a clear plan for adopting, sharing, and implementing this values statement
3. Design new incoming orientations for students, faculty, and staff
4. Develop new required and elective courses
5. Establish a Center for the Study of Hate and Intolerance
6. Launch Penn-wide events focused on "Conversations Across Differences"
7. Develop programming to support Penn Spirit Days
8. Strengthen and align open expression policies and procedures
9. Provide continued engagement to increase trust
10. Increase transparency and communication

* The latter is also an ex-officio member of the University Antisemitism Coalition

New Leadership

CHAIR, BOARD OF TRUSTEES

Ramanan Raghavendran

Raghavendran was named board chair on January 4, 2024. He holds three Penn degrees and is the managing partner and co-founder of Amasia, a global venture capital firm focused on climate and sustainability.

INTERIM PRESIDENT

J. Larry Jameson

Jameson was named interim president on December 12, 2023, having previously served as dean of the Perelman School of Medicine since 2011.

DEAN, ANNENBERG SCHOOL FOR COMMUNICATION

Sarah Banet-Weiser

Banet-Weiser began her term as dean effective August 14, 2023. She is the Lauren Berlant Professor of Communication and her research focuses on how women, communities of color, and youth use media.

CHIEF FINANCIAL OFFICER, UPHS

Julia Puchtler

Puchtler was announced as CFO of UPHS in May 2024 with an effective start date of July 1, 2024. She was previously the CFO of the Hospital of the University of Pennsylvania (HUP).

VICE PRESIDENT, BUSINESS SERVICES

Michael Scales

Scales became vice president on June 1, 2024, having previously served as associate vice president for business services at Temple University.

VICE PRESIDENT, HUMAN RESOURCES

Felicia Washington

Washington assumed the role of vice president of human resources on October 1, 2024. She was previously senior vice president of human resources at the University of Southern California.

ANNUAL FINANCIAL REPORT 2023–2024

Statutory Officers & Trustees

STATUTORY OFFICERS

AS OF JUNE 30, 2024

Interim President
J. Larry Jameson

Provost
John L. Jackson, Jr.

Interim Executive Vice President of the University of Pennsylvania for the Health System and Interim Dean, Perelman School of Medicine
Jonathan A. Epstein

Senior Executive Vice President
Craig R. Carnaroli

Senior Vice President and General Counsel of the University of Pennsylvania and the University of Pennsylvania Health System
Wendy S. White

Senior Vice President for Facilities and Real Estate Services
Anne Papageorge

Senior Vice President for Information Technology and University Chief Information Officer
Thomas H. Murphy

Senior Vice President for Institutional Affairs and Chief Diversity Officer
Joann Mitchell

Senior Vice President for Strategic Initiatives
David A. Asch

Vice President for Audit, Compliance and Privacy
Gregory J. Pellicano

Vice President for Budget Planning and Analysis
Trevor Lewis

Vice President for Business Services
Michael Scales

Vice President and Chief of Staff
Michael J. Citro

Vice President for Development and Alumni Relations
James J. Husson

Vice President for Finance and Treasurer
Mark F. Dingfield

Vice President for Government and Community Affairs
Jeffrey Cooper

Senior Vice President for Human Resources
John J. Heuer

Vice President for Institutional Research and Analysis
Stacey J. Lopez

Vice President for Public Safety
Kathleen S. Anderson

Vice President for Social Equity and Community and University Chaplain
Charles L. Howard

Vice President for University Communications
Anna Cowenhoven

Vice President and University Secretary
Medha Narvekar

Comptroller
Russell A. Di Leo

Consolidated Financial Statements

JUNE 30, 2024 AND 2023

Index

Report of Independent Auditors

TO THE TRUSTEES OF THE UNIVERSITY OF PENNSYLVANIA

pwc

Opinion

We have audited the accompanying consolidated financial statements of University of Pennsylvania and its subsidiaries (the "University"), which comprise the consolidated statements of financial position as of June 30, 2024 and 2023, and the related consolidated statements of activities and of cash flows for the years then ended, including the related notes (collectively referred to as the "consolidated financial statements").

In our opinion, the accompanying consolidated financial statements present fairly, in all material respects, the financial position of the University as of June 30, 2024 and 2023, and the changes in its net assets and its cash flows for the years then ended in accordance with accounting principles generally accepted in the United States of America.

Basis for Opinion

We conducted our audit in accordance with auditing standards generally accepted in the United States of America (US GAAS). Our responsibilities under those standards are further described in the Auditors' Responsibilities for the Audit of the Consolidated Financial Statements section of our report. We are required to be independent of the University and to meet our other ethical responsibilities, in accordance with the relevant ethical requirements relating to our audit. We believe that the audit evidence we have obtained is sufficient and appropriate to provide a basis for our audit opinion.

Responsibilities of Management for the Consolidated Financial Statements

Management is responsible for the preparation and fair presentation of the consolidated financial statements in accordance with accounting principles generally accepted in the United States of America, and for the design, implementation, and maintenance of internal control relevant to the preparation and fair presentation of consolidated financial statements that are free from material misstatement, whether due to fraud or error.

In preparing the consolidated financial statements, management is required to evaluate whether there are conditions or events, considered in the aggregate, that raise substantial doubt about the University's ability to continue as a going concern for one year after the date the consolidated financial statements are issued.

PricewaterhouseCoopers LLP, 2001 Market Street, Suite 1800, Philadelphia, Pennsylvania 19103
T: (267) 330 3000, www.pwc.com/us

Auditors' Responsibilities for the Audit of the Consolidated Financial Statements

Our objectives are to obtain reasonable assurance about whether the consolidated financial statements as a whole are free from material misstatement, whether due to fraud or error, and to issue an auditors' report that includes our opinion. Reasonable assurance is a high level of assurance but is not absolute assurance and therefore is not a guarantee that an audit conducted in accordance with US GAAS will always detect a material misstatement when it exists. The risk of not detecting a material misstatement resulting from fraud is higher than for one resulting from error, as fraud may involve collusion, forgery, intentional omissions, misrepresentations, or the override of internal control. Misstatements are considered material if there is a substantial likelihood that, individually or in the aggregate, they would influence the judgment made by a reasonable user based on the consolidated financial statements.

In performing an audit in accordance with US GAAS, we:

- Exercise professional judgment and maintain professional skepticism throughout the audit.
- Identify and assess the risks of material misstatement of the consolidated financial statements, whether due to fraud or error, and design and perform audit procedures responsive to those risks. Such procedures include examining, on a test basis, evidence regarding the amounts and disclosures in the consolidated financial statements.
- Obtain an understanding of internal control relevant to the audit in order to design audit procedures that are appropriate in the circumstances, but not for the purpose of expressing an opinion on the effectiveness of the University's internal control. Accordingly, no such opinion is expressed.
- Evaluate the appropriateness of accounting policies used and the reasonableness of significant accounting estimates made by management, as well as evaluate the overall presentation of the consolidated financial statements.
- Conclude whether, in our judgment, there are conditions or events, considered in the aggregate, that raise substantial doubt about the University's ability to continue as a going concern for a reasonable period of time.

We are required to communicate with those charged with governance regarding, among other matters, the planned scope and timing of the audit, significant audit findings, and certain internal control-related matters that we identified during the audit.

PricewaterhouseCoopers LLP

PHILADELPHIA, PENNSYLVANIA
SEPTEMBER 26, 2024

Consolidated Statements of Financial Position

UNIVERSITY OF PENNSYLVANIA

(IN THOUSANDS)

	June 30 2024	June 30 2023
ASSETS		
Cash and cash equivalents	$ 2,718,541	$ 3,217,099
Accounts receivable, net	1,964,265	1,816,464
Contributions receivable, net	351,766	447,413
Loans receivable, net	48,718	53,022
Other assets	1,245,754	1,244,642
Investments, at fair value	24,423,825	23,090,536
Property, plant and equipment, net	9,853,151	9,463,058
TOTAL ASSETS	**$ 40,606,020**	**$ 39,332,234**
LIABILITIES		
Accounts payable	$ 492,916	$ 388,701
Accrued expenses and other liabilities	3,937,162	4,065,419
Deferred income	193,456	189,706
Deposits and advances	178,751	217,594
Federal student loan advances	30,056	32,756
Accrued retirement benefits	546,916	290,669
Debt obligations	4,273,940	4,393,519
TOTAL LIABILITIES	**9,653,197**	**9,578,364**
NET ASSETS		
Without donor restrictions	19,554,631	18,814,722
With donor restrictions	11,398,192	10,939,148
TOTAL NET ASSETS	**30,952,823**	**29,753,870**
TOTAL LIABILITIES AND NET ASSETS	**$ 40,606,020**	**$ 39,332,234**

The accompanying notes are an integral part of these consolidated financial statements.

Consolidated Statements of Activities

UNIVERSITY OF PENNSYLVANIA

FOR THE YEARS ENDED JUNE 30, 2024 AND 2023

(IN THOUSANDS)

	2024	2023
WITHOUT DONOR RESTRICTIONS:		
REVENUE AND OTHER SUPPORT		
Tuition and fees, net	$ 1,377,670	$ 1,361,445
Commonwealth appropriations	3,190	36,740
Sponsored programs	1,408,679	1,333,422
Contributions and donor support	217,084	239,165
Investment income	1,229,250	1,121,483
Net patient service revenue	9,459,470	8,718,133
Other income	2,095,669	2,182,485
TOTAL REVENUE AND OTHER SUPPORT	**15,791,012**	**14,992,873**
EXPENSES		
Compensation and benefits	8,398,503	7,742,714
Depreciation and amortization	658,267	650,251
Interest on indebtedness	143,162	139,741
Other operating expenses	5,931,344	5,324,442
TOTAL EXPENSES	**15,131,276**	**13,857,148**
INCREASE IN NET ASSETS FROM OPERATIONS	**659,736**	**1,135,725**
NONOPERATING ACTIVITIES		
Return on investments, net of amounts classified as operating revenue	167,555	(472,278)
Pension, OPEB and other, net	(183,878)	204,662
Contributions and donor support for capital related activities	96,496	138,401
TOTAL NONOPERATING ACTIVITIES	**80,173**	**(129,215)**
INCREASE IN NET ASSETS WITHOUT DONOR RESTRICTIONS	**739,909**	**1,006,510**
WITH DONOR RESTRICTIONS:		
Contributions	433,223	450,788
Return on investments, net	720,149	175,674
Net assets released from restrictions	(694,328)	(754,289)
INCREASE (DECREASE) IN NET ASSETS WITH DONOR RESTRICTIONS	**459,044**	**(127,827)**
INCREASE IN TOTAL NET ASSETS	**1,198,953**	**878,683**
Total net assets, beginning of year	29,753,870	28,875,187
TOTAL NET ASSETS, END OF YEAR	**$ 30,952,823**	**$ 29,753,870**

The accompanying notes are an integral part of these consolidated financial statements.

Consolidated Statements of Cash Flows

UNIVERSITY OF PENNSYLVANIA

FOR THE YEARS ENDED JUNE 30, 2024 AND 2023

(IN THOUSANDS)

	2024	2023
CASH FLOWS FROM OPERATING ACTIVITIES:		
Increase in total net assets	$ 1,198,953	$ 878,683
Adjustments to reconcile increase in total net assets to net cash provided by operating activities:		
Depreciation and amortization	640,460	631,017
Provision for bad debts	28,037	12,639
Gain on investments, net	(1,331,481)	(123,364)
Loss on disposal of property, plant and equipment	13,540	17,741
Donated equipment	(120)	(137)
Receipt of contributed securities	(94,432)	(126,050)
Proceeds from contributed securities	17,040	42,898
Receipt of contributions designated for the acquisition of long-lived assets and long-term investment	(307,338)	(259,864)
Pension, OPEB and other, net	183,878	(204,662)
Changes in operating assets and liabilities:		
Accounts and loans receivable	(171,025)	102,105
Contributions receivable	95,139	66,980
Other assets	(47,657)	(54,541)
Accounts payable, accrued expenses and accrued retirement benefits	361,093	(401,949)
Deposits and advances	(39,115)	(17,103)
Deferred income	3,750	(10,952)
NET CASH PROVIDED BY OPERATING ACTIVITIES	**550,722**	**553,441**
CASH FLOWS FROM INVESTING ACTIVITIES:		
Purchase of investments	(10,844,182)	(16,688,794)
Proceeds from sale of investments	10,350,265	16,946,009
Proceeds from sale of Pennsylvania College of Health Sciences	21,972	–
Purchase of property, plant and equipment	(1,075,049)	(780,336)
NET CASH USED BY INVESTING ACTIVITIES	**(1,546,994)**	**(523,121)**
CASH FLOWS FROM FINANCING ACTIVITIES:		
Proceeds from contributions received designated for the acquisition of long-lived assets and long-term investment	307,338	259,864
Proceeds from contributed securities received designated for the acquisition of long-lived assets and long-term investment	78,042	81,050
Federal student loan repayments	(2,700)	(7,139)
Repayment of debt obligations	(102,111)	(81,405)
Proceeds from issuances of debt obligations	-	16,419
NET CASH PROVIDED BY FINANCING ACTIVITIES	**280,569**	**268,789**
NET (DECREASE) INCREASE IN CASH AND CASH EQUIVALENTS	**(715,703)**	**299,109**
Cash and cash equivalents, beginning of year	3,472,361	3,173,252
CASH AND CASH EQUIVALENTS, END OF YEAR	**$ 2,756,658**	**$ 3,472,361**
RECONCILIATION TO CONSOLIDATED STATEMENTS OF FINANCIAL POSITION:		
Cash and cash equivalents, Consolidated Statements of Financial Position	$ 2,718,541	$ 3,217,099
Cash included in Investments, at fair value	38,117	255,262
CASH AND CASH EQUIVALENTS, END OF YEAR	**$ 2,756,658**	**$ 3,472,361**
SUPPLEMENTAL DISCLOSURE OF CASH FLOW INFORMATION:		
Cash paid for interest, net of amounts capitalized	$ 154,085	$ 150,335
Decrease in accrued plant, property and equipment	(19,553)	(6,377)
Operating cash flows for operating leases	101,130	78,911
Right-of-use assets obtained in exchange for lease liabilities	126,803	116,114

The accompanying notes are an integral part of these consolidated financial statements.

1. Summary of Significant Accounting Policies

Organization

The University of Pennsylvania ("University"), located in Philadelphia, Pennsylvania, is an independent, nonsectarian, not-for-profit institution of higher learning founded in 1740. The University Academic Component ("Academic Component") provides educational services, primarily for students at the undergraduate, graduate, professional and postdoctoral levels and performs research, training and other services under grants, contracts and similar agreements with sponsoring organizations, primarily departments and agencies of the United States Government. The University also operates an integrated health care delivery system, the University of Pennsylvania Health System ("UPHS"). The University is a tax-exempt organization under Section 501(c)(3) of the Internal Revenue Code.

Basis of Presentation

The consolidated financial statements have been prepared in accordance with accounting principles generally accepted in the United States of America ("U.S. GAAP") and include the accounts of the University and its subsidiaries over which the University exercises control. All material transactions between the University and its subsidiaries are eliminated in consolidation. Investments in subsidiaries over which the University has the ability to exercise significant influence are reported using the equity method of accounting. Other investments in subsidiaries are reported using the measurement alternative – at cost adjusted for impairment, if any, unless an observable transaction for an identical or similar security occurs. Transactions with related parties occur in the ordinary course of the University's activities which do not have a material effect on the University's financial position. University related parties may include affiliates, trusts, and investment holdings. In addition, related parties may also include board members and senior management, their family members, and any entities with which they are associated that may do business with the University.

The net assets of the University are classified and reported as follows:

> Without donor restrictions – includes net assets that are not subject to donor-imposed restrictions.
>
> With donor restrictions – includes net assets that are (i) subject to legal or donor-imposed restrictions that will be met by actions of the University and/or the passage of time, and (ii) the original values of donor restricted net assets, the use of which is limited to investment and can only be appropriated for expenditure by the University in accordance with the Pennsylvania Uniform Principal and Income Act (Pennsylvania Act).

Expenses are reported as a decrease in net assets without donor restrictions. Gains and losses associated with property, plant and equipment disposals are included in Other income and Other operating expenses, respectively. Gains and losses on investments are included in Return on investments, net and are reported as increases or decreases in net assets without donor restrictions unless their use is restricted by explicit donor stipulation or by law. Gains or losses associated with all other activities, such as debt retirements and pension and postretirement plan actuarial valuation adjustments, are reported in Pension, other postretirement employee benefits (OPEB) and other, net. Donor-restricted resources intended for the acquisition or construction of long-lived assets are initially reported as net assets with donor restrictions and released from restrictions to net assets without donor restrictions when the asset is placed in service or in accordance with donor-specified terms.

Expirations of restrictions on contributions and investment income, reported as Net assets released from restrictions, and the corresponding amounts are included in the Consolidated Statements of Activities as follows (in thousands):

NET ASSETS WITHOUT DONOR RESTRICTIONS	2024	2023
Contributions and donor support	$ 152,033	$ 154,965
Investment income	445,799	460,923
Contributions and donor support for capital related activities	96,496	138,401
NET ASSETS RELEASED FROM RESTRICTIONS	**$ 694,328**	**$ 754,289**

NET ASSETS WITH DONOR RESTRICTIONS	2024	2023
Net assets released from restrictions	$ (694,328)	$ (754,289)

Fair Value

The University values certain financial and non-financial assets and liabilities by applying the Financial Accounting Standards Board (FASB) pronouncement on Fair Value Measurements. The pronouncement defines fair value and establishes a framework for measuring fair value that includes a hierarchy that categorizes and prioritizes the sources used to measure and disclose fair value. Fair value is defined as the price that would be received to sell an asset or paid to transfer a liability in an orderly transaction between market participants at the measurement date (an exit price). The hierarchy is broken down into three levels based on inputs that market participants would use in valuing the asset or liability and are developed based on market data obtained from sources independent of the University as follows:

Level 1: Unadjusted quoted market prices in active markets for identical assets or liabilities.

Level 2: Unadjusted quoted prices in active markets for similar assets or liabilities, unadjusted quoted prices for identical or similar assets or liabilities in markets that are not active, or inputs other than quoted prices that are observable.

Level 3: Unobservable inputs for the asset or liability.

Inputs broadly refer to the assumptions that market participants use to make valuation decisions, including assumptions about risk. Inputs may include price information, volatility statistics, specific and broad credit data, liquidity statistics and other factors. The University is required by the pronouncement to maximize the use of observable inputs (Levels 1 and 2) and minimize the use of unobservable inputs (Level 3). The University considers observable data to be that market data which is readily available, regularly distributed or updated, reliable and verifiable, not proprietary and provided by independent sources that are actively involved in the relevant market. The categorization of a financial instrument within the hierarchy is based upon the pricing transparency of the instrument and does not necessarily correspond to the University's perceived risk of that instrument.

Assets and liabilities are disclosed in the Notes to Consolidated Financial Statements within the hierarchy based on the lowest (or least observable) input that is significant to the measurement. The University's assessment of the significance of an input requires judgment, which may affect the valuation and categorization within the fair value hierarchy. The fair value of assets and liabilities using Level 3 inputs are generally determined by using pricing models or discounted cash flow methods, which all require significant management judgment or estimation.

As a practical expedient, the University is permitted to estimate the fair value of an investment in an investment company at the measurement date using the reported net asset value (NAV). Adjustment is required if the University expects to sell the investment at a value other than NAV or if the NAV is not calculated in accordance with U.S. GAAP. The University holds investments in its portfolio which are generally valued based on the most current NAV. This amount represents fair value of these investments at June 30, 2024 and 2023. Investments reported at NAV, as a practical expedient, are not included within levels 1, 2, or 3 in the fair value hierarchy.

The University performs additional procedures, including due diligence reviews, on its investments in investment companies and other procedures with respect to the capital account or NAV provided to ensure conformity with US GAAP. The University has assessed factors including, but not limited to, managers' compliance with the Fair Value Measurement standard, price transparency and valuation procedures in place.

Cash and Cash Equivalents

Cash and cash equivalents include demand deposits and liquid investments available for current operations with maturities of three months or less, which would be considered Level 1 investments under the fair value hierarchy. All short-term, highly liquid investments, otherwise qualifying as cash equivalents or restricted cash equivalents, included in the University's investments are treated as Investments, at fair value and are therefore excluded from Cash and cash equivalents in the Consolidated Statements of Cash Flows.

Investments, at Fair Value

The majority of the University's investments are held in the Associated Investments Fund (AIF). The AIF is invested in accordance with the investment policies set out by an Investment Board which has been appointed by the Trustees of the University of Pennsylvania (the Trustees). The Office of Investments is responsible for the day-to-day management of the AIF including identifying, selecting and monitoring a variety of external investment managers to implement the strategic asset allocation set forth by the Investment Board. The AIF may include marketable and not readily marketable securities that it intends to hold for an indefinite period of time. The University also holds other investments which are not invested in the AIF due to various restrictions. The majority of these investments are in highly liquid short-term and equity type investments. Changes in the fair value of investments are reported in Return on investments, net in the Consolidated Statements of Activities. The following is a summary of the investments held in the AIF by asset allocation, as well as investment risk:

Short-Term

Short-term investments include cash equivalents and fixed income investments with maturities of less than one year. Short-term investments are valued using observable market data and are categorized as Level 1 based on quoted market prices in active markets. The majority of these short-term investments are held in a US Treasury money market account.

Public Equity

Public equity investments consist of direct holdings of public securities in managed accounts as well as mutual funds and private funds. The securities held in managed accounts, along with mutual funds, are generally valued based on quoted market prices in active markets obtained from exchange or dealer markets for identical assets, and are accordingly categorized as Level 1. Private funds are valued at NAV.

Debt

Debt investments consist of direct holdings of securities in managed accounts and private funds. Securities such as US Treasuries, held in managed accounts, are valued based on quoted market prices in active markets and are categorized as Level 1. Securities such as corporate and sovereign bonds, also held in managed accounts, are valued based on quoted market prices or dealer or broker quotations and are categorized as Level 2 or in the cases where inputs are unobservable as Level 3. Private funds are valued at NAV.

Absolute Return

Absolute return investments are made up of allocations to private funds. The fund managers of these private funds invest in a variety of securities, based on the strategy of the fund, which may or may not be quoted in an active market. Private funds are valued at NAV.

Private Equity

Investments in private equity are in the form of private funds. The fund managers primarily invest in investments for which there is no readily determinable market value. The fund managers may value the underlying private investments based on an appraised value, discounted cash flow, industry comparables or some other method. These private fund investments are valued at NAV.

Real Assets

Investments in real assets are made up of private funds and securities in managed accounts. The fund managers of these private funds primarily invest in investments for which there is no readily determinable market value. The fund managers may value the underlying private investments based on an appraised value, discounted cash flow, industry comparables or some other method. These private fund investments are valued at NAV. The securities held in managed accounts are generally valued based on quoted market prices in active markets obtained from exchange or dealer markets for identical assets, and are accordingly categorized as Level 1.

Derivative Instruments

The University, in the normal course of business, utilizes derivative financial instruments in connection with its investment activity. Derivatives utilized by the University include futures, options, swaps and forward currency contracts and are reflected at fair value following the definition of Level 1 and 2 assets and liabilities as previously described. Investments in derivative contracts are subject to foreign exchange and equity price risks that can result in a loss of all or part of an investment. In addition, the University is also subject to additional counterparty risk should its counterparties fail to meet the terms of their contracts.

Investment Risks

The University's investing activities expose it to a variety of risks including market, credit and liquidity risks. The University attempts to identify, measure and monitor risk through various mechanisms including risk management strategies and credit policies.

Market risk is the potential for changes in the fair value of the University's investment portfolio. Commonly used categories of market risk include currency risk (exposure to exchange rate differences between functional currency relative to other foreign currencies), interest rate risk (changes to prevailing interest rates or changes in expectations of futures rates) and price risk (changes in market value other than those related to currency or interest rate risk, including the use of NAV provided).

Credit risk is the risk that one party to a financial investment will cause a financial loss for the other party by failing to discharge an obligation (counterparty risk).

Liquidity risk is the risk that the University will not be able to meet its obligations associated with financial liabilities.

Endowment

The University's endowment consists of 7,800 donor-restricted endowment funds and 1,009 quasi-endowment funds established by management for a variety of purposes. The University reports all endowment investments at fair value. Most of the endowment funds of the University have been pooled in the University's AIF. The endowment funds not pooled in the AIF are primarily invested in equities and bonds.

The Commonwealth of Pennsylvania has not adopted the Uniform Management of Institutional Funds Act (UMIFA) or the Uniform Prudent Management of Institutional Funds Act (UPMIFA). Rather, the Pennsylvania Act governs the investment, use and management of the University's endowment funds.

The Pennsylvania Act does not require the preservation of the fair value of a donor's original gift as of the gift date of a donor-restricted endowment fund, absent explicit donor stipulations to the contrary. However, based on its interpretation of the Pennsylvania Act and relevant accounting literature, the University classifies the following as net assets with donor restrictions for reporting purposes: (i) the original value of donated assets required to be invested in perpetuity; (ii) the original value of subsequent donated assets required to be invested in perpetuity; (iii) accumulations to the donated assets invested in perpetuity made in accordance with the direction of the applicable donor gift instrument at the time the accumulation is added to the fund; and (iv) donated assets and accumulations that are subject to legal or donor-imposed restrictions that will be met by actions of the University and/or the passage of time. The Pennsylvania Act allows a nonprofit to elect to appropriate for expenditure between 2% and 7% of the endowment fair value, determined at least annually and averaged over a period of three or more preceding years, including funds whose fair value is less than the original donated value.

In accordance with the Pennsylvania Act, the University has elected to adopt and follow an investment policy seeking a total return for the investments held by the AIF, whether the return is derived from appreciation of capital or earnings and distributions with respect to capital or both. The endowment spending policy which the Board of Trustees has elected to govern the expenditure of funds invested in the AIF, including funds whose fair value is less than the original donated value, is designed to manage annual spending levels and is independent of the cash yield and appreciation of investments for the year. For fiscal year 2024, the spending rule payout is based on the sum of: (i) 70% of the prior fiscal year distribution adjusted by an inflation factor; and (ii) 30% of the prior fiscal year-end fair value of the AIF, lagged one year, multiplied by a 5% target spending rate for all funds. The payout or allocation to operations exceeded actual income, net of expenses, by $1,063,415,000 and $975,606,000 in 2024 and 2023, respectively.

Property, Plant and Equipment

Property, plant and equipment (PPE) is reported net of related depreciation. Donated PPE is reported based on estimated fair value at the date of acquisition. All other PPE is reported at cost. Depreciation is computed on the straight-line method over the estimated useful lives of the assets, or the shorter of the lease term or estimated useful life for leased assets. Contributions of library materials, as well as rare books and other collectibles, are not recorded for financial statement presentation, while purchases are recorded as Other operating expenses on the Consolidated Statement of Activities in the period acquired.

Split-Interest Agreements

The University's split-interest agreements with donors consist of irrevocable charitable remainder trusts, charitable gift annuities, pooled income funds, perpetual trusts and charitable lead trusts. Assets are invested and payments are made to donors and/or other beneficiaries in accordance with the respective agreements.

The University recognizes assets contributed to charitable remainder trusts, charitable gift annuities and pooled income funds, where it serves as trustee, at fair value, recognizes a liability to the beneficiaries based on the present value of the estimated future payments to beneficiaries to be made over the estimated remaining life of those beneficiaries using current market rates at the date of the contribution, and recognizes the difference as contribution revenue. Subsequently, the trust assets, invested in equity and debt securities, are measured at fair value at quoted market prices, and are categorized as Level 1, with the changes reported as an adjustment to Investments, at fair value on the Consolidated Statements of Financial Position and Return on investments, net on the Consolidated Statements of Activities. Liabilities to beneficiaries are revalued based on current market rates, and are categorized as Level 2, with the changes reported as an adjustment to Accrued expense and other liabilities on the Consolidated Statements of Financial Position and Return on investments, net on the Consolidated Statements of Activities.

Charitable remainder trust assets, where the University does not serve as trustee, are initially valued using the current fair value of the underlying assets, using observable market inputs based on its beneficial interest in the trust, discounted to a single present value using current market rates at the date of the contribution. The initially contributed assets are categorized as Level 3, and reported as Investments, at fair value on the Consolidated Statements of Financial Position and Contribution revenue on the Consolidated Statements of Activities. Subsequent valuation follows this same approach with changes in fair value reported as an adjustment to Investments, at fair value on the Consolidated Statements of Financial Position and Return on investments, net on the Consolidated Statements of Activities. The primary unobservable input used in the fair value measurement of the charitable remainder trust assets is the discount rate.

Perpetual trust assets are initially valued at the current fair value of the underlying assets using observable market inputs based on its beneficial interest in the trust. The initially contributed assets are categorized as Level 3 and are reported as Investments, at fair value on the Consolidated Statements of Financial Position and as Contributions on the Consolidated Statements of Activities. Subsequent valuation follows this same approach with changes in fair value reported as an adjustment to Investments, at fair value on the Consolidated Statements of Financial Position and Return on investments, net on the Consolidated Statements of Activities. The primary unobservable inputs used in the fair value measurement of the perpetual trust assets are the underlying securities held by the trust.

The University reports charitable lead trust assets by discounting future cash flows using current market rates at the measurement date, matched to the payment period of the agreement. The initially contributed assets are categorized as Level 3, and reported as Investments, at fair value on the Consolidated Statements of Financial Position and as Contributions on the Consolidated Statements of Activities. Subsequent valuation follows this same approach with changes in fair value reported as an adjustment to Investments, at fair value on the Consolidated Statements of Financial Position and Return on investments, net on the Consolidated Statements of Activities. The primary unobservable input used in the fair value measurement of the charitable lead trust assets is the discount rate.

Income Taxes

The University is a tax-exempt organization under Section 501(c)(3) of the Internal Revenue Code. Most of its activities and income are related to its exempt purposes and are exempt from federal and state income taxes. None of its activities and income is subject to Pennsylvania income tax. Unrelated activities and income are subject to both city and federal "Unrelated Business Income Tax."

The Tax Cuts and Jobs Act (the "Act"), enacted on December 22, 2017, impacts the University in several ways, including the addition of excise taxes on executive compensation and net investment income, as well as new rules for calculating unrelated business taxable income. The University records an estimate for related tax expense based on currently available regulatory guidance of the Act. Additionally, The University has made provisions for deferred taxes, representing future excise tax payable on unrealized gains in excess of the tax basis of investments. As of June 30, 2024 and 2023, a liability of $75,573,000 and $63,764,000, respectively, was reported in Accrued expense and other liabilities on the Consolidated Statements of Financial Position and Return on investments, net of amounts classified as operating revenue on the Consolidated Statements of Activities.

The University regularly evaluates its tax position and does not believe it has any uncertain tax positions that require disclosure or adjustment to the consolidated financial statements.

Tuition and Fees

Tuition and fees includes tuition, room and board, and other student fees which are recognized as revenue over time during the fiscal year in which the related academic services are rendered. Tuition and fees received in advance of services to be rendered are reported as Deferred income on the Consolidated Statements of Financial Position. The University maintains a policy of offering qualified undergraduate applicants admission to the University without regard to financial circumstance, as well as meeting in full the demonstrated financial need of those admitted. Tuition and fees have been reduced by certain grants and scholarships in the amount of $446,713,000 and $401,396,000 in 2024 and 2023, respectively.

Sponsored Programs

Sponsored programs includes revenue from exchange and conditional non-exchange agreements with governments, foundations and private sources, generally for research activities. Revenue from exchange agreements is generally recognized at a point in time when performance obligations are met, and revenue from conditional non-exchange agreements is generally recognized as the related costs are incurred. Non-exchange agreements are considered conditional if the terms of the agreement include both a right of return/release of assets received/promised and a barrier. These agreements become unconditional as barriers are met. At June 30, 2024, the University has unrecorded conditional agreements of $2,287,077,000. In 2024 and 2023, sponsored programs revenue earned from governmental sources totaled $1,057,875,000 and $979,174,000, respectively. Indirect costs recovered on federally-sponsored programs are generally based on predetermined reimbursement rates which are stated as a percentage and distributed based on the modified total direct costs incurred. The University negotiates its federal indirect rates with its cognizant federal agency. Indirect costs recovered on all other grants and contracts are based on rates negotiated with the respective sponsors. Funds received for sponsored research activity are subject to audit. Based upon information currently available, management believes that any liability resulting from such audits will not materially affect the financial position or operations of the University.

Contributions

Contributions are revenues from unconditional non-exchange agreements with private sources and foundations. Contributions are recognized in the period received and reported as increases in the appropriate net asset category based on the presence or absence of donor-imposed restrictions. Non-exchange agreements are considered conditional if the terms of the agreement include both a right of return/release of assets received/promised and a barrier. These agreements become unconditional as barriers are met. Contributions and donor support without donor restrictions also includes net assets released as a result of corresponding expenditures which met donor-imposed restrictions. Contributions designated for the acquisition of long-lived assets and long-term investment are reported in Nonoperating activities.

The University reports unconditional pledges at fair value by discounting future cash flows using current market rates at the measurement date, ranging from 5.06% to 5.25%, matched to the payment period of the agreement, and accordingly categorizes these assets as Level 3. The primary unobservable input used in the fair value measurement of the University's Contributions receivable is the discount rate. Changes in the fair value of the University's Contributions receivable due to fluctuations in the discount rate are reported as Contribution revenue on the Consolidated Statements of Activities.

Net Patient Service Revenue

Net patient service revenue is derived from contracts with patients of UPHS in which its performance obligation is to provide health care services. Net patient service revenue is recorded over time during the period these performance obligations are satisfied and at the determined transaction price, which represents the estimated net realizable amounts due from patients, third-party payers and others for health care services rendered. Estimated net realizable amounts represent amounts due, net of implicit and explicit price concessions. Implicit price concessions are based on management's assessment of expected net collections considering economic conditions, historical experience, trends in health care coverage and other collection indicators. After satisfaction of amounts due from insurance and reasonable efforts to collect from patients have been exhausted, UPHS follows established guidelines for placing certain past-due patient balances with collection agencies, subject to terms of certain restrictions on collection efforts as determined by UPHS. Patient receivables are written off after collection efforts have been followed in accordance with UPHS' policy. Certain revenue received from third-party payers is subject to audit and retroactive adjustment. Any changes in estimates under these contracts are recorded in operations currently.

Use of Estimates

The preparation of financial statements in conformity with U.S. GAAP requires management to make estimates and assumptions that affect the reported amounts of assets and liabilities and disclosure of contingent assets and liabilities at the date of the financial statements and the reported amounts of revenue and expenses during the reporting period. Actual results could differ from those estimates.

Recent Authoritative Pronouncements

Periodically, the FASB issues updates to the Accounting Standards Codification (ASC) which impacts the University's financial reporting and related disclosures. The paragraph that follows summarizes a relevant update.

In June 2016, the FASB issued a standard entitled Financial Instruments - Credit Losses: Measurement of Credit Losses on Financial Instruments. This standard replaces the incurred loss methodology with an expected loss methodology referred to as the current expected credit loss ("CECL") methodology. CECL requires an estimate of credit losses for the remaining estimated life of the financial asset using historical experience, current conditions, and reasonable and supportable forecasts and generally applies to financial assets measured at amortized cost, including trade receivables and loan receivables. Financial assets measured at amortized cost must be presented at the net amount expected to be collected using an allowance for credit losses. The University adopted this standard for fiscal year 2024 using a modified retrospective basis. The adoption of this standard did not materially impact the University's results of operations or financial position.

In March 2020, January 2021, April 2022 and December 2022 the FASB issued standard updates on Reference Rate Reform in response to the planned discontinuation of the London Inter-Bank Offered Rate (LIBOR), a key interbank reference rate. The standard provides accounting relief to contract modifications and optional expedients for applying U.S. GAAP to contracts and other transactions that reference LIBOR or other reference rates that are expected to be discontinued because of rate reform. The University has determined that the standard will have no material impact on the University's results of operations or financial position.

2. University of Pennsylvania Health System - Summarized Financial and Related Information

The Trustees formed Penn Medicine, the governance structure which oversees the activities of UPHS and the University of Pennsylvania Perelman School of Medicine (PSOM) in order to operate, oversee and coordinate its academic, research and clinical missions.

UPHS is comprised of the following operating entities: Clinical Practices of the University of Pennsylvania; Clinical Care Associates; Hospital of the University of Pennsylvania; Penn Presbyterian Medical Center; Pennsylvania Hospital of the University of Pennsylvania Health System; Chester County Hospital and Health System; Lancaster General Health (LGH); Wissahickon Hospice of the University of Pennsylvania Health System; Princeton HealthCare System (PHCS), and Franklin Casualty Insurance Company, a wholly owned Risk Retention Group, and Quaker Insurance Company Ltd., a wholly owned offshore captive insurance company (collectively referred to as RRG/Captive).

In January 2023, UPHS, Tandigm Health, LLC and Independence Health Group, Inc. executed a Contribution, Exchange, and Warrant Purchases Agreement, whereby UPHS contributed $50,000,000 in cash and in-kind assets in exchange for 26.7% interest in Class B Units in Tandigm Health, LLC and optional warrants. UPHS executed an 18-year participation agreement whereby UPHS primary care physicians will receive population health support from Tandigm and participate in value-based opportunities from Tandigm. The investment in Tandigm is accounted for using the equity method and is reported in Other assets on the Consolidated Statements of Financial Position. Net income or loss from the partnership is reported in Other income on the Consolidated Statements of Activities.

In January 2023, UPHS entered into an agreement with a local university to sell the Pennsylvania College of Health Sciences (PACHS). PACHS assets and liabilities of $43,369,000 and $19,046,000 were classified as for as held for sale within Other assets and Accrued Expenses and other liabilities, respectively, on the Consolidated Statements of Financial Position for the fiscal year ended June 30, 2023. An impairment loss of $14,573,000 was reported in Other operating expense on the Consolidated Statements of Activities for the fiscal year ended June 30, 2023. The sale was finalized in January 2024, resulting in an additional loss of $4,388,000 reported in Nonoperating activities on the Consolidated Statements of Activities for the year ended June 30, 2024.

Throughout the year, certain transactions (primarily billings for allocations of common costs, physicians' salaries and benefits, certain purchased services and support for PSOM) are conducted between UPHS and the University. Nonoperating, net, as shown below, includes transfers from UPHS to the University of $32,882,000 and $150,374,000 in 2024 and 2023, respectively, to further the research and educational activities of PSOM, and $10,460,000 and $11,546,000 in 2024 and 2023, respectively, for other activities. In addition, UPHS recognized operating expenses of $20,717,000 in 2023 to support academic operating activities in the clinical departments of PSOM.

The effect of all these transactions is included in the following summarized financial information of UPHS as of and for the years ended June 30, 2024 and 2023 (in thousands):

	2024	2023
Net patient service revenue	$ 9,476,064	$ 8,727,443
Other revenue and support	1,423,016	1,247,254
Total expenses	(10,620,592)	(9,736,524)
Excess of revenue over expenses from operations	278,488	238,173
Nonoperating, net	98,078	102,549
INCREASE IN NET ASSETS	**$ 376,566**	**$ 340,722**
Total current assets	$ 2,888,805	$ 2,412,873
Assets whose use is limited:		
Held by trustees	194,157	168,328
RRG/ Captive	198,270	201,327
Donor restricted and other	883,041	850,670
Designated	4,143,174	3,871,739
Property and equipment, net	5,947,846	5,915,043
Investments and other assets	914,107	909,654
TOTAL ASSETS	**$ 15,169,400**	**$ 14,329,634**
Total current liabilities	$ 1,604,344	$ 1,357,052
Long-term debt, net of current portion	2,387,907	2,464,585
Other liabilities	1,843,570	1,550,984
TOTAL LIABILITIES	**$ 5,835,821**	**$ 5,372,621**
Net assets		
Without donor restrictions	$ 8,443,852	$ 8,094,975
With donor restrictions	889,727	862,038
TOTAL NET ASSETS	**$ 9,333,579**	**$ 8,957,013**
TOTAL LIABILITIES AND NET ASSETS	**$ 15,169,400**	**$ 14,329,634**

On August 14, 2024, the University of Pennsylvania Health System (the "Health System") announced that the Trustees of the University of Pennsylvania had signed a definitive affiliation agreement (the "Affiliation Agreement") with Doylestown Health Foundation (the "Foundation"), Doylestown Hospital (the "Hospital"), and VIA Affiliates d/b/a Doylestown Health Physicians ("DH Physicians" and, together with the Foundation and the Hospital, "Doylestown Health"), pursuant to which Doylestown Health is expected to become a clinical component of Penn Medicine through a member substitution in which the University will become the sole member of the Hospital, and the Hospital will become the sole member of the Foundation and DH Physicians. The agreement does not require the payment by the Health System of any financial consideration or other financial undertakings prior to closing. Consummation of the affiliation remains subject to various regulatory approvals, and, accordingly, there is no assurance as to whether or when the transaction will finally occur. Should the affiliation be consummated, the Health System agrees to assume ultimate financial responsibility for the outstanding debt and pension obligations of Doylestown Health. Each of the Foundation, the Hospital, and DH Physicians is a Pennsylvania nonprofit corporation and organization described under Section 501(c)(3) of the Internal Revenue Code, as amended.

Net Patient Service Revenue

Net Patient Service Revenue (NPSR) for the years ended June 30, 2024 and 2023 is derived from the following payers:

	2024	2023
Medicare (including Managed Medicare)	35%	34%
Medicaid (including Managed Medicaid)	12%	12%
Managed care	34%	33%
Independence Blue Cross (IBC)	15%	16%
Commercial	3%	4%
Self pay	1%	1%
	100%	100%

Third-party payers

UPHS has agreements with the following third-party payers that provide for payments at amounts that differ from its established rates:

Medicare and Medicaid

Inpatient acute care services and outpatient services rendered to Medicare program beneficiaries are paid at prospectively determined rates. These rates vary according to a patient classification system that is based on clinical, diagnostic, and other factors. Inpatient psychiatric services and medical education costs related to Medicare beneficiaries are paid based on a cost reimbursement methodology. UPHS is reimbursed for cost reimbursable items at a tentative rate with final settlement determined after submission of annual cost reports by each hospital and audits thereof by the Medicare fiscal intermediary.

Inpatient and outpatient services rendered to Medicaid program beneficiaries are paid at prospectively determined rates. Additional amounts are allocated to each hospital for training residents and serving a disproportionate indigent population.

Laws and regulations governing the Medicare and Medicaid programs are extremely complex and subject to interpretation. As a result, there is at least a reasonable possibility that recorded estimates will change by a material amount in the near term.

Independence Blue Cross (IBC) and Commercial

During 2017, UPHS and IBC reached agreement on terms of a five-year agreement. Payments made for inpatient services provided to IBC traditional and managed care subscribers are effected on a per case rate basis for most services. Payment for outpatient services is principally based upon negotiated fee schedules. Hospital and physician rates also provide for annual inflationary increases. In addition, incentives are paid for high performance with regard to clinical outcomes and patient quality. On September 10, 2021, this agreement was extended from June 30, 2022 to June 30, 2025.

During 2015, UPHS and Aetna reached agreement on terms of a five-year agreement. A one-year bridge agreement was initiated effective July 1, 2020, and UPHS and Aetna subsequently extended this agreement through June 30, 2025. The new agreement consolidated all prior existing agreements across all UPHS regions and entities. Further, extensive new value-based payment models were layered on top of the existing fee-for-service framework.

UPHS also has reimbursement agreements with other commercial insurance carriers, health maintenance organizations and preferred provider organizations. The basis for reimbursement under these agreements includes prospectively determined rates per discharge, discounts from established charges and prospectively determined per diem rates.

Charity Care

UPHS provides services to patients who meet certain criteria under its charity care policy without charge or at amounts less than UPHS' established rates. Because UPHS does not pursue collections for these patients, such amounts have been excluded from NPSR. UPHS estimates the costs of providing charity care services based on data derived from a combination of UPHS' cost accounting system and the ratio of costs to charges. Of the Total expenses reported above by UPHS, an estimated $47,171,000 and $37,665,000 were incurred as a result of providing services to charity patients for the years ended June 30, 2024 and 2023, respectively.

Medical Professional Liability Claims

The University is insured for medical professional liability claims through the combination of the Medical Care Availability and Reduction of Error Fund (Mcare), various commercial insurance companies and risk retention programs.

Mcare levies health care provider surcharges, as a percentage of the Pennsylvania Joint Underwriters Association rates for basic coverage, to pay claims and pay administrative expenses of Mcare participants. These surcharges are recognized as expenses in the period incurred. Mcare operates on a pay-as-you-go basis and no provision has been made for any future Mcare assessments in the accompanying financial statements, as the University's portion of the unfunded Mcare liability cannot be estimated.

Anticipated insurance recoveries and estimated liabilities for medical malpractice claims or similar contingent liabilities are presented separately on the Consolidated Statements of Financial Position in Accounts receivable, net and Accrued expenses and other liabilities, respectively. The University accrues for estimated risks arising from both asserted and unasserted medical professional liability claims. The estimate of the gross liability and corresponding receivable for unasserted claims arising from unreported incidents is based on analysis of historical claims data by an independent actuary, which is recorded utilizing a 2.25% discount rate as of June 30, 2024 and 2023. The gross liability recorded under this program is $891,479,000 and $866,118,000 at June 30, 2024 and 2023, respectively, with a corresponding receivable of $204,156,000 and $200,145,000 at June 30, 2024 and 2023, respectively.

3. Accounts Receivable

Accounts receivable are reported at their net realizable value. The major components of receivables, net of expected credit losses of $50,693,000 and $34,878,000 at June 30, 2024 and 2023, respectively, are as follows (in thousands):

	2024	2023
Patient	$ 1,223,255	$ 1,028,058
Intellectual property	39,287	71,054
Sponsored research	195,195	208,431
Malpractice	204,156	200,145
Trade	57,783	62,740
Student	26,378	25,383
Other	218,211	220,653
TOTAL ACCOUNTS RECEIVABLE, NET	**$ 1,964,265**	**$ 1,816,464**

4. Loans Receivable

Loans receivable, and related allowances for expected credit losses, consist of the following at June 30, 2024 and 2023 (in thousands):

2024

	Receivable	Allowance	Net
Student Loans:			
Federally-sponsored	$ 25,171		$ 25,171
Other	10,294	$ 2,688	7,606
Total Student loans	$ 35,465	$ 2,688	$ 32,777
Other	16,530	589	15,941
TOTAL	**$ 51,995**	**$ 3,277**	**$ 48,718**

2023

	Receivable	Allowance	Net
Student Loans:			
Federally-sponsored	$ 28,472		$ 28,472
Other	10,748	$ 2,434	8,314
Total Student loans	$ 39,220	$ 2,434	$ 36,786
Other	16,710	474	16,236
TOTAL	**$ 55,930**	**$ 2,908**	**$ 53,022**

Loans receivable primarily consists of student loans. Student loans include federally-sponsored student loans and donor-restricted student loans with mandated interest rates and repayment terms. The federally-sponsored student loans represent amounts due from current and former students under various Federal Government funded loan programs offered to graduate and undergraduate students. Loans disbursed under these programs are able to be assigned to the Federal Government upon default by the borrower; therefore, no related allowance is considered necessary. Funding received under these programs is ultimately refundable to the Federal Government in the event the University no longer participates and accordingly is reported as a liability in Federal student loan advances in the Consolidated Statements of Financial Position. Determination of the fair value of student loans receivable is not practicable.

Loans receivable are reported at their net realizable value. The University regularly assesses the adequacy of the allowances for expected credit losses of its loans by performing ongoing evaluations, including such factors as aging, differing economic risks associated with each loan category, financial condition of specific borrowers, economic environment in which the borrowers operate, level of delinquent loans, value of collateral and existence of guarantees or indemnifications.

5. Contributions Receivable

A summary of contributions receivable at June 30, 2024 and 2023, is as follows (in thousands):

	2024	2023
Unconditional promises expected to be collected in:		
Less than one year	$ 144,796	$ 166,125
One year to five years	216,218	265,356
Over five years	81,676	101,064
	442,690	532,545
Less: Discount	(49,508)	(59,402)
Less: Allowances for doubtful amounts	(41,416)	(25,730)
TOTAL CONTRIBUTIONS RECEIVABLE, NET	**$ 351,766**	**$ 447,413**

At June 30, 2024 and 2023, the University has outstanding unrecorded conditional promises to give, including non-legally binding bequests, of $523,158,000 and $542,287,000, respectively. When conditional promises to give become unconditional or non-legally binding bequests cash payments are received, they are recorded and are generally restricted for operations, endowment and capital projects as stipulated by the donors.

6. Investments, At Fair Value

A summary of investments, including the AIF, as of June 30, 2024 and 2023, categorized in accordance with the fair value hierarchy, is as follows (in thousands):

2024	Level 1	Level 2	Level 3	Investments at NAV	Total
Short-term	$ 1,073,755				$ 1,073,755
Public equity	1,016,961			$ 4,545,577	5,562,538
Debt:					
US treasuries	1,281,471	$ 2,951			1,284,422
Corporate bonds	5,031	14,628			19,659
Total Debt	1,286,502	17,579			1,304,081
Split-interest agreements	89,003		$ 402,723		491,726
Absolute return				4,698,948	4,698,948
Real assets	69	59		2,804,981	2,805,109
Private equity			64,476	8,419,307	8,483,783
Derivative instruments		1,348			1,348
Other			2,537		2,537
TOTAL INVESTMENTS, AT FAIR VALUE	**$ 3,466,290**	**$ 18,986**	**$ 469,736**	**$ 20,468,813**	**$ 24,423,825**

2023	Level 1	Level 2	Level 3	Investments at NAV	Total
Short-term	$ 980,619				$ 980,619
Public equity	955,039			$ 4,430,902	5,385,941
Debt:					
US treasuries	1,483,760	$ 3,173			1,486,933
Corporate bonds	34,782	14,545			49,327
Total Debt	1,518,542	17,718			1,536,260
Split-interest agreements	83,249		$ 366,820		450,069
Absolute return				4,275,853	4,275,853
Real assets	85	59		2,603,378	2,603,522
Private equity			23,080	7,829,756	7,852,836
Derivative instruments		2,784			2,784
Other			2,652		2,652
TOTAL INVESTMENTS, AT FAIR VALUE	**$ 3,537,534**	**$ 20,561**	**$ 392,552**	**$ 19,139,889**	**$ 23,090,536**

Included in Short-term investments is $12,313,000 and $15,196,000 of amounts held by trustees under indenture and escrow agreements at June 30, 2024 and 2023, respectively.

At June 30, 2024 and 2023, Short-term investments include $25,531,000 and $23,091,000, respectively, of outstanding receivables from trading activities. At June 30, 2024 and 2023, Short-term investments also include $19,084,000 and $27,333,000, respectively, of outstanding payables from trading activities.

Liabilities related to equity short positions of $668,420,000 and $957,869,000 at June 30, 2024 and 2023, respectively, are reported in Accrued expenses and other liabilities on the Consolidated Statements of Financial Position. These liabilities are valued using observable market data and are categorized as Level 1 based on quoted market prices in active markets.

Split-interest agreement investments included in Level 1 above are readily marketable assets invested by the University separately from the AIF where the University serves as trustee. These amounts include assets related to the Academic Component charitable gift annuities totaling $45,939,000 and $42,477,000 at June 30, 2024 and 2023, respectively. Included in these split-interest agreement investments are amounts held to meet legally mandated annuity reserves of $25,200,000 and $24,306,000 as of June 30, 2024 and 2023, respectively, as required by the laws of the following states where certain individual donors reside: California, Maryland, New Jersey and New York. Level 3 split-interest agreement investments are managed and invested outside of the University by external trustees.

A summary of Level 3 assets included in split-interest agreement investments, where the University is not trustee, measured at fair value, as of June 30, 2024 and 2023 is as follows (in thousands):

	2024	2023
Charitable remainder trusts	$ 16,900	$ 16,553
Charitable lead trusts	3,058	4,119
Perpetual trusts	382,765	346,148
TOTAL	**$ 402,723**	**$ 366,820**

Changes to the reported amounts of split-interest agreement investments measured at fair value using unobservable (Level 3) inputs as of June 30, 2024 and 2023 are as follows (in thousands):

2024	Charitable Remainder Trusts	Charitable Lead Trusts	Perpetual Trusts	Total
June 30, 2023	$ 16,553	$ 4,119	$ 346,148	$ 366,820
Net realized gains (losses)			6,950	6,950
Net unrealized gains (losses)	347	(1,053)	28,240	27,534
Acquisitions			3,673	3,673
Liquidations		(8)	(2,246)	(2,254)
June 30, 2024	**$ 16,900**	**$ 3,058**	**$ 382,765**	**$ 402,723**

2023	Charitable Remainder Trusts	Charitable Lead Trusts	Perpetual Trusts	Total
June 30, 2022	$ 18,197	$ 4,266	$ 328,349	$ 350,812
Net realized gains (losses)			(2,380)	(2,380)
Net unrealized gains (losses)	(1,276)	(147)	22,206	20,783
Acquisitions			3,630	3,630
Liquidations	(368)		(5,657)	(6,025)
June 30, 2023	**$ 16,553**	**$ 4,119**	**$ 346,148**	**$ 366,820**

The following tables set forth the fair value, related gains (losses) and notional amounts of the University's derivative instruments by contract type as of June 30, 2024 and 2023 (in thousands):

2024	Notional Amount	Gross Derivative Assets	Gross Derivative Liabilities	Derivative Gains (Losses)
Foreign currency contracts	$ 247,853	$ 44	$ 17,926	$ (40,757)
Options contracts	49,471	1,304	162	(660)
TOTAL	**$ 297,324**	**$ 1,348**	**$ 18,088**	**$ (41,417)**

2023	Notional Amount	Gross Derivative Assets	Gross Derivative Liabilities	Derivative Gains (Losses)
Foreign currency contracts	$ 261,012		$ 25,186	$ (15,362)
Futures contracts				(9,497)
Options contracts	149,044	$ 2,784	648	453
TOTAL	**$ 410,056**	**$ 2,784**	**$ 25,834**	**$ (24,406)**

The notional amount is representative of the volume and activity of the respective derivative type during the years ended June 30, 2024 and 2023.

Gross derivative assets and liabilities are shown on the Consolidated Statements of Financial Position in Investments, at fair value and Accrued expenses and other liabilities, respectively. Derivative gains (losses) are shown in Return on investments, net on the Consolidated Statements of Activities, in the appropriate net asset classification.

Details on the fair value, remaining estimated life, outstanding commitments, current redemption terms and restrictions by strategy and type of investment (excluding Split-interest agreements, Derivative instruments, and Other investments) are provided below (in thousands):

Strategy	Fair Value at June 30, 2024	Fair Value at June 30, 2023	Outstanding Commitments	Redemption Terms	Redemption Restrictions
Short-term	$ 1,073,755	$ 980,619		Daily	None
Public equity:					
Managed accounts	744,263	729,498		Daily and semi-annually with varying notice periods	None
Mutual funds	272,700	225,542		Daily	None
Private funds (1)	4,545,575	4,430,901	$ 133,271	Weekly to annually with varying notice periods	Lock-up provisions ranging from 0 to 5 years and side pocket investments (2)
Total Public equity	**5,562,538**	**5,385,941**	**133,271**		
Debt:					
Managed accounts	1,304,081	1,536,260		Daily	None
Total Debt	**1,304,081**	**1,536,260**			
Absolute return	4,698,948	4,275,853	313,039	Range from monthly to annually and close-ended funds not available for redemption	Lock-up provisions ranging from 0 to 5 years with earlier redemptions subject to redemption fee, close-ended funds not available for redemption, and side pocket investments (2)
Private equity	8,483,783	7,852,836	3,579,913	Close-ended funds not available for redemption	Close-ended funds not available for redemption
Real assets:					
Private funds (1)	2,805,109	2,603,522	984,543	Close-ended funds not available for redemption	Close-ended funds not available for redemption
TOTAL	**$ 23,928,214**	**$ 22,635,031**	**$ 5,010,766**		

(1) Private funds consist of close-ended and open-ended funds generally in the form of limited partnerships. Close-ended funds have varying remaining fund terms between 1 to 15 years.

(2) Side pocket investments represent investments designated by a manager that are not available for liquidity in an otherwise liquid fund vehicle.

Invested in the AIF with an aggregate fair value of $216,607,000 and $211,464,000 at June 30, 2024 and 2023, respectively, is a perpetual trust managed by an external trustee who has delegated investment decisions to the University. The University invests the assets of this trust in accordance with its endowment policy.

The University has made investments in various long-lived partnerships and, in other cases, has entered into contractual agreements that may limit its ability to initiate redemptions due to notice periods, lock-ups and gates. The University has also made commitments to various limited partnerships. The University expects these funds to be called over the next 5 years. The total amount of unfunded commitments is $5,010,766,000 which represents 22.9% of the AIF value as of June 30, 2024.

A summary of the University's total investment return, net of external and direct internal investment expenses, for the years ended June 30, 2024 and 2023 is presented below (in thousands):

	2024	2023
AIF investment income	$ 121,399	$ 94,743
AIF realized and unrealized gains (losses)	1,327,016	174,201
Total return on AIF	1,448,415	268,944
Other investment gains (losses)	222,740	95,012
TOTAL RETURN ON INVESTMENTS, NET	**$ 1,671,155**	**$ 363,956**

7. Endowment

The composition and changes to the amount of the University's endowment at June 30, 2024 are as follows (in thousands):

	Without Donor Restrictions	With Donor Restrictions	Total
Donor-restricted endowment funds		$ 10,345,624	$ 10,345,624
Quasi-endowment funds	$ 12,002,324		12,002,324
JUNE 30, 2024	**$ 12,002,324**	**$ 10,345,624**	**$ 22,347,948**

	Without Donor Restrictions	With Donor Restrictions	Total
Net assets, June 30, 2023	$ 11,044,431	$ 9,918,510	$ 20,962,941
Investment return	773,383	675,954	1,449,337
New gifts	2,527	214,250	216,777
Allocation of endowment assets for expenditure	(1,063,415)		(1,063,415)
Other investment allocation	(8,638)		(8,638)
Transfers to create board designated funds	797,511		797,511
Donor-imposed income reinvestments		50,472	50,472
Other transfers	11,137	(68,174)	(57,037)
Released from restriction	445,388	(445,388)	-
NET ASSETS, JUNE 30, 2024	**$ 12,002,324**	**$ 10,345,624**	**$ 22,347,948**

The composition and changes to the amount of the University's endowment at June 30, 2023 are as follows (in thousands):

	Without Donor Restrictions	With Donor Restrictions	Total
Donor-restricted endowment funds		$ 9,918,510	$ 9,918,510
Quasi-endowment funds	$ 11,044,431		11,044,431
JUNE 30, 2023	**$ 11,044,431**	**$ 9,918,510**	**$ 20,962,941**

	Without Donor Restrictions	With Donor Restrictions	Total
Net assets, June 30, 2022	$ 10,672,892	$ 10,051,459	$ 20,724,351
Investment return	120,222	130,346	250,568
New gifts	18,442	201,429	219,871
Allocation of endowment assets for expenditure	(975,606)		(975,606)
Other investment allocation	(8,730)		(8,730)
Transfers to create board designated funds	721,087		721,087
Donor-imposed income reinvestments		31,660	31,660
Other transfers	32,377	(32,637)	(260)
Released from restriction	463,747	(463,747)	-
NET ASSETS, JUNE 30, 2023	**$ 11,044,431**	**$ 9,918,510**	**$ 20,962,941**

At June 30, 2024 and 2023, the aggregate amount of funds reported in Net assets with donor restrictions for which the fair value was below historic value was $8,157,000 and $12,456,000, respectively.

8. Property, Plant and Equipment, Net

The components of PPE at June 30, 2024 and 2023 are as follows (in thousands):

	Estimated Useful Life in years	2024	2023
Land and land improvements	N/A to 20	$ 448,388	$ 450,931
Buildings and fixed equipment	5 to 50	14,116,732	13,526,265
Moveable equipment and other	4 to 20	2,603,148	2,550,102
Construction-in-progress		1,047,898	690,888
		18,216,166	17,218,186
Less: Accumulated depreciation		(8,363,015)	(7,755,128)
TOTAL PROPERTY, PLANT AND EQUIPMENT, NET		**$ 9,853,151**	**$ 9,463,058**

The University recorded $656,709,000 and $648,551,000 of depreciation expense for the years ended June 30, 2024 and 2023, respectively.

The University capitalized $10,757,000 and $14,528,000 of interest costs for the years ended June 30, 2024 and 2023, respectively.

9. Split-Interest Agreements

Changes in the value of assets, liabilities and net assets pursuant to split-interest agreements as of June 30, 2024 and 2023 are as follows (in thousands):

2024		Assets		Liabilities		Net Assets
June 30, 2023	$	450,069	$	(43,425)	$	406,644
New contributions		7,298		(4,774)		2,524
Investment income		2,061		(1,757)		304
Realized and unrealized gain, net		41,570				41,570
Payments and settlements		(9,272)		8,885		(387)
Actuarial adjustment				(3,484)		(3,484)
NET CHANGE		**41,657**		**(1,130)**		**40,527**
June 30, 2024	$	491,726	$	(44,555)	$	447,171

2023		Assets		Liabilities		Net Assets
June 30, 2022	$	435,447	$	(46,408)	$	389,039
New contributions		5,462		(2,513)		2,949
Investment income		1,645		(1,169)		476
Realized and unrealized gain, net		22,611				22,611
Payments and settlements		(15,096)		6,666		(8,430)
Actuarial adjustment				(1)		(1)
NET CHANGE		**14,622**		**2,983**		**17,605**
June 30, 2023	$	450,069	$	(43,425)	$	406,644

10. Contingencies, Guarantees, and Commitments

The University offers various loan programs for students and families to pay tuition, fees and other costs. Certain loans issued by private lending institutions are guaranteed by the University totaling $7,769,000 and $23,557,000 at June 30, 2024 and 2023, respectively. Upon default by the borrower, the University is required to pay all or a portion of the outstanding loan balance. The University recognized a liability totaling $2,306,000 and $3,209,000 at June 30, 2024 and 2023, respectively, to cover both the fair value of the guarantee and any expected defaults in the portfolio of guaranteed loans.

Various lawsuits, claims and other contingent liabilities arise in the ordinary course of the University's education and health care activities, including specific matters described below. While it is not possible to determine the ultimate outcome of any such actions, the University believes that the outcome will not have a material adverse effect on the University's financial position.

UPHS is involved in a legal matter whereby a jury awarded $182,738,000 to a plaintiff in a medical malpractice case against UPHS. UPHS is appealing the verdict.

The University is currently involved in various projects that have resulted in capital and property acquisition commitments from the University. As of June 30, 2024, approximately $503,945,000 has been committed by the University.

11. Pension and Other Postretirement Benefits Costs

Retirement benefits are principally provided to employees through contributory defined contribution plans. The Academic Component's policy with respect to its contribution is to provide up to 10% of eligible employees' salaries, while the UPHS contribution can be up to 6.5%. The University's contributions to these plans amounted to $359,933,000 and $315,728,000 as of June 30, 2024 and 2023, respectively.

The University also has non-contributory defined benefit pension plans. Benefits under the plans generally are based on the employee's years of service and compensation during the years preceding retirement. Contributions to the plans are made in amounts necessary to at least satisfy the minimum required contributions as specified in the Internal Revenue Service Code and related regulations. The Academic Component's plan was frozen to new full-time entrants effective July 1, 2000 and part-time entrants effective July 1, 2018. UPHS' primary plan was frozen to new entrants effective July 1, 2010; the benefit accruals for all participants of the LGH and PHCS plans were frozen effective June 30, 2013 and December 31, 2011, respectively. On December 31, 2022, the LGH and PHCS plans were merged into the UPHS plan with no changes to existing benefits and coverages.

The University also has faculty retirement incentive plans which are included in Other retirement programs shown below. The net liability under these plans is $22,409,000 and $20,683,000 as of June 30, 2024 and 2023, respectively.

Additionally, the University provides certain healthcare and life insurance benefits (OPEB) for retired employees. Only a limited number of employees may become eligible for such benefits if they reach retirement age while working for the University. These and similar benefits for active and certain retired employees are provided through insurance contracts.

The University uses a measurement date of June 30 for its defined benefit pension and OPEB plans.

Change in Plan Assets/Obligation and Funded Status

The funded status of the plans is measured as the difference between the plan assets at fair value and the projected benefit obligation (PBO) for Pension Benefits or accumulated postretirement benefit obligation (APBO) for Other Postretirement Benefits. The resulting net liability is recorded in Accrued retirement benefits on the Statements of Financial Position. The following shows changes in the benefit obligation, plan assets and funded status for the years ended June 30, 2024 and 2023 (in thousands):

2024		Pension Benefits		Other Postretirement Benefits		Total
CHANGE IN BENEFIT OBLIGATION:						
Benefit obligation, beginning of year (PBO/APBO)	$	3,135,524	$	834,848	$	3,970,372
Service cost		43,993		26,152		70,145
Interest cost		167,447		45,734		213,181
Plan participants' contributions		142		12,484		12,626
Net actuarial (gain)/loss		6,106		(4,982)		1,124
Benefits paid		(137,035)		(57,461)		(194,496)
Benefit obligation, end of year (PBO/APBO)	$	3,216,177	$	856,775	$	4,072,952
CHANGE IN PLAN ASSETS:						
Fair value of plan assets, beginning of year	$	3,117,393	$	755,930	$	3,873,323
University contributions		19,060		32,629		51,689
Plan participants' contributions		142		12,484		12,626
Actual return on plan assets		(37,114)		67,674		30,560
Benefits paid		(137,035)		(57,461)		(194,496)
Fair value of plan assets, end of year	$	2,962,446	$	811,256	$	3,773,702
FUNDED STATUS, END OF YEAR	$	253,731	$	45,519	$	299,250
Other retirement programs						170,720
						469,970
Plan with fair value of plan assets in excess of PBO/APBO*						76,946
ACCRUED RETIREMENT BENEFITS					**$**	**546,916**

** Included in Other assets on the Consolidated Statements of Financial Position*

2023		Pension Benefits		Other Postretirement Benefits		Total
CHANGE IN BENEFIT OBLIGATION:						
Benefit obligation, beginning of year (PBO/APBO)	$	3,380,668	$	842,820	$	4,223,488
Service cost		51,435		26,954		78,389
Interest cost		160,960		41,039		201,999
Plan participants' contributions		158		10,986		11,144
Net actuarial (gain)/loss		(330,086)		(51,873)		(381,959)
Benefits paid		(127,611)		(35,078)		(162,689)
Benefit obligation, end of year (PBO/APBO)	$	3,135,524	$	834,848	$	3,970,372
CHANGE IN PLAN ASSETS:						
Fair value of plan assets, beginning of year	$	3,238,768	$	712,371	$	3,951,139
University contributions		17,089		31,852		48,941
Plan participants' contributions		158		10,986		11,144
Actual return on plan assets		(11,011)		35,799		24,788
Benefits paid		(127,611)		(35,078)		(162,689)
Fair value of plan assets, end of year	$	3,117,393	$	755,930	$	3,873,323
FUNDED STATUS, END OF YEAR	$	18,131	$	78,918	$	97,049
Other retirement programs						145,328
						242,377
Plan with fair value of plan assets in excess of PBO/APBO*						48,292
ACCRUED RETIREMENT BENEFITS					**$**	**290,669**

** Included in Other assets on the Consolidated Statements of Financial Position*

The Accumulated Benefit Obligation for the Pension Benefits was $3,010,626,000 and $2,952,298,000 at June 30, 2024 and 2023, respectively.

For the year ended June 30, 2024, the primary driver of the net actuarial loss in the Benefit Obligations for Pension Benefits was participant demographic changes, and the primary driver of the net actuarial gain in Benefit Obligations for Other Postretirement Benefits was an increase in the weighted average discount rates from 5.59% to 5.73%. For the year ended June 30, 2023, the primary drivers of the net actuarial gains in the Benefit Obligations were increases in the weighted average discount rates from 4.74% to 5.48% for Pension Benefits and from 4.96% to 5.59% for Other Postretirement Benefits.

Net Periodic Benefit Cost

The components of net periodic benefit cost for pension benefits and other postretirement benefits are detailed below (in thousands). In the Consolidated Statements of Activities, service cost is reported as Compensation and benefits while the remaining components of net periodic benefit cost are reported as Pension, OPEB and other, net.

2024		Pension Benefits		Other Postretirement Benefits		Total
Service cost	$	43,993	$	26,152	$	70,145
Interest cost		167,447		45,734		213,181
Expected return on plan assets		(190,489)		(60,393)		(250,882)
Amortization of:						
Net prior service cost/(credit)				(325)		(325)
Net losses		618		(7,720)		(7,102)
NET PERIODIC BENEFIT COST	**$**	**21,569**	**$**	**3,448**	**$**	**25,017**

2023		Pension Benefits		Other Postretirement Benefits		Total
Service cost	$	51,435	$	26,954	$	78,389
Interest cost		160,960		41,039		201,999
Expected return on plan assets		(183,109)		(53,386)		(236,495)
Amortization of:						
Net prior service cost/(credit)				(325)		(325)
Net losses		619		(6,219)		(5,600)
NET PERIODIC BENEFIT COST	**$**	**29,905**	**$**	**8,063**	**$**	**37,968**

Net Assets Without Donor Restrictions

The University recorded the following year-end valuation adjustments to its Pension and Other Postretirement Benefit Plans in Pension, OPEB and other, net in the Consolidated Statements of Activities (in thousands):

2024		Pension Benefits		Other Postretirement Benefits		Total
NET ASSETS WITHOUT DONOR RESTRICTIONS:						
Net actuarial (gain)/loss	$	218,321	$	(204,670)	$	13,651
Net prior service cost/(credit)				(997)		(997)
Total	$	218,321	$	(205,667)	$	12,654
ADJUSTMENT TO NET ASSETS WITHOUT DONOR RESTRICTIONS (GAIN)/LOSS	**$**	**233,090**	**$**	**(4,084)**	**$**	**229,006**

2023		Pension Benefits		Other Postretirement Benefits		Total
NET ASSETS WITHOUT DONOR RESTRICTIONS:						
Net actuarial (gain)/loss	$	(14,769)	$	(200,261)	$	(215,030)
Net prior service cost/(credit)				(1,322)		(1,322)
Total	$	(14,769)	$	(201,583)	$	(216,352)
ADJUSTMENT TO NET ASSETS WITHOUT DONOR RESTRICTIONS (GAIN)/LOSS	**$**	**(136,584)**	**$**	**(27,656)**	**$**	**(164,240)**

Actuarial Assumptions

The expected long-term rate of return on plan assets is management's best estimate of the average investment return expected to be received on the assets invested in the plan over the benefit period. The expected long-term rate of return on plan assets has been established by considering historical and future expected returns of the asset classes invested in by the pension trust, and the allocation strategy currently in place among those classes.

The discount rates are selected from a theoretical portfolio of high-quality corporate bonds that matches the plan's projected benefit payments. A single interest rate is determined that results in a discounted value of the plan's projected benefit payments that equals the market value of the selected bond portfolio.

	Pension Benefits		Other Postretirement Benefits	
	2024	2023	2024	2023
WEIGHTED-AVERAGE ASSUMPTIONS USED TO DETERMINE BENEFIT OBLIGATIONS AT YEAR END				
Discount rate	5.60%	5.48%	5.73%	5.59%
Salary increase	3.18%	3.19%	N/A	N/A
WEIGHTED-AVERAGE ASSUMPTIONS USED TO DETERMINE NET PERIODIC BENEFIT COST				
Discount rate	5.47%	5.07%	5.59%	4.98%
Expected long-term return on plan assets	6.31%	6.85%	8.00%	7.50%
Salary increase	3.20%	3.19%	N/A	N/A
ASSUMED HEALTH CARE COST TREND RATES				
Initial trend rate	N/A	N/A	6.46%	5.95%
Ultimate trend rate	N/A	N/A	4.69%	4.69%
Fiscal year end that ultimate trend rate is reached	N/A	N/A	2048	2046

Expected Contributions

The University expects to contribute $35,674,000 and $32,075,000 for pension benefits and other postretirement benefits, respectively, during the fiscal year ending June 30, 2025.

Expected Benefits Payments (in thousands):

Expected benefit payments for the year ending:		Pension Benefits		Other Postretirement Benefits before Medicare Part D Subsidy		Medicare Part D Subsidy
June 30, 2025	$	166,512	$	35,980	$	39
June 30, 2026		174,595		37,986		43
June 30, 2027		182,479		40,300		47
June 30, 2028		190,588		42,421		50
June 30, 2029		198,800		44,528		52
June 30, 2030 to June 30, 2034		1,091,798		256,109		274

Plan Assets and Allocations

The principal investment objectives for the pension and other postretirement benefits plans are to ensure the availability of funds to pay pension benefits as they become due under a broad range of future economic scenarios, to maximize long-term investment returns with an acceptable level of risk based on the pension obligations, and to invest the pension trust in a diversified manner.

The University's Office of Investments is responsible for the day-to-day management of the majority of the investments of the pension and other postretirement benefits. The investments are made in accordance with policies set out by the Investment Board which has been appointed by the Trustees. The pension and other postretirement benefit investments are similar in nature to those investments discussed in Notes 1 and 6 – Investments, at Fair Value. However, the actual allocations to specific investments within each asset class may vary due to certain restrictions imposed by investment managers and Employee Retirement Income Security Act of 1897 (ERISA) regulations.

A summary of plan assets, measured at fair value, as of June 30, 2024 and 2023, is as follows (in thousands):

Pension Benefits:

2024	Level 1	Level 2	Level 3	Investments at NAV	Total
ASSETS:					
Short-term	$ 74,215				$ 74,215
Public equity	28,747			$ 201,616	230,363
Debt:					
US treasuries	1,452,511				1,452,511
Corporate bonds	17,827	$ 26,866			44,693
Absolute return				468,861	468,861
Real assets	729			146,070	146,799
Private equity				545,004	545,004
FAIR VALUE OF PLAN ASSETS, END OF YEAR	**$ 1,574,029**	**$ 26,866**	**$ –**	**$ 1,361,551**	**$ 2,962,446**

2023	Level 1	Level 2	Level 3	Investments at NAV	Total
ASSETS:					
Short-term	$ 118,081				$ 118,081
Public equity	56,826			$ 325,057	381,883
Debt:					
US treasuries	1,321,335				1,321,335
Corporate bonds	16,597	$ 23			16,620
Absolute return				596,572	596,572
Real assets	16,784			171,690	188,474
Private equity				507,400	507,400
Total assets	$ 1,529,623	$ 23	$ –	$ 1,600,719	$ 3,130,365
LIABILITIES:					
Derivative instruments		$ 12,972			$ 12,972
Total liabilities	$ –	$ 12,972	$ –	$ –	$ 12,972
FAIR VALUE OF PLAN ASSETS, END OF YEAR	**$ 1,529,623**	**$ (12,949)**	**$ –**	**$ 1,600,719**	**$ 3,117,393**

Other Postretirement Benefits:

2024	Level 1	Level 2	Level 3	Investments at NAV	Total
ASSETS:					
Short-term	$ 43,431				$ 43,431
Public equity	8,592			$ 202,645	211,237
Debt:					
US treasuries	16,817				16,817
Corporate bonds					–
Absolute return				249,643	249,643
Real assets	35,320			77,227	112,547
Private equity				177,619	177,619
Total assets	$ 104,160	$ –	$ –	$ 707,134	$ 811,294
LIABILITIES:					
Derivative instruments		$ 38			$ 38
Total liabilities	$ –	$ 38	$ –	$ –	$ 38
FAIR VALUE OF PLAN ASSETS, END OF YEAR	**$ 104,160**	**$ (38)**	**$ –**	**$ 707,134**	**$ 811,256**

2023	Level 1	Level 2	Level 3	Investments at NAV	Total
ASSETS:					
Short-term	$ 34,995				$ 34,995
Public equity	6,383			$ 209,957	216,340
Debt:					
US treasuries	17,182				17,182
Corporate bonds					
Absolute return				230,496	230,496
Real assets	27,378			75,690	103,068
Private equity				153,905	153,905
Total assets	$ 85,938	$ –	$ –	$ 670,048	$ 755,986
LIABILITIES:					
Derivative instruments		$ 56			$ 56
Total liabilities	$ –	$ 56	$ –	$ –	$ 56
FAIR VALUE OF PLAN ASSETS, END OF YEAR	**$ 85,938**	**$ (56)**	**$ –**	**$ 670,048**	**$ 755,930**

As of June 30, 2024, the University has unfunded commitments to limited partnerships totaling $357,077,000, which are expected to be called over the next 5 years.

Plan asset allocations by category are as follows:

2024	Pension Benefits		Other Postretirement Benefits	
Allocation of Plan Assets	**Target**	**Actual**	**Target**	**Actual**
Short-term	0.0%	2.5%	5.0%	5.4%
Public equity	7.2%	7.8%	26.0%	26.0%
Debt:				
US treasuries	57.3%	49.0%	0.0%	2.1%
Corporate bonds	0.0%	1.5%	0.0%	0.0%
Absolute return	12.1%	15.8%	30.0%	30.8%
Real assets	5.6%	5.0%	15.0%	13.9%
Private equity	17.8%	18.4%	24.0%	21.8%
TOTAL	**100.0%**	**100.0%**	**100.0%**	**100.0%**

12. Debt Obligations

Debt obligations at June 30, 2024 and 2023 are as follows (in thousands):

	Final Maturity	Effective Interest Rate at June 30, 2024	2024	2023
Academic Component:				
Fixed rate debt obligations:				
The Trustees of the University of Pennsylvania				
Series A of 2020 Taxable Bonds	10/2050	2.40%	$ 300,000	$ 300,000
Series A of 2019 revenue bonds	02/2119	3.61%	300,000	300,000
Series 2012 Taxable Bonds	09/2112	4.67%	300,000	300,000
Pennsylvania Higher Educational Facilities Authority (PHEFA)				
Series B of 2019 revenue bonds	08/2045	2.40% - 2.97%	213,585	213,585
Series A of 2018 revenue bonds	02/2048	2.38% - 4.70%	166,640	172,180
Series A of 2017 revenue bonds	08/2046	2.26% - 3.72%	178,395	178,395
Series A of 2016 revenue bonds	08/2041	1.74% - 2.93%	112,230	117,465
Series A of 2015 revenue bonds	10/2045	2.14% - 2.63%	28,300	33,665
Series B of 2015 revenue bonds	10/2038	2.14% - 3.38%	123,835	132,055
Series C of 2015 revenue bonds	10/2035	3.68%	8,020	8,020
Other loans	05/2031	4.50%	11,751	19,225
Variable rate debt obligation:				
Washington County Authority Series of 2004	07/2034	3.68%	37,600	40,700
Total Academic Component outstanding bonds payable			1,780,356	1,815,290
Unamortized issuance costs, premiums and discounts, net			41,557	46,882
Total Academic Component debt obligations			$ 1,821,913	$ 1,862,172
UPHS:				
Fixed rate debt obligations:				
Lancaster County Hospital Authority (LCHA)				
Series A of 2016 revenue bonds	08/2042	2.10% - 3.52%	$ 137,960	$ 142,915
Series B of 2016 revenue bonds	08/2046	2.36% - 3.58%	99,105	107,890
PHEFA				
Series A of 2021 revenue bonds	08/2044	1.61% - 2.11%	79,810	79,810
Series B of 2021 revenue bonds	08/2042	0.97% - 2.70%	101,470	109,735
Series A of 2019 revenue bonds	08/2049	1.67% - 3.22%	534,870	534,870
Series A of 2017 revenue bonds	08/2047	2.60% - 3.68%	400,000	400,000
Series C of 2016 revenue bonds	08/2041	1.57% - 3.08%	110,840	124,255
Series A of 2015 revenue bonds	08/2045	2.42% - 4.00%	182,200	194,245
New Jersey Health Care Facilities Financing Authority (NJHCFFA)				
Princeton Healthcare System Series A of 2016	07/2039	2.45% - 3.88%	150,985	157,075
University of Pennsylvania Health System Taxable Note	08/2047	4.01%	200,000	200,000
Lancaster General Hospital 2015 Taxable Note	08/2032	2.25%	57,650	60,453
Mortgages, notes and other	Various	Various	85,018	95,500
Variable rate debt obligations:				
PHEFA Series A of 2008 revenue bonds	01/2038	3.82%	69,995	69,995
NJHCFFA Princeton Healthcare System Series B of 2016	07/2045	4.87%	65,000	65,000
NJHCFFA Princeton Healthcare System Series C of 2016	07/2045	4.82%	20,000	20,000
Total UPHS outstanding bonds payable			2,294,903	2,361,743
Unamortized issuance costs, premiums and discounts, net			157,124	169,604
Total UPHS debt obligations			2,452,027	2,531,347
TOTAL DEBT OBLIGATIONS			**$ 4,273,940**	**$ 4,393,519**

Contractual maturities of debt obligations are as follows (in thousands):

Fiscal Year		Academic Component		UPHS		Total
2025	$	26,070	$	64,272	$	90,342
2026		44,577		67,279		111,856
2027		30,970		69,513		100,483
2028		32,339		65,523		97,862
2029		33,894		58,484		92,378
Thereafter		1,612,506		1,969,832		3,582,338
Total Principal		1,780,356		2,294,903		4,075,259
Unamortized issuance costs, premiums & discounts		41,557		157,124		198,681
TOTAL DEBT OBLIGATIONS	**$**	**1,821,913**	**$**	**2,452,027**	**$**	**4,273,940**

To secure certain self-insured liabilities, the University has letters of credit with various financial institutions totaling $10,168,000 and $14,268,000 at June 30, 2024 and 2023, respectively, of which $3,697,000 and $4,971,000 were issued under a line of credit. The letters of credit have evergreen provisions for automatic renewal. There have been no draws under the letters of credit.

Academic Component

The University has variable rate debt in the amount of $37,600,000 which is subject to optional tender by the holders upon seven days' notice. These bonds are reflected in the table above based on original scheduled maturities. In the event that the University receives notice of any optional tender on its variable rate demand bonds, the purchase price will be repaid from the remarketing of the bonds. However, in the event that the entire remarketing effort were to fail, the University would have the general obligation to purchase the bonds.

On June 14, 2021, the University entered into a new five-year agreement with a financial institution to provide a line of credit in the amount of $100,000,000 for general purposes of the University. The University pays a fee annually on the unused amount of the line of credit. There were no outstanding balances as of June 30, 2024 and 2023.

UPHS

The PHEFA Revenue Bonds, Lancaster County Hospital Authority (LCHA) Revenue Bonds and New Jersey Health Care Facilities Financing Authority (NJHCFFA) Revenue Bonds are secured by master notes issued under the UPHS Master Trust Indenture (MTI). The MTI and related agreements contain certain restrictive covenants which limit the issuance of additional indebtedness, and among other things, require UPHS to meet an annual debt service coverage requirement of "income available for debt service" (excess of revenue over expenses plus depreciation, amortization, interest expense and extraordinary items) at an amount equal to 110% of the annual debt service requirements. If the coverage requirement for a particular year is not met, within six months of the close of that fiscal year, UPHS must retain the services of a consultant to make recommendations to improve the coverage requirement. UPHS must also implement the recommendations of the consultant to the extent that they can be feasibly implemented. UPHS will not be considered to be in default of the provisions of the MTI so long as UPHS has sufficient cash flow to pay total operating expenses and debt service for the fiscal year. In both 2024 and 2023, UPHS met its debt service coverage requirement under the MTI. Additionally, UPHS has pledged its gross revenues to secure its obligation under the MTI.

UPHS has certain variable rate debt in the amount of $69,995,000 which is subject to optional tender by the holders upon seven days' notice. These bonds are reflected in the debt obligations maturity table above based on original scheduled maturities. In the event that UPHS receives notice of any optional tender on its variable rate demand bonds, the purchase price will be repaid from the remarketing of the bonds. However, in the event that the entire remarketing effort were to fail, UPHS has in place a renewable direct pay letter of credit issued by Bank of America with an original expiration date of April 15, 2023, which has been extended through April 15, 2028. In the event that the letter of credit cannot be drawn upon, UPHS would have the general obligation to purchase the bonds.

UPHS maintains a $100,000,000 line of credit with a maturity date of April 12, 2025 to supplement liquidity and issue letters of credit to cover balances due on construction projects and reinsurance agreements. There were no outstanding balances as of June 30, 2024 and 2023.

Interest Rate Swap Agreements

The University enters into interest rate swap agreements to synthetically modify the interest rate terms of its long-term debt portfolio. These agreements are not entered into for trading or speculative purposes. Fair value of these agreements is determined by obtaining quotes from Goldman Sachs Mitsui Marine Derivative Products, L.P. (GSMMDP) and Merrill Lynch, respectively, which are based on the income approach, using observable market data to discount future net payment streams. Accordingly, the University considers this to be a Level 2 measurement. The quotes provided also represent the amount the University would accept or be required to pay to transfer the agreement to GSMMDP and Merrill Lynch, respectively, or exit price as defined by the Fair Value Measurements standard. The University also takes into account the risk of nonperformance.

The following table summarizes the terms of the University's remaining interest rate swap agreements (in thousands):

		Academic Component		UPHS
Notional Amounts	$	92,450	$	18,000
Trade Date		11/6/2007		7/28/2006
Maturity Date		7/1/2034		7/1/2041
Rates:				
Receive		67% of 1-Month SOFR		70% of 1-Month credit spread adjusted SOFR
Pay		3.573%		3.980%

The following table summarizes the fair value of the interest rate swap agreements, not designated as hedging instruments, as of June 30, 2024 and 2023, and the related gains on the interest rate swap agreements, both realized and unrealized, for the years ended June 30, 2024 and 2023 (in thousands):

	Line Item	2024	2023
CONSOLIDATED STATEMENTS OF FINANCIAL POSITION:			
Liability interest rate swaps:			
Academic component	Accrued expenses and other liabilities	$ 3,640	$ 5,172
UPHS	Accrued expenses and other liabilities	1,638	2,246
TOTAL LIABILITY INTEREST RATE SWAPS		**$ 5,278**	**$ 7,418**
CONSOLIDATED STATEMENTS OF ACTIVITIES:			
Academic component	Return on investments, net	$ 1,509	$ 3,956
UPHS	Return on investments, net	(605)	1,150
TOTAL		**$ 904**	**$ 5,106**

13. Net Assets

The major components of net assets at June 30, 2024 and 2023 are as follows (in thousands):

2024	**Without Donor Restrictions**	**With Donor Restrictions**	**Total**
General operating	$ 7,515,390	$ 876,057	$ 8,391,447
Sponsored programs	31,795		31,795
Capital		118,511	118,511
Student loans	5,122		5,122
Planned giving agreements		58,000	58,000
Quasi-endowment	12,002,324		12,002,324
Endowment, subject to spending rule		4,976,257	4,976,257
Endowment, held in perpetuity		5,369,367	5,369,367
TOTAL NET ASSETS	**$ 19,554,631**	**$ 11,398,192**	**$ 30,952,823**

2023	**Without Donor Restrictions**	**With Donor Restrictions**	**Total**
General operating	$ 7,722,223	$ 819,419	$ 8,541,642
Sponsored programs	42,320		42,320
Capital		146,938	146,938
Student loans	5,748		5,748
Planned giving agreements		54,281	54,281
Quasi-endowment	11,044,431		11,044,431
Endowment, subject to spending rule		4,774,969	4,774,969
Endowment, held in perpetuity		5,143,541	5,143,541
TOTAL NET ASSETS	**$ 18,814,722**	**$ 10,939,148**	**$ 29,753,870**

14. Other Income

The components of Other income for the years ended June 30, 2024 and 2023, are as follows (in thousands):

	2024	**2023**
Commercialization of intellectual property*	$ 306,799	$ 637,467
UPHS ambulatory pharmacy	1,091,816	868,480
Government relief funding		21,257
Other	697,054	655,281
TOTAL OTHER INCOME	**$ 2,095,669**	**$ 2,182,485**

** Net of distributions to external parties*

15. Leases

The University leases research labs and office space under operating leases expiring through November 2044. On the Consolidated Statements of Financial Position, lessees are required to record Right-of-Use assets, representing the right to use the underlying assets for the lease term, and Lease liabilities, representing the obligation to make lease payments arising from the lease based on the present value of lease payments over the lease term. The University has made the following elections: (1) to exclude leases with a term of less than one year and (2) to use an incremental borrowing rate for discounting leases, as applicable. At June 30, 2024 and 2023, Right-of-Use assets recorded in Other assets were $521,509,000 and $556,028,000, respectively, and Lease liabilities recorded in Accrued expenses and other liabilities were $544,057,000 and $571,002,000, respectively. At June 30, 2024, the weighted average remaining lease term was 8.6 years and the weighted average discount rate was 2.8%. At June 30, 2023, the weighted average remaining lease term was 10.9 years and the weighted average discount rate was 2.8%. Rental expense, for the years ended June 30, 2024 and 2023, totaled $160,679,000 and $153,907,000 (including amortizations related to Right-of-Use assets and Lease liabilities of $92,156,000 and $78,544,000), respectively. Rental expense is included in Other operating expenses on the Consolidated Statements of Activities.

Future maturities of total lease liabilities at June 30, 2024 are as follows (in thousands):

Year ending June 30,		
2025	$	100,542
2026		91,804
2027		72,600
2028		65,577
2029		61,622
Thereafter		259,629
Total lease payments	$	651,774
Less imputed interest		(107,717)
TOTAL FUTURE LEASE PAYMENTS	**$**	**544,057**

16. Functional Classification of Expenditures

Expenses for the years ended June 30, 2024 and 2023 are categorized on a functional basis as follows (in thousands):

2024	**Instruction, student services & academic support**	**Hospital & physician practices**	**Research**	**Institutional support**	**Enterprises & independent operations**	**Total**
Compensation and benefits	$ 1,384,511	$ 5,714,740	$ 692,138	$ 341,948	$ 265,166	$ 8,398,503
Depreciation and amortization	96,590	416,553	53,588	22,716	68,820	658,267
Interest on indebtedness	16,191	88,357	25,321	192	13,101	143,162
Other operating expense	706,759	4,384,681	497,321	116,906	225,677	5,931,344
Total operating expense	2,204,051	10,604,331	1,268,368	481,762	572,764	15,131,276
Non-service net periodic benefit cost	(7,442)	(30,705)	(3,719)	(1,837)	(1,425)	(45,128)
TOTAL	**$ 2,196,609**	**$ 10,573,626**	**$ 1,264,649**	**$ 479,925**	**$ 571,339**	**$ 15,086,148**

2023	**Instruction, student services & academic support**	**Hospital & physician practices**	**Research**	**Institutional support**	**Enterprises & independent operations**	**Total**
Compensation and benefits	$ 1,244,495	$ 5,328,699	$ 621,319	$ 307,415	$ 240,786	$ 7,742,714
Depreciation and amortization	94,400	414,521	52,167	21,809	67,354	650,251
Interest on indebtedness	17,158	81,549	26,932	203	13,899	139,741
Other operating expense	650,914	3,910,686	454,109	97,784	210,949	5,324,442
Total operating expense	2,006,967	9,735,455	1,154,527	427,211	532,988	13,857,148
Non-service net periodic benefit cost	(6,499)	(27,818)	(3,242)	(1,605)	(1,257)	(40,421)
TOTAL	**$ 2,000,468**	**$ 9,707,637**	**$ 1,151,285**	**$ 425,606**	**$ 531,731**	**$ 13,816,727**

Operation and maintenance of PPE and depreciation are allocated to functional classifications based on square footage. Interest expense is generally allocated to functional classifications of the activity that directly benefited from the proceeds of the debt. Non-service net periodic benefit cost is allocated to functional classifications based on compensation and benefits.

17. Liquidity and Availability

As of June 30, 2024 and 2023, respectively, financial assets and liquidity resources available within one year for general expenditure, such as operating expenses, scheduled principal payments on debt and capital construction costs not financed with debt, were as follows (in thousands):

	2024	2023
Financial assets:		
Cash & cash equivalents	$ 2,718,541	$ 3,217,099
Receivables, net	1,763,832	1,620,356
Pledge payments available for operations	72,710	77,478
Investments	7,993,370	7,637,515
TOTAL FINANCIAL ASSETS AVAILABLE WITHIN ONE YEAR	**12,548,453**	**12,552,448**
Liquidity resources:		
Bank lines of credit	196,303	195,029
TOTAL FINANCIAL ASSETS AND LIQUIDITY RESOURCES AVAILABLE WITHIN ONE YEAR	**$ 12,744,756**	**$ 12,747,477**

The University's cash flows have seasonal variations during the year attributable to tuition billing, patient service reimbursement and a concentration of contributions received at calendar and fiscal year-end. To manage liquidity, the University maintains lines of credit with several banks that are drawn upon as needed during the year to manage cash flows. Management has the discretion to utilize the full amount of quasi-endowment funds for general expenditures.

18. Subsequent Events

The University has evaluated subsequent events for the period from June 30, 2024 through September 26, 2024, the date the consolidated financial statements were issued.

PHOTO CREDITS

Page 13: courtesy Noah Gutskey; page 20: Angela Wolf Video; page 22: (left) Eric Sucar, (right) courtesy Puentes de Salud; page 23: (clockwise from top left) courtesy The Wharton School, courtesy The Penn Museum, Chanda Jefferson, courtesy Penn Carey Law; page 30: Matt Bender for Scott Spitzer Photography; page 33: illustration by Chris Gash, (center and bottom) Eric Sucar

www.finance.upenn.edu

Produced by Paul Richards, former Director of Finance Administration and Communications

Written and edited by Alison Rooney

Designed by WFGD Studio