

CAMPUS FORUM

October 12, 2015

Vision

Michigan Tech will lead as a global technological university that

- inspires students,
- advances knowledge, and
- innovates

to create a sustainable, just, and prosperous world.

Mission

We deliver action-based undergraduate and graduate education and discover new knowledge through research and innovation. We create solutions for society's challenges through interdisciplinary education, research, and engagement to advance sustainable economic prosperity, health and safety, ethical conduct, and responsible use of resources. We attract exceptional students, faculty, and staff who understand, develop, apply, manage, and communicate science, engineering, technology, and business to attain the goal of a sustainable, just, and prosperous world. Our success is measured by accomplishments and reputation of our graduates, national and international impact of our research and scholarly activities, and investment in our University.

Strategic Plan

- Approved by Board of Control on May 1, 2015
 - ✓ Major Goals
 - People
 - Distinctive Education and Rigorous-based Learning Experience
 - Research/Scholarship/Creativity/Entrepreneurship/
Innovation/Creative Work
- <http://www.mtu.edu/stratplan/>

Strategic Plan

- Approved by Board of Control on May 1, 2015
 - ✓ Goal 1
 - People

Fall 2015 Faculty

➤ New Tenured/Tenure-Track	23
- Female	9 (39%)
➤ Instructors & Lecturers	7
- Female	2 (29%)
➤ Tenured/Tenure Track Overall	342
- Female	91 (29.61%)
➤ All Faculty*	416
- Female	121 (29.33%)

*All faculty includes Lecturer ranks and Fixed Term Instructors along with tenured and tenure track faculty.

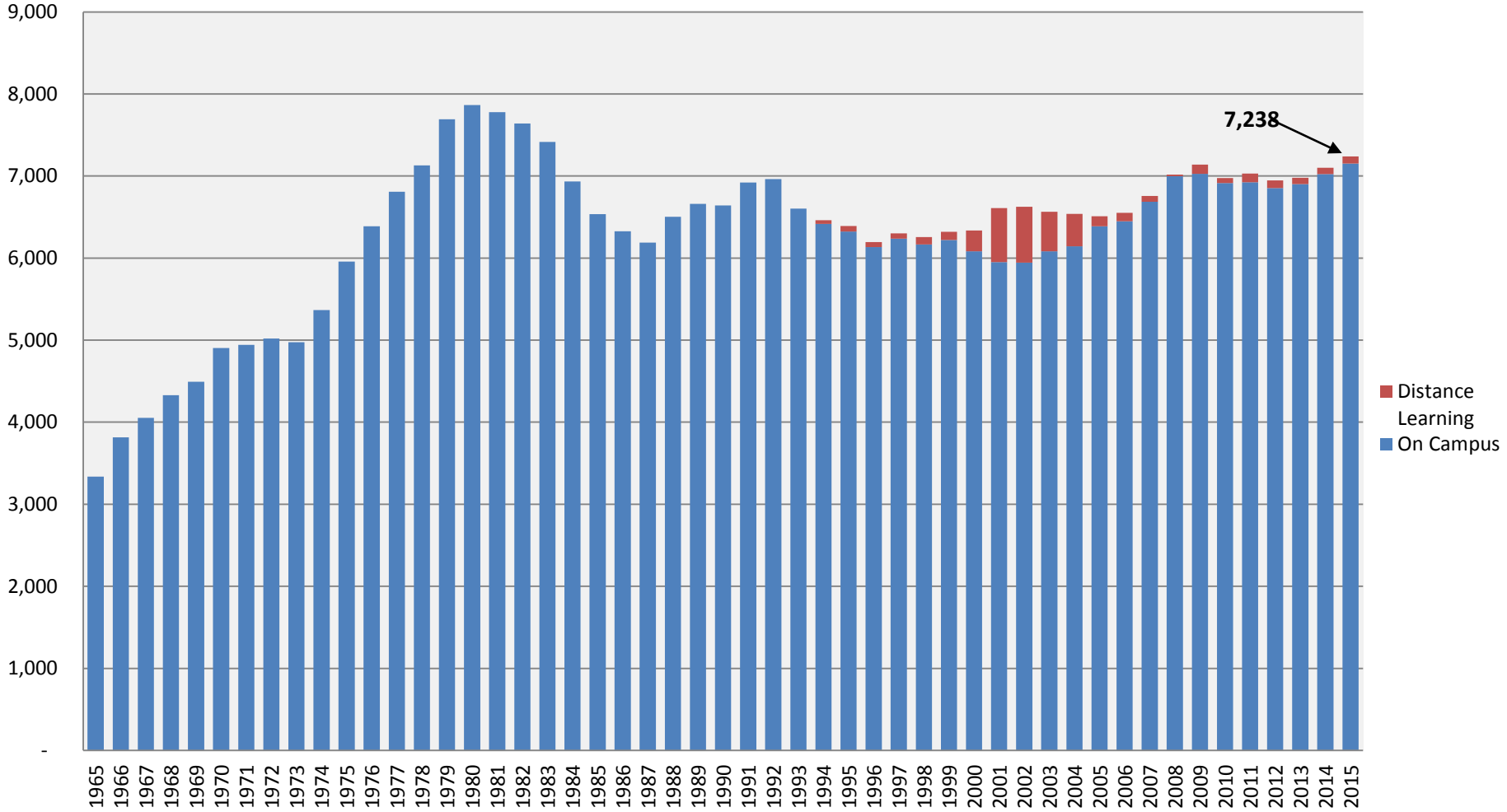
Fall Enrollment

Undergraduate	5,717
Graduate	<u>1,521</u>
Total Enrollment	7,238

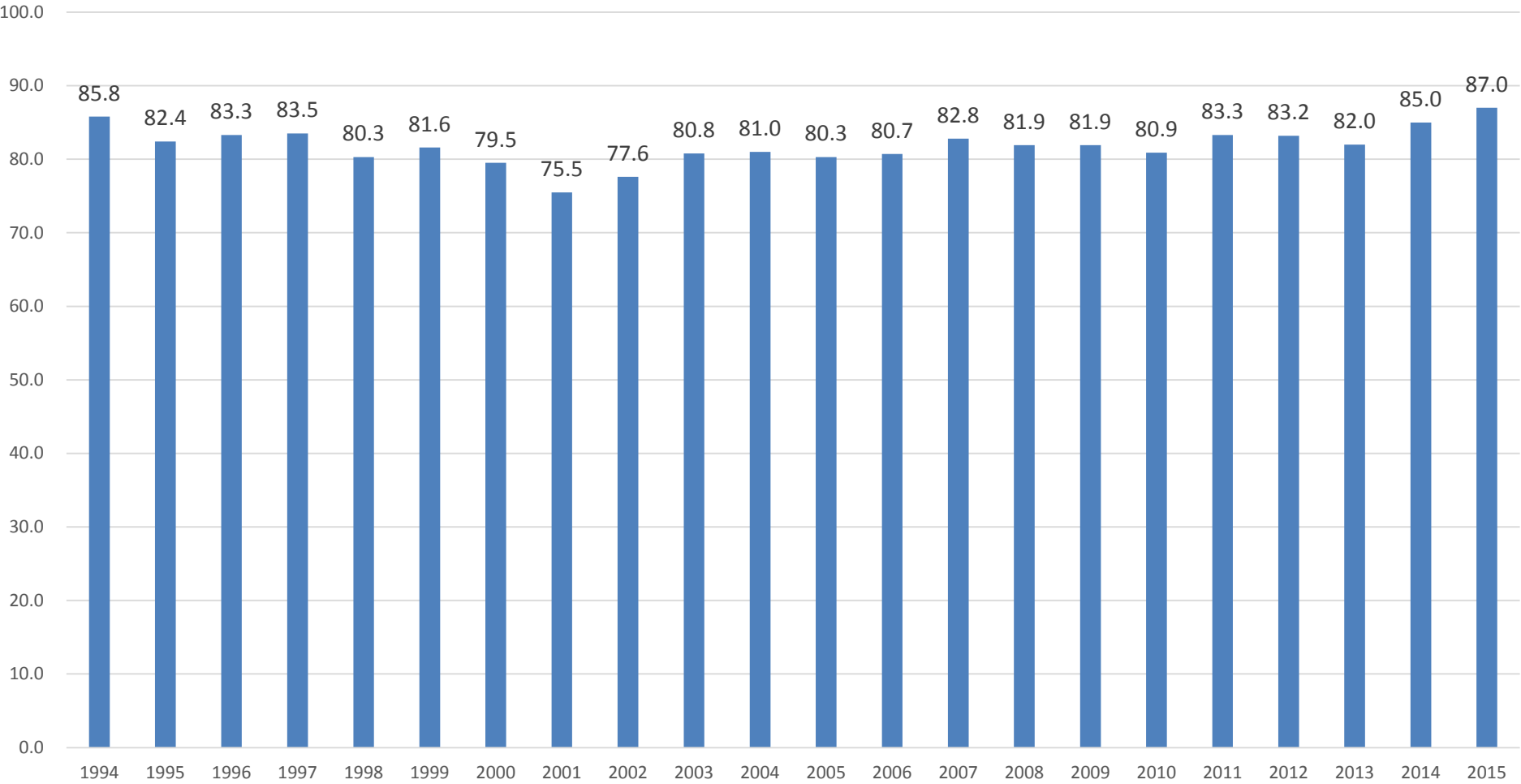
Fall Enrollment Statistics

- Retention (first to second year UG) 87%
- Highest Enrollment Since 1983
- Female Enrollment in COE 1070
(Women make up 22.7% of COE- includes undergraduate and graduate)

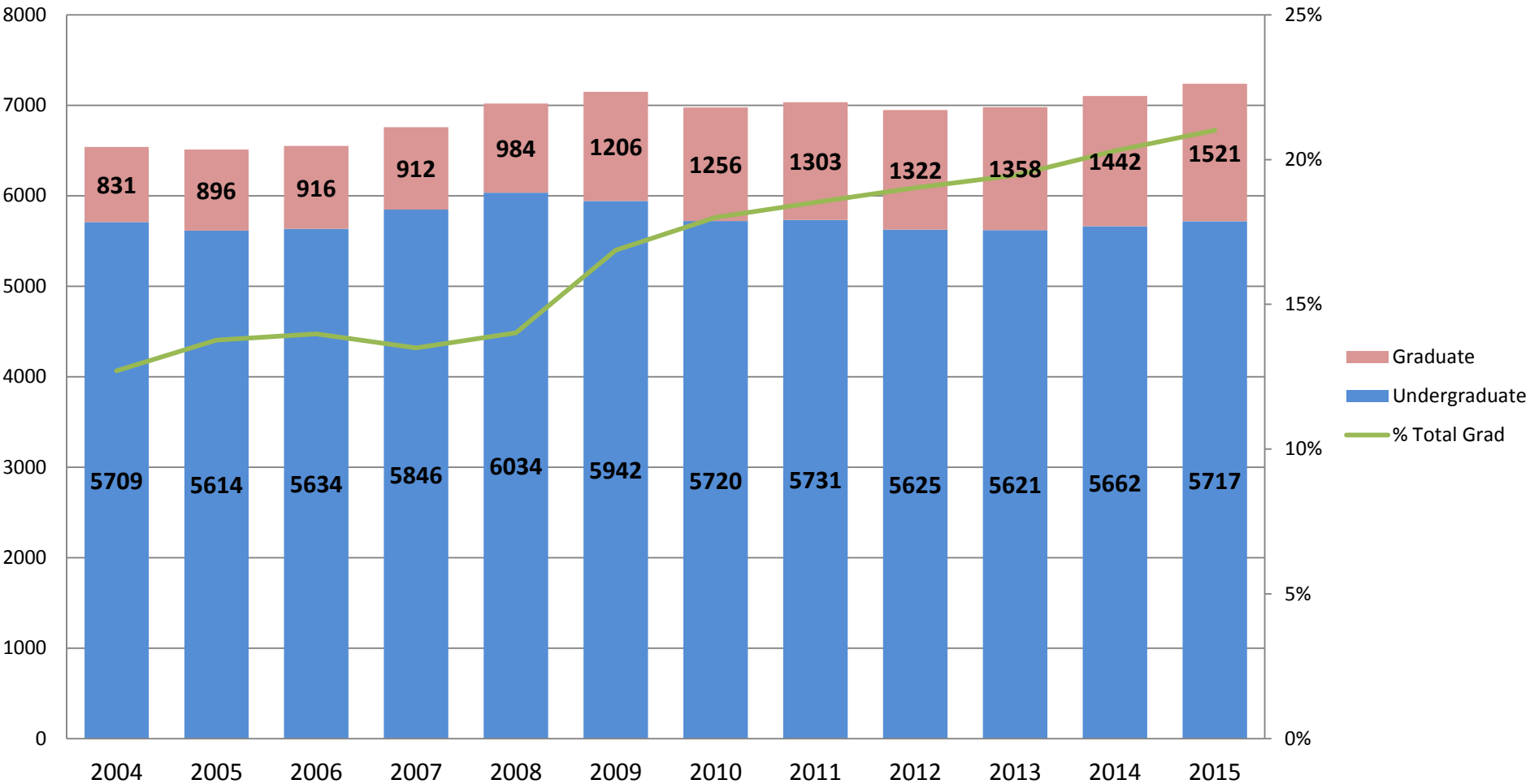
Fall Enrollment 1965-2015



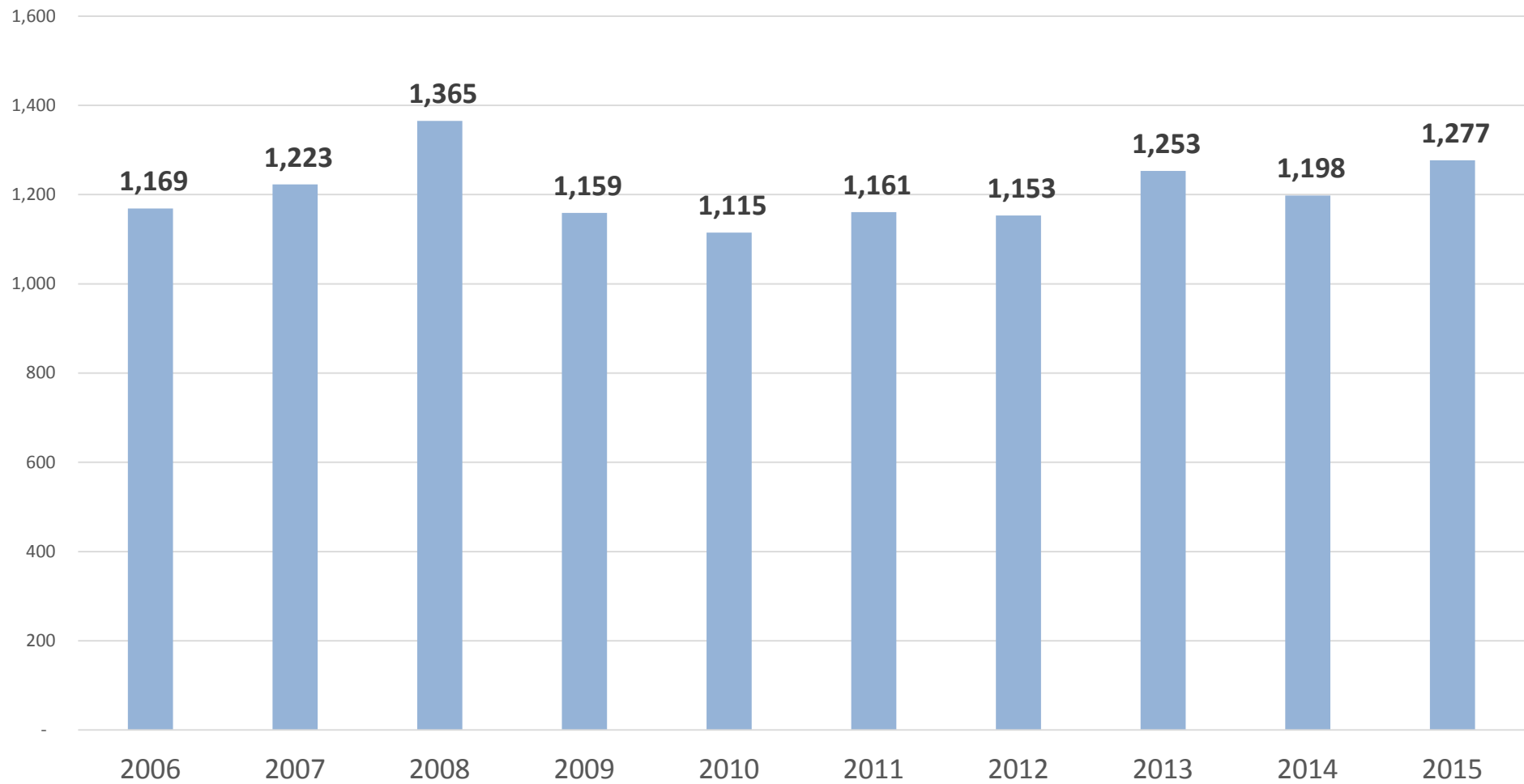
First year to second year retention



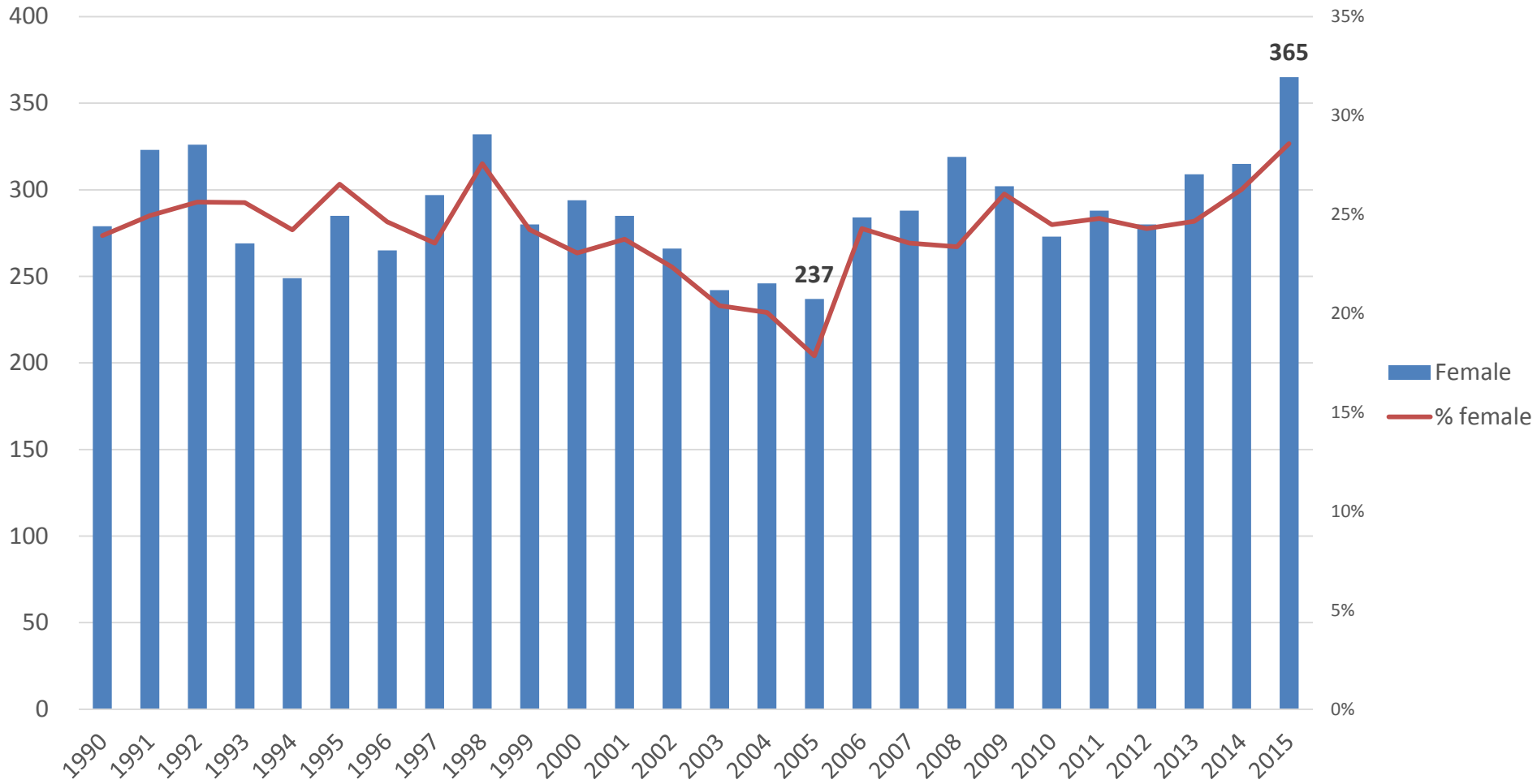
Total enrollment by UG/G



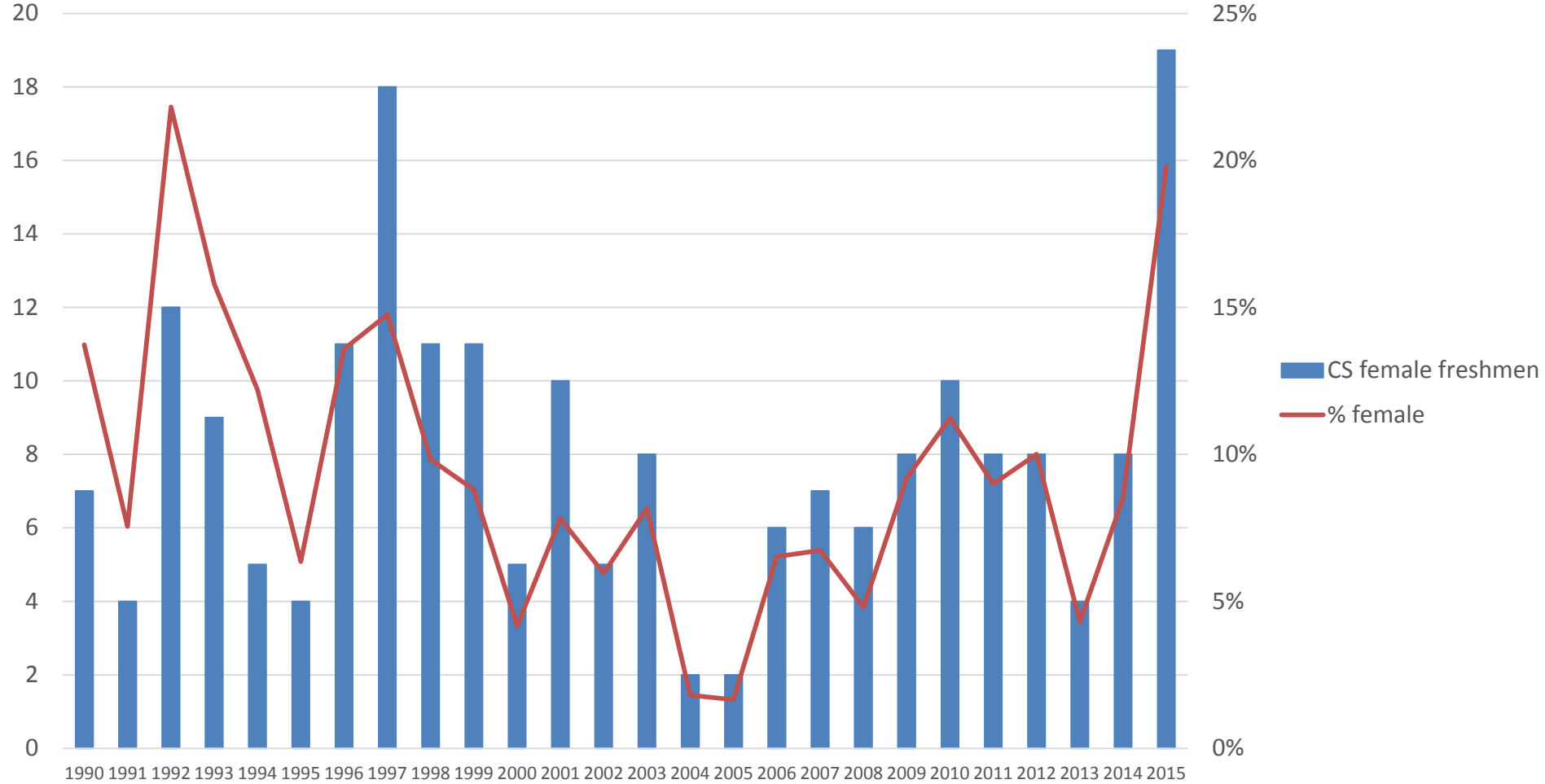
First year undergraduate student enrollment



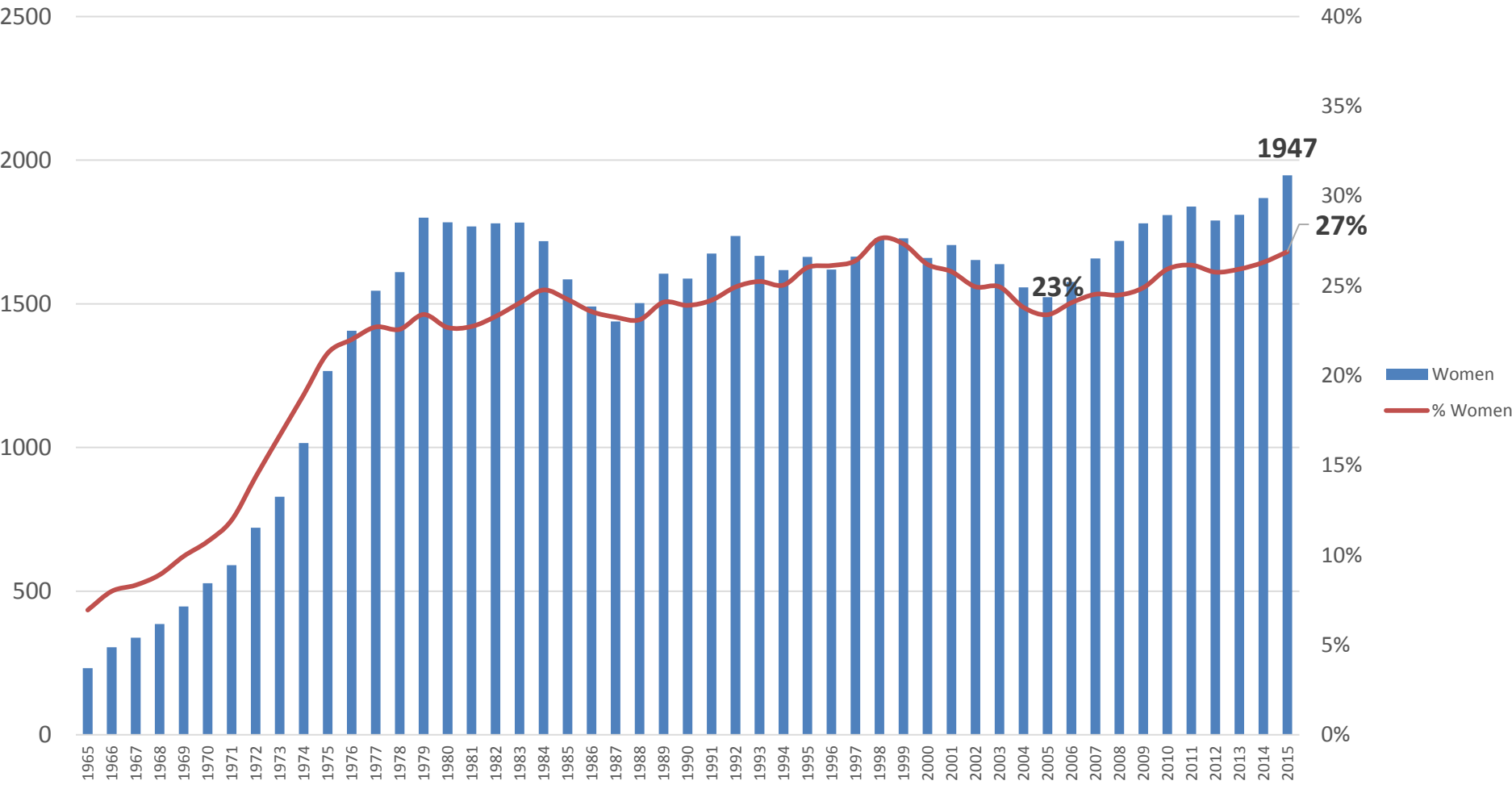
First year female undergraduates



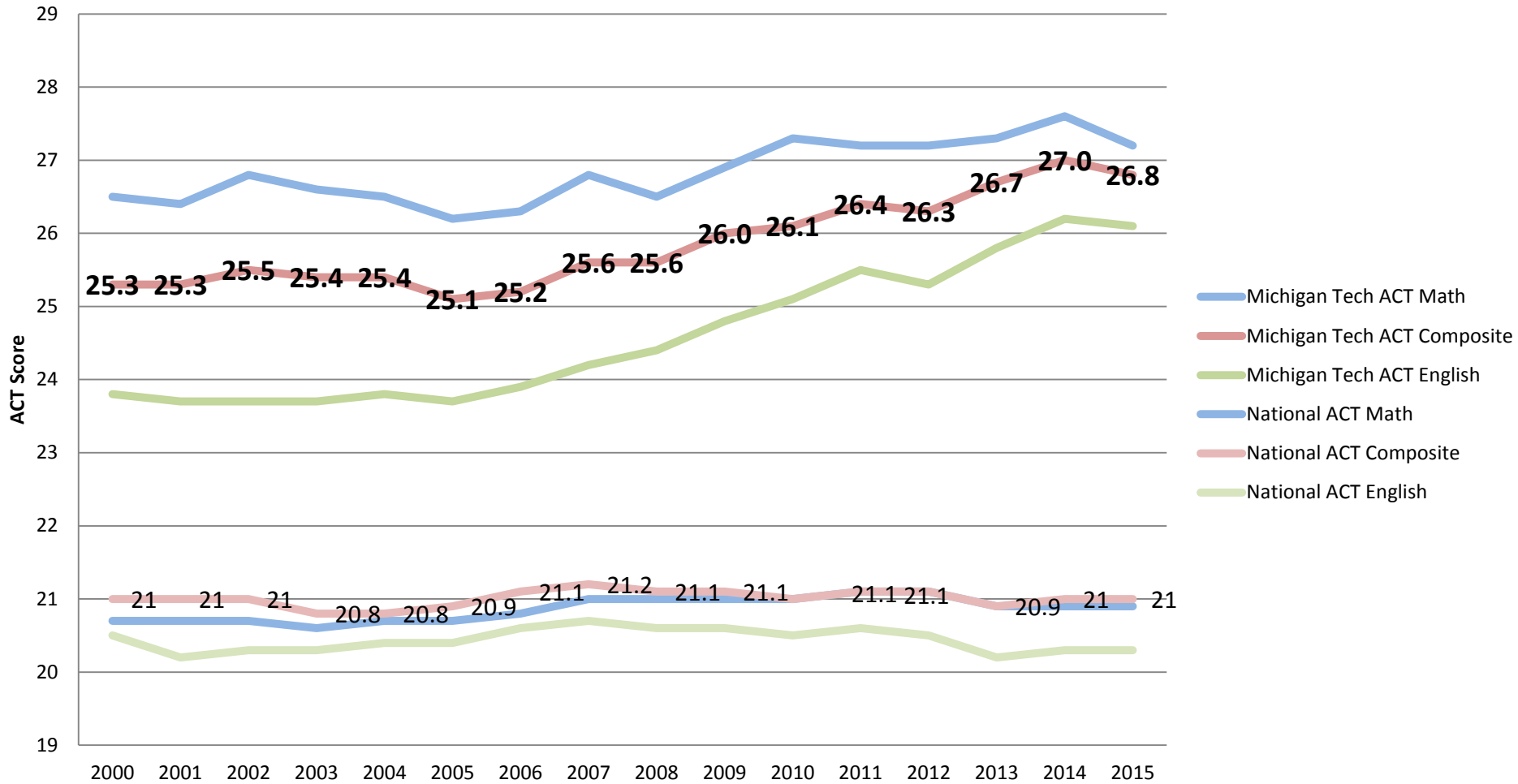
First year UG computer science females



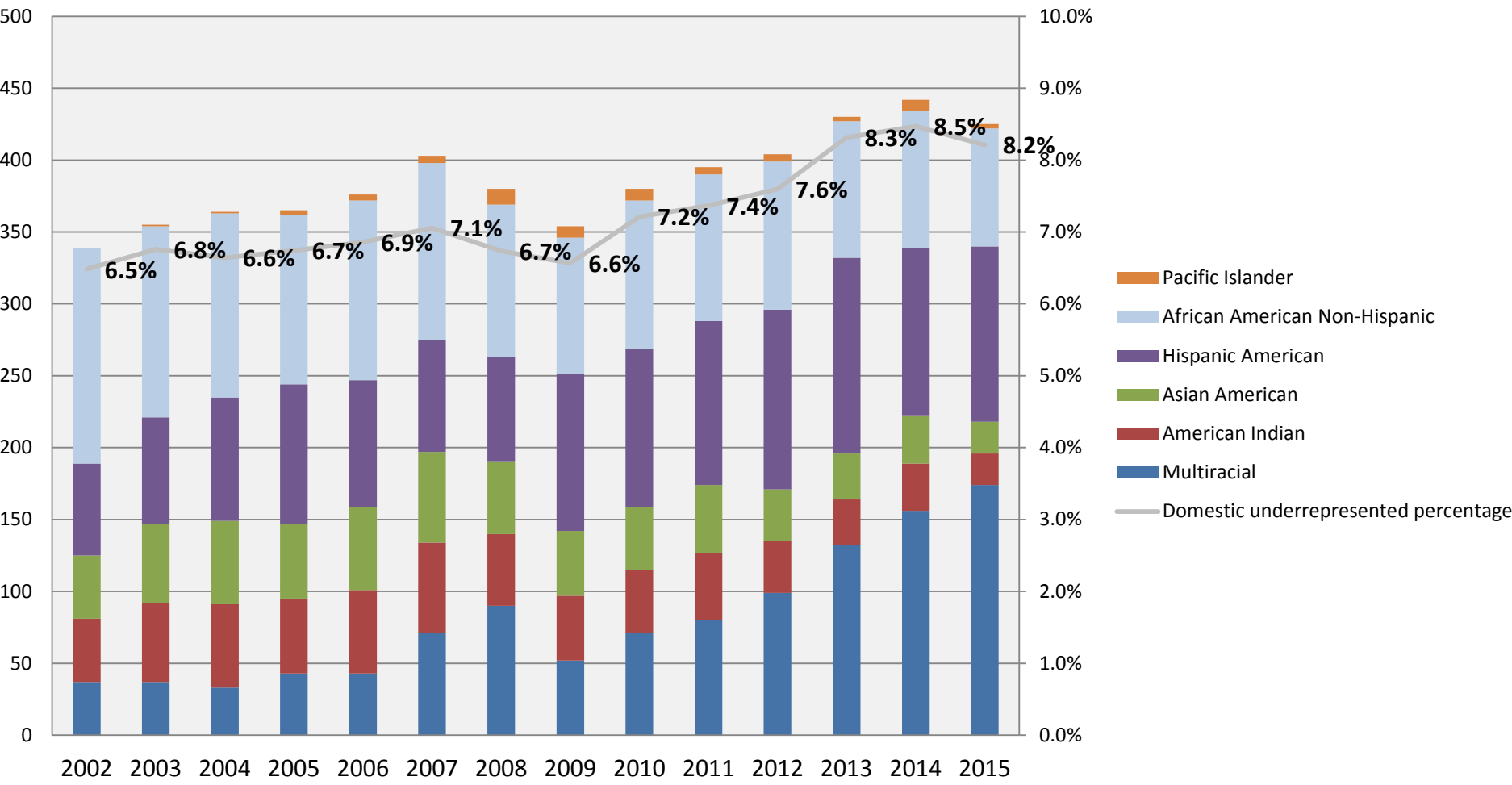
Female enrollment



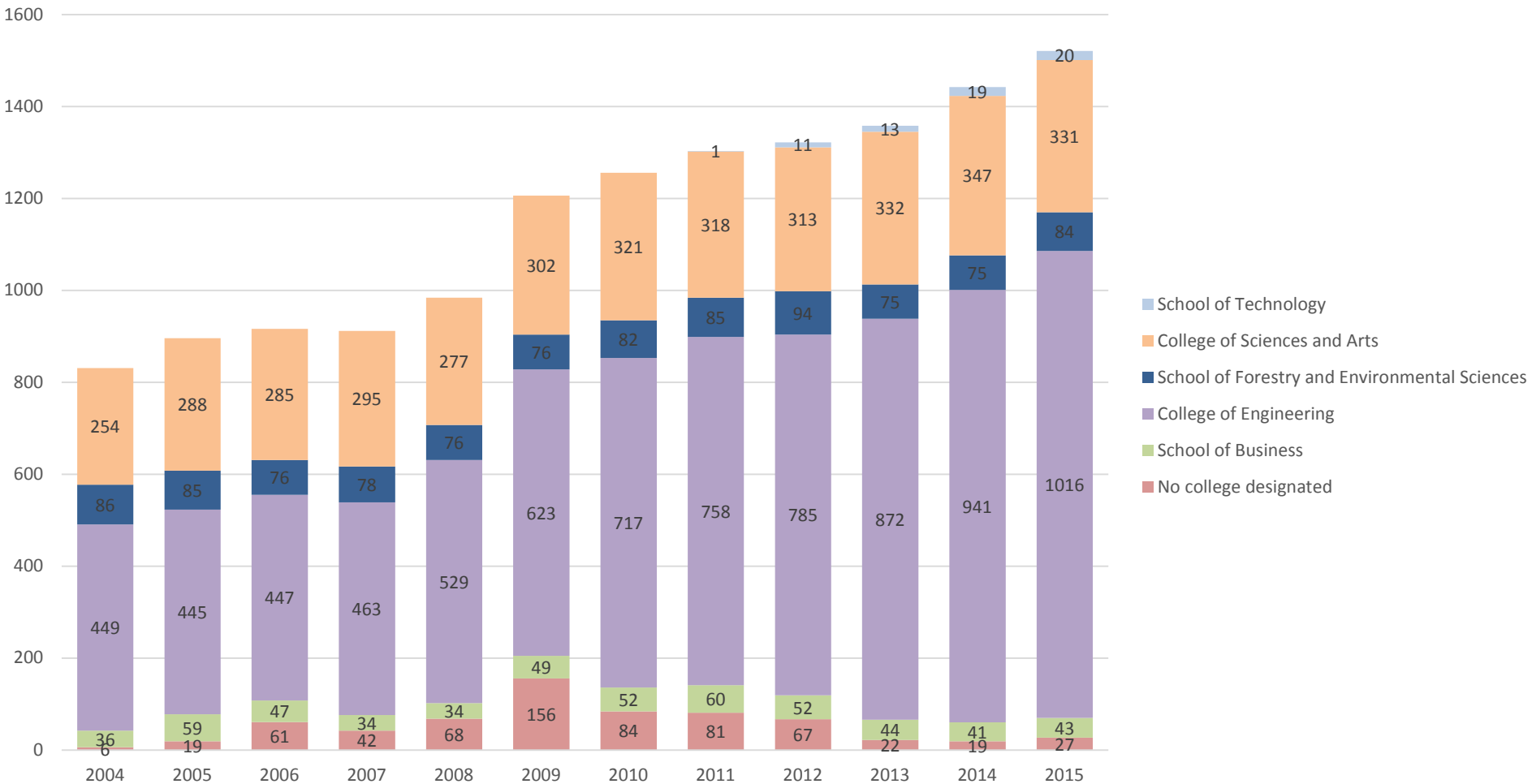
Freshman Michigan Tech vs. National ACT Scores 2000-2015



Total domestic student diversity



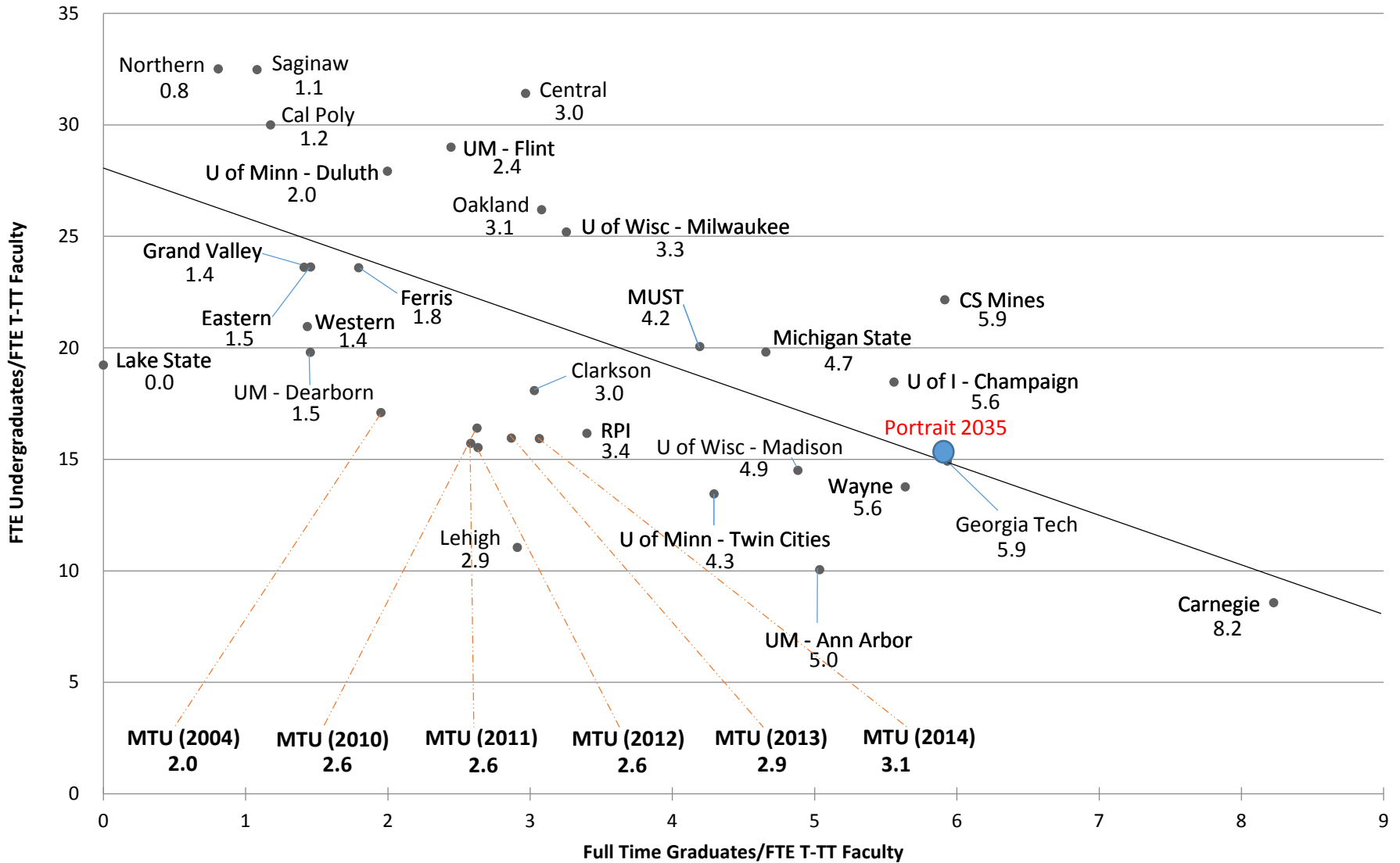
Graduate enrollment by school and college



Full Time Graduates Vs. FTE Undergraduates

Michigan Public Universities and Michigan Tech Benchmark Universities

Fall 2014



Strategic Plan

- Approved by Board of Control on May 1, 2015
 - ✓ Goal 2
 - Distinctive and Rigorous-based Learning Experience

Transdisciplinary Initiatives

Biomaterials

Ecosystem Dynamics - Extraction & Procurement – Processing & Manufacturing-

Marketing, Sales & Distribution – Post-Consumer Processing & Recycling;
Natural Capital – Human Capital

H-STEM: Health Science, Technology, Engineering, and Mathematics -

“An integrative force across Michigan Tech, bringing together research and education efforts at the STEM nexus to advance human health”

Center for Quantum Phenomena

The Center’s mission – provide national leadership in the investigation of processes linked together into the interdisciplinary theme of ‘quantum world’.

Transdisciplinary Initiatives

Center for Entrepreneurship and University Maker Environment

Transdisciplinary opportunities for students; MTEESC, Innovation & Industry Engagement

Institute for STEM Education Research

Proposal under review; white paper being developed to seek external funding

Michigan Tech Emergency Medical Services Celebrating 5 Years of Volunteer Service



Michigan Tech EMS

- Average 75 - 911 medical calls per year
- Average response time 4 minutes
- Support Michigan Tech special events including research projects, athletic events, and University traditions
- Campus CPR/AED/First Aid classes
- All members are now trained at Emergency Medical Technician (EMT) level (224 hours of course work)
- Onboarding 18 new EMT volunteers
- Two State licensed instructors on staff
- EMS Tahoe driven by on-call (24/7) members to improve response time



U.S. News Best Colleges Ranking

(Undergraduate)

- Tied for 123rd among 280 national universities
- Ranked 60th among 173 public national universities
- Engineering ranked 70th of 152
- Listed as an “A-plus School for B Students”
- Listed as “Best Colleges for Veterans”
 - Tied at 101st

Washington Monthly College Guide

- Ranked 7th in the nation for ROTC Program
- Ranked 15th for faculty receiving significant research grants
- Ranked in the top 25% of all national universities
- Ranked in the top 18% for students earning bachelor's degrees who go on to earn PhDs

Payscale

- 7th for early-career salary among public schools nationwide
 - \$62,800 typical starting salary
- 1st among publics in Michigan for mid-career salaries
- 13th nationwide for mid-career of public universities
- 20th in nation for mid-career engineering salaries

On Campus Recruiting Statistics

2014-2015 Academic Year

(Fall & Spring)

466 Recruiting Organizations on Campus

783 Interview Schedules

8,055 Available Interview Slots

2015 Fall Career Fair

(Week of September 28 – October 2)

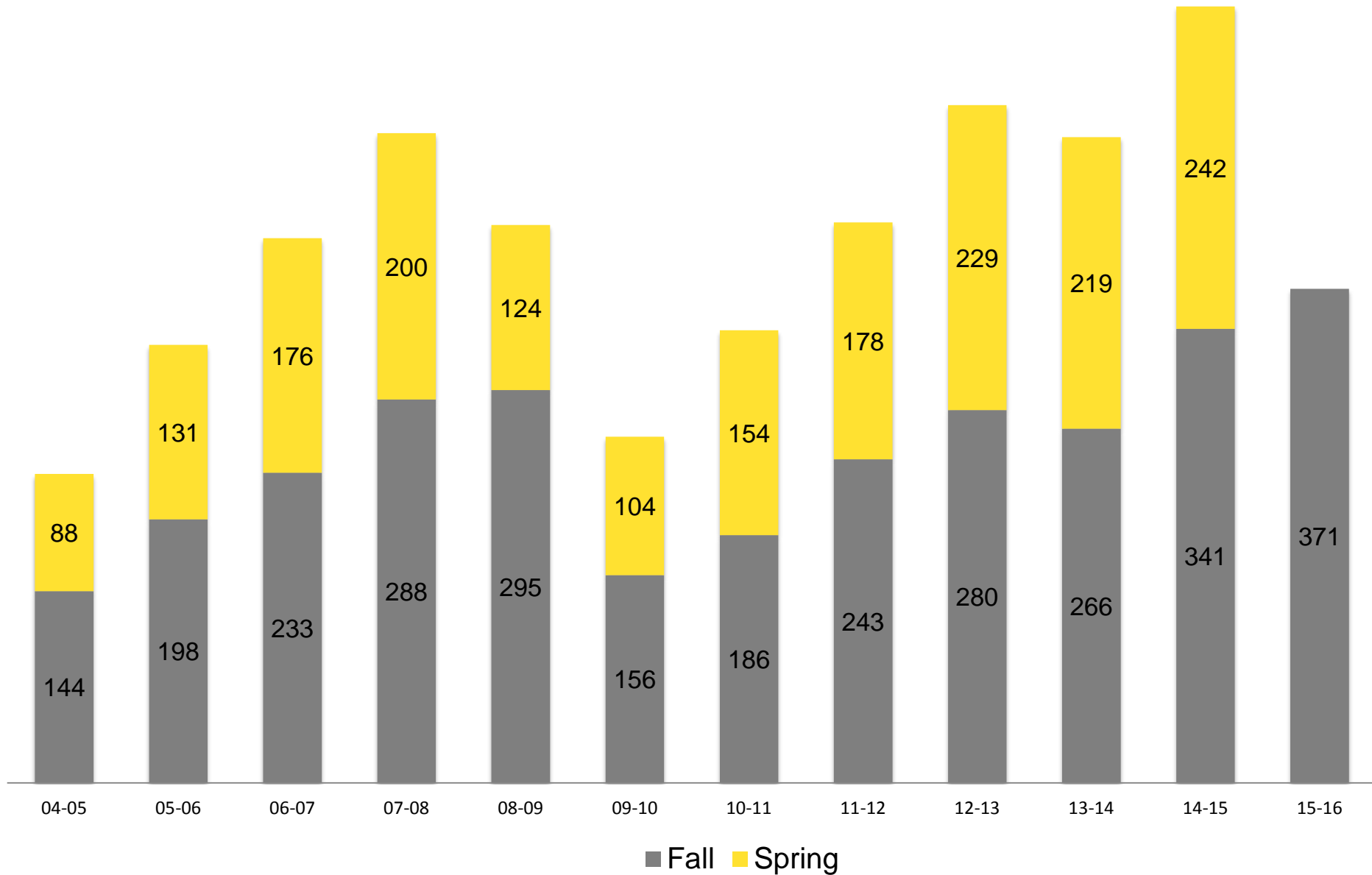
371 Recruiting Organizations on Campus

370 Interview Schedules

4,196 Available Interview Slots

Career Fair Employer Participation

Academic years 04-05 - 15-16



Strategic Plan

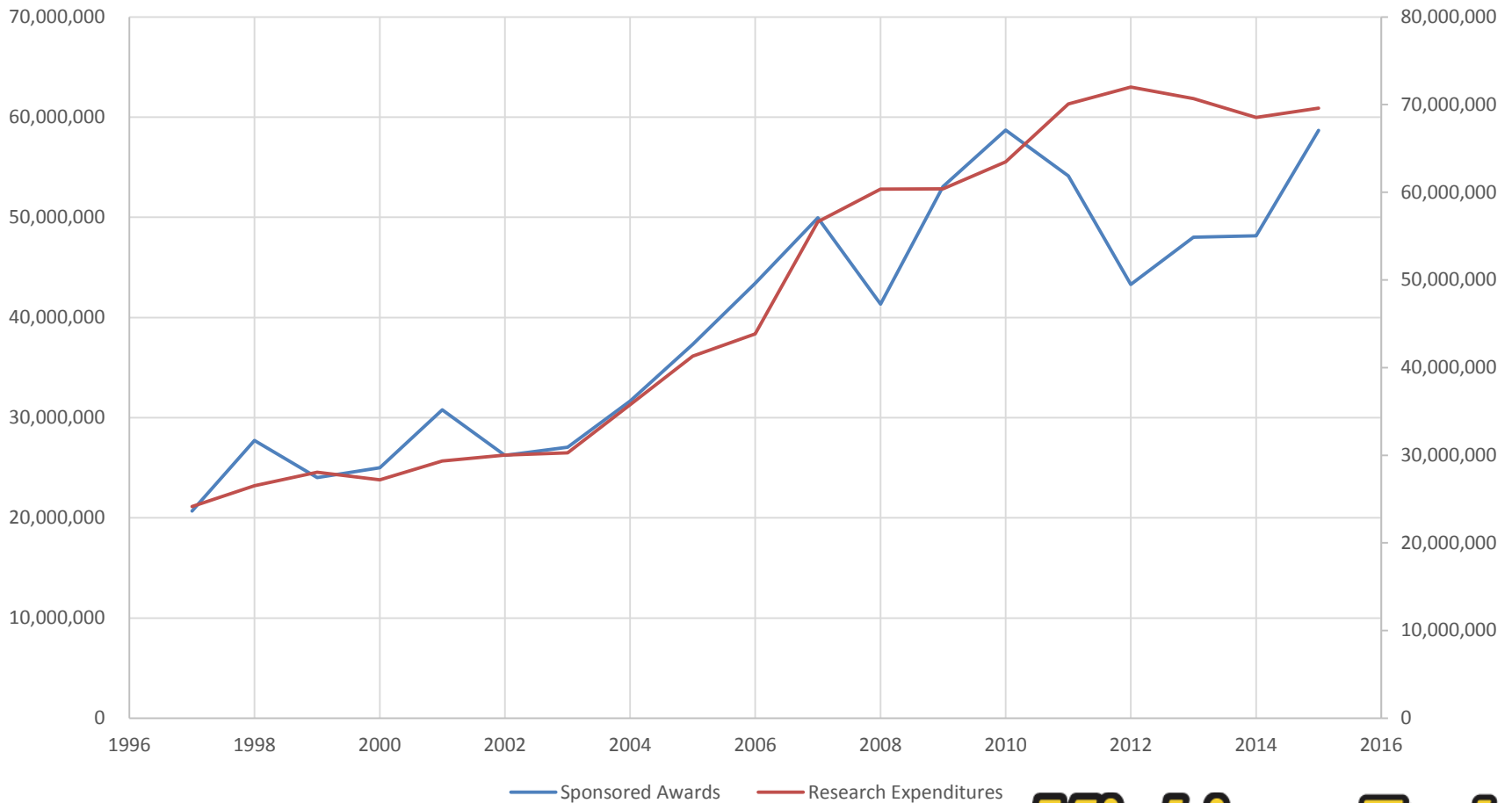
- Approved by Board of Control on May 1, 2015
 - ✓ Goal 3
 - Research/Scholarship/Entrepreneurship/
Innovation/Creative Work

Research

Research Expenditures, Unaudited FY15

College/School/Division	FINAL FY2015	FINAL FY2014	Variance	%
Administration*	2,368,505	2,222,607	145,898	6.6%
College of Engineering	27,048,969	25,282,304	1,766,665	7.0%
College of Science & Arts	15,361,434	13,740,203	1,621,231	11.8%
Pavlis Honors College	356,221	398,128	(41,907)	-10.5%
Keweenaw Research Center (KRC)	6,870,541	8,184,775	(1,314,234)	-16.1%
Michigan Tech Research Institute (MTRI)	9,698,319	10,898,674	(1,200,355)	-11.0%
School of Business & Economics	1,623,653	1,454,644	169,009	11.6%
School of Forest Resources & Environmental Science	5,771,264	5,877,074	(105,810)	-1.8%
School of Technology	507,811	467,453	40,358	8.6%
Total	69,606,717	68,525,862	1,080,855	1.6%
*Includes the Vice Presidents, Provost, CIO, Exec Director Financial Services & Operations and others who report to a VP, Provost or the President. Except for the research institutes that report to the VPR.				

Sponsored Awards and Research Expenditures, Unaudited FY15



Michigan Tech

Intellectual Property, Unaudited FY15

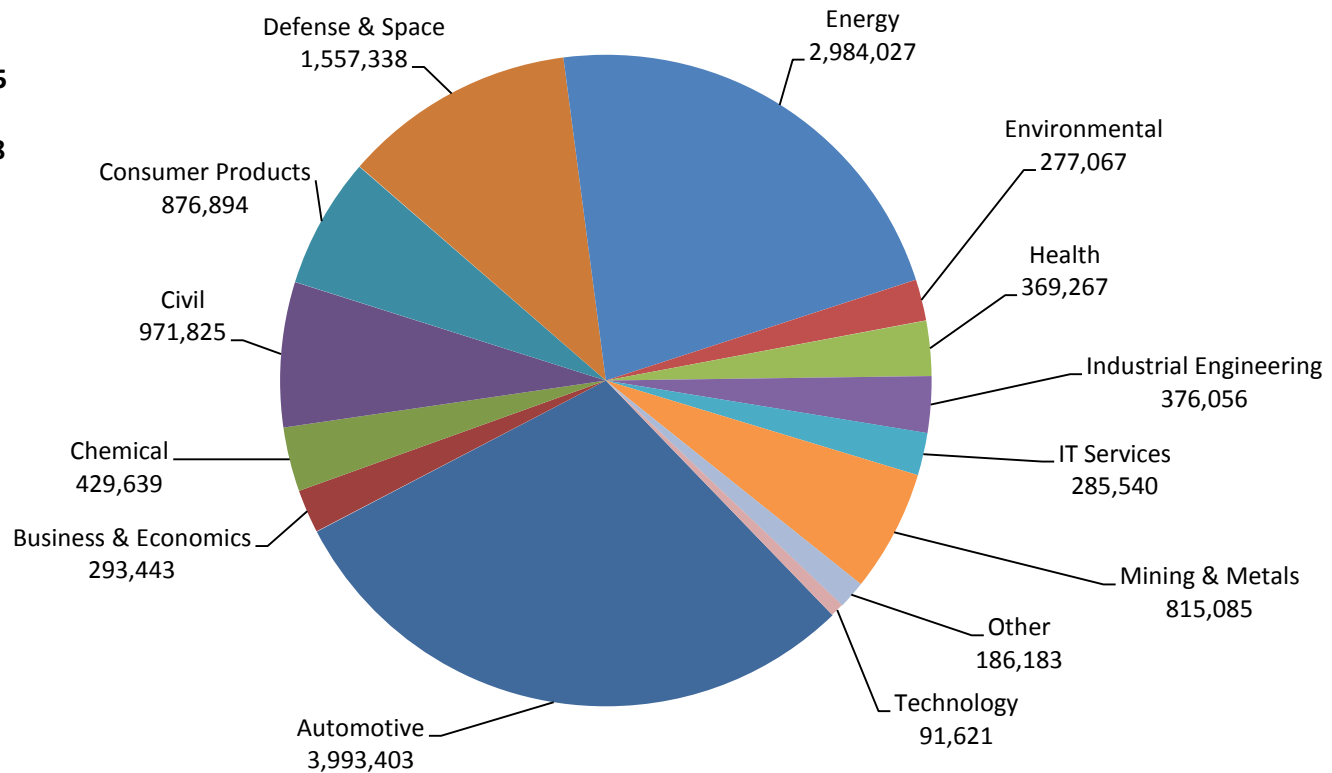
	2015	2014	+/- %
Disclosures Received ²	33	45	-27%
Nondisclosure Agreements	116	98	18%
Patents Filed or Issued ²	17	23	-26%
License Agreements	11	15	-27%
Gross Royalties ²	255,051	262,424	-3%

Michigan Tech

Unaudited FY15 Corporate Sponsorship

Sponsored Awards
-Industry-
COMBINED*
Fiscal Year 2015
4th Quarter
Ended June 30, 2015

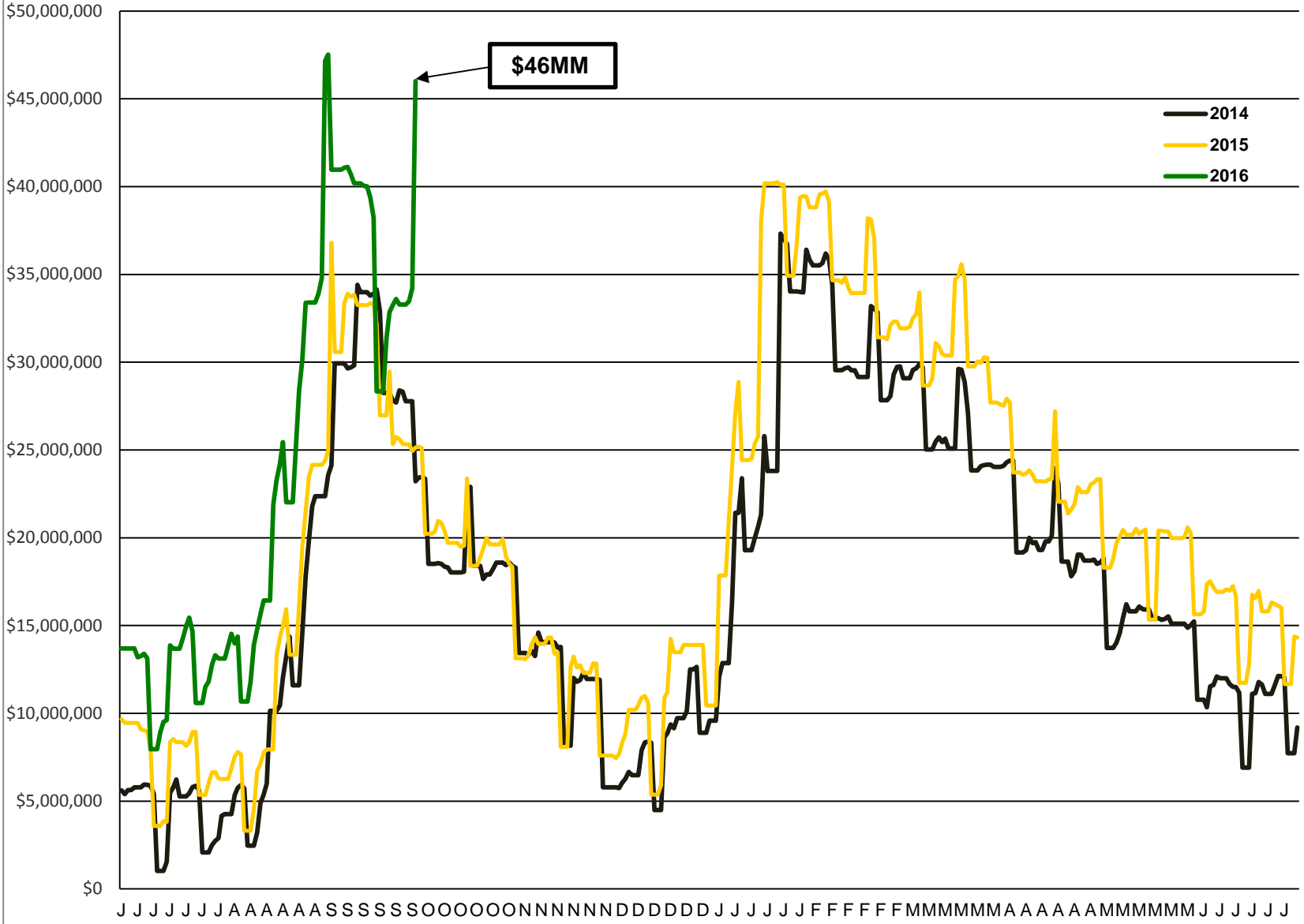
TOTAL: \$13,507,388



Michigan Tech

BUDGET

Cash Balance by Month for Fiscal Years 2014-2016



Current Fund FY15

(unaudited - in thousands)

	<u>Original Projection</u>	<u>June Unaudited</u>
Revenue	\$ 273,076	\$ 272,170
Expense	\$ (272,413)	\$ (270,325)
Net Income	<u>\$ 663</u>	<u>\$ 1,845</u>
Current Fund Balance	<u>\$ 17,784</u>	<u>\$ 18,966</u>

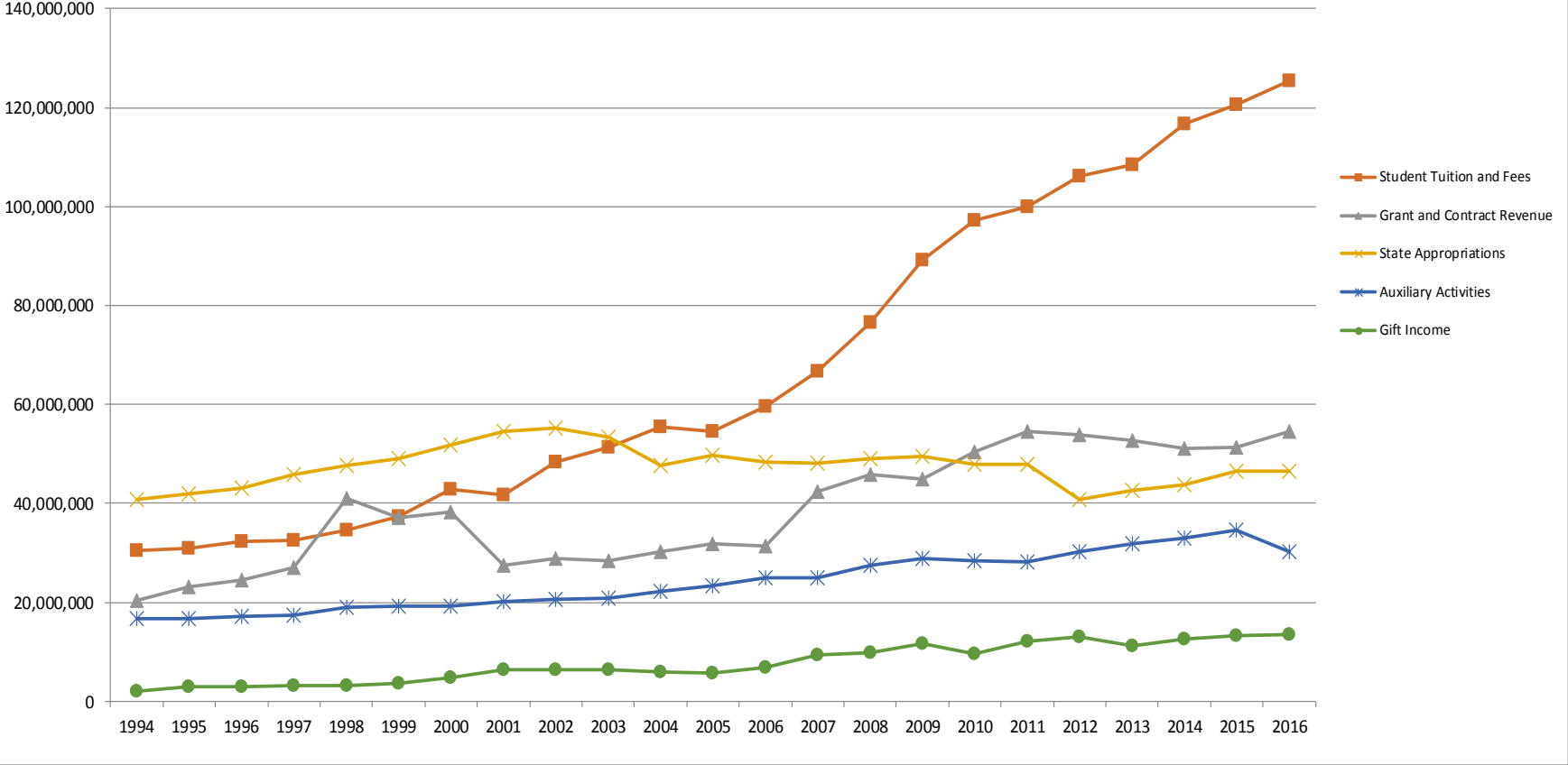
Note: Current Fund includes General, Designated, Auxiliary, Retirement and Insurance, and Expendable Restricted Funds.

Current Fund Balances

(unaudited - in thousands)

	<u>Balance</u> <u>06/30/12</u>	<u>Balance</u> <u>06/30/13</u>	<u>Balance</u> <u>06/30/14</u>	June Unaudited <u>06/30/15</u>
Total Current Fund Balance	\$ 12,488	\$ 13,195	\$ 17,121	\$ 18,966
Legally Restricted Funds	(3,590)	(2,587)	(3,852)	(4,086)
Subtotal Unrestricted Current Fund Balance	8,898	10,608	13,269	14,880
Unfunded Actuarial Accrued Pension Liability	-	-	-	(35,445)
Unrestricted Current Fund Balance	<u>\$ 8,898</u>	<u>\$ 10,608</u>	<u>\$ 13,269</u>	<u>\$ (20,565)</u>

Revenue Trends FY94 - FY16 Current Fund



Michigan Public School Employees Retirement System (MPERS)

- During development of GASB 68, Michigan Office of Retirement Services (ORS) discovered that MPERS universities have been overcharged for pension fund payments.
- ORS then worked with actuaries to compute each university's overpayment amount including interest.
- ORC met with the MPERS universities to explain the overpayment situation and provide the amount of credit each will receive.
- The one-time MPERS refund was received on September 30.
- \$11,784,204 (\$112M for all seven universities).

Advancement

- ❖ 2015 Goal - \$32.5M; Raised \$33.7M
- ❖ 2016 Goal - \$32.5M

Michigan Technological University

Michigan Tech Fund

Goals Summary Chart

July 1, 2015 through September 30, 2015

(in millions)

	<u>FY16 Goal</u>	<u>Actual</u>	<u>% Realized</u>
Major Gifts	\$5.50	\$4.41	80%
Planned Gifts	10.00	9.25	92%
Annual Giving	2.50	0.58	23%
Corp Sponsored Research Corporations	9.00	2.03	23%
Foundations & Other	2.00	0.39	19%
Gifts-in-kind	3.00	0.10	3%
	0.50	0.34	67%
Total	<u><u>\$32.50</u></u>	<u><u>\$17.09</u></u>	<u><u>53%</u></u>

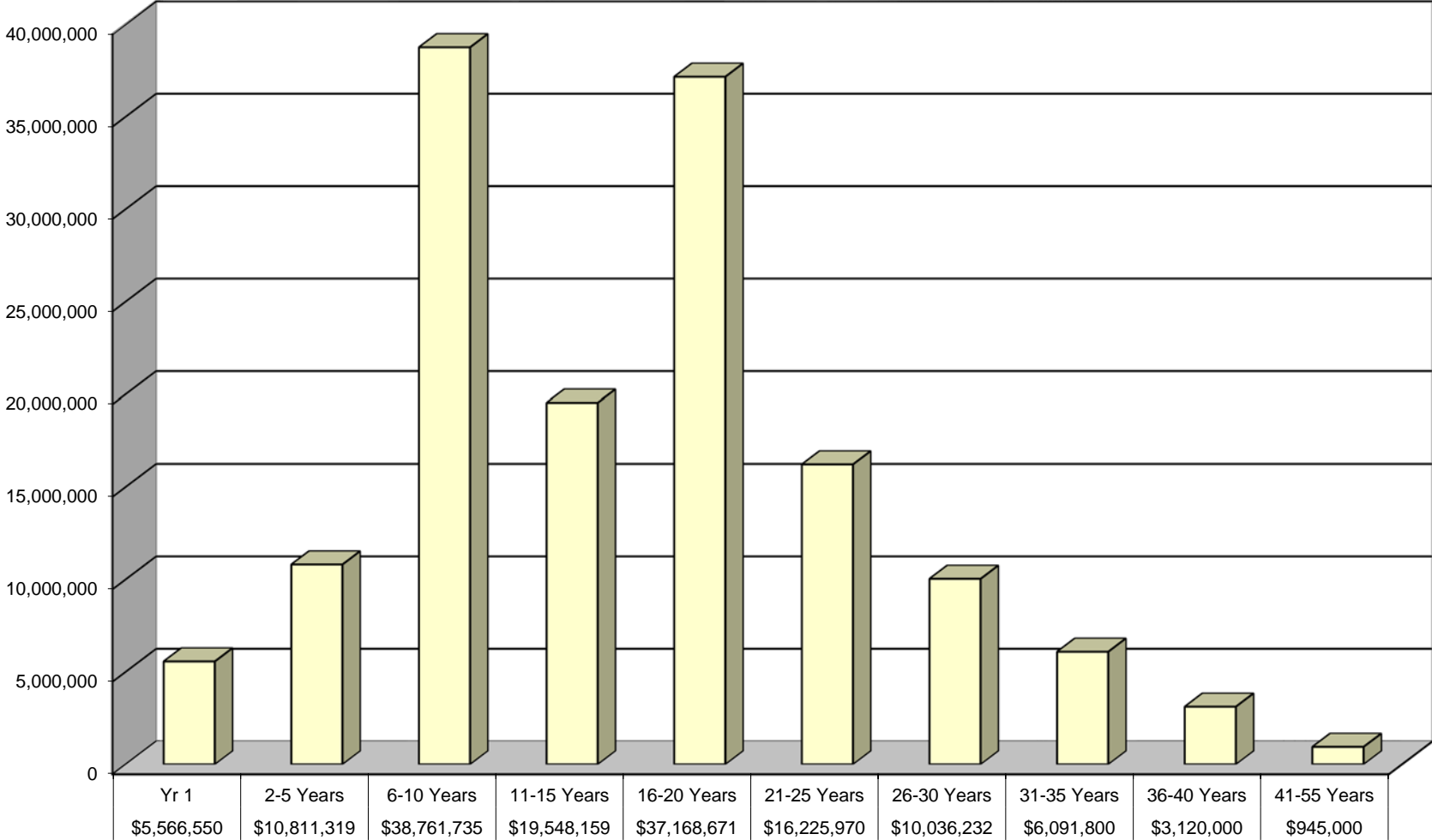
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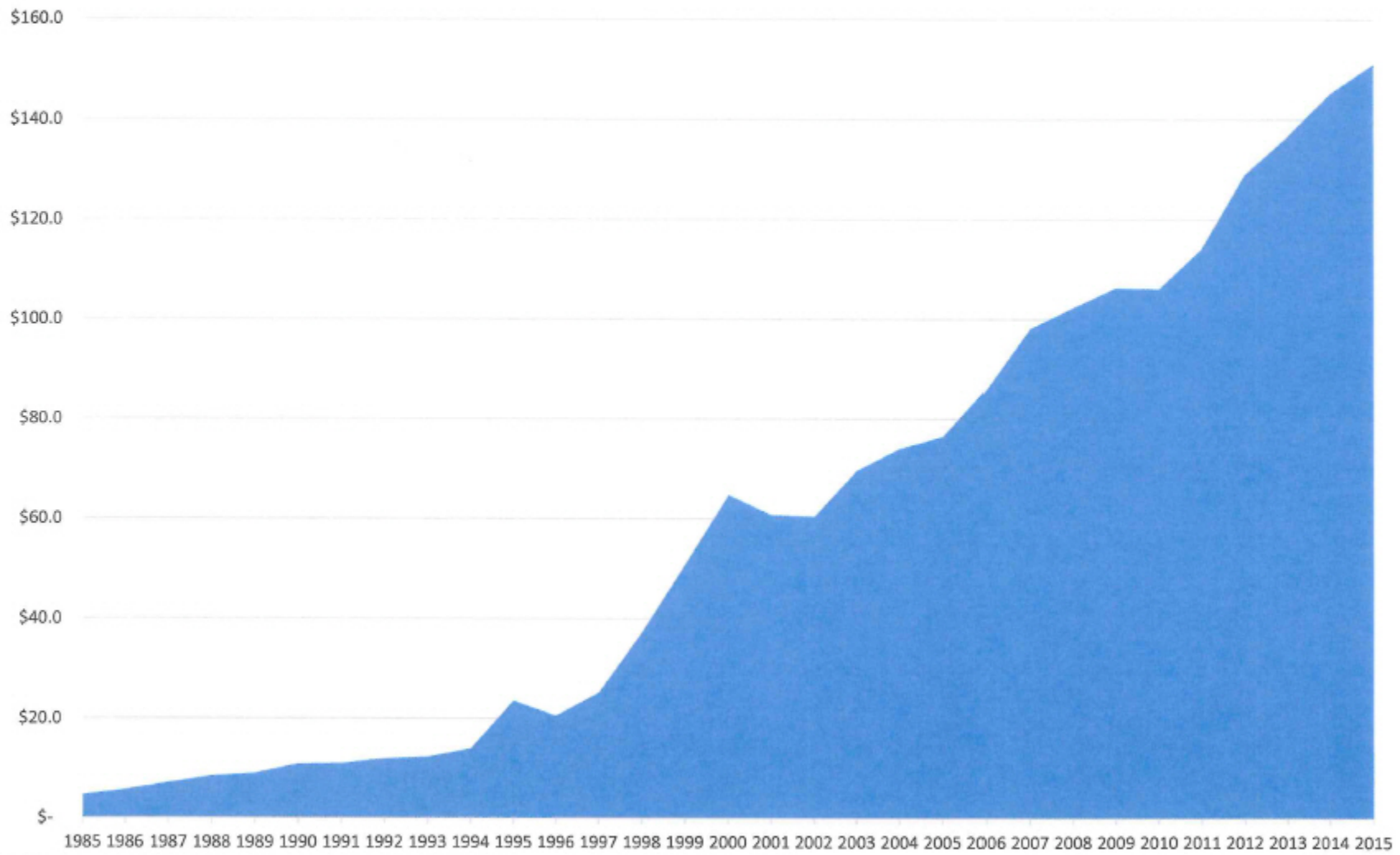
Michigan Tech

Create the Future

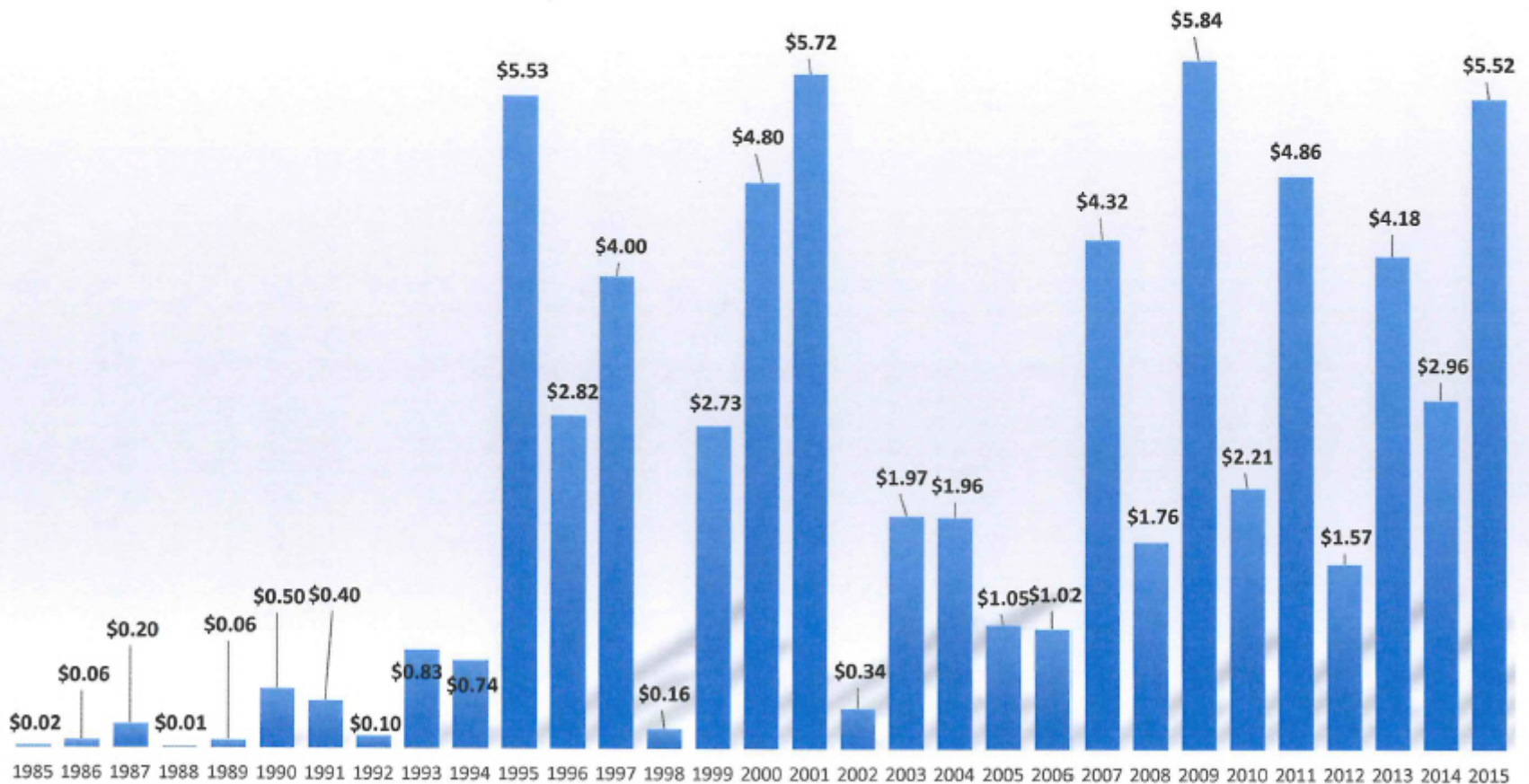
Michigan Tech Fund
Planned Giving Registry (\$150,228,632.02) - Actuarial Expectancy by Years
September 22, 2015



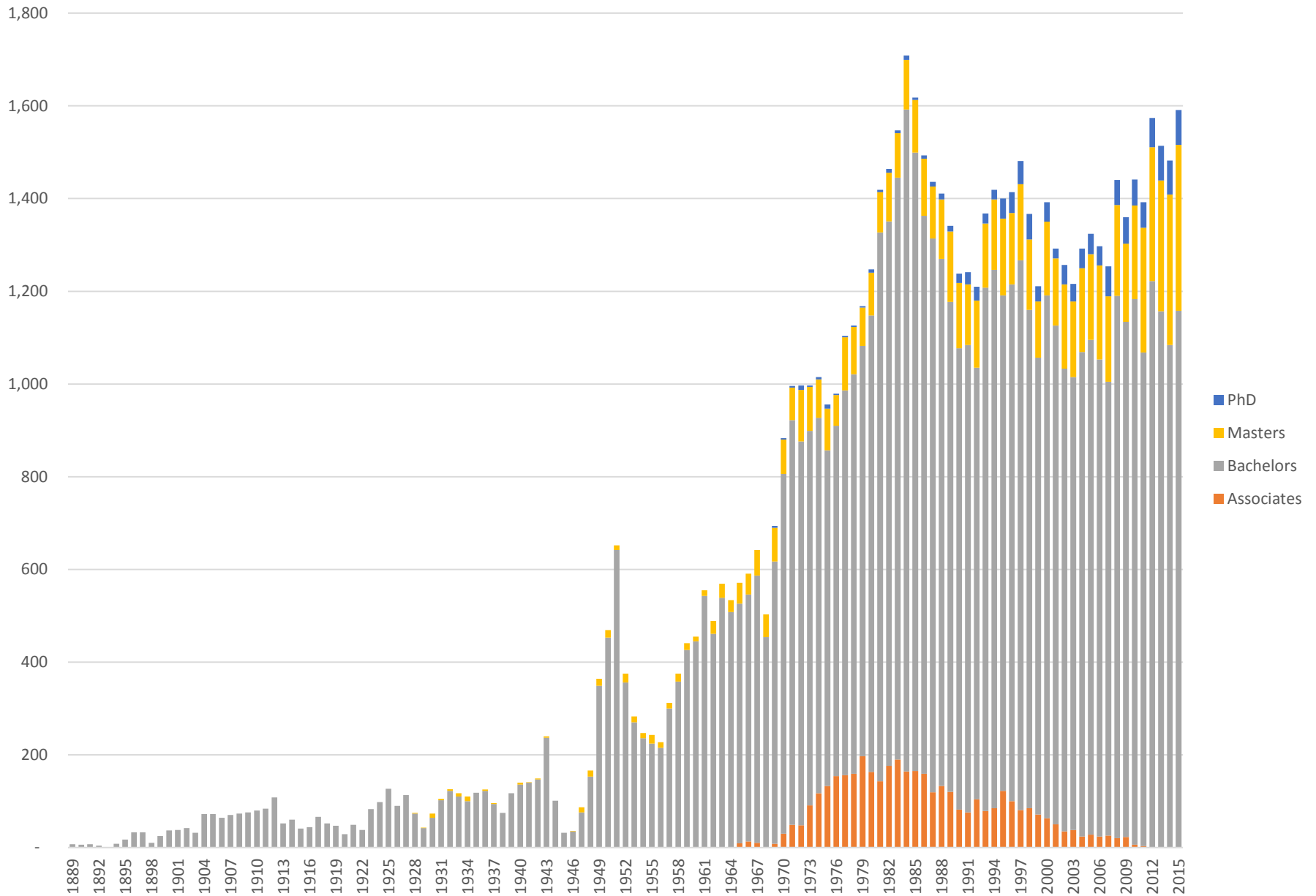
Michigan Tech Fund
Planned Giving Registry Growth
1985-2015
\$4.6 million to \$151.0 million



Michigan Tech Fund
Realized Planned Gifts
1985-2015
(in millions)



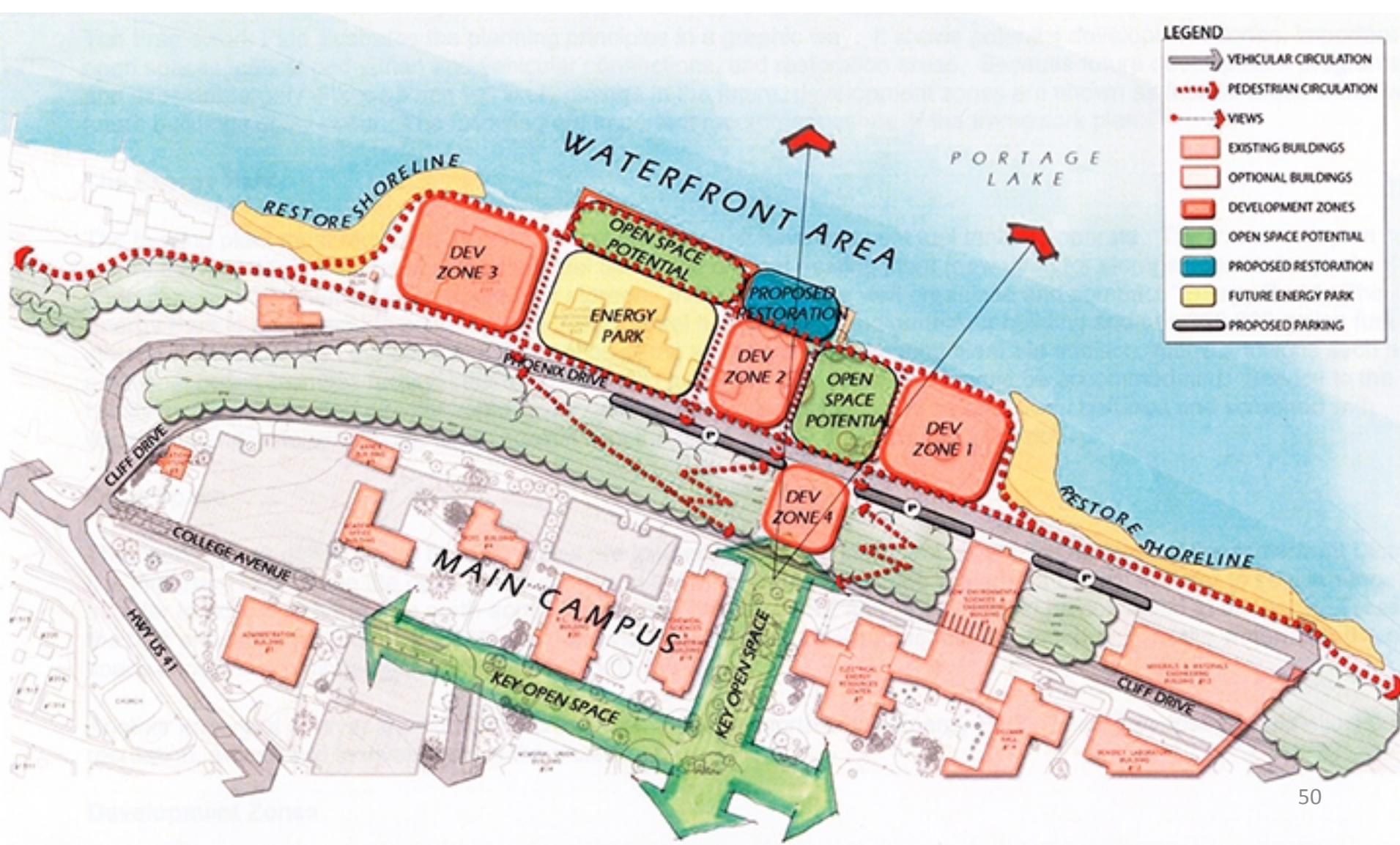
Michigan Tech degree production 1889-2015

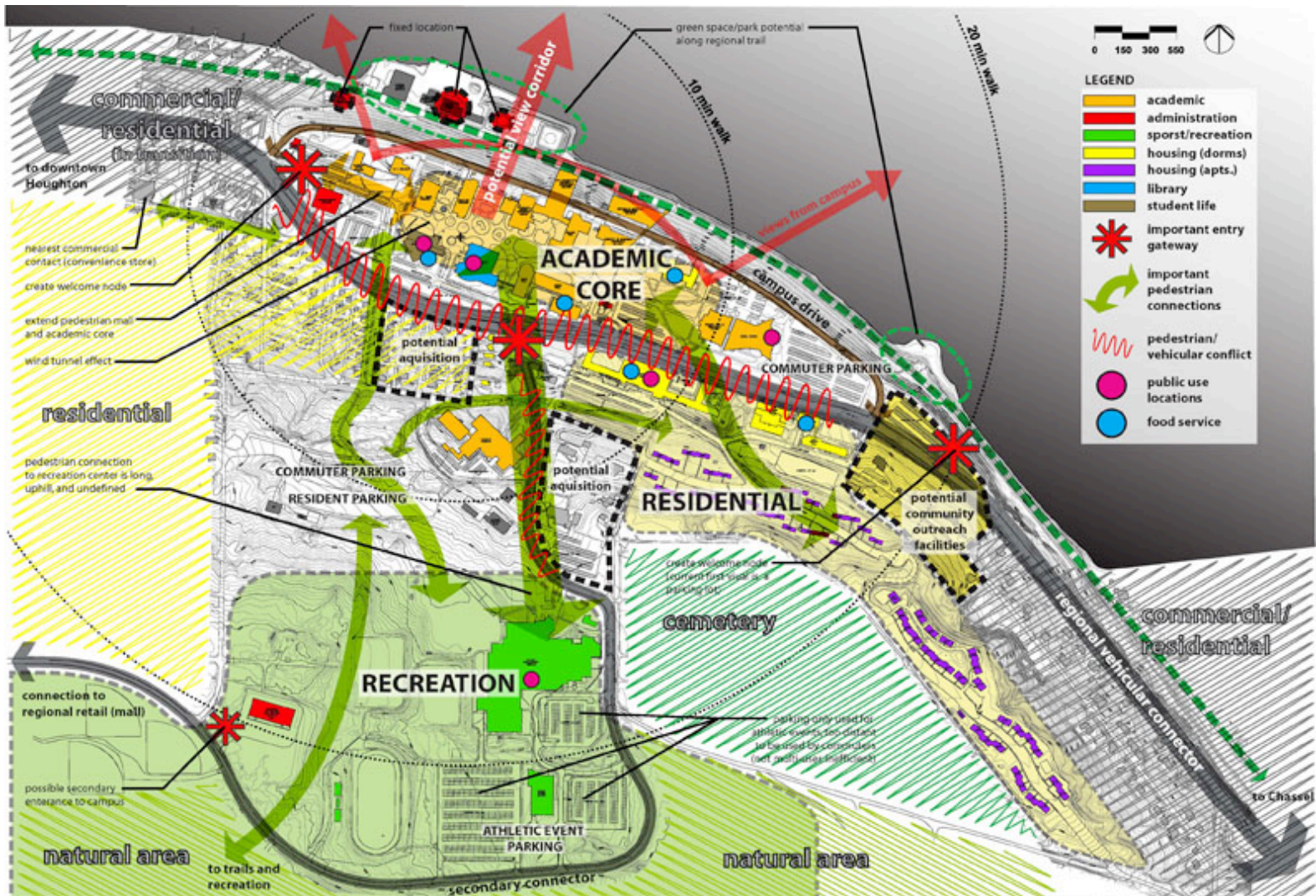


University-Wide Projects

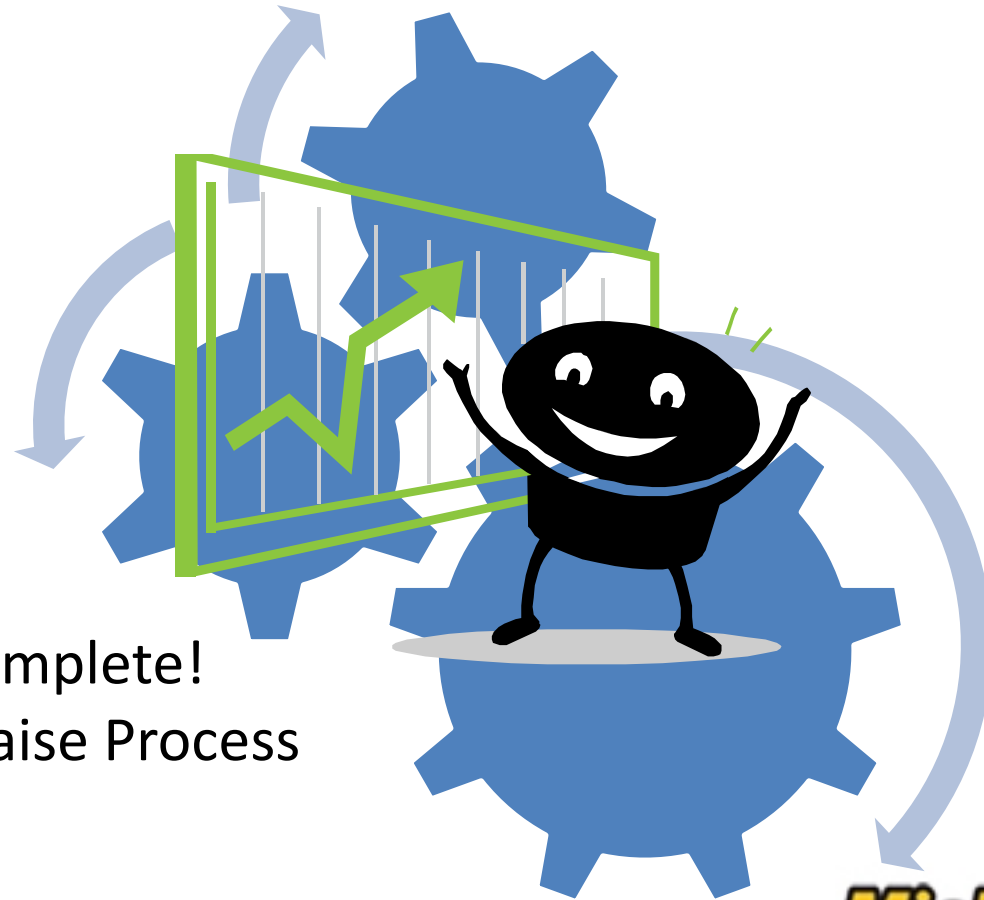
\$25M Bond

- Daniell Heights Maintenance
- IT Fiber Backbone
- Department Moves
 - Print Shop/Mail Room
 - Huskies Motors
 - Public Safety & Police Services
- Safety Issues
 - Elevator Upgrades
 - Fire Alarms
 - HVAC Controls





Re-Engineering Personnel Management Systems (REPMaS)



First Initiative Complete!
Salary Planner Raise Process

REPMaS Charge (Jan 2013)

The REPMaS team will Re-Engineer and enhance the overall use of the Banner HR module within the HR, Payroll, Accounting, and Budgeting Offices to its full capabilities. This includes the implementation of Salary Planner.

Objectives of REPMaS

Evaluate & Improve

- Security Roles
- Data Structure

Improve Data Integrity

Automate Processes

Reduce

- Modifications needed for Upgrades
- Duplication of Effort campus wide

Move toward complete utilization of Banner HR

REPMaS Timeline

Nov 2010 - Data Standard Task Force

January 2012 - Banner HR Process Improvement Assessment

REPMaS – Kicked off in January of 2013

Year 1 2013 –

- Communicate Vision

- Review Current State

Year 2 2014 –

- Develop Implementation Plan

- Develop Processes to Maintain Data Integrity

Year 3 2015

- Began Integrating HR Payroll with Finance

- Roll out Salary Planner Raise Process in Banweb

Year 4 2016 - More coming!

- Financial Planning Tools Available to users across campus

Performance Management Cycle For Non-Union Staff



2015-2016

Compensation Adjustment Timeline*

September 28	Salary Planner to Dept.
October 10	Compensation Changes Completed in Salary Planner
November 2-6	Employees Notified
December 20	Effective Date
January 8, 2016	Paycheck with Adjustment

*Unions Negotiated Separately

Mont Ripley Tubing Park



**Planned Opening –
Late November 2015**

Thanks For All You Do!

QUESTIONS