Georgia Institute of Technology

Campus Master Plan

Presented to the Board of Regents
University System of Georgia
December 9, 1997
Georgia Tech Today...

- **US News** - 9th best public university
- **Students** - approximately 13,000
- **Faculty** - 26 NSF Career Awards
- **Research Funding** - over $250 million
R&D Expenditures, FY95...
Top 30 Colleges and Universities

R&D Expenditures (Millions)
- $350 +
- $300 - $349
- $250 - $299
- $200 - $249

Source: NSF Survey of R&D Expenditures FY 1995
Campus Planning Process...

- Undertook facilities assessment and space study in 1995.

- Formulated long-term capital plan and financing strategy in 1996.

- Initiated campus master plan in 1997.
Facilities Space Study...

Findings:

- 75% of academic space needs upgrading
- Academic space deficiencies
- Competitors building more new space
- Deferred maintenance backlog ($133M)

Implications:

- 70% academic space increase to replace and meet current/future needs (roughly $350M)
60% Buildings over 25 years old...
Capital Plan Development...

- "Facilities Space Study" and academic program evaluations combined to develop plan.

Capital Plan emphases:

- New instructional technologies;
- Interdisciplinary activities;
- Physical plant asset preservation;
- Research and Technology; and,
- Outreach and economic development.
Georgia Tech’s Capital Plan...

- Short Term Capital Request... 5 Years
  Integrated approach... Renovation, New Construction and Infrastructure

- Long Term Capital Plan... 15 Years

- Multiple Fund Sources Strategy:
  - State Funds (generally bonds)
  - Revenue (pay back)
  - Other - donor, campus, etc.
Campus Master Plan...

Objective:
Define a **Vision** for the future campus environment, linked to the...

- **Strategic Plan** - reflecting the overall direction for the Institute
- **Capital Program** - defining the needs of the Institute, Colleges and Divisions
Campus Master Plan...

Plan Scope...
- Guide physical development
- Consider all aspects of the campus development
- Accommodate 15,000 students on campus

Process...
- Consultant - Wallace Roberts and Todd
- Internal - steering committee, town hall meetings, unit briefings, etc.
- External - neighborhood groups, City, etc.
External...

...context area...
Vision and Recurring Themes...

- **One central guiding principle:**
  ...the master plan should attain a “sustainable campus environment.”

- **Three major concepts:**
  - Maximize the use of existing campus resources.
  - Expansion to accommodate future growth.
  - Improve the campus environment.
Functional Sector Plan...

- Defined sectors.
- Academic core - 10-minute walk
- Research, support and residences to periphery
- Future development - North (existing) & Southwest (expand)
Potential Building Sites Plan...

- Increase campus density, building coverage, open space.
- Sites displace surface parking lots, change land uses.
- Consider personal safety, program proximity, ease of access.
Environment, Safety & Access...

- Open Space Framework Plan
- Pedestrian Circulation Plan
- Vehicular Circulation Plan
- Transit System Plan
Parking System Proposals...

- Parking structures on perimeter; connect to pedestrian pathways and transit system.
- Reduce demand for on-campus parking.
- Design safe and attractive facilities.
Utilities Infrastructure Analysis and Plans...

- Steam
- Gas
- Chilled Water
- Fiber Network
- Electricity

- Sanitary/Sewer
- Water
- Telephone
- Tunnel Distribution
Campus Master Plan...

Thank you for your time and attention...

Now, please enjoy a 3-dimensional computer generated “flyby” representation of the Georgia Tech campus of the future...
# Georgia Institute of Technology
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### Shown on Presentation Boards

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The Georgia Institute of Technology
Campus Master Plan

Figure II-1.4
Academic Core

North Campus

Student Residential

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1

ixistwg: Campus Property

TT'TTt'~ P(4>pd)se^J jCfampus Expansion

Legend (Existing Campus Facilities & Functions)

- Academic Instruction & Research
- GTI
- Athletic Association
- Campus Support
- Residential
- Student Support
- Academic Support
- Other
- Parking Decks
- Fraternities & Sororities
- Religious Facilities
- Student Athletic Center
- Intercollegiate Facilities
- Future Buildings
- Proposed Functional Sectors

Functional Sector Plan

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Campus Master Plan

Figure II-1.1

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Scales: 1"=800'

Legend

Marietta Street Corridor

West Campus Student Residential

North Avenue Corridor

Intercollegiate Athletics

North Campus Student Residential

6th Street N.E.

Recreation

Multidisciplinary Academic/Research

Academic Core

Existing Campus Property

Proposed Campus Expansion
Figure II-1.2

Building Sites Plan

The Georgia Institute of Technology Campus Master Plan

Legend
- Future Building Sites
- Potential Building Footprints
- Proposed Functional Sectors

Scale: 1"=800'

December 2, 1997
Legend

On-Campus Framework
- Campus Pedestrian Spine
- Campus Pedestrian Links
- Pedestrian Only
- Pedestrian / Auto

Off-Campus Framework
- Linkage Improvements
- Streetscape / Sidewalk Improvements

Pedestrian Circulation Framework Plan

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Campus Master Plan

Figure 11-2.2
Basting Campus Property
Propose Campus Expansion

December 2, 1997

Legend
- Campus Perimeter/Approved Routes
- Campus Collector Route
- Campus Access Routes
- Campus Neighborhood Streets
- Campus Service Routes

Potential New Campus Access Routes
• Proposed Street Closure
• Pedestrian Gateways
• Major Campus Entrance/Gateway
• Minor Campus Entrance/Gateway

Vehicular Circulation Plan
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Campus Master Plan
Figure II-4.1
Stinger Shuttle Route Plan E

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Campus Master Plan

Figure II4.7
**Figure II-5.2**

Chilled Water Distribution System

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Legend

- Existing Campus Property
- Proposed Campus Expansion

Proposed Chilled Water Storage Site

Chilled Water Plants

Existing Chilled Water Piping

Proposed Chilled Water Piping

Scale: 1" = 800'

December 2, 1997
Electrical Distribution System
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Campus Master Plan
Figure II-5.4
Figure 11-5.3

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Campus Master Plan

Fiber Network

Legend

- Existing Cellular/Interconnects
- Proposed Cellular/Interconnects (located at Parking Lots)
- Future Growth
- Existing Campus Property
- Proposed Campus Expansion
- Existing Main Info Network
- Proposed Main Info Network
- Existing Network (Future Spoke)
- Proposed Spoke

December 2, 1997

Fiber Network

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Figure 11-5.3
Georgia Institute of Technology

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