Strategic enrollment considerations

- State of Georgia initiatives
  - Telecom, nanotechnologies, cancer, etc

- USG strategic plans
  - A more educated Georgia, rising enrollments
  - Global, technological society

- GIT strategic plan initiatives
  - Educational demand for GIT disciplines and interdisciplinary initiatives
  - Research mission
  - Economic development/commercialization
Projecting enrollment to 2020

- **Undergraduate**
  - 12,000 students in Atlanta
  - Up to 4,000 GTREP students in SE Georgia
  - Another GTREP location?
  - France, Singapore campuses; others?
  - Distance learning

- **Graduate**
  - 10,000 students in Atlanta
  - 400 students at Georgia Tech-Savannah
  - France, Singapore campuses; others?
  - Distance learning
The 2004 Update:
Objectives of this Exercise

• **Update to the 1997 Campus Master Plan**
  – Increased enrollments and research activities
  – Resultant increases in faculty and staff
  – Minimal additional property
  – Evolving strategic initiatives
  – Special opportunities

• **Focus on Specific Elements**
  – Sustainability
  – Accessibility
  – The ground plane
  – The area of interest
  – Collaborative planning with community constituencies
  – Carrying capacity for new facilities
The 1997 Master Plan

- Increased green space
- Dedicated pedestrian ways
- Structured parking at the periphery
- Expand campus to the southwest

- New Building Sites: Capacity for 3.2 million GSF
The “2002” Master Plan
(A Continual Updating of the CMP)

Construction & Major Renovation Since 1996
Under Construction
In Planning

$500 million and 2.7 million SF later…
Goals

Education / Economic Development

- Enhancement of the campus environment.
  - Open spaces that encourage and support passive and active recreation.
  - Buildings and building complexes that foster trans-disciplinary interaction.
- Support strategic initiatives and goals.
  - Selected enrollment growth.
  - Academic excellence.
  - Technology-based economic development for Georgia.

Ecology

- Respect for and renewal of the urban forest and the tree canopy.
- Effective employment of “green building” technologies.
- Use of natural/native vegetation systems.
- Substantial reduction of storm water runoff.
- Effective use and stewardship of current physical resources.
  - Respect for and maintenance of the historic districts.
  - Ensuring infrastructure capacity for current and future facilities.
- Design guidelines that mandate flexibility, maintainability, and longevity.
- Accommodate changing conditions and opportunities.

Economy

1997 Overview
2004 Framework
Accessibility
Special Places
Ground Plane
Transportation
Athletics
Not Included
Since 1997
Facility Expansion
Sustainability
Area of Interest
Parking
Housing
Recreation
Acknowledgements
Conceptual Framework

Traditional campus vs. Knowledge-based campus

- Internally oriented.
- “Ivory Tower” isolated and apart from the community.
- “Silos” of knowledge.
- Single-purpose facilities.
- Traditional campus and facilities.
- “Monastic Lifestyle”.
- Consumer of resources.
- Uses traditional funding sources and project delivery methods.

- Internally and externally oriented.
- Engaged with the community.
- Trans-disciplinary teaching and learning community.
- Multi-functional / interdisciplinary and adaptable facilities.
- Distributed activities for movement of people and electronic communications.
- Study / Play – Live / Work community.
- Steward of resources.
- Leverages partnerships and funding sources to achieve the best, most cost-effective facilities.
# Space Needs Projections: Total Campus

## Current Campus Space

*(Atlanta Campus, December, 2003)*

<table>
<thead>
<tr>
<th>Principal Use of Buildings</th>
<th>Gross Area (GSF)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Academic Instruction and Research</td>
<td>5,967,041</td>
</tr>
<tr>
<td>Athletic Association</td>
<td>352,779</td>
</tr>
<tr>
<td>Student Support &amp; Auxiliaries</td>
<td>4,318,182</td>
</tr>
<tr>
<td><strong>Institute Total</strong></td>
<td><strong>10,638,002</strong></td>
</tr>
<tr>
<td><strong>Under Construction/In-Planning</strong></td>
<td><strong>725,000</strong></td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>11,363,002</strong></td>
</tr>
</tbody>
</table>

## Projected Campus Space

*(assume year 2020)*

<table>
<thead>
<tr>
<th>Principal Use of Buildings</th>
<th>Gross Area (GSF)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Academic Instruction and Research</td>
<td>10,000,000</td>
</tr>
<tr>
<td>Athletic Association</td>
<td>425,000</td>
</tr>
<tr>
<td>Student Support &amp; Auxiliaries</td>
<td>5,500,000</td>
</tr>
<tr>
<td><strong>Institute Total</strong></td>
<td><strong>16,000,000</strong></td>
</tr>
</tbody>
</table>

* Necessary to meet current workload demand.
Potential New Buildings

Assuming 3 – 4 story buildings, the proposed building footprints will support an additional 3.0 – 3.5 million gross square feet.
Accessibility Issues

- The macro planning is for mobility impairments; other disabilities are managed more at the micro level.

- The constituencies of concern are employees and visitors as well as students.

- Of significant influence in planning: *handicapped accessible* or *handicapped friendly*. 
Sustainability: Key components

**Facility Design**
- Energy Conservation
- Indoor Air Quality
- Selection of Materials
- Construction Methods
- Guidelines & Standards

**Landscape Design & Management**
- Native Vegetation
- Increased Tree Canopy
- Reduced Impervious Surface
- Performance Landscapes
- Storm Water Management

**Operations**
- Energy Management
- Alternative Fuels
- Reduce/Reuse/Recycle
- Thoughtful Renovation

**Goals**
- *Reduced Hydrocarbon Emissions*
- *Reduced Material Consumption*
- *Reduced Water Consumption*
- *Reduced Storm Water Runoff*
“Special Places”

Portions of campus that, because of historic, aesthetic, and/or ecologic significance will be preserved in perpetuity.
Areas not adjacent to the campus are important as potential sites for development by entities sympathetic with or complementary to the mission of Georgia Tech.

The areas immediately surrounding the campus may provide opportunity for partnerships or acquisitions that directly support the academic and research missions of the Institute.

GIT really cares about and wants to influence the development in these areas to ensure that future developments are mutually beneficial to GIT.
PROPOSED: 420 acres

EXISTING LAND USE:
- Academic Instruction & Research: 50%
- Athletics: 10%
- Student Support & Auxiliaries: 9%
- Open & Green Space: 7%
- Recreation: 4%
- Streets & Surface Parking: 4%

EXISTING: 400 acres

PROPOSED LAND USE:
- Academic Instruction & Research: 15%
- Transportation: 11%
- Athletics: 6%
- Student Support & Auxiliaries: 11%
- Open & Green Space: 52%
- Recreation: 5%
- Streets & Surface Parking: 11%
THE CAMPUS MASTER PLAN

http://www.space.gatech.edu/masterplan.htm

2004 Update
Version 6.1 (SUMMARY), September 15, 2004