

### PROJECT GOAL

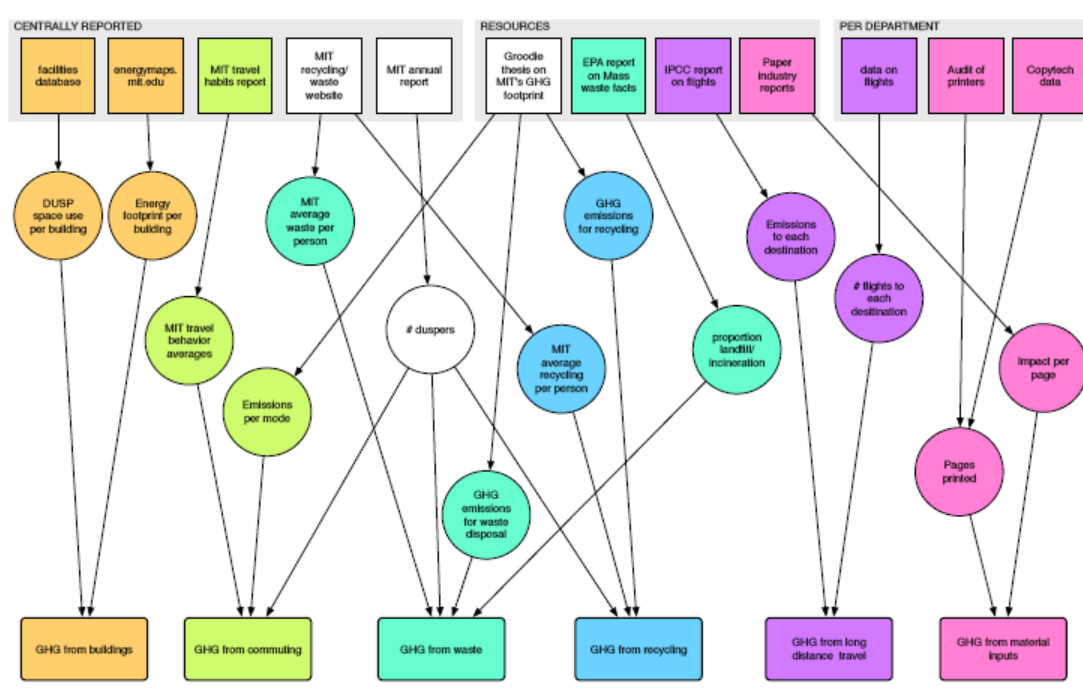
This project aims at initiating the development of an environmental footprint assessment tool that would help guide MIT Sloan's greening/sustainability efforts. Eventually, such a tool should serve two purposes:

- **Understand the roots of MIT Sloan environmental footprint, i.e.**
  - its various components (types of emissions, pollutions, wastes...),
  - their relative importance in terms of environmental impact, and
  - the types of unsustainable behaviors that amplify and/or cause such footprint.
- **Establish a systematic cost-benefit analytical framework for MIT Sloan's greening/sustainability initiatives, i.e.**
  - organizing/prioritizing possible actions according to various dimensions, e.g. potential impact on footprint reduction, degree of feasibility/control and financial cost.

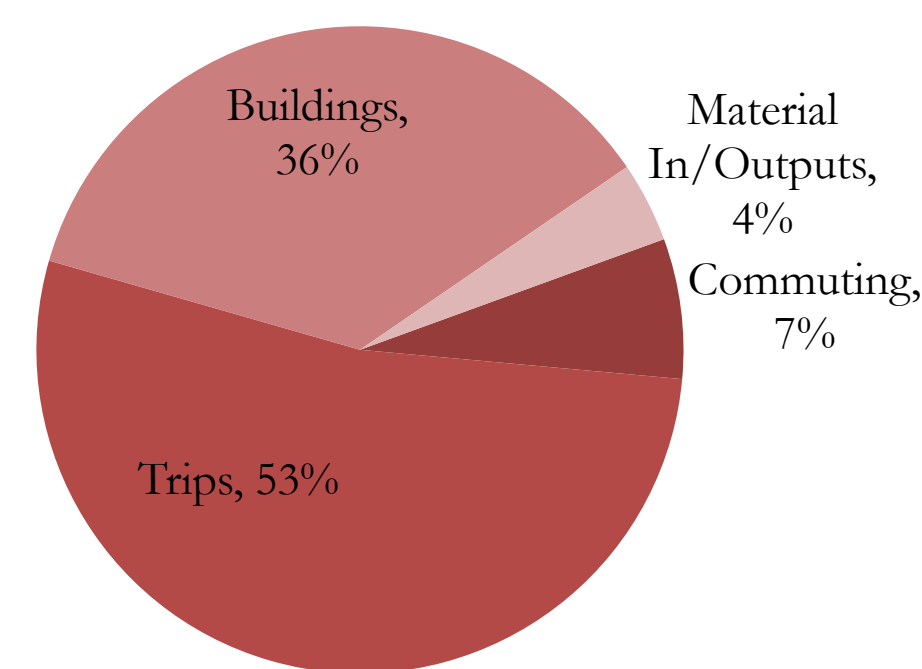
### ENVIRONMENTAL FOOTPRINT: INITIATIVES AT MIT

#### ■ DUSP Greenhouse Gas Emissions Audit

##### METHODOLOGY



##### RESULTS GHG Emissions Breakdown

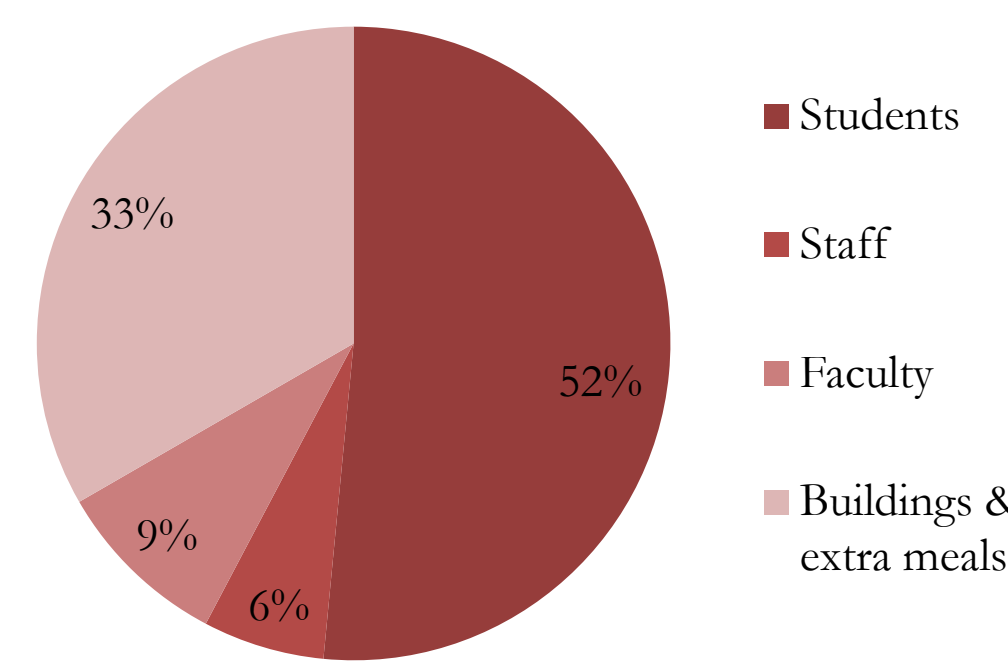


#### ■ Check Other MIT Initiatives at

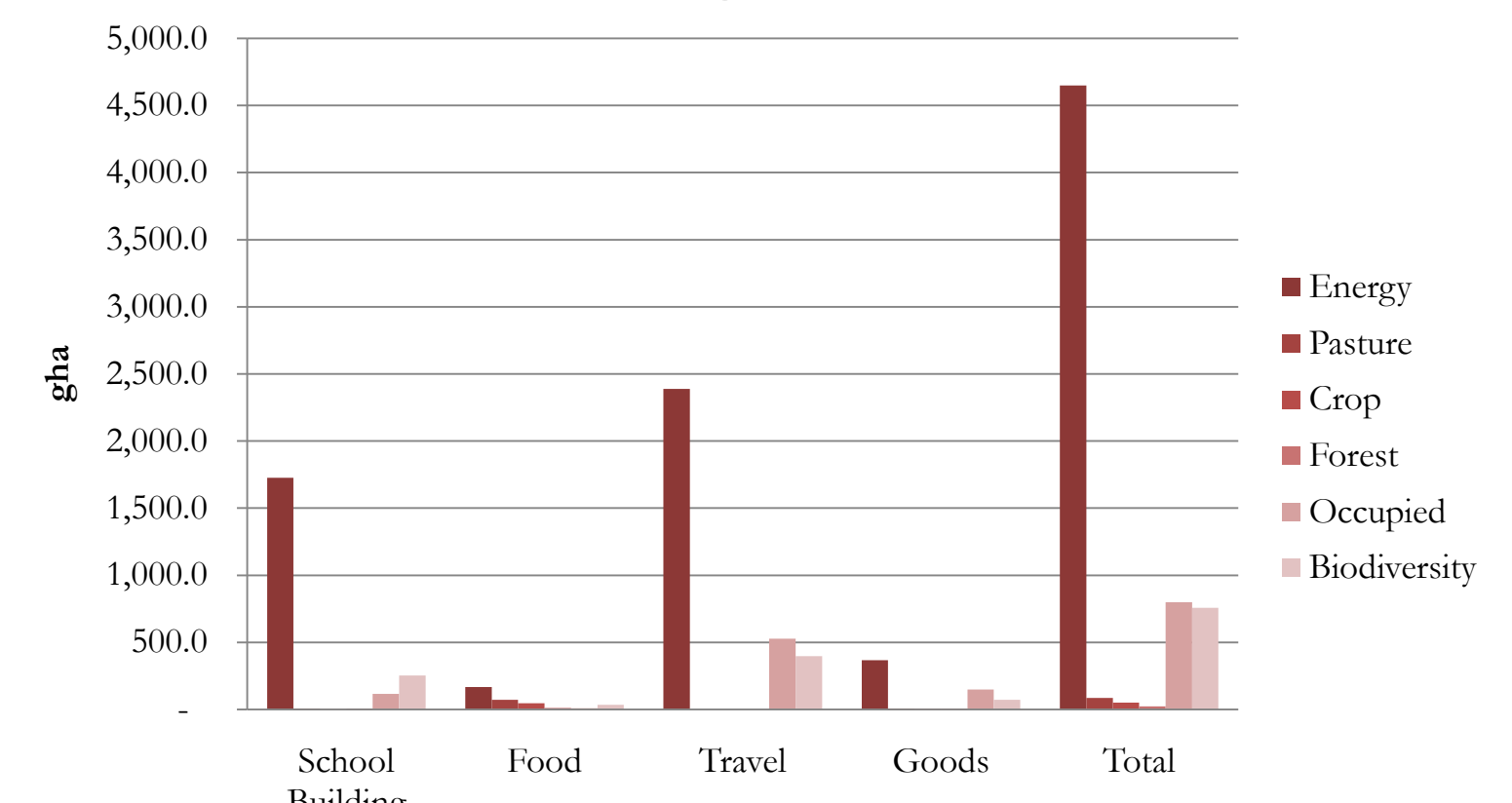
- Footprint: <http://footprint.mit.edu>
- Sustainability at MIT: [http://sustainability.mit.edu/Main\\_Page](http://sustainability.mit.edu/Main_Page)
- MIT Generator: <http://sustainability.mit.edu/Generator>

### MIT SLOAN ENVIRONMENTAL FOOTPRINT

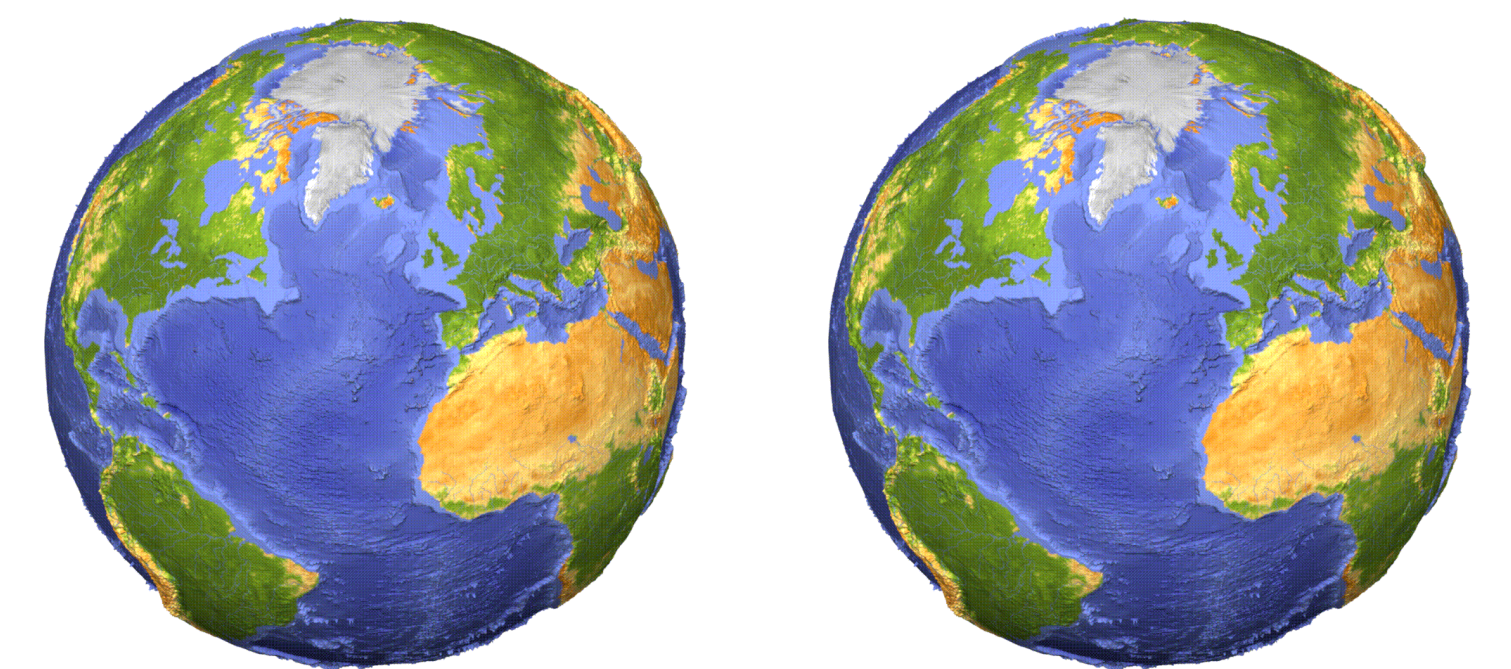
#### Ecological Footprint Breakdown



#### Sloan Ecological Footprint



■ in order to sustain the way of living at Sloan, **1.99 Earth** are required!



### RECOMMENDATIONS

- **Continue over the coming years the footprint analysis work initiated by this project so as to create the monitoring and valuation tool, which ultimately motivated this study. This involves for instance:**
  - The design of data tracking systems, which would improve and systematize environmental footprint data collection
  - Working with DUSP to develop, improve and implement the methodology they have started to create
  - The design of the appropriate MIT Sloan academic and administrative structure in order to ensure continuity and coordination
  - The design of community objectives around observable and publicized metrics so as to maintain and grow the involvement of the MIT Sloan community
- **Create over the next years more projects (within S-Lab or not) focused on the analysis and improvements of the sustainability of Sloan processes**
- **Lead the organization and coordination of initiatives and projects within the MIT community and push for their implementation**
- **Promote the development coordinated partnerships with other universities, local universities at first. Such partnerships could cover for instance research, education, communication or program implementations**

#### Draft list of possible systemic/policy level actions at MIT Sloan

- Installation of automatic lighting controllers, e.g. timers/sensors
- Installation of more efficient lighting, e.g. low-pressure sodium light bulbs
- Find and promote ways to develop alternative energy sources such as direct sunlight or solar energy (e.g. window panes with solar cells)
- Set computer to automatically enter low-power mode after a certain period of inactivity
- Off-peak lab computers shutdown
- Implement systematic double-sided printing: all printers should have that capability, which should be set as default
- Participate in take-back programs for IT equipment
- Push for the installation of high energy efficient washers, dryers and refrigerators for common use in dormitories used by the MIT Sloan community
- Organize a challenge within dormitories used by the MIT Sloan community to identify ways to save energy
- Study possible ways to subsidize nearby housing for the workforce
- Provide continued information on more environmentally friendly transport programs
- Provide recycling bins next to all regular trash
- Improve signaling and information for trash recycling
- Organize an university wide contest for the design of one-stop sorting recycling bins
- In partnership with the E52 refresher course,
  - Promote bulk serve items
  - Promote the use reusable/washable dishware – disposable for take-away only
- Incentivize people to bring their own mug (e.g. price reductions, i.e. some proportion of the cost of disposable packaging, on beverages)
- Switch to the greatest extent possible to fully biodegradable dishware
- Donate food surpluses that meet standards to local homeless shelters and food banks
- Implement composting of all post-consumer organic waste
- Develop vegetarian meal options
- Inform customers on the environmental impacts of the various types of food
- Promote local supply chains
- Include reusable mug and a reusable flatware packet in orientation freebies
- Implement a clear and systematic purchasing policy based on the preference for environmentally items. For instance,
  - Purchase Energy-Star labeled IT products and Eco-PCs
  - Purchase paper items with a minimum percentage of recycled paper
- Implement document margin and font size policies that will optimize paper use
- Promote/facilitate the purchase of used books
- Maximize online content (e.g. course packets, exams, papers via electronic format)
- Off-peak monitoring and minimization of air conditioning while preserving good working conditions
- Improve sustainability in academic life (e.g. set optimal number of work hours per person and per week, incorporate sustainability issues in core curriculum, develop cross-department courses related to sustainability)

#### Draft MIT Sloan Sustainability Charter

- **I commit to**
  - Switch off the lights whenever I am the last one to leave a room
  - Switch off electronic apparatus when not in use
  - Purchase used books as much as possible when purchasing books
  - Purchase paper with the highest content of recycled paper possible
  - Use as much as possible a reusable mug and dishware
  - Take the stairs as much as possible
  - Print wisely if printing out cannot be avoided
  - Use electronic documents as much as possible
  - Recycle my garbage
  - Not to overload myself or others with too much work and/or activities
  - Keep myself informed about issues/actions related to Sustainability
- **I understand**
  - The environmentally friendly ranking of commuting modes is, from best to worst: Human powered means / Public transportation / Car pooling / Motorcycle / Car
  - The environmentally friendly ranking of food consumption is, from best to worst: Vegetarian food / White meat / Red meat
  - Trips by plane, in particular repetitive short-haul trips, are extremely damaging for the environment
  - Consuming seasonal products outside of the appropriate season is not environmentally friendly
  - My way of living and consuming is not sustainable