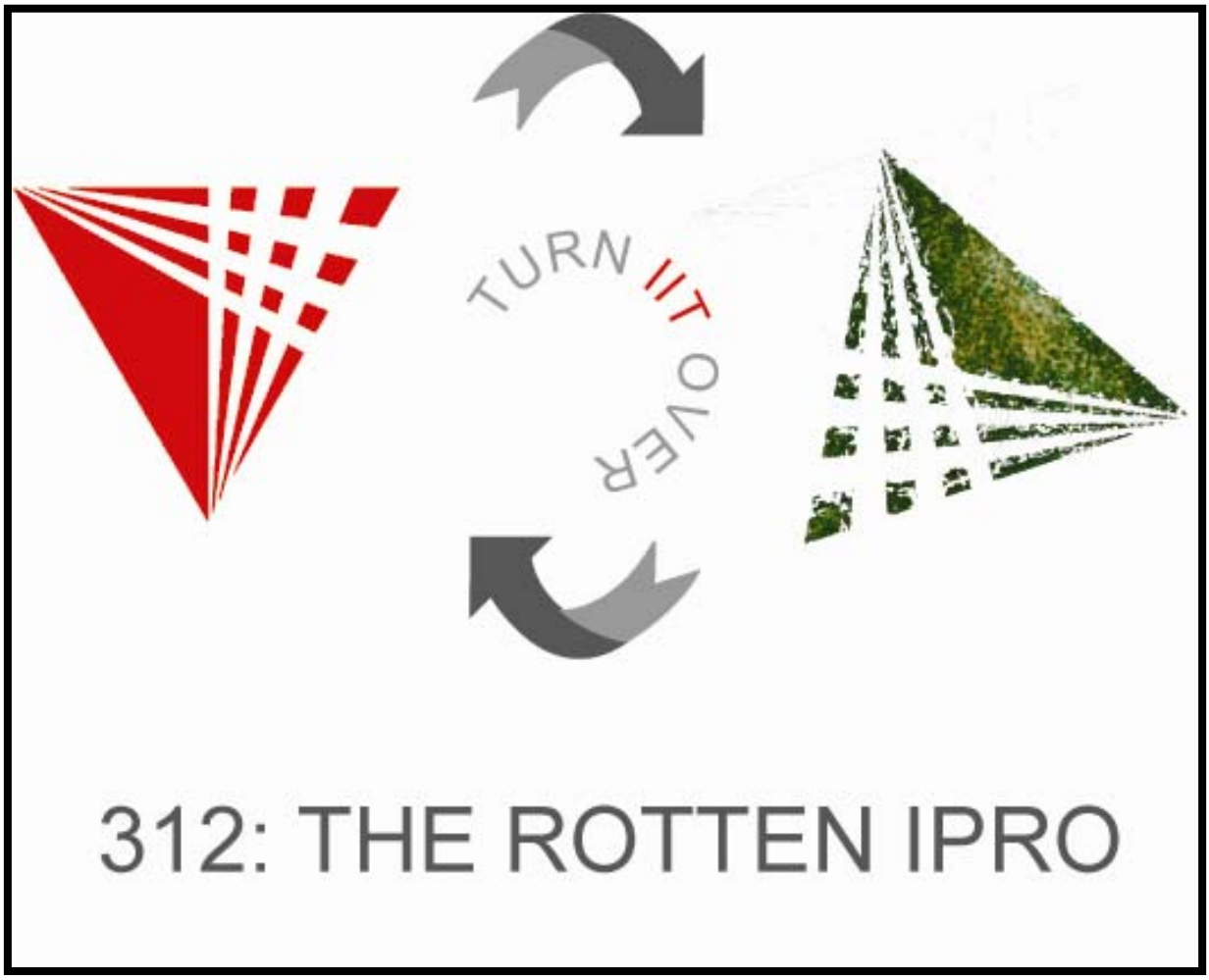


Project Plan

Spring 2009

1. **Team Information**

NAME	MAJOR / MINOR / YEAR	SKILLS AND STRENGTHS	EXPECTATIONS
University Affairs			
Lisa Nielsen	Civil Engineering, 3rd	Communicating with different groups of people, listening, and trying to come up with solutions.	How to research more in depth, presentation skills, and keeping things organized.
Stacy Morton	Architecture, 3rd Year	-Visual and oral presentations -Public speaking	-Develop research skills -Learn to determine value of a project
Waste Management Strategies			
Emily Ryan	Architecture, 4th Year	Leading, following, research, computer, model making, talking to people.	Working with a group. Get as much diverse information about Composting.
James Rossi	Architecture, 5th year	-Graphic design	-Improving team skills, communication skills
David Olichwier	Biology, 4th year	Research and organization. Biology background.	-Improving team skills. -To determine if a compost facility is feasible at IIT.
Richard Gulling	Architecture, 4th Year	Background experience in composting and eager to expand knowledge on topic.	Learning about composting methods and whether or not it is a practical solution.
Other universities and city strategies			
John Dominski	Political Science, 4th year	Analyzing things from different angles and perspectives.	-Develop a new way to think about team collaboration and success. -Learn to innovate and conceptualize composting on different scales
Shamette Owens-Woods	Psychology, 2nd year	research	-patience -learn how to work with others to get common goal
Matthew Coad	Architecture, 4th year	organization skills good at researching strong construction knowledge some experience in composting on family farm	group organization skills innovative solutions for real world problems
Matthew Cargill	Architecture, 4th Year	Research, Creative Solutions, Graphics, Presentation	Working better as a team and advancing my skills in communicating with others
Planning and Organization			
Paulina Szpiech	Architecture, 5th year	Graphic design, promoting, organizing, people networking, creative tasks.	Create more sustainability awareness. Team building and organizing skills. To create a well working group with equal input from everyone and common goal.
Cindy Oblenida	Architecture, 4th year	sketching, drawing/drafting, rendering, and model making, visual and graphic design, working in a team in both school and work settings	-Knowledge on the process of composting. In addition, how to integrate the 'cradle to cradle' philosophy into everyday life.
Isida Karpuzi	Architecture, 5th year	-Presentation design - Organization of data - Delegating tasks - Dedication to project	-Learn about composting techniques - strategies for energy solutions

2. **Team Purpose and Objectives**

Our team, IPRO 312: The Rotten IPRO's goal is to determine the best method on how to recycle organic waste generated by the university. Research and analysis will inform us on whether initiating a composting facility on campus is feasible or not. The opening of a composting facility can reduce the university's environmental impact. Furthermore, IIT can serve as a model to expand composting across the city of Chicago.

Team Objectives include the following:

- To conduct research on the process of composting and become familiar with the mechanics of it
- To complete case studies of composting facilities operated by other universities and within Illinois
- To examine municipal regulations regarding organic waste recycling
- To investigate the amount of organic waste that IIT produces on a weekly or monthly basis
- To establish contacts within IIT including the Sustainability Committee, waste management service provider (Premier Recycling), and personnel associated with the sources of organic waste (food service provider, Sodexo and maintenance crew)

- To seek the guidance of outside sources affiliated with sustainability (Kevin Pierce, Ken Dunn, ComEd Exxlon)
- To determine the best strategy to dispose of organic waste generated by IIT
- To present the team's results to the administrators of IIT
- To raise awareness among IIT's student body on the significance of organic waste recycling

3. **Background**

With Illinois Institute of Technology's growing participation in green and sustainable topics, IPRO 312-The Rotten IPRO's goal is to add to the university's green program an on campus waste management and composting facility. IIT, being a pioneer school for engineering and architecture, enlists the aid of a strong, skilled, and knowledgeable group of students to determine how composting can directly improve the IIT environment and neighborhood as well as if the on-campus composting facility is a feasible project or not.

With increased awareness about sustainability, people become more conscious about organic waste as well as how composting on small scale can affect communities and the environment. Across United States several Universities, such as Cornell University, Vermont University, and University of California Berkeley, have taken action upon organic waste removal and composting and serve as examples of successful organic waste management, awareness, and research. More research is done to determine the feasibility of local composting as well to develop and design facilities to conduct activities based on efficient energy and proper material use. The idea behind such research is to minimize the impact that organic waste has on the environment and community.

The team will evaluate existing composting systems as well as possibilities for organic waste control and composting. The team will integrate research as well as knowledge and skills gained as students from different IIT departments and educational backgrounds. Consolidated research will allow taking decision as to what can be done directly on IIT campus and how on-campus composting will affect the local community. Research will also determine the exact way composting needs to be managed not to disturb the everyday life on campus as well as residences around it. Waste and smell need to be handled appropriately especially when held on an commercial/residential/educational sites. That is an issue that the IPRO 312 may face, along with the design of cost efficient composting station.

The IPRO 312 will become consultants for Illinois Institute of Technology on the topics of composting and organic waste recycling to be able to decide what plan of action can be implemented into IIT's sustainability commitment.

4. Team Values Statement

IPRO 312-The Rotten IPRO will conduct official meetings once a week during class time (Thursdays 6:25-9:00) with all members present and on time. Thursday sessions will give all subgroups the opportunity to present their work progress.

All subgroups will conduct independent meetings. All IPRO 312 team members will be informed about the place and time for the subgroup meetings. Such meetings will be open to all members for joining.

Upon any difficulties with being present or on time at the Thursday class as well as subgroup meetings, it is each member's responsibility to inform their team about the absence before class/meeting time.

All disagreements, problems, and misunderstandings within the group will be addressed within the team members and resolved among the individuals involved or in charge. Team members may also use iGroups discussion board and e-mail to communicate and share feedback.

5. **Methodology/Brainstorm/Work Breakdown Structure**

IPRO 312: The Rotten IPRO will focus upon the whether an organic waste recycling facility located on or near campus is feasible or not.

The team is divided into four sub-groups:

University Affairs

- Establish contacts within the IIT community and sources affiliated with sustainability
- Estimate the amount of organic waste IIT produces on a weekly or monthly basis

Options to Deal with Waste

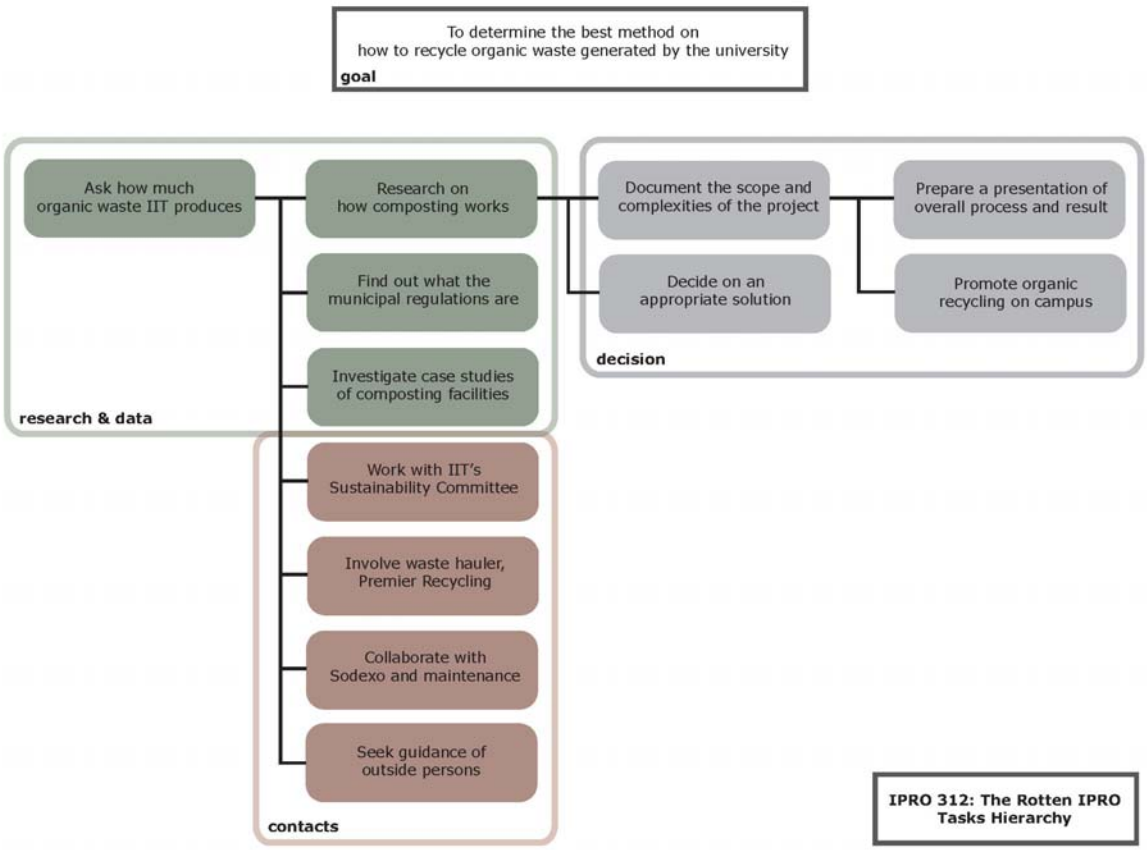
- Research on the biological process of organic waste evolving into compost
- Analyze various methods of composting and mechanics of each system
- Aid in determining the best strategy to implement at IIT

Research and Regulations

- Complete case studies of composting facilities operated by other universities and within Illinois
- Examine municipal regulations regarding organic waste recycling
- Aid in determining the best strategy to implement at IIT

Team Charter and Planning

- Document weekly team discussion and issues to address
- Monitor the progress of the overall team
- Ensure the deliverables of the project are submitted on time
- Raise awareness among the IIT community on the benefits of composting through brochures and lectures



Collectively as a team, we will prepare a comprehensive presentation to deliver to the administrative body of IIT.

The team's proposals for an organic waste recycling facility can be tested through the following:

- With relevant data from other universities, we can compare how schools of similar size and means are recycling their organic waste. Furthermore, we can determine what types of equipment and methods are the most appropriate for IIT.
- Through research of composting facilities, we can integrate state-of-the-art techniques. In addition, we can decide what plan of action is most effective regarding economy and the environment.

The results of research and testing will be documented collectively as a team. Each sub-group is responsible for preparing a presentation to show their work progress at the weekly team meetings. The sub-group's presentations and any supplemental material will be shared through iGroups.

The analysis of test results will be completed together as a team. Each member will actively participate in discussion at the weekly team meetings. The final proposal will be a result of each individual's input and delivered as a presentation to the authorities of IIT.

The sub-group, Team Charter and Planning is responsible for ensuring that the IPRO deliverable reports are completed in an orderly fashion and timely manner.

6. **Expected Results**

The expected results will focus upon providing a definitive answer to whether an organic waste recycling facility located on or near campus is feasible or not.

The expected activities involved in the project are research, analysis, and presentation of the team's conclusion. Supplemental activities include visits to composting facilities, meetings with representatives affiliated with sustainability, and marketing the IPRO 312: The Rotten IPRO through issuing brochures and organizing lectures.

The expected data from research and testing will be comprised of charts comparing the size, population, means available, and amount of organic waste processed of universities across the nation with composting facilities. Furthermore, the data will include specifications of methods and equipment used in composting. The municipal regulations will describe what is allowable and what the limits are of the project's location.

The potential products resulting from research and testing include a wide array of strategies that are appropriate to the given context of the project.

The potential outputs to be produced by each sub-group are as follows:

University Affairs

- Involvement within the IIT community and of outside sources
- Definitive volume of organic waste that IIT produces

Options to Deal with Waste & Research and Regulations

- Concrete data and inclusive case studies to base results upon
- Conclusion of best strategy to be implemented at IIT

Team Charter and Planning

- Satisfactory progress of project in an organized manner

As a team overall

- Comprehensive presentation to deliver to administrative body of IIT

The expected results in terms of deliverables can be viewed as three phases. Phase I involves documentation of research, data, case studies, and work progress presentations. Phase II includes proposing strategies and determining which plan of action is the most effective. Phase III is comprised of delivering the end result in a presentation, brochures, and lectures.

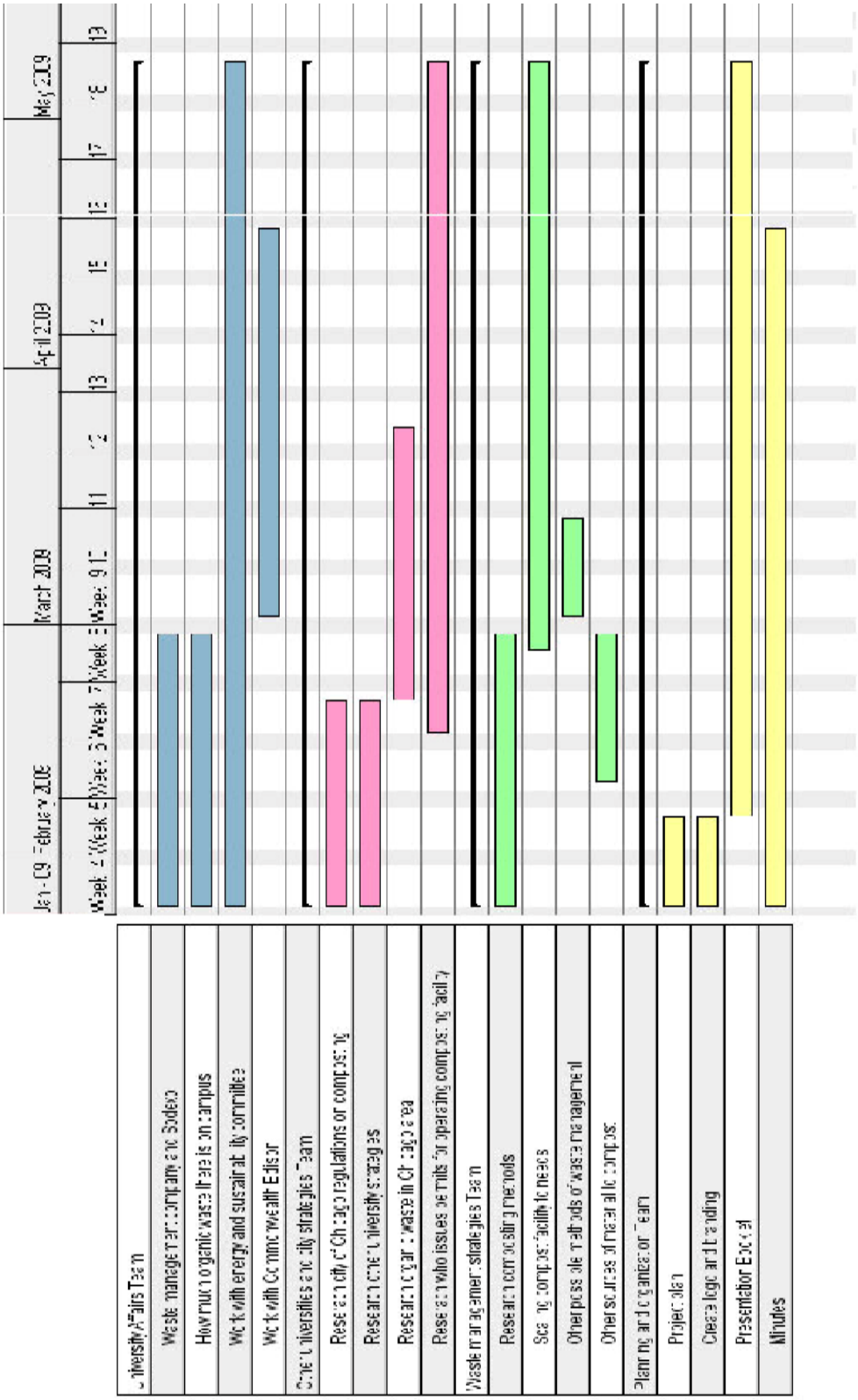
We have already experienced the difficulty of determining an estimate of organic waste that IIT produces, due to a lack of data. The university has only over the past couple months started to record the volume of each type of waste (per request of the Sustainability Committee). Challenges that we can anticipate are working within the strict limitations set by the city of Chicago regarding organic waste recycling and locating a site for the facility on or near campus.

The expected results will be culminated into a formal presentation that describes the definitive solution to whether a composting facility on or near campus is possible or not.

7. **Budget**

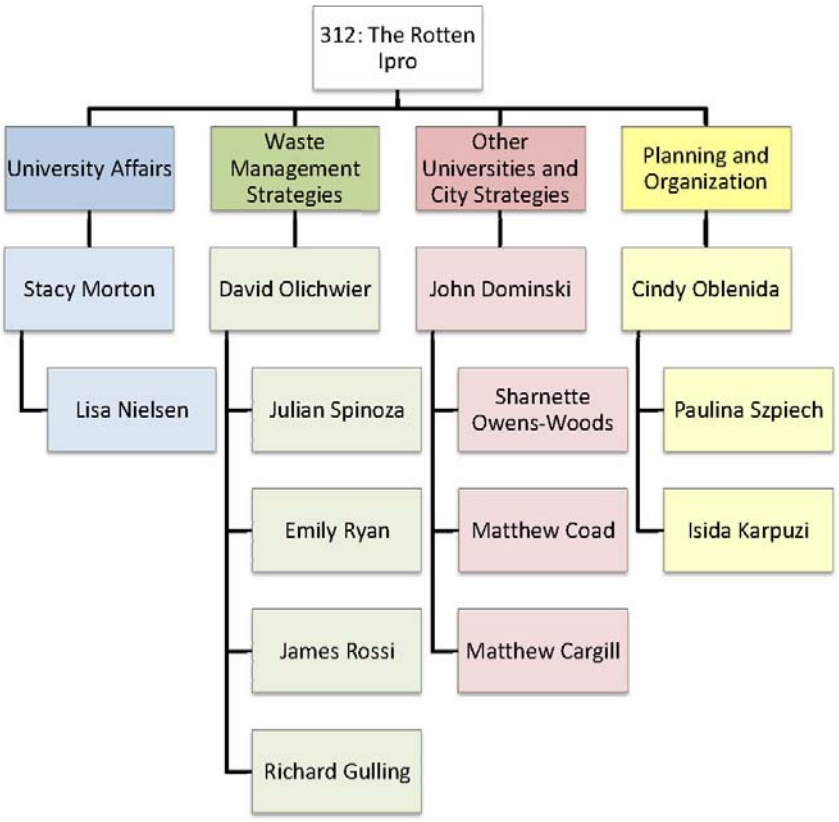
Category	Requested amount	Explanation
Supplies	$300	Presentation booklets for campus representatives
Equipment	$225	T-shirts with Ipro logo to reinforce team spirit and advertise our purpose
Services	$75	Presentation materials for students on importance of organic recycling
Travel	$100	Composting facility
Total	$700	

8. **Schedule of Tasks and Milestone Events**



9. **Individual Team member assignments**

NAME	TEAM ASSIGNMENTS
Lisa Nielsen	-Research waste management company and Sodexo -Work with Commonwealth Edison
Stacy Morton	-How much organic waste there is on campus -Work with energy and sustainability committee
Emily Ryan	Scaling compost facility to needs
James Rossi	Research composting methods
David Olichwier	Other sources of material to compost
Richard Gulling	Other possible methods of waste management
John Dominski	-Research organic waste in Chicago area
Sharnette Owens-Woods	-Research other universities strategies
Matthew Coad	-Reserach city of Chicago regulations on composting -Reserach who issues permits for operating composting facility
Matthew Cargill	Research other university strategies
Paulina Szpiech	-project plan -presentation booklet -team values
Cindy Oblenida	-project plan -minutes -presentation booklet
Isida Karpuzi	-project plan -logo and branding -presentation booklet



10. **The Designation of Roles**

IPRO 312: The Rotten IPRO has designated the sub-group, Team Charter and Planning as accountable for the roles of minute taking, agenda making, and time keeping.
Furthermore, the team has agreed to update iGroups collectively as a group. If any issues should occur with the aforementioned designation of roles, we will assign the roles individually.