Illinois Institute of Technology

IIT Sustainability Branding

Project Plan
IPRO 311

Advisor: Nancy Hamill Governale
Additional Assistance Provided by:
Ray DeBoth & Rae Mindock

IPRO 311's mission is to make the campus a more sustainable institution with green technologies and more efficient uses of its resources.

1. Team Information

Contact List		
Name	E-mail	Phone #
Alejandro Aguilar	aaguila2@iit.edu	[redacted]
Richard Alexander	ralexan2@iit.edu	[redacted]
Oladipo Animashaun	oanimash@iit.edu	[redacted]
Mark Chauhan	mchauha2@iit.edu	[redacted]
Seth Ellsworth	ellsset@iit.edu	[redacted]
Crystal Glover	cglover1@iit.edu	[redacted]
Kevin Krupp	kkrupp@iit.edu	[redacted]
Nim Patel	npate45@iit.edu	[redacted]
Colin Scheer	cscheer@iit.edu	[redacted]
Nader Tadros	ntadros@iit.edu	[redacted]

Name: Alejandro Aguilar
Year: 3rd
Major: Architectural Engineering
Experience/Skills/Strengths: Adobe Photoshop, Drafting, Drawing, Communications (public speaking, written reports, listening, etc.), Resourcefulness, Work Ethic

Name: Richard Alexander
Year: 4th
Major: Computer Science
Experience/Skills/Strengths: Web Development, Student Organization leadership, Adobe Flash

Name: Oladipo Animashaun
Year: 4th
Major: Architecture
Experience/Skills/Strengths: AutoCAD, 3ds Max, Adobe Illustrator, Adobe Photoshop, Model making, Carpentry, Experienced team member of an architecture firm

Name: Mark Chauhan
Year: 4th
Major: Mechanical Engineering w/ Minor in Materials Science Eng.
Experience/Skills/Strengths: AutoCAD, Pro-Engineer, Windows Office Suite, SPSS Data Analysis Software, graphical presentation, analytical, teamwork, goal-oriented, diligent

Name: Seth Ellsworth
Year: 4th
Major: Architecture; Business minor
Experience/Skills/Strengths: AutoCAD, 3ds Max, Adobe Illustrator, Photoshop & Dreamweaver. Strong communication and organization skills, experience working with a variety of materials

Name: Crystal Glover
Year: 4th
Major: Architecture
Experience/Skills/Strengths: AutoCAD, 3ds Max, Adobe Illustrator, Adobe Photoshop. Strong communication and organization skills

Name: Kevin C. Krupp
Year: 4th
Major: Architecture
Experience/Skills/Strengths: Model Building, Wood Shop, AutoCAD, Adobe Illustrator, Adobe Photoshop. Strong personal interaction skills and action oriented. Experienced model shop technician

Name: Nim Patel
Year: 3rd
Major: Biology
Experience/Skills/Strengths: Windows Office, Adobe Photoshop. Strong communication skills, timeliness in work, focused and motivated

Name: Colin Scheer
Year: 3rd
Major: Humanities
Experience/Skills/Strengths: Researching, Writing, Adobe Photoshop. I am prompt in turning work, and work well with others

Name: Nader Tadros
Year: 4th
Major: Architecture
Experience/Skills/Strengths: AutoCAD, Adobe Photoshop, Adobe Illustrator. Strong communication, motivational, and interpersonal skills. Experienced scaled model builder and presentation developer

2. Team Purpose and Objectives

This is a continuing IPRO with the overall aim of improving and enhancing the image of Illinois Institute of Technology, both as an institution and a physical campus, in regards to sustainability and "green" practices. To that end, the current semester is focused on several design projects based on concepts generated in the previous semesters along with input from the current semester to enhance a new "green" campus. We will also be providing information on how IIT is currently acting in a sustainable fashion and how students on campus can contribute to our image as a sustainable campus

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3. Background

Illinois Institute of Technology has been at the forefront of innovation from its architecture to providing a competitive education environment. Even with this innovation, IIT struggles with its image as a sustainable campus. An example of this is the recent letter D grade IIT received on its

college sustainability report card, a comparative evaluation of sustainable activities in campuses across the United States and Canada. The goal of this IPRO is to come up with solutions to make IIT more sustainable and at the same time create a branding scheme to bring awareness to IITs sustainable efforts.

The first IPRO 311 was in Spring 2008. The team was responsible for the conceptual plans for branding IIT as a sustainable campus . A design manual was developed to document the ideas.

The Summer 08' IPRO team created a design for a solar workstation, several greenstallations, energy gauges for buildings, and a plan for permeable pavements. This IPRO team also contributed to the existing design manual for making IIT "greener." They also created an online group on Facebook that attempts to gather attention and support from the student body in favor of new sustainability practices on campus. They briefly conducted research for possibly having nuclear power at IIT. This group also created a survey that tried to retrieve useful information that would contribute to the process of moving towards a more sustainable campus.

The Fall 08' IPRO team went further with the ideas presented from Spring 08' along with contributing new ideas. The permeable paving initiative looked at researched and identified areas of the campus that have draining issues. They redesigned a solar workstation which was ready for construction. A green wall initiative was proposed to be put outside academic buildings in ideal locations. The last project that this team worked on was to propose the use of Aerogel as an insulation material for campus buildings.

The Fall '08 IPRO also headed a contest regarding the logo of the IPRO's to be used as the primary logo for all preceding and following IPRO extensions. The team hosted a series of seminars to reach out to the IIT community. The seminars featured guest speakers regarding the topic of sustainability around the world and city and about things that can be implemented on the IIT campus. Fall '08 Inter-Professional project's main focus was directed towards the design and construction of a solar powered chair.

This semester's IPRO team will continue building upon the work that previous groups have started. The world is changing its stance on non-renewable sources of energy. Being a part of the Illinois Institute of Technology community, it is our mission to stay ahead of the norm and lead this movement to a more sustainable campus.

This year's IPRO will focus on the studies and research conducted here at IIT. Our research will also follow the progression of the studies and research done and their implementation in the physical world; inventions and their effects. A section of the IPRO will also focus on furthering the ideas of the previous IPRO semesters and implementing them on the IIT campus. The class split up into three subgroups to become more efficient, marketing, facilities and design.

4. Team Values Statement

To ensure a safe and productive working environment, a list of the expected behaviors and what constitutes "expected behaviors" are described below:

Cooperation – We will

- Stay focused on our particular tasks.
- Volunteer our time and energy when able if another group member requests it.
- Praise and encourage our group members by recognizing their hard work and success.

Integrity – We will

- Speak openly and honestly to each other.
- Hold ourselves accountable for our words and actions.
- Follow-through with all pledges or promises.
- Speak highly of our group members and leaders to others outside of our IPRO class.
- Keep any and all criticism class constructive, class-related, and free of personal attacks.

Timeliness – We will:

- Arrive on time for all meetings and events.
- Begin the day's tasks at 3:15pm regardless of attendance.
- Submit all work and materials by the expected deadline.
- Inform the group, in advance, when we will be tardy or absent.
- Keep an easily accessible, regularly updated schedule of all deadlines and meetings.

Communication – We will:

- Provide regular updates about individual and team progress
- Approach each other about concerns or problems before proceeding to more extreme measures.
- Check our email and iGroups on a daily basis and provide a reply no more then 24 hours later.
- Provide our full attention and remain silent when another group member takes their turn to speak.

Any member of the group who does not comply with the expected behaviors set forth by the group will be addressed by the group as a whole or by a designated team member. The group or designated team member will attempt to resolve the problem in a safe and conductive manner and will discuss the lack of participation with said member. Once a resolution has been found said member will be reintegrated into the IPRO in a manner to ensure positive participation.

5. **Methodology & Work Breakdown Structure**

The process to enhance the image of Illinois Institute of Technology, both as an institution and an intellectual community, in regards to sustainability, technology, innovation and minimal resource consumption will lie in the discovery of historical research done at IIT in combination with proposed ideas and research for the future.

To accomplish the scope of the project, a highly innovative form of research will be conducted. This research will encompass the modern day IIT, 1940 to present, in conjunction with its predecessors, the Armour Institute of Technology (founded in 1893) and Lewis Institute (founded in 1895). The research will focus on the many ground-breaking studies done in conjunction with the institutions.

All research and pertinent information found will be catalogued, recorded, and applied to everyday practical applications. Research for the future will be presented in the formal fashion of our IPRO (311) predecessors; Spring of 2008, Summer of 2008, and Fall of 2008.

The breakdown of work will consist primarily of three divisions; marketing, design, and facilities. Including:

- The marketing division will be in charge of reaching out to and informing the surrounding community of IIT about the innovative research that has taken place at IIT over the years and proposed solutions to enhance the image of IIT for the future. A subset of the marketing team is the research department; responsible for researching inventions and ideas produced here at IIT.
- The second division, design, will consist of a small group of people who will continue working on Solar Workstation (Fall '08) and other proposed ideas that require physical labor.
- The third group, facilities, will be responsible for physically implementing the proposed ideas of this semester, and the preceding semesters, in and around campus; as well as proposing new ideas for future IPRO extensions to study and implement.

6. Expected Results

Here is a list of the results we plan to achieve through the course of this semester. Our group's work breaks down into three major groups: marketing (with a subgroup of history), design and facilities.

a. Search through the archives (Marketing group)
- Find names of inventors from IIT
- Compile an informational listing
- Find means of advertising this info to the campus

b. Quick improvements (Facilities group)
- Put in place rain sensors
    - Prevent sprinklers from running in rain, snow, freezing temperatures
- Insulation for buildings
    - Prevent leaks near windows

c. Seminars (Marketing group)
- Invite lecturers to speak about green technology
- Possibly create our own presentation about IIT going green

d. Advertise IIT history (Marketing group)
- Create posters or fliers
- Banners for street poles

e. Workstation chair (Design group)
- Work on the current prototype

Some of the challenges include time limitations, prioritizing, and expenses. There are many activities under the sustainability name that the group could take up however, due to the other expectations such as deliverables for IPRO as well as just one semester only a few activities can be accomplished. Also, due to numerous activities a few have to be chosen in which a larger part of the budget can be allocated to for example the workstation chair will need more money for updates. Also, since the IPRO budget is limited the money given has to be used to accomplish what we can and buy what we need to. Another challenge each member faces is to be able to

express the ideas of this IPRO to the IIT administration to put the ideas into practice. Finally, every member has a responsibility to try to broaden their views and think of more ways that IIT can be made more sustainable.

The group will approach the administration as well as IIT faculty and staff to propose the implementation of the ideas the group has researched and tested.

7. Budget

Equipment (Workstation Chair)	$500
Services (Printing posters, flyers, banner)	$190
Transportation (Visit location to see green technology)	$100
Participant Support (Canvas bags, t-shirts, incentive to attend seminar)	$100
Goal Parties	$150
Total	$1040

8. Schedule of Tasks and Milestone Events

Refer to Gantt Chart

9. Individual Team Member Assignments

Design Leader- Kevin Krupp
Design Group: Oladipo Animashaun , Mark Chauhan, Richard Alexander
Facilities Leader: Alejandro Aguilar
Facilities Group: Seth Ellsworth, Nader Tadros, Mark Chauhan
Marketing Leader: Crystal Glover
Marketing Group: Nim Patel, Colin Scheer, Nader Tadros

Refer to Gantt Chart

10. Designation of Roles

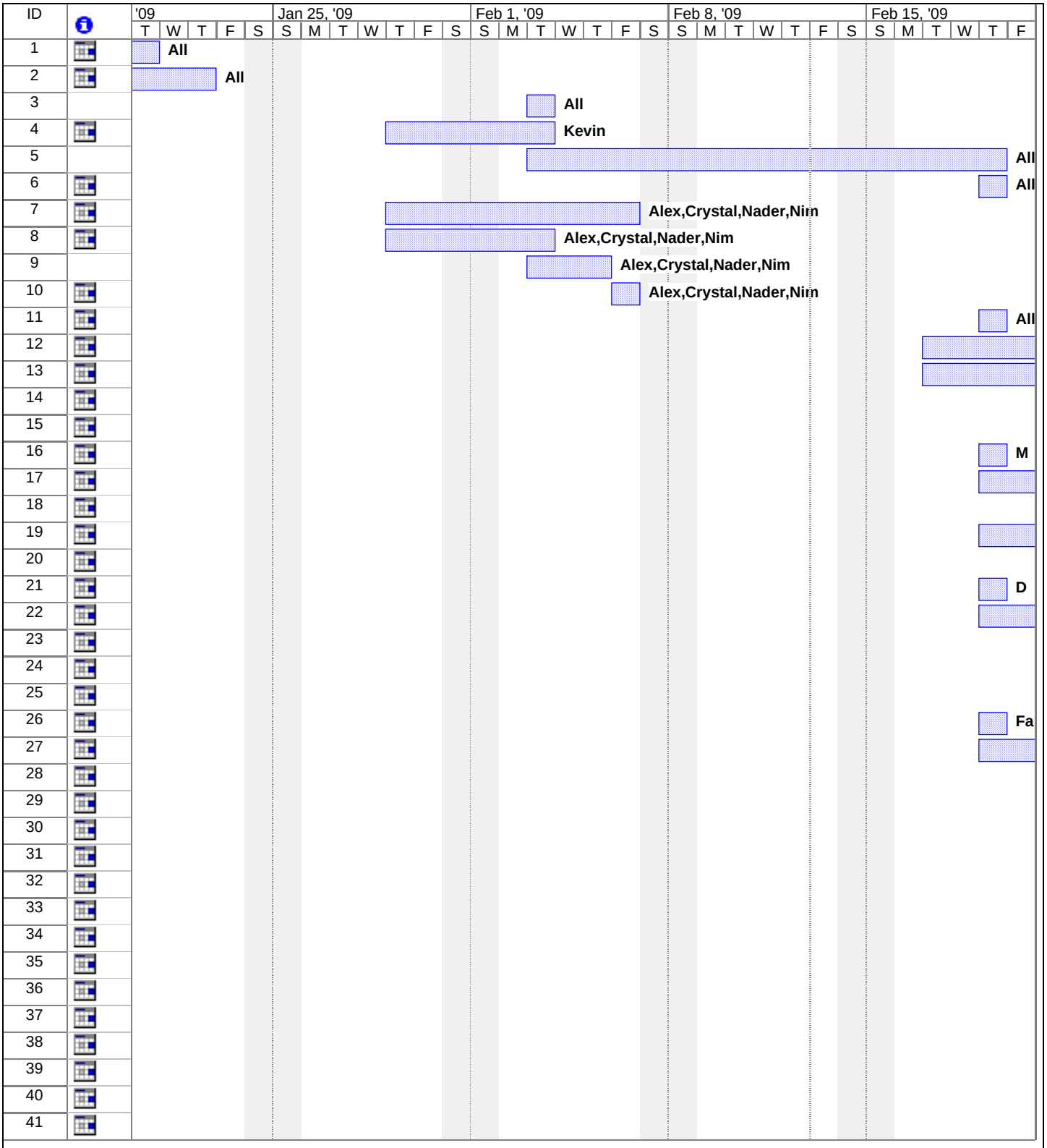
Minute Taker- Alejandro Aguilar
Agenda Maker- Nader Tadros
Time Keeper- Nim Patel
Weekly Timesheet Collector/Summarizer- Seth Ellsworth
Master Schedule Maker- Crystal Glover
IGroups- Mark Chauhan

Gantt Chart

ID	Task Name	Duration	Start	Finish	Resource Names
1	**Phase I**	1 day?	Tue 1/20/09	Tue 1/20/09	All
2	Define Problem	3 days	Tue 1/20/09	Thu 1/22/09	All
3	Break into Subgroups	1 day?	Tue 2/3/09	Tue 2/3/09	All
4	Team Charter	4 days	Thu 1/29/09	Tue 2/3/09	Kevin
5	Research	13 days	Tue 2/3/09	Thu 2/19/09	All
6	Research Presentations	1 day	Thu 2/19/09	Thu 2/19/09	All
7	**Project Plan**	7 days	Thu 1/29/09	Fri 2/6/09	Alex,Crystal,Nader,Nim
8	Project Plan First Draft	4 days	Thu 1/29/09	Tue 2/3/09	Alex,Crystal,Nader,Nim
9	Project Plan Second Draft	3 days	Tue 2/3/09	Thu 2/5/09	Alex,Crystal,Nader,Nim
10	Project Plan Final Draft	1 day?	Fri 2/6/09	Fri 2/6/09	Alex,Crystal,Nader,Nim
11	**Phase II**	1 day?	Thu 2/19/09	Thu 2/19/09	All
12	**Midterm**	10 days	Tue 2/17/09	Mon 3/2/09	TBA
13	Midterm First Draft	5 days	Tue 2/17/09	Mon 2/23/09	TBA
14	Midterm Final Draft	3 days	Tue 2/24/09	Thu 2/26/09	TBA
15	Midterm Practice	3 days	Thu 2/26/09	Mon 3/2/09	TBA
16	**Marketing**	1 day?	Thu 2/19/09	Thu 2/19/09	Marketing Subgroup
17	History of IIT Research	21 days	Thu 2/19/09	Thu 3/19/09	Marketing Subgroup
18	History Advertisements	13 days	Tue 3/24/09	Thu 4/9/09	Marketing Subgroup
19	Seminar Planning	21 days	Thu 2/19/09	Thu 3/19/09	Marketing Subgroup
20	Seminar	1 day?	Tue 4/14/09	Tue 4/14/09	All
21	**Design**	1 day?	Thu 2/19/09	Thu 2/19/09	Design Subgroup
22	Research	6 days	Thu 2/19/09	Thu 2/26/09	Design Subgroup
23	Modified Chair Design	6 days	Thu 2/26/09	Thu 3/5/09	Design Subgroup
24	Final Modified Chair Design	6 days	Thu 3/12/09	Thu 3/19/09	Design Subgroup
25	Chair Construction	28 days	Tue 3/24/09	Thu 4/30/09	Design Subgroup
26	**Facilities**	1 day?	Thu 2/19/09	Thu 2/19/09	Facilities Subgroup
27	Research	14 days	Thu 2/19/09	Tue 3/10/09	Facilities Subgroup
28	Implementation Plan	14 days	Tue 3/10/09	Fri 3/27/09	Facilities Subgroup
29	Presentation	1 day?	Tue 4/14/09	Tue 4/14/09	Facilities Subgroup
30	**Phase III**	1 day?	Tue 4/14/09	Tue 4/14/09	
31	**IPRO Day Preparation**	14 days	Tue 4/14/09	Fri 5/1/09	All
32	**Abstract/Brochure**	1 day?	Mon 4/27/09	Mon 4/27/09	TBA
33	Abstract/Brochure First Draft	6 days?	Tue 4/14/09	Tue 4/21/09	TBA
34	Abstract/Brochure Final Draft	5 days	Tue 4/21/09	Mon 4/27/09	TBA
35	**Poster**	1 day?	Mon 4/27/09	Mon 4/27/09	TBA
36	Poster First Draft	6 days	Tue 4/14/09	Tue 4/21/09	TBA
37	Poster Final Draft	5 days?	Tue 4/21/09	Mon 4/27/09	TBA
38	**Final Presentation**	12 days?	Tue 4/14/09	Wed 4/29/09	All
39	Final Presentation First Draft	6 days	Tue 4/14/09	Tue 4/21/09	TBA
40	Final Presentation Final Draft	3 days	Tue 4/21/09	Thu 4/23/09	TBA
41	Final Presentation Practice	6 days	Thu 4/23/09	Thu 4/30/09	TBA

Project: Gantt Chart
Date: Fri 2/13/09

Task
Split
Progress
Milestone
Summary
Project Summary
External Tasks
External Milestone
Deadline



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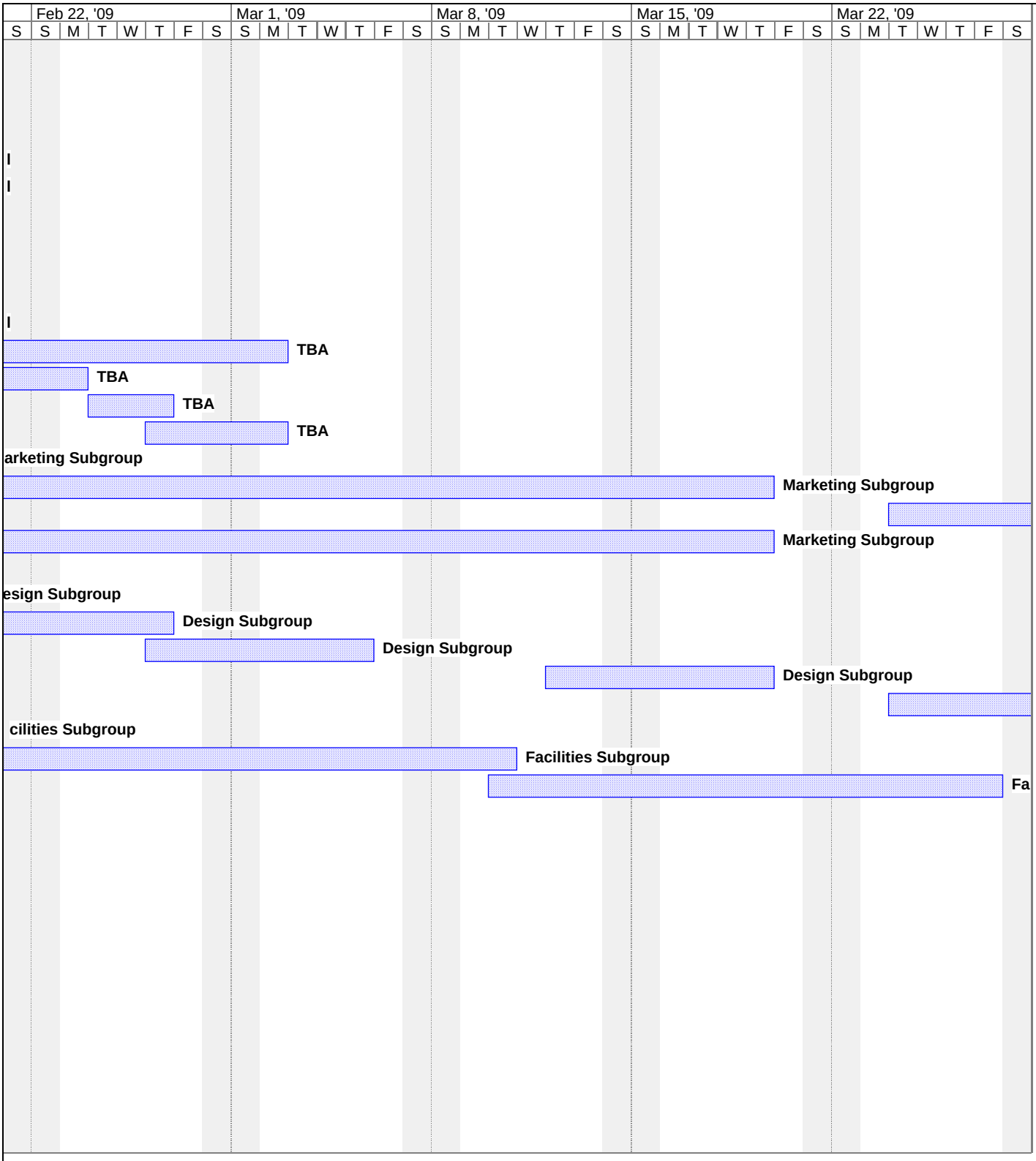

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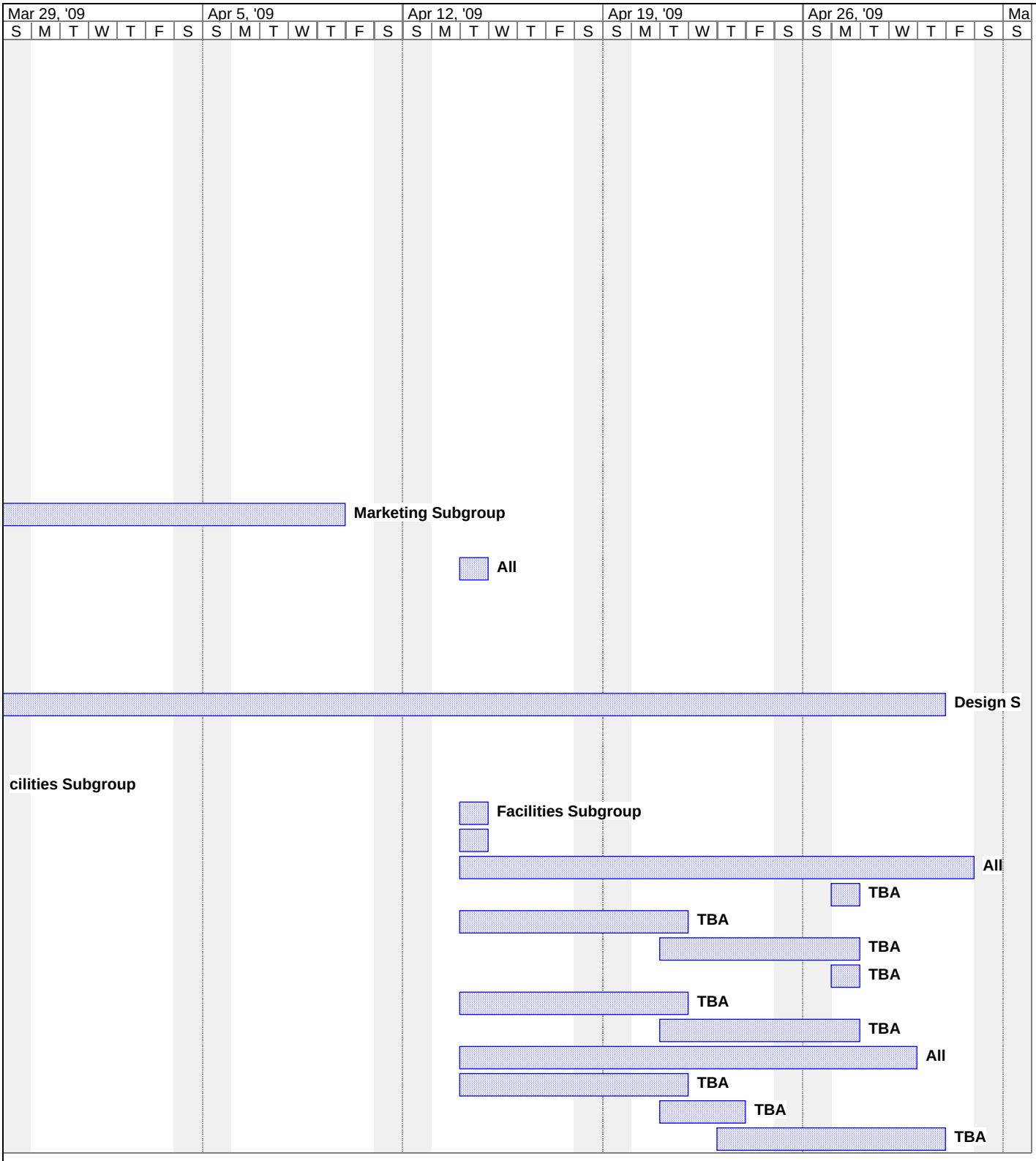
Split		External Tasks	
Progress		External Milestone	
Milestone		Deadline	
Summary			



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