

1.0. Objectives

Original: Create a program for a sustainable city that incorporates all sustainable design practices and is affordable and desirable to live in.

Updated: The current objectives are to finish the design of the city including transport and population density for the entire city and have a preliminary outline of economic incentives that will be in place to attract the types of businesses that we would like to have in our city. We have run into some issues trying to incorporate all aspects of the policy issues into our program and have therefore tried to make our focus a little wider, taking into consideration that any decisions made by our group will have to be implemented by the Chongming city government, and therefore any latitude that we can provide would make our design more realistic from an implementation standpoint.

2.0. Results to Date

- There is not data from any testing, as testing will not take place in this IPRO
- There will be no products as a result of this IPRO, but there will be a comprehensive program for a sustainable city that could be used as a model throughout the world, regardless of geography
- The solution that we are working towards will address all of the needs of the ultimate customer, which is the Chongming City Government.
- The incorporation of our plan into the final design of the city will be up to the Chongming government, but it is our hope that our design will tackle design concerns that the government might have. In an attempt to anticipate the concerns of the government, we hope to have a plan that presents solutions before problems arise, and therefore have our ideas used because they have long term thinking incorporated into them.

Overview of progress broken down by group:

- Transportation system has been decided upon and layout and station design is underway
- Population density and distribution of commercial/residential structures has begun and should be finalized soon so that final transportation design can occur
- Policy objectives have been determined in order to ensure a green city and to insure that the city is livable for the population
 - Variations within socio economic status have been taken into account so that everyone in the city can live inside the city.
- Housing designs have been made that incorporate green design as well as certain aspects of feng shui
- Graphics for all of the groups are beginning to be planned for the final presentation

3.0. Updated Work Breakdown Structure

After doing extensive research on existing and proposed sustainable city plans, each group has tried to take from the research all that is relevant, and try and improve on some of the ideas that have been proposed in the past. The following are some areas that we have focused on:

- Developing a more comprehensive policy to implement all of the different technologies that we see as necessary
 - Many of the proposals that exist do not integrate enough policy to make sure that some of the goals are met, and we are trying to avoid this pitfall of focusing only on design

- without taking into account what is needed to make that design become a reality.
- Developing a transportation system that both energy efficient as well as efficient at transporting the population
 - Many proposals that have been reviewed only focus on the energy, or the capacity, but do not look at the two as being dependent on each other in order to achieve total sustainability.
- Creating an overarching housing design that allows people of various income levels to coexist.
 - Some proposals reviewed have a very narrow focus on only housing the people that the designers want to live in the city, as opposed to housing the support staff for the wealthier people who will live in the city. We are focusing now on trying to integrate the two
- Integrating the planning of the city into the housing and transportation
 - Many proposals have viewed different aspects of the city as separate, and we are making a concerted effort to unify all aspects so that they all work together. Having a group with such varied expertises have helped us to achieve this and to view the overall project through many different lenses.

Because we have slightly changed our focus from tackling our individual group's problems to integrating the solutions that we come up with into the whole design, we have changed the way the groups interact with each other. We now present our findings on Tuesdays to the whole group and discuss them as a whole, then work as individual groups on Thursdays. This allows us to make sure that the various aspects of the city design all work together. Because of this change in the nature of our interaction, the due dates for each subgroup have become more fluid so that we can adapt to other groups changes as they come up. Much of the initial planning stages have been completed, and we are now working together to weave the project together by the time of the final presentation. As different groups present their ideas, other groups are fluidly adapting to the issues that come up as a result. Our overall goal is to have the program of the city finished by April 24th, the week before IPRO day. It is necessary to make our schedule more fluid so that we can adapt easier to changes, and rigid deadlines do not seem to make sense in this setting.

4. Changes in Task Assignments and Designation of Roles and Team Organization

Some of the groups have changed. Below is the current group breakdown:

Housing:

Suangano Ziswa, Kevin Lerash, Ana Untiveros, Shunsuke Nakano

Public Policy:

Cameron Zangenehzadeh, Kyle Pritchard, Jun Zheng, Lihua Jiao

Planning:

Dave Cooper, Ryan Szanyi, Chris Chiu

Transportation:

Tony Sarcino, David Durra, Andrew Kleps

1. The sub teams have changed in order to better place people according to both their interests and expertise. The roles of the team have not significantly changes at all. The following is a list of the roles for each team:

The roles of the teams have not changed, and the responsibilities of the team have not changed either. The big change is that there is more collaboration between groups.

5.0. Barriers and Obstacles

1. The biggest obstacle that we have encountered is trying to bring a project that incorporates so many different disciplines together. Making sure that all of the ideas that are proposed are incorporated into the various subgroups has been a constant struggle.
2. In order to combat the above mentioned problem, we have instituted weekly group meetings to share all of our ideas, instead of working more as individual subgroups. Upon the implementation of this, we have found that there is much better communication between all of the groups. We have also chosen one member of each team to speak with the other groups so that we can be apprised of each subgroup's progress
3. The remaining barriers are making sure that the final project accurately reflects all of the different group's ideas and also takes into account the effect of each group's work on the other groups, so that there are no design conflicts. The increased collaboration should help us to figure out a good way to avoid these types of problems.