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I. TEAM CHARTER

1. **Team Information**
   a. Team member roster
      i. Ricardo Arzu — rarzu1@iit.edu
      ii. Denzel Avant — davant@iit.edu
      iii. Aleksandar Bogoevski — abogoevs@iit.edu
      iv. Daniel Caven — dcaven@iit.edu
      v. Andy Daniel — adaniel@iit.edu
      vi. Courtney Fisher — cfisher4@iit.edu
      vii. Bharat Lavania — blavania@iit.edu
      viii. Emmanuel Marcha — emarcha@iit.edu
      ix. Khadija Mouddou — kmouddou@iit.edu
      x. Guilherme Nunes — gnunes@iit.edu
      xi. Ana Popa — apopa@iit.edu
      xii. Dot Quach — dquach@iit.edu
      xiii. Anthony Scorzo — ascorzo@iit.edu
      xiv. Nader Tadros — ntadros@iit.edu
      xv. David Winkin — dwinkin@iit.edu

   b. Team member strengths, needs and expectations
      i. Variety of disciplines and backgrounds
         1. Social Science, Engineering, Architecture, Health, Analytics, Economics, Finance, Advanced Mathematics, Law, Business
      ii. Open and able to adapt to new ideas when presented with them
      iii. Ability to work well with others and unite team as a whole
      iv. Digital media design skills
      v. Worldview and understanding of culture
      vi. Knowledge of business cycles
      vii. Strong communication skills
   c. New knowledge and skills to develop
      i. Learning about economics and developmental economics
      ii. Team building and development
      iii. Public speaking
      iv. Leadership
      v. Organizational skills
   d. Overall expectations about the project
      i. Better our understanding of economic development

      ii.   Improve Coal City: Design a Model for Coal City Sustainable Economic Development

     iii.   Exceed at meeting our goals

     iv.   Learn how to implement new successful businesses in small rural areas while maximizing profits and sustainability

     v.   Development of an initiative and its potential to create tailor-made sustainable growth

     vi.   Develop a sustainable economic plan that could continue to be used in the future an promote a more sustainable society

    vii.   Improvement of small towns towards a sustainable economic model

e. Acronym: S.E.E.D (Sustainable Entrepreneurial Economic Development)

f. Motto: Preserving the atmosphere and resources that make up Coal City's history gives the village a link to its past and helps guide them to the future

2. Team Purpose and Objectives

a. Team purpose: Design and Develop the best and most feasible economic development model/strategy for Coal City, and to create a business plan to promote economic development in small towns.

b. List the objectives that the team has set

     i.   Gather information that will lead to the creation of an effective plan.

     ii.   Study models and components of *Sustainable Economic Development* focusing on small towns and rural areas

     iii.   Study the demographics, human systems, existing industry systems, bio-physical systems, government and social policy systems and the existing industry clusters

     iv.   Understand community, local, and regional assets and talent pool, town vision, mission and economic development plans

3. Background

b. Information about Coal City

     i.   Coal city is a small town in Illinois that has partnered with IIT

     ii.   Current population is 5,152 people and has been steadily increasing

     iii.   Coal City is located just south of I-80 along the I-55 corridor and less than an hour from Bolingbrook and Oakbrook

     iv.   Along the northern border of Coal city, are adjoining lakes and abandoned coal mines

     v.   Small town atmosphere is conducive to community interaction and pride

     vi.   Several buildings important to the villages history include: Castle Hall, Opera House, Old Village Hall, Fire Bell, and the Old Store

      vii.   The village comes together for several events each year, including Octoberfest, where the downtown area shutdowns and the streets are overcome with vendors, people, and businesses celebrating

  c. Problems with Coal City

      i.   The commercial growth is not increasing as quickly as the population and the residential growth rate

      ii.   Coal City offers limited shopping opportunities

      iii.   Many buildings and properties in downtown are vacant and have remained unoccupied and unused for a long period

      iv.   No commuter transportation service to Coal City

  d. Technology and science potentially involved in Coal City's economic development

      i.   Planning for future water systems, storm water management and waste water collection and treatment.

      ii.   The upgrade of existing Police equipment, the purchase of new equipment (such as radar, lidar and radios), and the addition of new technology such as participation in IWIN (Illinois Wireless Internet Network).

  e. Coal City's goals

      i.   Maintain a quality of life that provides existing and future residents a community that is safe, quaint, and neighborly

      ii.   Promote cohesive land planning and high quality design standards to enhance the small-town character of the Village

      iii.   Expand parkland and open space opportunities to address passive and active recreational needs as well as preserve the natural amenities (wetlands, floodplains) that exist within the Village

      iv.   Support economic stability through new business development opportunities and downtown redevelopment efforts so to create a self-sustaining community that provides jobs and commercial services to meet the needs of residents

      v.   Improve public infrastructure (utilities, roadways) and services (police, fire) to ensure that the demands of village residents and future development can be adequately addressed.

  f. Primary Research and Literature

      i.   *Small Towns Big Ideas: Case Studies in Small Town Community Economic Development*

      ii.   *Village of Coal City, Illinois: Comprehensive Plan*

      iii.   *Illinois Economic Review 2011*

      iv.   *Illinois Department of Commerce and Economic Opportunity: Coal City*

4. **Team Values Statement**
   a. Desired Behavior
      i. Ask questions to clarify thoughts, ideas, concerns and/or uncertainties
      ii. Maintain a high standard of academic integrity
      iii. Be respectful to team members, no insults or put-downs. This is a project that will need a lot of help so everyone is needed
      iv. Foster peer-to-peer communication across sub-teams
      v. Use the strengths of team members to accomplish your work and to create a very successful IPRO experience for everyone
      vi. Encourage members to apply multiple disciplines in their work
      vii. Promote trust between team members
   b. Conflict Resolution
   This IPRO will use the 4 R's method of conflict resolution. This is a step-by-step process for resolving a problem and it evaluates the problem in hopes of leading to a positive direction.
      i. Reason: Discuss why a conflict occurred openly and respectfully, focus on the conflict itself and don't make it personal
      ii. Reaction: Have the ones involved in the conflict examine their own reactions. Determine if the conflict is constructive or destructive to the teams goals. Try to strip emotions from the conflict to see how serious it actually is.
      iii. Results: Determine if this conflict can hurt the team if not resolved, and what a resolution would mean to each party
      iv. Resolution: After the previous steps the team must discuss potential solutions for the conflict and everyone must realize that finding a solution is give and take.
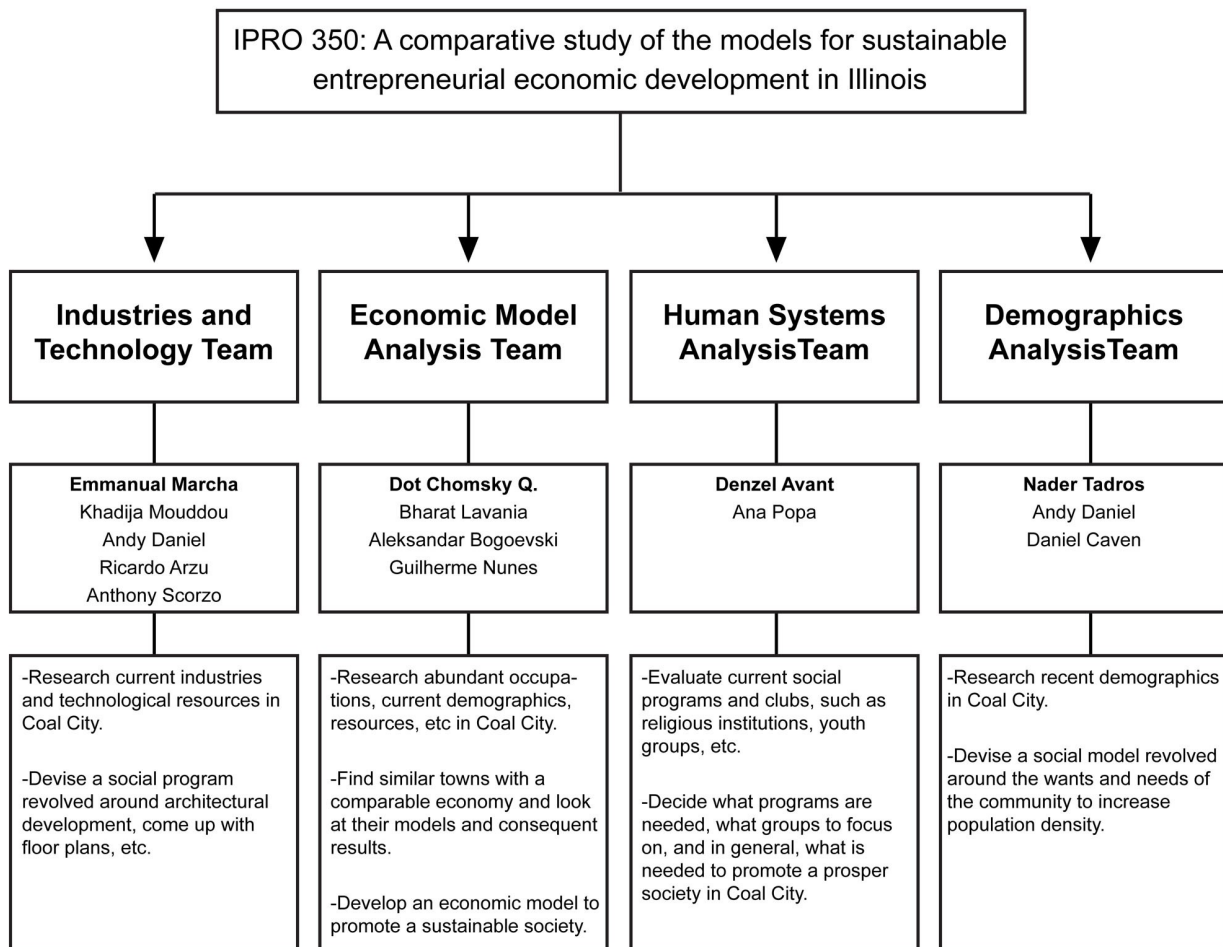
II. PROJECT METHODOLOGY

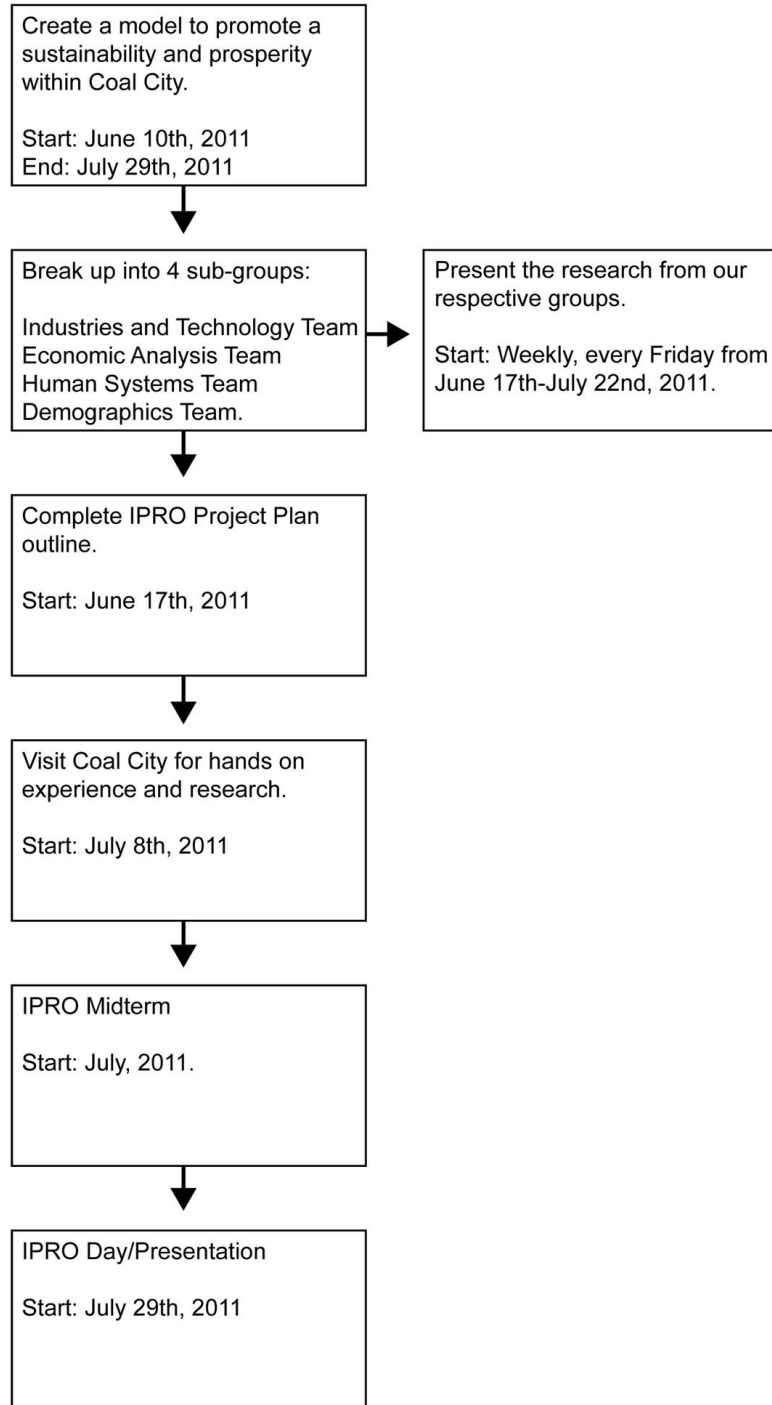1. **Work Breakdown Structure**
   a. Problem Solving Process
      i. We will be researching and analyzing the demographics, industries, and socio-economic status of Coal City and consequently building an economic, industrial, social, and architectural model to boost sustainability and prosperity within the town.
      ii. Collecting data from similar rural towns and comparing the studies to help give us an idea for designing our model. This data will then hopefully be used for future studies that involve promoting sustainable economies.
   b. Team Structure

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│  IPRO 350: A comparative study of the models for         │
│  sustainable entrepreneurial economic development        │
│  in Illinois                                             │
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Industries and Technology Team	Economic Model Analysis Team	Human Systems AnalysisTeam	Demographics AnalysisTeam
Emmanual Marcha Khadija Mouddou Andy Daniel Ricardo Arzu Anthony Scorzo	**Dot Chomsky Q.** Bharat Lavania Aleksandar Bogoevski Guilherme Nunes	**Denzel Avant** Ana Popa	**Nader Tadros** Andy Daniel Daniel Caven
-Research current industries and technological resources in Coal City. -Devise a social program revolved around architectural development, come up with floor plans, etc.	-Research abundant occupations, current demographics, resources, etc in Coal City. -Find similar towns with a comparable economy and look at their models and consequent results. -Develop an economic model to promote a sustainable society.	-Evaluate current social programs and clubs, such as religious institutions, youth groups, etc. -Decide what programs are needed, what groups to focus on, and in general, what is needed to promote a prosper society in Coal City.	-Research recent demographics in Coal City. -Devise a social model revolved around the wants and needs of the community to increase population density.

c. Work Breakdown Structure

Create a model to promote a sustainability and prosperity within Coal City.

Start: June 10th, 2011
End: July 29th, 2011

↓

Break up into 4 sub-groups:

Industries and Technology Team
Economic Analysis Team
Human Systems Team
Demographics Team.

→

Present the research from our respective groups.

Start: Weekly, every Friday from June 17th-July 22nd, 2011.

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Complete IPRO Project Plan outline.

Start: June 17th, 2011

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Visit Coal City for hands on experience and research.

Start: July 8th, 2011

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IPRO Midterm

Start: July, 2011.

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IPRO Day/Presentation

Start: July 29th, 2011

2. Expected Results

a. The goal of the Demographic Analysis team is to develop and design economic and sustainable prototype for promoting and developing small towns in Illinois.

b. The goal of Human System Analysis team is to gather information about quality of life in Coal city, and determine which organizations play major roles in town life.

c. The goal of Economic Model Analysis team is devise an economic model that creates sustainable growth in Coal city, by looking at similar successful projects and academic studies.

d. The goal of Industry and Technology Analysis team is to analyze the current industrial and technological development of Coal City, determine ways to increase its sustainability, and determine potential new avenues for further development.

3. Project Budget

Activity	Cost	Description
Transportation	$600.00	travel to Coal City, Peru, and Ottawa
Food	$200	Lunch, and Other expenses
Supplies	$600.00	Posters, Manuals, Reports, Architectural Drawings, Pictures,
IPRODAY Activities	$1000.00	IPRO Boat, Posters, Drawings, Boradcasting to/from Coal City
TOTAL	**$2400.00**	

4. Designation of Roles
5.

a. Team Leader- Task Manger : Denzel Avant
b. Minute Taker: Dot Chomsky Q.
c. Agenda Maker: Denzel Avant
d. Time Keeper: Nader Tadros
e. iGroups Moderator: Emmanuel Marcha