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ENST-70

10-21-09

1. Introduction (3 pages)
   1. Statement of thesis/question: How can New York City most effectively facilitate an increase in bicycle use and thus increase the sustainability of its transportation?
   2. Discussion of methods: Qualitative analysis of New York City’s prior efforts to induce changes in bicycle use in light of the currently available literature on the factors influencing bicycle usage
   3. Description of the nature of key sources
      1. Case studies
      2. Stated preference surveys
      3. Assorted scientific studies (on electric bicycle environmental impact, etc)
      4. Descriptive studies of New York City infrastructure
      5. NYC Department of Transportation (regarding city initiatives)
   4. Brief outline of paper
      1. List and describe major sections
      2. Outline paper structure
   5. Summary of key conclusions
2. Discussion of New York City’s current infrastructure at large (~2-3 pages)
   1. Describe size of city, populations, commuting times
      1. Analyze key differences between the five boroughs as related to cycling
      2. Discuss the extent to which infrastructure changes can be implemented in each borough and between boroughs
3. Literature Review & Analysis (~10 pages)
   1. Discussion of key findings in the literature
      1. Effects of road structure on bicycle use (on street parking, bike lanes, etc)
      2. Effects of societal norms on bicycle use
      3. Factors that decrease bicycle use (car availability, etc)
      4. Impacts of congestion charging on vehicles on bicycle use
      5. Effectively of social organization/protest
      6. Importance of policymaking officials to the development of ‘cycling friendly’ environments, and thus encouraging and increase in cycling
   2. Explanation of applicability/relevance of case studies to New York City
   3. Explanation of limitations of generalizing studies’ results to New York City
4. Analysis of recent city efforts to increase bicycle usage (~12-13 pages)
   1. In light of the above two sections of the paper:
      1. Summarize city infrastructure projects undertaken after the 1997 *Bicycle Master Plan* was created
      2. Discuss potentially worthwhile projects *not* undertaken
      3. Discuss city created and nongovernmental social programs
      4. Suggestions of new policy ideas/social programs
   2. Possibly discuss costs/effectiveness of different options
5. Discussion and Conclusion (3 pages)
   1. Restatement of thesis
   2. Reiteration of key points and suggestions
   3. Suggestions for future research/analysis
6. Bibliography