### **IPRO 305**

### User-Generated Map Content



#### Introduction

Products Value Proposition Problem Statement Goals Project Approach Team Organization Project Monitoring/ Tracking Risk Management Project Execution Challenges Major Accomplishments Conclusions Acknowledgements

### Introduction

# Corporate sponsor: NAVTEQ Digital map content provider Over 80,000 data sources

#### **Clients and consumers**

Introduction Products

#### Products Value Proposition

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### Maidadesopesition

Bestringentivestrively completion
 quality discurrence per community

User – generated

map

content

Data prification

User

NAVTEQ

NAVTEQ

Clients

Introduction Products Value Proposition

#### **Problem Statement**

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### Problem Statement

### No prior main lexists to investigate crove sourcing for user-generated map data

Introduction **Products** Value Proposition **Problem Statement**  •

#### Goals

**Project Approach Team Organization** Project Monitoring/ Tracking **Risk Management Project Execution** Challenges **Major Accomplishments** Conclusions **Acknowledgements** 

Identify 4-5 community groups Determine group incentives and incentive structure Collect and analyze community generated map content Draw conclusions from data analysis  $\bullet$ Formulate future IPRO305 goals

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#### **Project Approach**

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### <sup>p</sup>roject Approach

**Design map data-collection experiment** – NOKIA N97 mini mobile device - 'King of The Road' mobile application Design data analysis strategy Enlist community groups Conduct experiment trial-run Learn from the experiment

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#### **Team Organization**

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# Team Organization

#### **Team Leader**

#### Community Group Liaisons

IPRO Deliverables Team

Data Analysis Team Introduction Products Value Proposition Problem Statement Goals Project Approach Team Organization

#### Project Monitoring/ Tracking

Risk Management Project Execution Challenges Major Accomplishments Conclusions Acknowledgements

### Project Monitoring

#### Project plan monitoring

Tasks creation and resource allocation

#### Weekly status reporting

Sponsor updates

rackinc

- Community group updates
- Tasks status updates

#### Tools used

- Microsoft Project Plan
- Timesheet application
- Discussion board
  - File sharing

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#### **Risk Management**

Project Execution Challenges Major Accomplishments Conclusions Acknowledgements

### kisk Management

- Risk identification, assessment
  - Data collection experiment feasibility
  - Data analysis validity
  - 'King of The Road' readiness
- **Risk mitigation** 
  - Data collection experiment trial-run
  - Data analysis prototype
  - Provide users time to explore 'King of The Road'

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#### **Project Execution**

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# Project Execution







Chicago Nightlife Community: College students and business professionals POI data: Restaurants, bars

#### **Downtown Evanston**

Community: Business people

POI data: Tenancy

#### Northwestern University Community: Football coaching staff, interns

POI data: Restaurants, practice fields

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#### **Project Execution**

Challenges Major Accomplishments Conclusions Acknowledgements

	Control (no incentive)	Individual Incentive	Community Incentive
Group A	Weeks 2-3	Berwyn v	Weeks 4-5
Group B	(171) North River	Weeks 4-5	Weeks 2-3
Group C		Weeks 2-3	Weeks 4-5

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#### **Project Execution**

Challenges Major Accomplishments Conclusions Acknowledgements

## Project Execution

### Results

- 1<sup>st</sup> place: Downtown Evanston: 1330 Points
- <sup>2nd</sup> place: Northwestern Football: 200 points
- 3<sup>rd</sup> place: Chicago Nightlife: 40 points

Individual winner: Stamata Blanas

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#### Challenges

Major Accomplishments Conclusions Acknowledgements

### Challenges

- 'King of the Road' user interface
  Preaching patience
  Adjustments
  - Economical constraints
  - New online data-collection tool

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#### Major Accomplishments

Conclusions Acknowledgements

### Major Accomplishments

Development of the experiment
Establishment of relationships with community groups
Identification of highest quality incentives

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#### Conclusions

Acknowledgements

### Conclusions

#### Real world issues

#### Executing alternate strategies

Collecting useful data for NAVTEQ

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#### Acknowledgements

cknowledgements

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