

Coalition



#### THE ISSUE

- Estimated population = 1,200
- Tourism number one source of revenue Biosphere & surfing
- Home to one of worlds top surf breaks
- Stop on the Billabong Pro World Tour Contest
- Estimate between 10 and 30 thousand surfers/spectators annually (>20 thousand due to Billabong Pro)
- 2005 dredging of river mouth destroyed sandbar and the wave disappeared for over a year
- Contest cancelled in Mundaka two years in a row
- No studies or estimates done to quantify the value of the surf tourism or the wave to the town

# Methodology

- Research questions
  - Is surfing a significant source of Economic activity in Mundaka,
    Spain (Economic Impact Analysis)
- Survey
  - Online survey designed and open from September to December 2007
  - Survey designed to capture spending, trip characteristics, demographics of surf market participants
  - Promotional cards distributed at local businesses and by hand
- Population/response rate
  - Target population was 150 to 300 (depending on contest)
  - Survey population 140
  - 50% Response rate
- Analysis
  - Economic Impact using MGM2 model
  - OLS Regression model

# **Participant Characteristics**

#### Average visitor:

- 30yrs
- Male
- University education
- Annual Income = 26,500euros
- Distance traveled = 1530km
- 3 Annual trips to Mundaka
- 4 Days spent surfing
- 3 Travel partners
- Attended Billabong Pro twice

#### Majority:

- Visited other locations
- Split expenses on combination of items
- Camped or stayed with friends & ate at Restaurants/Cafes
- Would continue to visit if Billabong Pro was no longer held in Mundaka
- Would no longer visit if wave was permanently degraded

# **OLS Regression**

- Research question
  - What factors, if any, influence expenditures by surf market participants in Mundaka, Spain
- Dependent Variable
  - Total expenditure

(computed variable= totallodge+totalmeals+totalfuel+totallesssons +totalstuff)

- Independent Variables
  - 1. Age
  - 2. Sex
  - 3. Annual Income
  - 4. Highest level education
  - 5. Distance traveled
  - 6. Did you visit other locations
  - 7. Annual visits
  - 8. Days spent surfing
  - 9. Number of travel partners
  - 10. Did you split expenses

# **OLS Regression**

- No significant variables (no p-values <.001)</li>
- Adjusted R<sup>2</sup> value .479 (48% explained)
  - Reporting adjusted R<sup>2</sup> because of the small sample size
- Standardized Beta (β)
  - Negative relationships found for Annual Income (-.144),
    Education Level (-.046), and Distance Traveled (-973).
  - Run travel cost analysis
  - Positive relationships found with Age (.298), Visiting Other Locals (.197), and Days Spent Surfing (1.23)

### **ECONOMIC IMPACT ANALYSIS**

Average spending per visitor per party night = \$120

•Multipliers: Direct Sales 1.33 Jobs 1.19 Personal Income 1.32

Capture Rate and Leakage

Stay: 3 nights, 4 days surfing

•Visitor type by percent:

Non Local Day User 35%

Motel In Area30%

Camp In Area35%

#### **ECONOMIC IMPACT ANALYSIS**

30,000 Visitors annually (estimated for four days & three night visit)

- Total annual spending = \$3,621,000
- Total effects of spending (Direct + Indirect):

Total Sales Effects

\$3,411,000

- Jobs 7

Total Personal Income Effects \$1,158,000

10,000 Visitors annually (estimated for four days & three night visit)

- Total annual spending = \$1,207,000
- Total effects of spending (Direct + Indirect):

Total Sales Effects

\$1,137,000

- Jobs 24

Total Personal Income Effects

\$386,000

## **ECONOMIC IMPACT ANALYSIS**

**Table 2. Economic Impacts of Visitor Spending : Direct & Secondary Effects** 

#### **Direct Effects**

				Personal Income	Value Added
Sector/Spending category	<b>Direct Sales</b>	\$000's	Jobs	\$000's	\$000's
Motel, hotel cabin or B&B		513	12	149	226
Camping fees		305	2	46	112
Restaurants & bars		522	14	164	229
Admissions & fees		477	12	164	268
Gambling		<del>-</del>			<b>-</b>
Other vehicle expenses					-
Local transportation		-			-
Retail Trade		613	19	313	488
Wholesale Trade		102	1	41	70
Local Production of					
<u>goods</u>		30	0	1	1
<b>Total Direct Effects</b>		2,561	60	878	1,394
<b>Secondary Effects</b>	00000	850	11_	280	520
Total Effects		\$ 3,411	71	\$ 1,158	\$ 1,914
Multiplier		1.33	1.19	1.32	1.37

#### **Future Research**

- Further Economic Impact:
  - On site survey
  - Input/Output analysis to better measure effects
  - Impacts of the Billabong Pro Contest
  - Specific survey to measure expenditure influences
- Non market valuation:
  - Need to measure the value of surfing and site to the participant, resident, and spectator (contingent value method)
  - Need to measure investment made by participants (travel cost method)

#### Conclusion

- Surfing is a viable and valuable recreational activity for the city of Mundaka
- The loss of the surf break would result in a major loss of surf tourism and culture
- Certain trip characteristics could be good predictors of spending behavior
- The total economic impact is potentially greater than \$3million annually
- Value of surfing is potentially greater than Economic Impact

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