Assessing recreation values of Střížovický vrch by contingent valuation method: problems and experiences

Mgr. Petr Lupač

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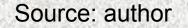
Department of Sociology Faculty of Arts, Charles University

E-mail: petr.lupac@centrum.cz

Introduction

- Střížovice peak next to Klíše district in Ústí nad Labem
- Business plan to build up a sport-recreational complex in the Střížovice peak area – roofed downhill skiing, swimming pools
- Formation of a civic movement that question procedure of land-use planning, a public debate begins
- Use of contingent valuation method under conditions of independent student research

Actual state of Střížovice peak – variant B



Projected look at the Střížovice peak – variant A



Source: investor

General information - survey

- Sample: N=328
- On-site survey, standardized interview
- Quota sampling (citizen of Ústí nad Labem, sex, age, education; district was not chosen as a quota but interviewers were allocated all around the town), sampling frame: ČSÚ
- Interviewer's network: 17 instructed students of FŽP UJEP
- Specific form of CVM used in questionnaire according to Czech Ecological Institute's use of CVM in Tmaň, 1995 (controversial building of a cement factory)

Anticipated problems and used solutions

Flaws entering the research:

Used solutions:

Unawareness of social environment, Brainstorming with locals historical and symbolical dimensions of evaluated object A problem of respondents who Questioning sensitivity to environment reveal false preference Inserting questions focused on Flaws based on reduced perceiving symbolical dimension of Střížovice peak, of evaluated object (→evaluation of preferred spending leisure time and nonuneven objects) residential buildings constructions Willingness to pay in hypothetic Reduction of the difference by inserting a markets can differ from a real question evoking market context willingness to pay. Emphasis on even introduction to Suggestibility (choice of questions, benefits and problems of both variants, choice of information) interviewer's network training Unsatisfactory understanding of the Pre-research, pilot study act of evaluation

The structure of the questionnaire a. Sociodemographic indicators (QA-QD, Q12-Q15) b. Questions about leisure time spending (Q1-Q4) c. Attitudes to problems of an environment in general (Q7) Introduction of both scenarios d. Attitudes to problems of a local environment (Q9) e. Respondent chooses one scenario and reasons his/her choice (Q901-Q902) f. Evaluation by those who have chosen scenario B> I. Question evoking the market situation – the paying card (Q10) II. Expression of the subjective monetary value that would be paid for a long period (15 years) in the case of scenario B (Q11)

The act of evaluation

Step I.

• Explanation why expenses will rise if no sport complex would be built (variant A).

Imagine the situation if no area Eden park would be built. There will be no new jobs and town hall will not be accepting a rent for at least 15 years. As a result, some local fees and town services could be more expensive.

• Estimated increase of expenditure using the paying card.

Step II.

- Respondent initiated to the necessity of money expense.
- Prompt to consider previous valuation and long-term payment aspect.

Carefully consider and specify the highest amount of money that you would be willing to pay personally every month for a long time (15 years – estimated technological lifespan of the sport center) only for substitute the variant A for the variant B. <u>ASSUME THAT WITH</u> <u>REALIZATION OF THE VARIANT B NO LOCAL FEES WOULD CHANGE. NOW YOU</u> <u>CAN CHANGE COMPLETELY THE FIGURE NAMED IN PREVIOUS QUESTION. TAKE</u> <u>THE NET MONTH INCOME OF YOUR HOUSEHOLD PER HEAD AND CONSIDER</u> <u>WHAT MAXIMAL SUM OF MONEY WOULD BE BEARABLE FOR YOU PERSONALLY?</u>

 Spontaneous utterance of a sum of money that a respondent would be willing to pay

Questionnaire - part VII (Q10-Q11)

10) ODPOVÍDAJÍ JENOM TI, KTEŘÍ VOLÍ VARIANTU B V OTÁZCE 901. Představte si situaci, kdy nebude vybudován areál Eden park. Nebudou vytvořena nová pracovní místa a město přijde o příjem z pronájmu po dobu min. 15 let a v důsledku by tak mohlo dojít ke zvýšení některých místních poplatků a cen městských služeb. <u>O KOLIK BY SE V TÉTO SOUVISLOSTI S PŘIJETÍM VARIANTY B</u> <u>MOHLY ZVÝŠIT MĚSÍČNÍ VÝDAJE VAŠÍ DOMÁCNOSTI, ABYSTE STÁLE VOLIL VARIANTU</u> B? Vyberte sumu, která je nejblíže zvolené částce.

PŘEDLOŽTE KARTU 10, ZAKROUŽKUJTE ODPOVĚĎ

0	50	150	300	500 a více
1	60	160	320	
3	70	170	340	
5	80	180	360	
10	90	190	380	
15	100	200	400	
20	110	220	420	
25	120	240	440	
30	130	260	460	
40	140	280	480	

PŘEDLOŽTE KARTU VARIANTA "A" A KARTU VARIANTA "B"

- 11) Tato otázka je velmi důležitá. Pečlivě zvažte a upřesněte, jakou nejvyšší částku byste byl/a vy osobně ochoten (ochotna) platit každý měsíc po dlouhou dobu (15 let technologická životnost areálu) jen za to, že bude varianta A nahrazena variantou B. <u>PŘEDPOKLÁDEJTE, ŽE REALIZACÍ VARIANTY B BY SE VAŠE MÍSTNÍ POPLATKY NEZMĚNILY. ČÁSTKU STANOVENOU V MINULÉ OTÁZCE MŮŽETE NYNÍ ZCELA ZMĚNIT. VEMTE V ÚVAHU ČISTÝ MĚSÍČNÍ PŘÍJEM NA HLAVU VE VAŠÍ DOMÁCNOSTI A ZVAŽTE JAKÁ MAXIMÁLNÍ ČÁSTKA BY BYLA PRO VÁS OSOBNĚ ÚNOSNÁ?</u>

Results

- 66,5% (218) have chosen scenario B not to build.
- If we only count for figures that are lower than 100 Kč, then the average is 49,- (10x higher than "needed")

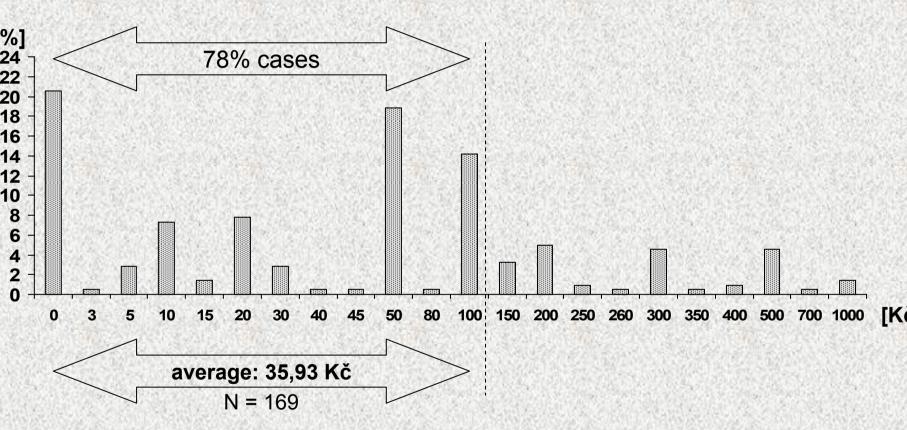
 People who have chosen scenario A more inclined to assess local environmental problems as really serious after introduction of scenarios (difference was statistically significant for α=0,001).

Results of valuation

Variant B Not to build a center

66,5 % (218)

 Spontaneous utterance of a sum of money that a respondent would be willing to pay for a long time



Lessons from the survey

- We located strong "hypothetical bias" that is reflected by "banknote's efect"¹⁾
 - We recommend to emphasize the long-term aspect of payment (in similar surveys)
- Trained interviewer's net is needful

1) The same distribution was present in results from Tmaň survey (1995)