

INTRODUCTION

- * Context: SHANTI:
 - * Harmonizing national travel surveys across Europe
 - * Improving comparability NHTS
- * Multitude of research efforts on design of travel surveys
 - * Online travel survey manual (ABJ40)
 - * NCHRP Report 571
- * Limited amount of guidelines on **which questions** should be asked

➔ Mini-Travel Survey Questionnaire (MTSQ)
(Survey in Essentialness of NHTS questions)

MTSQ SURVEY

- * Four parts
 - * Expert's profile
 - * Essentialness HH-related questions
 - * Essentialness person-related questions
 - * Essentialness trip/journey-related questions
- * 81 expert opinions
- * Essentialness
 - * **Essential:** it should be part of every national travel survey no matter what
 - * **Recommended:** the item is recommended for methodological/analytical issues (e.g. weighting)
 - * **Secondary:** not essential and not (absolutely) required for methodological/analytical issues

METHODOLOGY

- * Prioritization weights
- * Influence of experts' profiles
- * Poisson regression
- * Fisher's exact test

	Ordinal assessment	Weight
Essential		5
Recommended		2
Secondary		1
No opinion		0

Essential %	Recommended %	Secondary %	Score
100	0	0	500
90	0	10	460
80	10	10	430
70	20	10	400
60	30	10	370
50	50	0	350
40	50	10	310

RESULTS (ESSENTIAL)

Block	Question	World	Europe	N.-America
HH1	Age/date of birth of the HH-members	471.61	471.42	468.20
HH1	Number of persons with the HH	466.67	462.50	472.73
HH1	Gender of the HH members	453.12	462.50	422.72
HH1	Occupation (active/non-active) of the HH-members	448.15	455.34	422.72
HH1	Net household income (predefined categories)	380.26	348.24	459.08
HH1	Work regime (full-time, part-time, ...) of the HH-members	359.29	330.36	427.26
HH3	Number of cars with the HH	456.79	442.85	486.35

Block	Question	World	Europe	N.-America
PER1	Age / date of birth	475.30	483.92	449.99
PER1	Gender	464.20	473.21	436.37
PER1	Driving license for private vehicles (Y/N)	445.68	451.77	422.72
PER1	Possession of a PT card (season ticket/transit pass)	406.17	405.35	395.45
PER2	Domicile for the travel day: geographical information	430.84	416.07	472.73

Block	Question	World	Europe	N.-America
TRIP	Departure point of the trip	479.03	469.63	500.00
TRIP	Destination point of the trip	475.29	464.31	500.00
TRIP	Main transport mode of the trip	470.37	457.15	500.00
TRIP	Departure time of the trip	464.21	448.23	500.00
TRIP	Arrival time of the trip	448.14	430.36	486.35
TRIP	Trip purpose (generic, e.g. list of 10 purposes)	434.57	442.85	404.56
TRIP	For each stage within the trip: transport mode	390.15	367.84	445.46

RESULTS (EXPERTS)

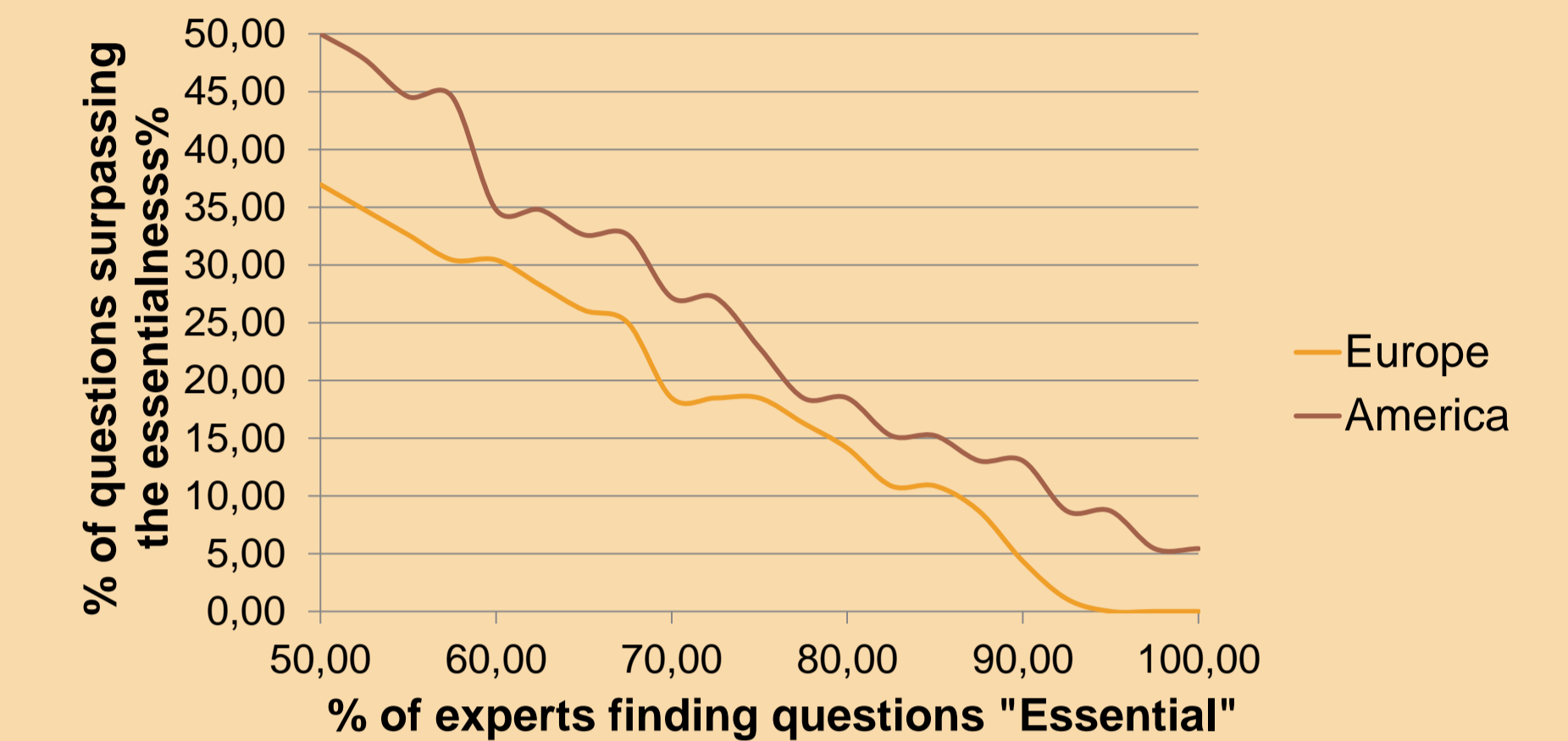
Expert's profile	ALL	HH1	HH2	HH3	PER1	PER2	PER3	TRIP
SHANTI att.	0.967	0.488	0.020	0.547	0.354	0.619	0.772	0.163
Affiliation type	0.789	0.831	0.028	<0.001	0.534	0.782	0.030	0.222
Continent	<0.001	0.124	0.018	0.193	0.836	<0.001	0.281	<0.001
NHTS involvement	<0.001	0.943	0.042	0.540	0.968	0.002	0.726	<0.001
NHTS use: demand	0.010	0.396	0.179	0.058	0.405	0.266	0.878	0.172
NHTS use: need	0.133	0.768	0.049	0.774	0.066	0.654	0.006	0.572
NHTS use: impact	0.210	0.488	<0.001	0.007	0.518	0.951	0.344	0.300
NHTS use: market	0.026	0.167	0.543	0.716	0.251	0.849	0.027	0.943
NHTS use: causal	0.027	0.098	0.983	0.984	0.074	0.859	0.009	0.736

Block	Expert's profile	Level	Mult. Eff.
ALL	Continent	North America (vs Europe)	+17.4%
ALL	NHTS involvement	Yes (vs No)	-11.8%
ALL	NHTS use: demand estimation	Yes (vs No)	+15.4%
ALL	NHTS use: market research	Yes (vs No)	-9.1%
ALL	NHTS use: causal analysis	Yes (vs No)	+8.4%
HH2	SHANTI attendance	Yes (vs No)	+56.1%
HH2	Affiliation type	Consultancy (vs University)	-63.0%
HH2	Continent	North America (vs Europe)	-45.0%
HH2	NHTS involvement	Yes (vs No)	+53.1%
HH2	NHTS use: need estimation	Yes (vs No)	+46.8%
HH2	NHTS use: impact assessment	Yes (vs No)	-50.1%

Block	Expert's profile	Level	Mult. Eff.
HH3	Affiliation type	Policy (vs University)	-40.9%
HH3	NHTS use: demand estimation	Yes (vs No)	+41.3%
HH3	NHTS use: impact assessment	Yes (vs No)	-25.2%
PER1	NHTS use: need estimation	Yes (vs No)	+16.3%
PER1	NHTS use: causal analysis	Yes (vs No)	+16.8%
PER2	Continent	North America (vs Europe)	+68.7%
PER2	NHTS involvement	Yes (vs No)	-31.1%
PER3	Affiliation type	Policy (vs University)	+32.4%
PER3	NHTS use: need estimation	Yes (vs No)	+29.7%
PER3	NHTS use: market research	Yes (vs No)	-23.8%
PER3	NHTS use: causal analysis	Yes (vs No)	+30.2%
TRIP	Continent	North America (vs Europe)	+43.6%
TRIP	NHTS involvement	Yes (vs No)	-30.0%

Expert's profile	ALL	HH1	HH2	HH3	PER1	PER2	PER3	TRIP
SHANTI attend.	7.6%	7.1%	20.0%	0.0%	17.6%	0.0%	0.0%	4.8%
Affiliation type	9.8%	7.1%	10.0%	13.3%	17.6%	0.0%	11.1%	4.8%
Continent	29.3%	21.4%	30.0%	26.7%	5.9%	66.7%	0.0%	57.1%
NHTS involv.	22.8%	35.7%	10.0%	6.7%	5.9%	50.0%	0.0%	47.6%
NHTS use: demand est.	4.3%	7.1%	0.0%	6.7%	5.9%	0.0%	0.0%	4.8%
NHTS use: need est.	6.5%	7.1%	0.0%	0.0%	11.8%	0.0%	33.3%	0.0%
NHTS use: impact assessm.	10.9%	14.3%	40.0%	13.3%	5.9%	0.0%	0.0%	4.8%
NHTS use: market research	5.4%	7.1%	10.0%	6.7%	5.9%	0.0%	0.0%	4.8%
NHTS use: causal analysis	4.3%	7.1%	0.0%	6.7%	11.8%	0.0%	0.0%	0.0%

RESULTS (EUR-US)



Response	Europe	N.-America
Household members to be surveyed (p-value FE: 0.0141)		
All household members	58.93%	95.45%
All adults and selection of children	14.29%	0.00%
Selection of adults and children	12.50%	0.00%
Adults only	10.71%	0.00%
No opinion	3.57%	4.55%
Minimum level of geographical detail in trip diary (p-value FE: <0.0001)		
Full address	39.29%	95.45%
Street of the address	25.00%	0.00%
Municipality	26.79%	4.55%
Adm. level 1 above municipality	0.00%	0.00%
Adm. level 2+ above municipality	3.57%	0.00%
No opinion	5.36%	0.00%

CONCLUSIONS

- * Most essential "global" questions identified and ranked
 - * Ranking: guideline for countries without NHTS
- * Large differences between USA and EU
- * Identification of factors influencing essentialness
- * Indication that SHANTI recommendations and findings are representative for all experts

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