University of Primorska Faculty of Tourism Studies Turistica



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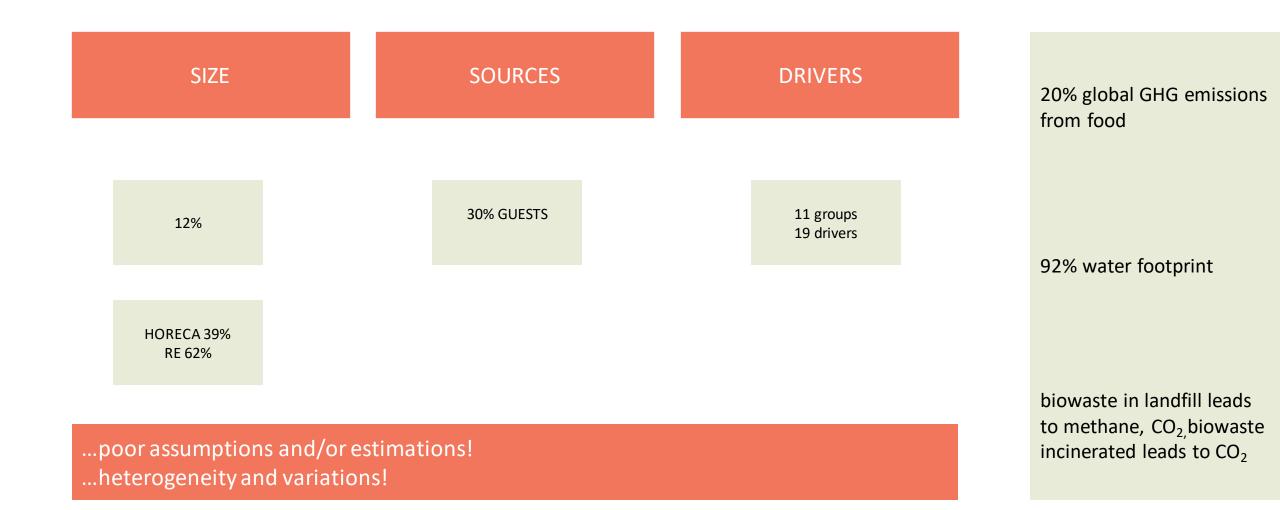
The many shades of food waste in HORECA!

Emil JUVAN

(PhD, M.A., M.Sc)

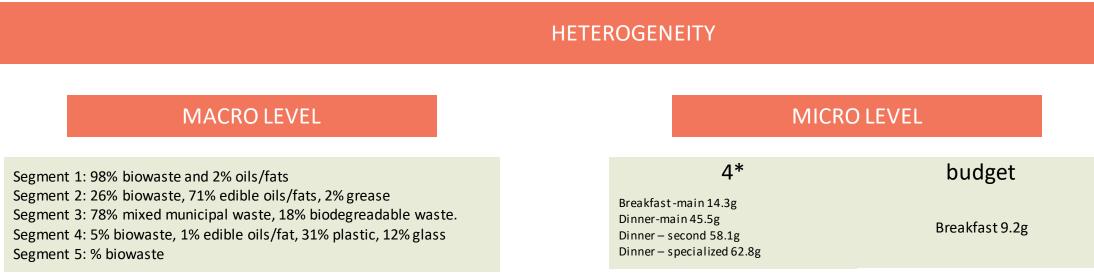
Brussels, June^{4th}, 2024

PROBLEM/CHALLENGE





THE NATURE OF THE PROBLEM



Juvan, E. et al. (2021). Drivers of plate waste at buffets: A comprehensive conceptual model based on observational data and staff insights. Annals of Tourism Research Empirical Insights, 2(1), 100010 Juvan, E., Gruen, B., Dolnicar, S. (2023). Waste production patterns in hotels and restaurants: An intra-sectoral segmentation approach. Annals of Tourism Research Empirical Insights, 4, 100090

NANO LEVEL						
VIP	DAY1	DAY2	DAY 3			
REGULAR (60g)	47.5g	59.5g	72.6g			
UPSCALE (119g)	68g	138g	151g			
DELUXE (146g)	152g	119g	167g			
MEDIA (11g)	12g	9g	12g			

Juvan, E., Lesjak, M. (in press). "Panem et circenses": investigating platewaste at major sport events (SDG 12.3)



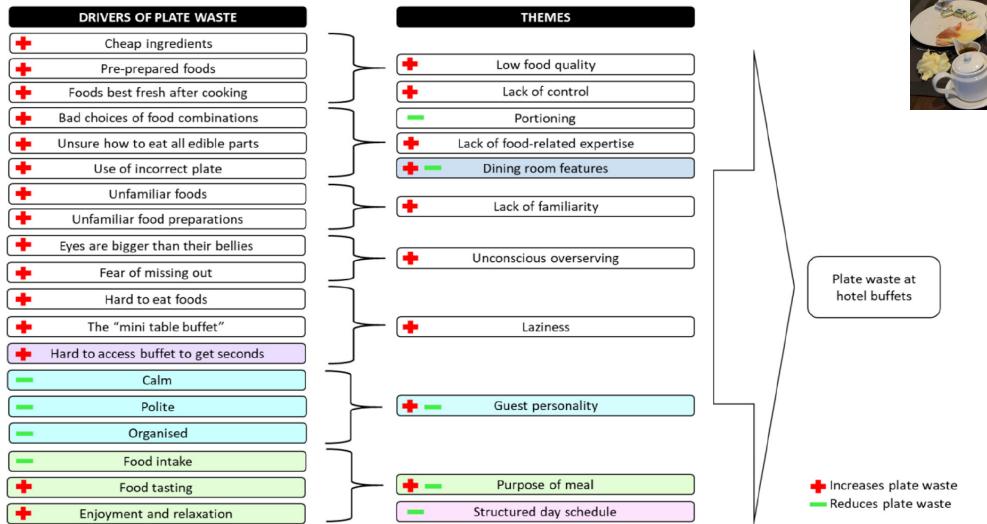
TACKLING THE PROBLEM

- 4 LIVING LABS
 - Coastal resort
 - High-end restaurant
 - Mountain hotel
 - MICE center/hotel
- STAFF
 - Trained graduate students
 - Trained staff
- DEVELOPERS
 - researchers
 - IT





LESSONS LEARNED - DRIVERS







LESSONS LEARNED - SUCCESS

			Please help us reduce food waste.				
Thank	you Ifeel Love				3 7	</th <th></th>	
HOTEL	Histrion D	Vile Par	rk 🗆	DATUM/DATE	ŽIG/STAMP	DATUM/DATE	ŽIG/STAMP
	Histrion D	Vile Par	rk 🗆	DATUM/DATE	ŽIG/STAMP	DATUM/DATE	ŽIGJSTAMP
HOTEL SOBA / ROOM PRIHOD / ARRIVAL	Histrion C	Vile Par	rk 🗆	DATUM/DATE	ŽIG/STAMP	DATUM/DATE	ŽIG/STAMP
SOBA/ROOM	Histrion D	Vile Par	rk 🗆	DATUM/DATE	ŽIG/STAMP	DATUM/DATE	ŽIG/STAMP
SOBA / ROOM PRIHOD / ARRIVAL	Histrion E	I Vile Par	rk 🗆	DATUM/DATE	ŽIG/STAMP	DATUM/DATE	ŽIG/STAMP
SOBA / ROOM PRIHOD / ARRIVAL ODHOD / DEPARTURE NARODNOST / NATIONALITY	Histrion E	Vile Par	rk 🗆	DATUM/DATE	ŽIG/STAMP	DATUM/DATE	ŽIG/STAMP
SOBA/ROOM PRIHOD / ARRIVAL ODHOD / DEPARTURE	Histrion E	Vile Par		DATUM/DATE	ŽIG/STAMP	DATUM/DATE	ŽIG/STAMP

- 13g per family member+38% more 0 plate waste families

Pleasure/Game Reward



12g per guest @ dinner 0g per guest @ breakfast

Sharing responsibility/Game Crowdedness



LESSONS LEARNED - SUCCESS



"Clean Your Plate Campaign, Chairman says thriftiness is applaudable"



"Clean Your Plate Campaign, every single grain means hardship"

Yuheng Zhu, O., Hongwei, L., Grün, B., Dolnicar, S. (2024). The power of respect for authority and empathy – Leveraging non-cognitive theoretical constructs to trigger environmentally sustainable tourist behaviour. Annals of Tourism Research, 105, 103681

LESSONS LEARNED - FAILURE



0 effect

Music/Feelings/Calmness Crowdedness/Food odor

Food leftovers harm the environment.

Our hotel cat Marko has put on too much weight!

Hotel guests leave uneaten food

behind on their plates.

Marko loves food, so he eats the

leftovers.

Marko puts on weight.

Marko needs to go on a diet!



preparing food requires a lot of water and energy When food is not eaten, those resources are used unnecessarily, burdening the environment.

In landfill, food waste produces methane, a gas that warms the atmosphere 23 times more than CO...

To reduce harm to the environment we must avoid food leftovers.

Please help the environment: don't leave edible food leftovers on your plate at the end of your meal.

Please help Marko with his diet: don't leave edible food leftovers on your plate at the end of your meal.

0 effect

Humour **Environmental appeal**

Crowdedness/Situational factors



CHALLENGES

• Automatization

- error free
- less manual work
- benchmarking
- instalment
- adoption
- Measurement
 - sources of food waste
 - staff
- Funding
 - scientific approach
- Implementation
 - concern over guests reactions
 - adopting the notion of "universal approaches"
 - shortage of staff



In partnership with...





Thank for your attention!



Fakulteta za turistične študije - TURISTICA Facoltà di studi per il turismo Faculty of Tourism Studies

