Quality of life interventions Isabelle Richard – ENVIRONNONS

ANIMA HYBRID WORKSHOP

VIENNA, JUNE 22, 2021

NEW APPROACHES TO MITIGATE AVIATION NOISE IMPACT













Horizon 2020

WP 3 - Task 3.1.2

Objective of the task

Evaluation of residents' responses to interventions resulting from the balanced approach

- Operational procedure
- Land use planning and management
- Communication

Analyse to what extent efforts that are deployed by airports to have good relationship with neighbours are efficient & well perceived by communities

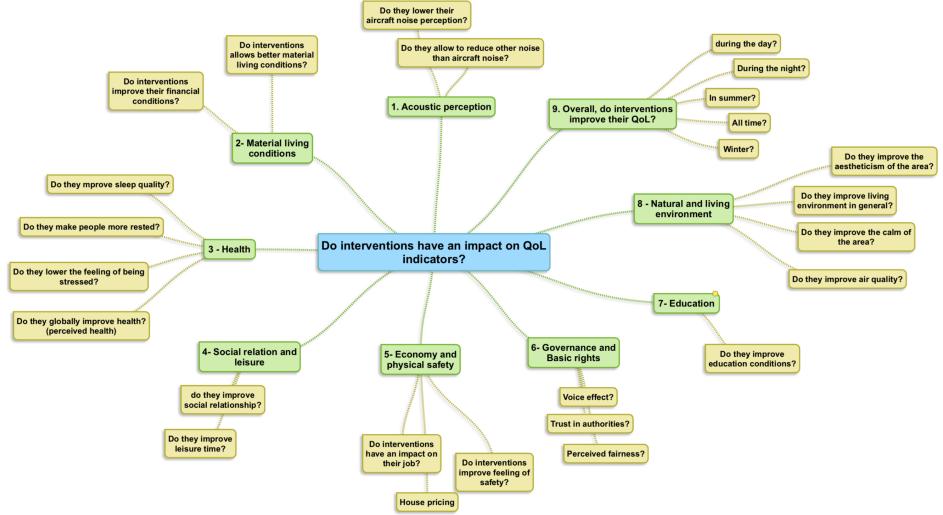
- Do they know the intervention ?
- Does it improve their quality of life ?
- Does it lower their annoyance ?





Research hypothesis

Main question : Do existing interventions have an impact on QOL indicators ?



Jun 22, 2023



Team and interventions investigated



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Airport	Frankfurt (FRA)	Heathrow (LHR)	Marseille (MRS)	Schiphol (AMS)
Intervention	Consultation procedure	Sound insulation	Sound insulation	Departure procedure
Pillar of BA	Communication	Land use planning	Land use planning	Operational procedure
Flight movements per year	513.912	476.133	109.894	496.826





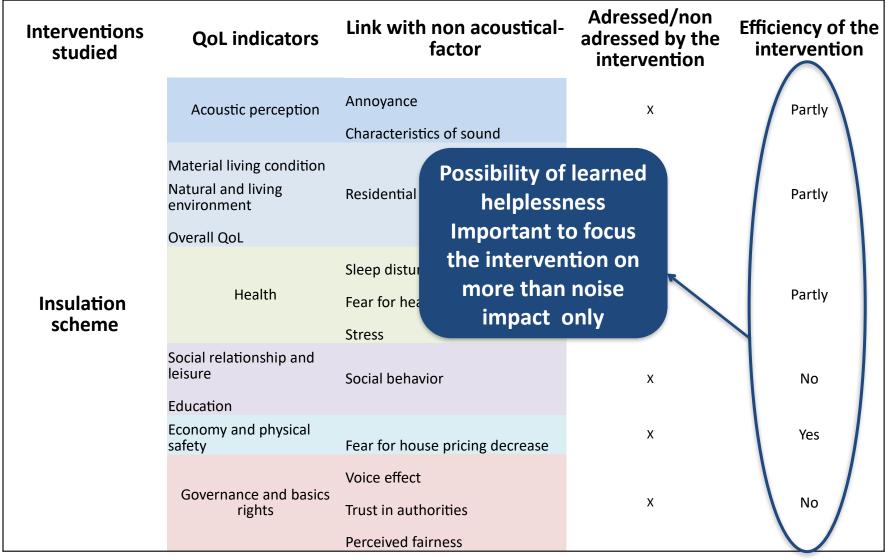
Methodologies

	Radius to fix approach	Consultation procedure	Insulation scheme in Marseille	Insulation scheme in Heathrow
Tools	Data from a questionnaire	In depth interviews	Focus-Groups	In depth interviews
No. of participants	1212	27	28 divided in 4 groups	10
Type of data	quantitative	qualitative	qualitative	qualitative





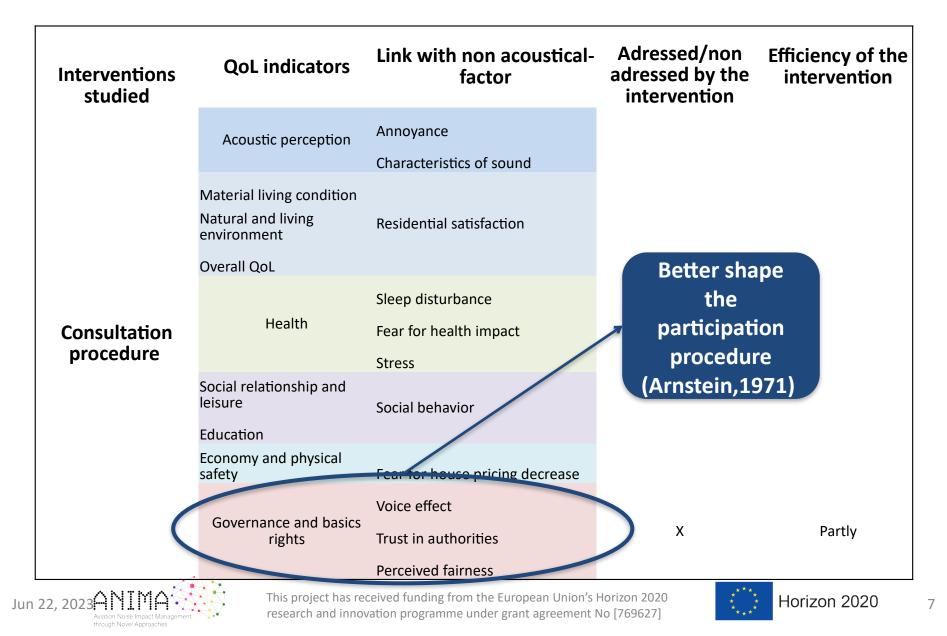
Results for insulation scheme







Results for consultation procedure



Results for radius-to-fix procedure

Shape of results different from the other interventions as the data were already collected for another study

> No clear impact on quality of life in general

- People report a quite high residential satisfaction (inner, outer area and area outside noise contour)
 - But still differences between people who live closer to the airport (Inner/outer and area outside noise contour), who report less residential satisfaction (although it's still high)
 - Feel more annoyed by aircraft noise
 - Report more sleep disturbance from aircraft noise than from other transport modes





Conclusion

Actual interventions are not design to adress QoL because they are not well known

If adressed, interventions have no a huge impact on these QoL indicators

Actual interventions are mostly only based on noise reduction but other things can bother people (see non acoustical-factors)

Interventions only adress tokenism participation rather than citizen power process





How to better address quality of life in designing interventions ?

Participation/Fairness (capacity of the intervention to better include residents in the decision-making process)

Health (capacity of the intervention to lower the pollution, noise, and stress effects of air traffic and to improve sleep of residents)

Social life and leisure (capacity of the intervention to lower the impact of

air traffic on these activities)





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Thank you for your attention !

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EXTRA SLIDES

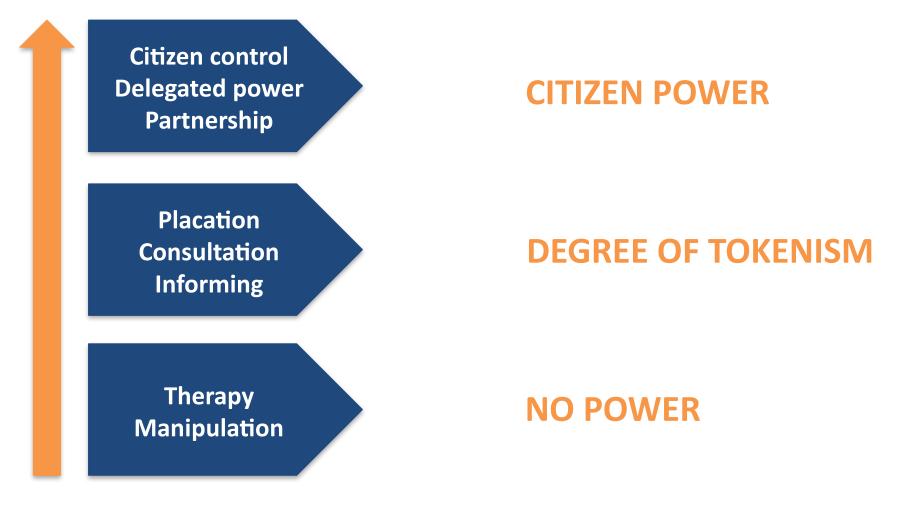


This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No [769627]



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Arnstein scale of participation (1971)







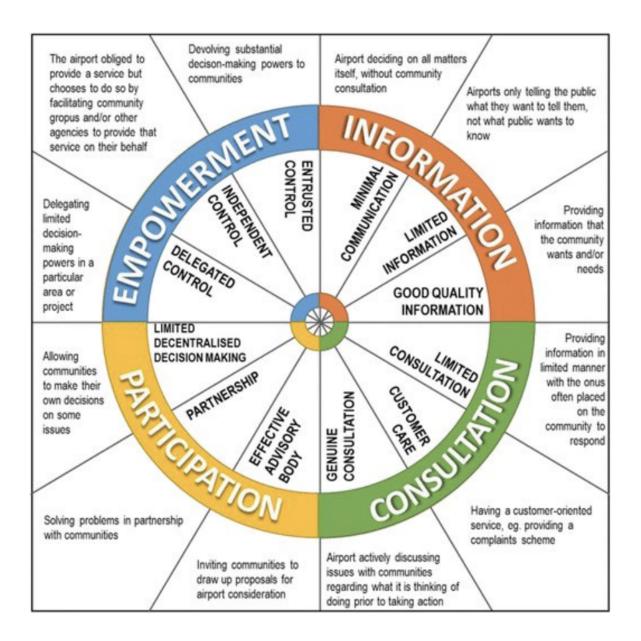


Figure X: Asensio el al (2017) Wheel of Public Participation.



