

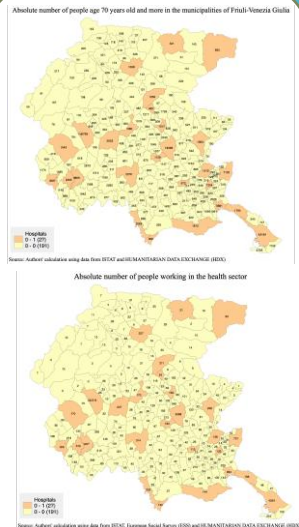


Meso and micro perspective on climate change impacts, the case of Cattinara hospital Italy

Madelinde Winnubst (Utrecht University), Thanasis Ziogas & Angelo Jonas Imperiale

Risk assessment is an important tool to envisage risks related to climate change and the socio-economic impact. A meso and micro perspective have been used to analyse the socio-economic impact of climate change in the case of Cattinara hospital in Trieste, Italy.

1. The meso perspective encompasses the findings of the development of a spatial microsimulation model aimed at estimating geographical distributions of relevant socio-economic indicators for regions affected by climate induced events. It also includes the use of Geographical Information Systems (GIS) to map the outputs as well as econometric analysis of the model outputs.



2. The micro perspective comprises the findings of a survey distributed among technicians, practitioners of the Cattinara hospital and representatives of civil society organisations of the municipality of Trieste.

Table 1: OLS Regression using Happiness and Life Satisfaction as dependent variables and health facilities as independent dummy variables

	Happiness	Happiness	Happiness	Life Satisfaction	Life Satisfaction	Life Satisfaction
Whether municipality has hospital (yes/no)	0.051*** (0.007)			0.071*** (0.014)		
Whether municipality has hospital or clinics (yes/no)		0.046*** (0.007)			0.069*** (0.013)	
Whether municipality has hospital, clinics or doctors (yes/no)			0.052*** (0.009)			0.048*** (0.016)
Constant	7.171*** (0.005)	7.171*** (0.005)	7.166*** (0.006)	6.817*** (0.009)	6.816*** (0.010)	6.803*** (0.011)
Observations	218	218	218	218	218	218
Adjusted R2	0.0513	0.0539	0.0457	0.0508	0.0542	0.0511
F-statistic	47.60	44.55	13.45	26.94	29.08	9.57

Robust Standard Errors in parentheses
*** p<0.01, ** p<0.05, * p<0.1

3. The meso perspective on climate change impact indicates that a partially functioning hospital is important assuming that access to health care will be continued. **The micro perspective** on climate change impact points out that the hospital's building and supply chain have to be taken into account in risk assessment of climate change-induced events.