

Supplementary Material D. Details of Factor Analysis

Respondents provided responses to 15 questions about various attitudes and beliefs using a 5-point Likert scale. Common factor analysis with the primary axis method (a maximum likelihood approach) in the R psych package was used to create a reduced number of variables that capture a latent and broader set of attitudes and beliefs held by respondents. A parallel analysis scree plot was used to identify the number of factors and an orthogonal (varimax) rotation was used to develop final factor loadings. Factor scores were estimated for each respondent using the Thurston method (a regression approach) in the R psych package and used in our regression modeling.

The final factors were given meaningful names using the questions with factor loadings greater than 0.4. The final categories for factors one through three were, in order, “Level of Altruism”, “Resistance to Change” and “Vehicle Dependence”. A correlation matrix was used to examine issues of multicollinearity between all numerical variables in the final data set, including these three attitudinal factors. All covariances were less than 0.30. Therefore, we determined there were no issues of multicollinearity.

TABLE 4 Factor Analysis

	Statement of Attitudes / Beliefs	F1	F2	F3
Q1_1	<i>Taxes are an irreplaceable form of funding for state and federal programs.</i>	0.40		
Q2_2	<i>Sometimes the government needs to pass laws to help protect vulnerable populations.</i>	0.51		
Q1_3	<i>I trust my state government.</i>	0.46		
Q1_4	<i>I would prefer less government involvement in my life.</i>		0.54	
Q1_5	<i>Funding for state programs is mismanaged.</i>		0.54	
Q1_6	<i>Environmental threats such as global warming and deforestation have been exaggerated.</i>		0.52	
Q1_7	<i>I frequently think about how my choices will impact my community.</i>	0.63		
Q1_8	<i>Vehicle emissions in my state have a large impact on air quality.</i>	0.60		
Q1_9	<i>I frequently think about whether my travel choices have an impact on the environment.</i>	0.69		
Q1_10	<i>Driving a car is good for society.</i>			0.66
Q1_11	<i>My lifestyle is dependent on having a car.</i>			0.73
Q1_12	<i>Owning a vehicle provides me with freedom.</i>			
Q1_13	<i>Technology does more harm than good.</i>		0.57	
Q1_14	<i>I'm tracked everywhere I go through my phone.</i>			
Q1_15	<i>Technology has made life too complicated.</i>		0.54	