Wireless Encryption Practices: Social Capital Factors and Diffusion of Innovation John F. Hooker Dr. Sorin A. Matei

Project goals

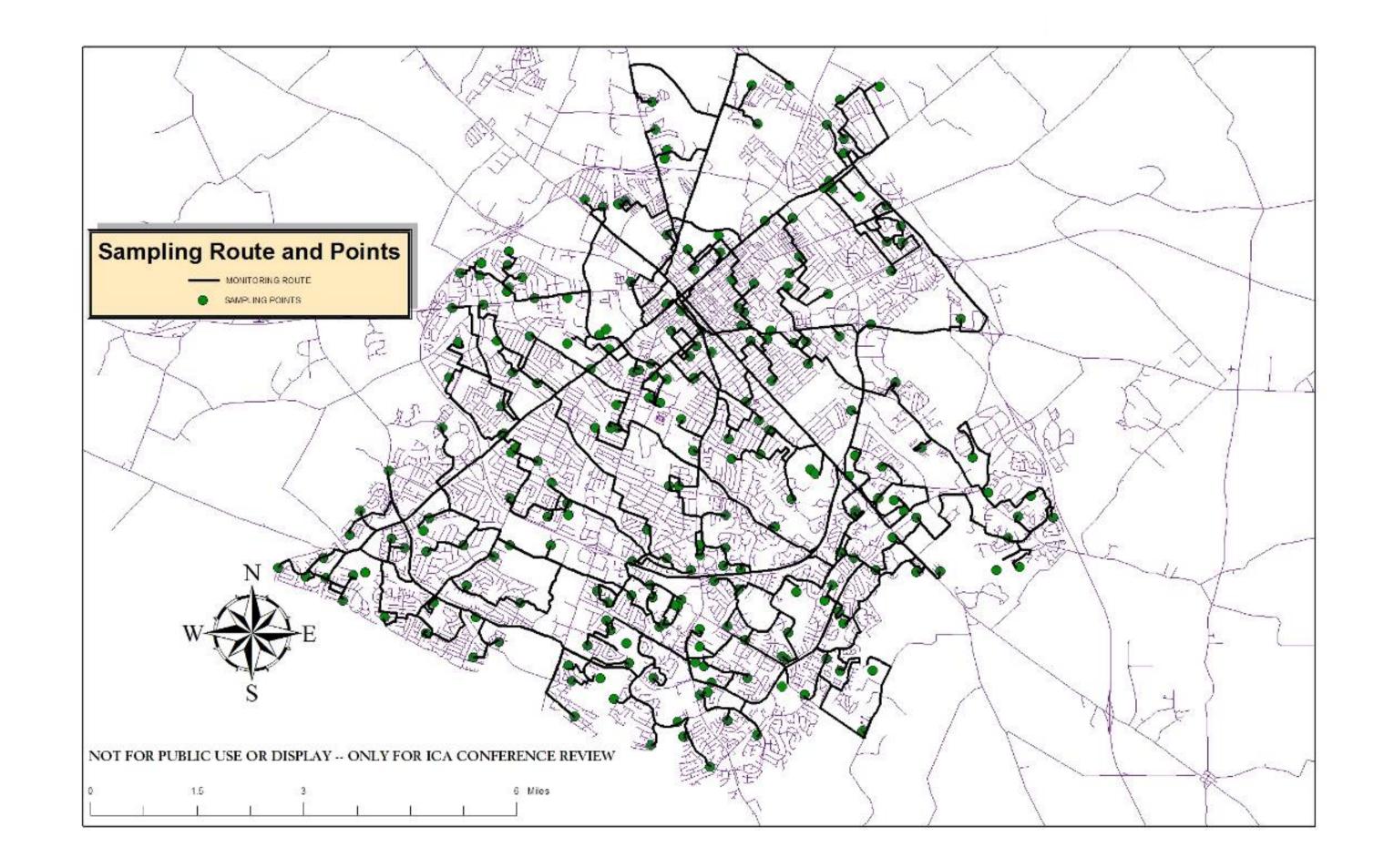
Findings

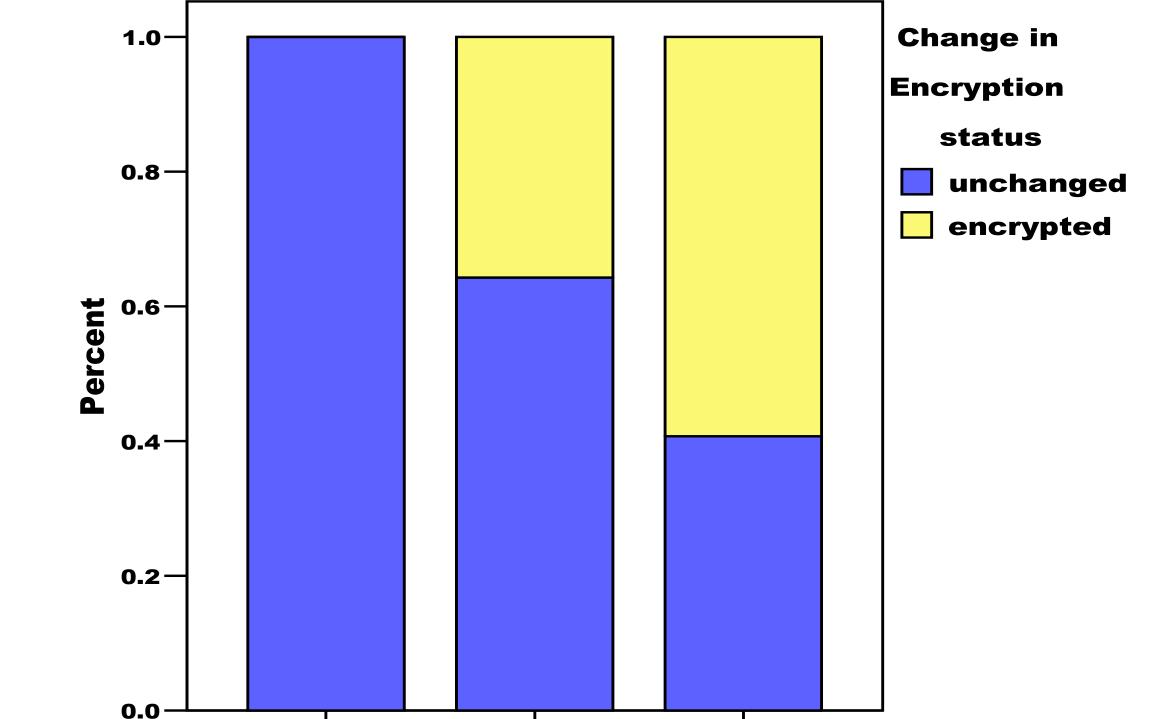
•To examine the relationship between level of social capital and use of encryption practices in residential wireless computer networks

•Compare influence of formal versus informal social capital

 Strong formal civic capital is an important predictor of adoption of encryption in residential wireless computer networks

 Individual (informal) social ties do not affect diffusion of encryption





Methodology

•Passive monitoring of wireless networks in Lexington, Kentucky (chosen for its similarity to many key general United States sociodemographic characteristics) in August 2003 and again in May of 2004 using GPS software and zoning maps to determine location and encryption status of residential access points

•Encryption data was aggregated into neighborhood-level variables in order to match our social capital data None One Two or more Average number of community organizations for typical respondent in neighborhood

Social capital

•A set of characteristics that determine personal and impersonal relationships with others

•Can be manifested in formal and informal ties that can work independently of one another in terms of influencing behaviors

•Measured through questioning residents to determine their level of neighborhood belonging (informal ties) and participation in community organizations (formal ties) and then aggregated to a neighborhood level

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