

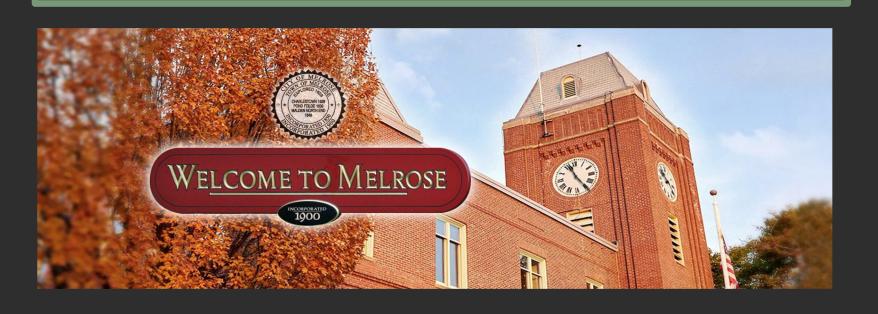
# **Understanding Technology Adoption Intentions in Local Government**

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#### Introduction

The City of Melrose is located north of Boston. The government itself is fairly small, numbering under 300 employees; this allowed for a tightknit working community. Unfortunately, the pandemic forced many to work from home and the Mayor seeks to re-establish that sense of community via a new technology, Microsoft Teams.

Our study investigates how attributes of the technology influence its adoption among government employees using the Diffusion of Innovation Theory and the Technology Acceptance Model. We used an online survey to measure these attributes and then analyzed the data using the Haye's mediation model #4.



#### Method



70 Employees who work for local city government in the Northeastern United States



A brief video showcasing the benefits of Microsoft Teams



Two Surveys

- Their perceptions of and intention to use Microsoft Teams Privacy concerns and the state of
- communication with the mayor

## **Theoretical Framework**

#### **Diffusion of Innovation (Dol)**

Communication theory designed to understand how an innovation spreads throughout a population.

### Variables of focus

- following adoption.
- learning to use the innovation.

#### Technology Acceptance Model (TAM)

An information systems theory that seeks to understand how users come to accept an innovation.

#### Variable of focus

performance.

#### Hypotheses

intention. intention.

Relative advantage: the perceived advantage that the user expects to gain

**Complexity**: the perceived difficulty of

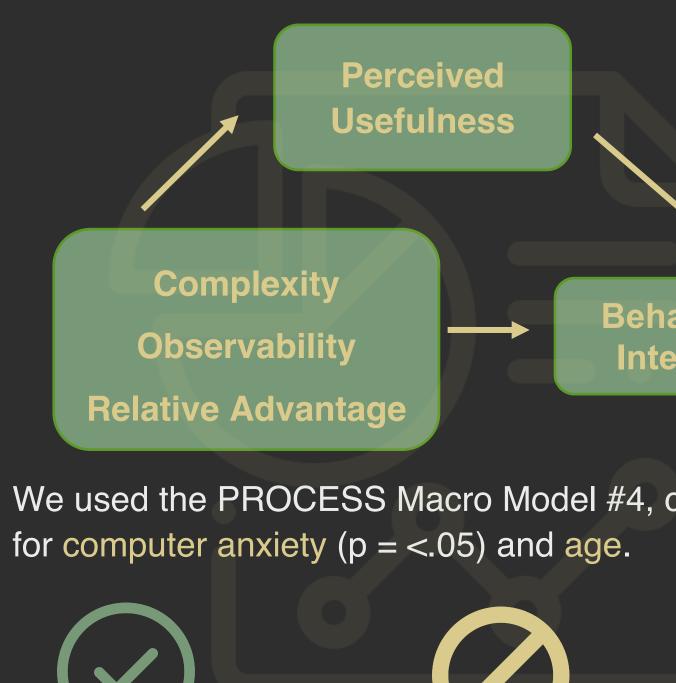
Observability: the extent to which the benefits of an innovation can be seen.

Perceived Usefulness (PU): the degree to which a user believes that using an innovation will improve their job

#### Results

#### Model and Final Analysis

Following pre-analysis, we believed PU to b mediating variable, dictating our use of a m model.



H1b (p = .001)

H3a (p = < .05)

H1a (p = .1227) H2 H2a (p = .1005) H

H1a: Relative advantage will have a significant positive effect on behavioral intention. H1b: Perceived usefulness will mediate the relationship between relative advantage and beha

H2a: Complexity will have a significant negative effect on behavioral intention.

H2b: Perceived usefulness will mediate the relationship between complexity and behavioral i H3a: Observability will have a significant positive effect on behavioral intention.

H3b: Perceived usefulness will positively mediate the relationship between observability and behavioral



	Recommendations
	Survey One
be a ediation	Focus on highlighting how Microsoft Teams will <b>enhance job performance</b> .
	Of participants felt that Microsoft50%Teams would enhance productivity.
	2 Focus on alleviating computer anxiety through training workshops.
avioral ention	Of participants felt that learning Microsoft Teams would require additional technical skills.
controlling	<b>3</b> Focus on <b>leveraging the social</b> <b>influence</b> of leadership within the organization.
	Of participants have seen what 44% others can achieve with Microsoft Teams.
2b (p = .47)	Survey Two
3b (p = .12)	We suggest <b>weekly e-mail updates</b> to employees, detailing any significant changes in the organization.
	Of participants prefer e-mail 40% communication.
vioral	2 We encourage the Mayor to prioritize camera-on communication during COVID, when scheduling 1:1 meetings.
ntention.	Of participants prefer in-person 30% communication to all other modes.

