



UUM
Universiti Utara Malaysia

Institute for Advanced and Smart Digital Opportunities (IASDO)
School of Computing
Universiti Utara Malaysia (UUM)



DSRG
DIGITAL SOCIETY RESEARCH GRANT

AN IMPACT STUDY OF MALAYSIAN ICT VOLUNTEERS (MIV) PROGRAMME

Mazni Omar, Huda Ibrahim, Azizah Ahmad, Mazida Ahmad,
Azman Yasin, & Hapini Awang

Research Symposium 2022:

“Towards an Inclusive Malaysia: Research Insights on the Implications of Digital Communications on Society”



Introduction

Malaysia ICT Volunteer (MIV) Programme

To empower Malaysians to become digital citizens besides supporting the 'Smart Digital Nation' initiative. MIV focus:

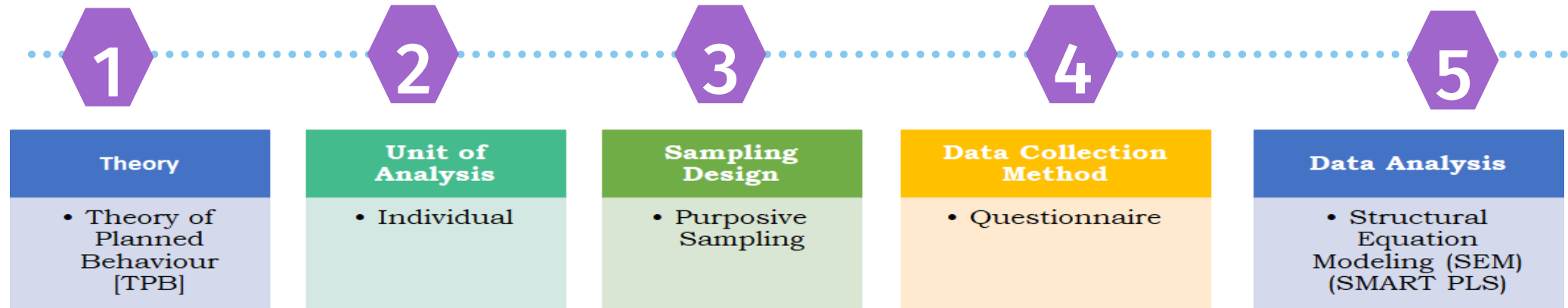
- MIV with community
- MIV with schools
- MIV with Institutions of Higher Education (IHE)
- MIV with International ICT Volunteer (IIV)

Aims

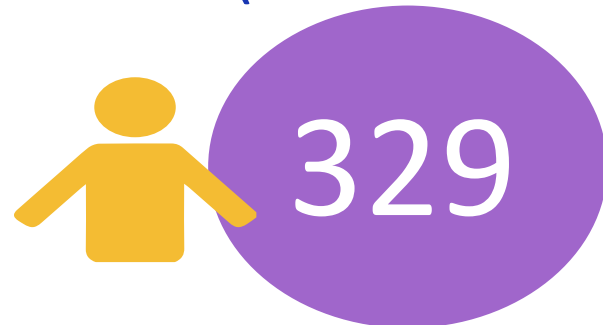
To measure, assess & evaluate the impact of MIV programme to understand the:

- Effectiveness of the MIV programme.
- Provide suggestions on effective ways to engage, ensure knowledge transfer and inculcation of positive elements to the community.

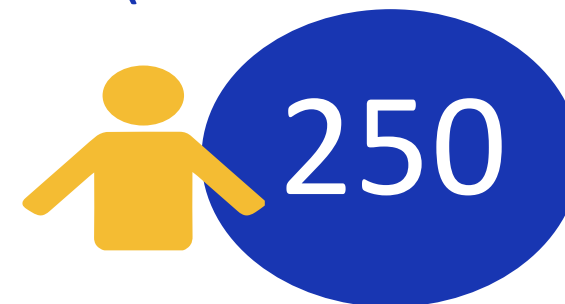
Research Design & Implementation



No. of Responses
(MIV Volunteers)

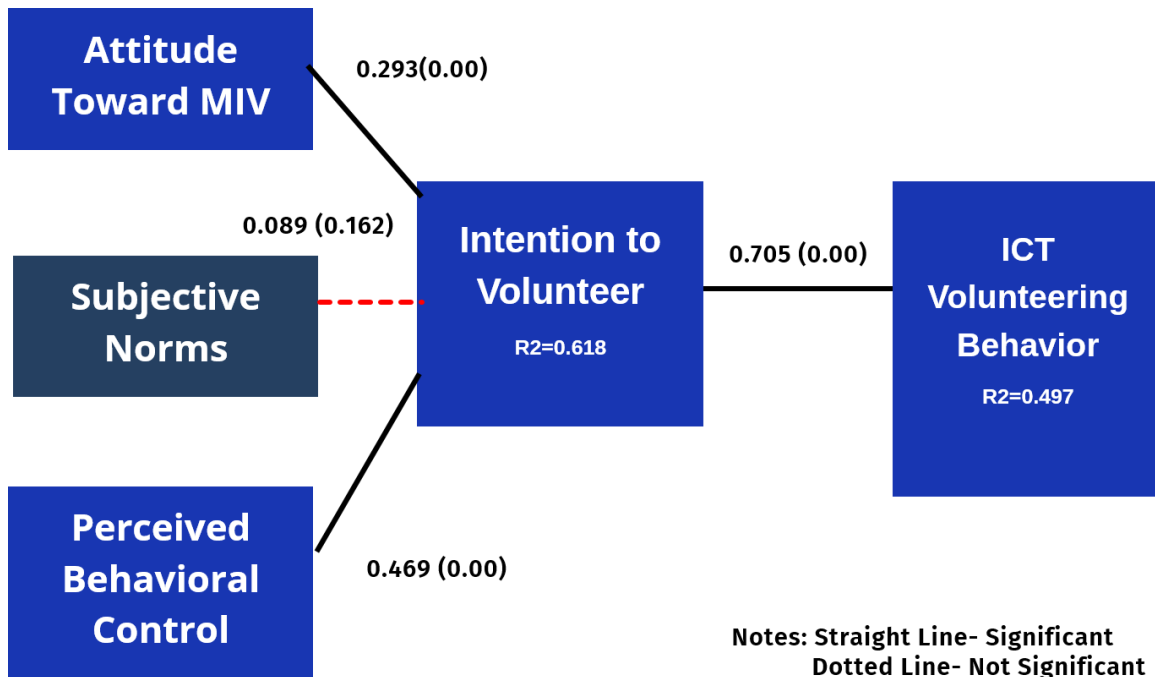


No. of Responses
(MIV Community)



Research Model

ICT Volunteering Behavioral Model [Volunteer]



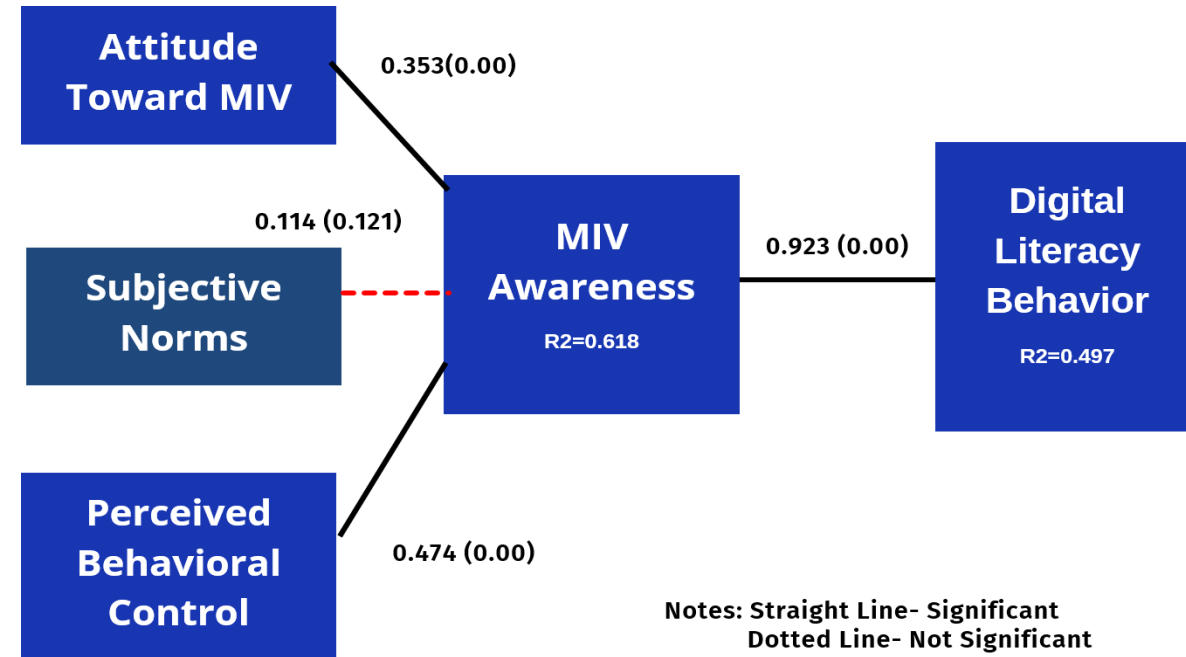
Research Hypotheses:

- H1: Attitude Towards MIV has an influence on Intention to Volunteer
- H2: Subjective Norms has an influence on Intention to Volunteer
- H3: Perceived Behavioral Control has an influence on Intention to Volunteer
- H4: Intention to Volunteer has an influence on ICT Volunteering Behavior



&

Digital Literacy Behavioral Model [Community]



Research Hypotheses:

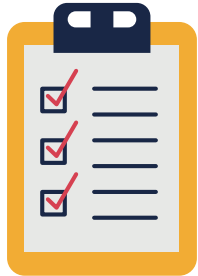
- H1: Attitude Towards MIV has an influence on MIV Awareness
- H2: Subjective Norms has an influence on MIV Awareness
- H3: Perceived Behavioral Control has an influence on MIV Awareness
- H4: MIV Awareness has an influence on Digital Literacy Behavior

Key Findings



The MIV programme has successfully giving an impact through changes the behavior:

- MIV Volunteer in promoting ICT volunteering behavior
- Community in enhancing digital literacy behavior



The key predictors of behavior changes:

- Perceived behavioral control
- Attitude



Social pressure/effect from **external factors** (family, friends) does not influence MIV volunteer & community behavior.

Recommendations



Strengthen Partnership & Utilizing Social Media Platform to Promote the MIV Programme

- Schools, higher education institutions, private/government agencies, NGOs
- Social media platform, hashtag project, online interactive quizzes, etc.
- Mobile-friendly Learning Management System (LMS) platform



Customization of Training Modules for Specific Needs

- Different age and aptitude levels, starting with children, teenagers, and elderly
- As the Malays in peninsular Malaysia exhibited slightly higher awareness compared to other races while the Bumiputeras in Sabah and Sarawak demonstrated higher digital literacy behaviours, these differences should be considered when designing specific modules, programmes and promotions.

Recommendations



Rewards and Recognition

- Non-monetary, appreciation day



The Use of Research Instrument as a Tool to Measure MIV Effectiveness

- In this study, two **questionnaires** were constructed to measure the effectiveness of the MIV programme from the MIV community and MIV volunteers' perspectives. If this strategy is adopted in future studies, the mean score on each construct (based on the 1–7 Likert scale) can be used, with;
 - 1–3 indicating low,
 - 3–5 moderate, and
 - 5–7 high effectiveness

Recommendations



Establishing MIV Modules Based on Participant Preferences and Demographic Analysis

- Using the **same research approach (survey)**, some **extra demographic information** and required MIV topics are suggested to be collected in the future research for further understanding of behaviours and characteristic of specific demographic groups.
- A more advanced analysis **like cross tabulation could be done with the availability of certain demographic data like states, racial status, as well as age groups**. In addition, the availability of the data related to the required **MIV topics** would be **useful to map the preferences with the available resources/expertise**.

Conclusion



A **continuous commitment** from MIV volunteers is essential to expand network and collaboration, **promoting ICT awareness** and **improving digital literacy** among citizens.



It is also important to **forge relationships** with relevant entities that can provide knowledge and resources for promoting the MIV programme to the **wider community**.



UUM
Universiti Utara Malaysia

Institute for Advanced and Smart Digital Opportunities (IASDO)
School of Computing
Universiti Utara Malaysia (UUM)



DSRG
DIGITAL SOCIETY RESEARCH GRANT

Thank You

Feel free to ask us if you have
any questions

mazni@uum.edu.my