

Evaluation of Satisfaction with Geospatial Assistive Technology (ESGAT 1.0)

Name: _____ Date: _____

Geospatial assistive technology tested (ex. app “X”): _____

Electronic device used: smartphone tablet tactile watch augmented reality glasses
 augmented reality headset other: _____

Electronic device’s brand: _____

Electronic device’s positioning accessory: tablet/smartphone adjustable support
 armband thigh band other: _____

Wheeled mobility device used (brand and type): _____

Principal diagnosis: _____

Age: _____

User experience with technology tested:

- None
- I already use this technology since _____ (number of years); frequency per month: _____
- I use another technology called _____ since _____ (number of years); frequency per month: _____

The purpose of this questionnaire is to evaluate your satisfaction following the trial of a navigation aid application. The questionnaire consists of 11 satisfaction items.

- For each item, we are asking you to rate your satisfaction level by using the following scale of 1 to 5

1	2	3	4	5
not satisfied at all	not very satisfied	more or less satisfied	quite satisfied	very satisfied

- Please **circle** the one number that best describes your level of satisfaction with each of the 11 items.
- Please, answer all questions.
- If you are not very satisfied or not satisfied at all by some items, write a comment in the space provided.

Thank you.

1	2	3	4	5
not satisfied at all	not very satisfied	more or less satisfied	quite satisfied	very satisfied

Informatics

How satisfied are you with:

1. The ease of access (cost, installation, registration process, creation of user profile, internet connection and network, maintenance, updates)? <i>Comments:</i>	1 2 3 4 5
2. The learnability (intuitive learning, intuitive use, similarity with other applications)? <i>Comments:</i>	1 2 3 4 5
3. The hands-free function (audibility, verbal commands, sound effects, vibratory mode, verbal instructions clarity, Bluetooth connections)? <i>Comments:</i>	1 2 3 4 5
4. The ease of use (manipulation, keypad, readability, visibility, audibility, screen layout, icons, customizability) <i>Comments:</i>	1 2 3 4 5
5. The transportability and the appearance (accessories for positioning the computer device, robustness, stability, grip, comfort, dimensions, color)? <i>Comments:</i>	1 2 3 4 5

1	2	3	4	5
not satisfied at all	not very satisfied	more or less satisfied	quite satisfied	very satisfied

Geomatics

How satisfied are you with:

6. The presentation of content (clarity, quality and quantity of information during planning and navigation, including street names, distances, etc.)? Comments:	1 2 3 4 5
7. The characteristics of the proposed geographic information (map, directions, route, indication of slopes, pavement/sidewalk quality, traffic, curb cut, etc.)? Comments:	1 2 3 4 5
8. The effectiveness for obtaining an itinerary and reaching the destination (many routes possibilities, route recalculations, adaptation to unexpected changes)? Comments:	1 2 3 4 5
9. The efficiency for reaching your destination in an optimal way (fast, without unnecessary detour, accessible and safe)? Comments:	1 2 3 4 5
10. The real-time navigation assistance provided (correction of route, warning of obstacles, location accuracy, orientation accuracy, required level of attention and memory)? Comments:	1 2 3 4 5
11. The aspect of security (occurrence of risky situations, respecting road safety code, clear directions)? Comments:	1 2 3 4 5

Below is the list of the same 11 satisfaction items. PLEASE SELECT THE THREE ITEMS that you consider to be the most important to you. Please put an X in the **three boxes** of your choice.

- | | |
|---|--|
| <input type="checkbox"/> 1. Ease of access | <input type="checkbox"/> 6. Content |
| <input type="checkbox"/> 2. Learnability | <input type="checkbox"/> 7. Geographic information |
| <input type="checkbox"/> 3. Hands-free function | <input type="checkbox"/> 8. Effectiveness |
| <input type="checkbox"/> 4. Ease of use | <input type="checkbox"/> 9. Efficiency |
| <input type="checkbox"/> 5. Transportability and Appearance | <input type="checkbox"/> 10. real-time navigation assistance |
| | <input type="checkbox"/> 11. Aspect of security |

What is your global appreciation of the geospatial assistive technology tested?

1 2 3 4 5

Comments: _____

ESGAT 1.0

(Scoring sheet)

This page is for scoring the answers to your questions. DO NOT WRITE ON THIS PAGE.

• Number of non-valid responses: _____

• **Informatics** subscale score: _____

add the ratings of the valid responses (items **1 to 5**) and divide this sum by the number of valid items.

• **Geomatics** subscale score: _____

add the ratings of the valid responses (items **6 to 11**) and divide this sum by the number of valid items.

• **Total** ESGAT-Navigation score: _____

For items 1 to 11, add the ratings of the valid responses and divide this sum by the number of valid items.

• The 3 most important satisfaction items:

• Global appreciation score (out of 5): _____