

Online Consent Form

We are asking you to participate in a research study titled **“Robotability: computing plausibility of robot deployment in the wild”**. This study is being led by [REDACTED]

[REDACTED] mputer Science Department at Cornell University. The Faculty Advisor for this study is [REDACTED]

What the study is about

This study aims to create and implement the robotability score, a measure of quality of robot navigation in the wild. This score will be conceptualized based on expert interviews and surveys, and make use of publicly available urban data, as well as in-the-wild robot deployment for verification. This study will contribute with computational methods for producing a new, formalized metric to evaluate feasibility of robot navigation in urban spaces.

What we will ask you to do

The experiment should take no longer than 25 minutes in total. You will be asked to provide your opinion on a set of indicators that may play a role into **wheeled robot navigation in urban spaces**. You will be asked to provide some information regarding your current professional occupation. All data associated with the survey will be anonymized.

Participation is voluntary and participants may withdraw at any time.

Risks and discomforts

There are no risks associated with your participation.

Benefits

There is no direct benefit to you from participating in this study. The data we collected in this study will be used to advance research in improving interactive experiences, and expanding knowledge of human behavior. This can potentially be beneficial to everyone in society.

Compensation for participation

We will not provide compensation for the participation.

Audio/Video Recording

There will be no audio or video recordings.

Privacy/Confidentiality/Data Security

- Data may exist on backups and server logs beyond the timeframe of this research project.
- Confidentiality will be kept to the degree permitted by the technology being used. We cannot guarantee against interception of data sent via the internet by third parties.
- We anticipate that your participation in this Qualtrics survey presents no greater risk than everyday use of the Internet.
- Please note that email communication is neither private nor secure. Though we are taking precautions to protect your privacy, you should be aware that information sent through e-mail could be read by a third party.
-

Follow up studies

We may contact you again to request your participation in a follow up study. As always, your participation will be voluntary, and we will ask for your explicit consent to participate in any of the follow up studies.

If you have questions

If you have questions on the project or participant data use, you may contact [REDACTED]

[REDACTED] If you have any questions or concerns regarding your rights as a subject in this study, you may contact the Institutional Review Board (IRB) for Human Participants at [REDACTED]

[REDACTED] You may also report your concerns or complaints anonymously through Ethicspoint online at [REDACTED]

Ethicspoint is an independent organization that serves as a liaison between the University and the person bringing the complaint so that anonymity can be ensured.

- ☐ I have read the above information, and have received answers to any questions I asked.
- ☐ I consent to take part in the study.

Prof_occupation

Thank you for agreeing to participate in our study!

We will first collect some information on your professional occupation.

Which option more closely describes your **current** position?

- ☐ Robotics in Academia
- ☐ Robotics in Industry
- ☐ Urban Planning
- ☐ Accessibility
- ☐ Other

How many years of experience do you have in the topic selected above?

Professional Occupation

e.g., "Assistant Professor in Robotics". You can keep answers anonymous (omit affiliation).

Default Question Block

We will now proceed with the task. Please read the instructions below.

We are developing the **Robotability Score**, a measure to assess how the built environment supports robot navigation (moving from point A to B in an **public urban space**).

In this survey, you will be shown pairs of indicators which might impact **wheeled robot navigation** in public spaces. For each pair, you should select which indicator is *more relevant for/plays a bigger role in* this type of navigation.

You might see the same indicator multiple times. Expected time for completion is **10 min**.

In the next page, you will be able to see a full list of the indicators to be ranked.

Below, you can see a full list of the indicators considered for the Robotability Score. These are factors from the environment that can inform the assessment of the quality of robot navigation in a public urban space.

Each indicator is paired with a sample set of weights to show how the Robotability Score might change under different indicator values.

Please familiarize yourself with the indicators and their meaning.

1. **Sidewalk width** (e.g., 0 = narrow, 1 = wide)
2. **Pedestrian density** (e.g., 0 = high density, 1 = low density)
3. **Density of street furniture** (e.g. garbage, poles) (e.g., 0 = high density, 1 = moderate density, 2 = low density, 3 = no furniture)
4. **Sidewalk / Surface roughness** (e.g., 0 = gravel, 1 = cobblestones, 2 = smooth asphalt)
5. **Surface condition** (e.g., 0 = potholes, 1 = major cracks, 2 =

minor cracks, 3 = smooth)

6. **Wireless communication infrastructure** (e.g. 5G, IoT, Wi-Fi) (e.g., 0 = no infrastructure, 1 = basic Wi-Fi, 2 = 5G, IoT)
7. **Slope gradient** (i.e. elevation change) (e.g., 0 = high slope, 1 = no slope)
8. **Presence of charging stations** (0 = no charging stations nearby, 1 = multiple charging stations in proximity)
9. **Local attitudes towards robots** (e.g., 0 = highly negative, 1 = somewhat negative, 2 = neutral, 3 = somewhat positive, 4 = highly positive)
10. **Curb ramp availability** (e.g., 0 = no curb ramps, 1 = curb ramps at some intersections, 2 = curb ramps at most intersections, 3 = curb ramps with tactile paving)
11. **Weather conditions** (e.g., 0 = ice, 1 = snow, 2 = puddles, 3 = leaves, 4 = clear)
12. **Crowd dynamics** - purpose with which people navigate in the space (e.g., 0 = emergency, 1 = commuting, 2 = shopping, 3 = leisure)
13. **Traffic management** (e.g., 0 = no system, 1 = basic signage, 2 = street lights, 3 = advanced traffic control)
14. **Surveillance coverage** (CCTV) (e.g., 0 = no coverage, 1 = low coverage, 2 = moderate coverage, 3 = high coverage)
15. **Zoning laws and regulation** (e.g. speed limits) (e.g., 0 = no regulations, 1 = moderate stringency, 2 = high stringency)
16. **Bike lane availability** (e.g., 0 = no bike lanes, 1 = bike lanes on most roads, 2 = separated bike lanes on all roads)
17. **Street lighting** (0 = no lighting, 1 = excellent lighting)
18. **Existence of shade** (e.g., trees) (e.g., 0 = no shade, 1 = extensive shade)
19. **GPS signal strength** (e.g., 0 = no signal, 1 = very strong signal)
20. **Pedestrian flow** (e.g., 0 = very high flow, 1 = very low flow)
21. **Bicycle traffic** (e.g., 0 = very high traffic, 1 = very low traffic)
22. **Vehicle traffic** (e.g., 0 = very high traffic, 1 = very low traffic)
23. **Existence of detailed digital maps of the area** (e.g., 0 = no digital maps, 1 = highly detailed maps)
24. **Intersection safety** (e.g., 0 = no infrastructure, 1 = basic crosswalks, 2 = zebra crossings with signals, 3 = advanced intersection management)

1

Which indicator is more important for wheeled robot navigation in public spaces?

We have added keystrokes for convenience. Press '1' to select the left choice, '2' to select the right choice, and 'Enter' to go to the next question.

You can consult the full list of indicators [here](#).

Pedestrian density



Sidewalk width



2

Which indicator is more important for wheeled robot navigation in public spaces?

We have added keystrokes for convenience. Press '1' to select the left choice, '2' to select the right choice, and 'Enter' to go to the next question.

You can consult the full list of indicators [here](#).

Density of street furniture (e.g. garbage, poles)



Sidewalk width



3

Which indicator is more important for wheeled robot navigation in public spaces?

We have added keystrokes for convenience. Press '1' to select the left choice, '2' to select the right choice, and 'Enter' to go to the next question.

You can consult the full list of indicators [here](#).

Sidewalk width

Sidewalk / Surface roughness

303

Which indicator is more important for wheeled robot navigation in public spaces?

We have added keystrokes for convenience. Press '1' to select the left choice, '2' to select the right choice, and 'Enter' to go to the next question.

You can consult the full list of indicators [here](#).

Bicycle traffic

Bike lane availability

304

Which indicator is more important for wheeled robot navigation in public spaces?

We have added keystrokes for convenience. Press '1' to select the left choice, '2' to select the right choice, and 'Enter' to go to the next question.

You can consult the full list of indicators [here](#).

Vehicle traffic

Bike lane availability

305

Which indicator is more important for wheeled robot navigation in public spaces?

We have added keystrokes for convenience. Press '1' to select the left choice, '2' to select the right choice, and 'Enter' to go to the next question.

You can consult the full list of indicators [here](#).

Existence of detailed digital maps of the
area



Bike lane availability



306

Which indicator is more important for wheeled robot navigation in public spaces?

We have added keystrokes for convenience. Press '1' to select the left choice, '2' to select the right choice, and 'Enter' to go to the next question.

You can consult the full list of indicators [here](#).

Intersection safety



Bike lane availability



307

Which indicator is more important for wheeled robot navigation in public spaces?

We have added keystrokes for convenience. Press '1' to select the left choice, '2' to select the right choice, and 'Enter' to go to the next question.

You can consult the full list of indicators [here](#).

Existence of shade (e.g., trees)



Street lighting



309

Which indicator is more important for wheeled robot navigation in public spaces?

We have added keystrokes for convenience. Press '1' to select the left choice, '2' to select the right choice, and 'Enter' to go to the next question.

You can consult the full list of indicators [here](#).

GPS signal strength

Street lighting

310

Which indicator is more important for wheeled robot navigation in public spaces?

We have added keystrokes for convenience. Press '1' to select the left choice, '2' to select the right choice, and 'Enter' to go to the next question.

You can consult the full list of indicators [here](#).

Street lighting

Pedestrian flow

312

Which indicator is more important for wheeled robot navigation in public spaces?

We have added keystrokes for convenience. Press '1' to select the left choice, '2' to select the right choice, and 'Enter' to go to the next question.

You can consult the full list of indicators [here](#).

Bicycle traffic

Street lighting

313

Which indicator is more important for wheeled robot navigation in public spaces?

We have added keystrokes for convenience. Press '1' to select the left choice, '2' to select the right choice, and 'Enter' to go to the next question.

You can consult the full list of indicators [here](#).

Street lighting



Vehicle traffic



314

Which indicator is more important for wheeled robot navigation in public spaces?

We have added keystrokes for convenience. Press '1' to select the left choice, '2' to select the right choice, and 'Enter' to go to the next question.

You can consult the full list of indicators [here](#).

Street lighting



Existence of detailed digital maps of the area



315

Which indicator is more important for wheeled robot navigation in public spaces?

We have added keystrokes for convenience. Press '1' to select the left choice, '2' to select the right choice, and 'Enter' to go to the next question.

You can consult the full list of indicators [here](#).

Intersection safety



Street lighting



317

Which indicator is more important for wheeled robot navigation in public spaces?

We have added keystrokes for convenience. Press '1' to select the left choice, '2' to select the right choice, and 'Enter' to go to the next question.

You can consult the full list of indicators [here](#).

Existence of shade (e.g., trees)

GPS signal strength

318

Which indicator is more important for wheeled robot navigation in public spaces?

We have added keystrokes for convenience. Press '1' to select the left choice, '2' to select the right choice, and 'Enter' to go to the next question.

You can consult the full list of indicators [here](#).

Pedestrian flow

Existence of shade (e.g., trees)

320

Which indicator is more important for wheeled robot navigation in public spaces?

We have added keystrokes for convenience. Press '1' to select the left choice, '2' to select the right choice, and 'Enter' to go to the next question.

You can consult the full list of indicators [here](#).

Bicycle traffic

Existence of shade (e.g., trees)

321

Which indicator is more important for wheeled robot navigation in public spaces?

We have added keystrokes for convenience. Press '1' to select the left choice, '2' to select the right choice, and 'Enter' to go to the next question.

You can consult the full list of indicators [here](#).

Existence of shade (e.g., trees)

Vehicle traffic

322

Which indicator is more important for wheeled robot navigation in public spaces?

We have added keystrokes for convenience. Press '1' to select the left choice, '2' to select the right choice, and 'Enter' to go to the next question.

You can consult the full list of indicators [here](#).

Existence of detailed digital maps of the area

Existence of shade (e.g., trees)

323

Which indicator is more important for wheeled robot navigation in public spaces?

We have added keystrokes for convenience. Press '1' to select the left choice, '2' to select the right choice, and 'Enter' to go to the next question.

You can consult the full list of indicators [here](#).

Intersection safety

Existence of shade (e.g., trees)

331

Which indicator is more important for wheeled robot navigation in public spaces?

We have added keystrokes for convenience. Press '1' to select the left choice, '2' to select the right choice, and 'Enter' to go to the next question.

You can consult the full list of indicators [here](#).

Pedestrian flow

GPS signal strength

333

Which indicator is more important for wheeled robot navigation in public spaces?

We have added keystrokes for convenience. Press '1' to select the left choice, '2' to select the right choice, and 'Enter' to go to the next question.

You can consult the full list of indicators [here](#).

GPS signal strength

Bicycle traffic

334

Which indicator is more important for wheeled robot navigation in public spaces?

We have added keystrokes for convenience. Press '1' to select the left choice, '2' to select the right choice, and 'Enter' to go to the next question.

You can consult the full list of indicators [here](#).

GPS signal strength

Vehicle traffic

335

Which indicator is more important for wheeled robot navigation in public spaces?

We have added keystrokes for convenience. Press '1' to select the left choice, '2' to select the right choice, and 'Enter' to go to the next question.

You can consult the full list of indicators [here](#).

GPS signal strength



Existence of detailed digital maps of the area



336

Which indicator is more important for wheeled robot navigation in public spaces?

We have added keystrokes for convenience. Press '1' to select the left choice, '2' to select the right choice, and 'Enter' to go to the next question.

You can consult the full list of indicators [here](#).

GPS signal strength



Intersection safety



338

Which indicator is more important for wheeled robot navigation in public spaces?

We have added keystrokes for convenience. Press '1' to select the left choice, '2' to select the right choice, and 'Enter' to go to the next question.

You can consult the full list of indicators [here](#).

Pedestrian flow



Bicycle traffic



339

Which indicator is more important for wheeled robot navigation in public spaces?

We have added keystrokes for convenience. Press '1' to select the left choice, '2' to select the right choice, and 'Enter' to go to the next question.

You can consult the full list of indicators [here](#).

Pedestrian flow

☐

Vehicle traffic

☐

340

Which indicator is more important for wheeled robot navigation in public spaces?

We have added keystrokes for convenience. Press '1' to select the left choice, '2' to select the right choice, and 'Enter' to go to the next question.

You can consult the full list of indicators [here](#).

Existence of detailed digital maps of the
area

☐

Pedestrian flow

☐

341

Which indicator is more important for wheeled robot navigation in public spaces?

We have added keystrokes for convenience. Press '1' to select the left choice, '2' to select the right choice, and 'Enter' to go to the next question.

You can consult the full list of indicators [here](#).

Intersection safety

☐

Pedestrian flow

☐

346

Which indicator is more important for wheeled robot navigation in public spaces?

We have added keystrokes for convenience. Press '1' to select the left choice, '2' to select the right choice, and 'Enter' to go to the next question.

You can consult the full list of indicators [here](#).

Vehicle traffic

☐

Bicycle traffic

☐

347

Which indicator is more important for wheeled robot navigation in public spaces?

We have added keystrokes for convenience. Press '1' to select the left choice, '2' to select the right choice, and 'Enter' to go to the next question.

You can consult the full list of indicators [here](#).

Bicycle traffic

☐

Existence of detailed digital maps of the area

☐

348

Which indicator is more important for wheeled robot navigation in public spaces?

We have added keystrokes for convenience. Press '1' to select the left choice, '2' to select the right choice, and 'Enter' to go to the next question.

You can consult the full list of indicators [here](#).

Intersection safety

☐

Bicycle traffic

☐

349

Which indicator is more important for wheeled robot navigation in public spaces?

We have added keystrokes for convenience. Press '1' to select the left choice, '2' to select the right choice, and 'Enter' to go to the next question.

You can consult the full list of indicators [here](#).

Existence of detailed digital maps of the
area



Vehicle traffic



350

Which indicator is more important for wheeled robot navigation in public spaces?

We have added keystrokes for convenience. Press '1' to select the left choice, '2' to select the right choice, and 'Enter' to go to the next question.

You can consult the full list of indicators [here](#).

Vehicle traffic



Intersection safety



351

Which indicator is more important for wheeled robot navigation in public spaces?

We have added keystrokes for convenience. Press '1' to select the left choice, '2' to select the right choice, and 'Enter' to go to the next question.

You can consult the full list of indicators [here](#).

Intersection safety



Existence of detailed digital maps of the
area



Which indicator is more important for wheeled robot navigation in public spaces?

We have added keystrokes for convenience. Press '1' to select the left choice, '2' to select the right choice, and 'Enter' to go to the next question.

You can consult the full list of indicators [here](#).

Sidewalk width



Surface condition



5

Which indicator is more important for wheeled robot navigation in public spaces?

We have added keystrokes for convenience. Press '1' to select the left choice, '2' to select the right choice, and 'Enter' to go to the next question.

You can consult the full list of indicators [here](#).

Wireless communication infrastructure
(e.g. 5G, IoT, Wi-Fi)



Sidewalk width



6

Which indicator is more important for wheeled robot navigation in public spaces?

We have added keystrokes for convenience. Press '1' to select the left choice, '2' to select the right choice, and 'Enter' to go to the next question.

You can consult the full list of indicators [here](#).

Sidewalk width



Slope gradient (i.e. elevation change)



7

Which indicator is more important for wheeled robot navigation in public spaces?

We have added keystrokes for convenience. Press '1' to select the left choice, '2' to select the right choice, and 'Enter' to go to the next question.

You can consult the full list of indicators [here](#).

Sidewalk width

Proximity to charging stations

8

Which indicator is more important for wheeled robot navigation in public spaces?

We have added keystrokes for convenience. Press '1' to select the left choice, '2' to select the right choice, and 'Enter' to go to the next question.

You can consult the full list of indicators [here](#).

Local attitudes towards robots

Sidewalk width

9

Which indicator is more important for wheeled robot navigation in public spaces?

We have added keystrokes for convenience. Press '1' to select the left choice, '2' to select the right choice, and 'Enter' to go to the next question.

You can consult the full list of indicators [here](#).

Sidewalk width

Curb ramp availability

11

Which indicator is more important for wheeled robot navigation in public spaces?

We have added keystrokes for convenience. Press '1' to select the left choice, '2' to select the right choice, and 'Enter' to go to the next question.

You can consult the full list of indicators [here](#).

Sidewalk width

Weather conditions

12

Which indicator is more important for wheeled robot navigation in public spaces?

We have added keystrokes for convenience. Press '1' to select the left choice, '2' to select the right choice, and 'Enter' to go to the next question.

You can consult the full list of indicators [here](#).

Sidewalk width

Crowd dynamics – purpose with which people navigate in the space

13

Which indicator is more important for wheeled robot navigation in public spaces?

We have added keystrokes for convenience. Press '1' to select the left choice, '2' to select the right choice, and 'Enter' to go to the next question.

You can consult the full list of indicators [here](#).

Traffic management systems

Sidewalk width

14

Which indicator is more important for wheeled robot navigation in public spaces?

We have added keystrokes for convenience. Press '1' to select the left choice, '2' to select the right choice, and 'Enter' to go to the next question.

You can consult the full list of indicators [here](#).

Sidewalk width

Surveillance coverage (CCTV)

15

Which indicator is more important for wheeled robot navigation in public spaces?

We have added keystrokes for convenience. Press '1' to select the left choice, '2' to select the right choice, and 'Enter' to go to the next question.

You can consult the full list of indicators [here](#).

Zoning laws and regulation

Sidewalk width

16

Which indicator is more important for wheeled robot navigation in public spaces?

We have added keystrokes for convenience. Press '1' to select the left choice, '2' to select the right choice, and 'Enter' to go to the next question.

You can consult the full list of indicators [here](#).

Sidewalk width

Bike lane availability

17

Which indicator is more important for wheeled robot navigation in public spaces?

We have added keystrokes for convenience. Press '1' to select the left choice, '2' to select the right choice, and 'Enter' to go to the next question.

You can consult the full list of indicators [here](#).

Sidewalk width

Street lighting

18

Which indicator is more important for wheeled robot navigation in public spaces?

We have added keystrokes for convenience. Press '1' to select the left choice, '2' to select the right choice, and 'Enter' to go to the next question.

You can consult the full list of indicators [here](#).

Existence of shade (e.g., trees)

Sidewalk width

20

Which indicator is more important for wheeled robot navigation in public spaces?

We have added keystrokes for convenience. Press '1' to select the left choice, '2' to select the right choice, and 'Enter' to go to the next question.

You can consult the full list of indicators [here](#).

Sidewalk width

GPS signal strength

21

Which indicator is more important for wheeled robot navigation in public spaces?

We have added keystrokes for convenience. Press '1' to select the left choice, '2' to select the right choice, and 'Enter' to go to the next question.

You can consult the full list of indicators [here](#).

Sidewalk width

Pedestrian flow

23

Which indicator is more important for wheeled robot navigation in public spaces?

We have added keystrokes for convenience. Press '1' to select the left choice, '2' to select the right choice, and 'Enter' to go to the next question.

You can consult the full list of indicators [here](#).

Sidewalk width

Bicycle traffic

24

Which indicator is more important for wheeled robot navigation in public spaces?

We have added keystrokes for convenience. Press '1' to select the left choice, '2' to select the right choice, and 'Enter' to go to the next question.

You can consult the full list of indicators [here](#).

Vehicle traffic

Sidewalk width

25

Which indicator is more important for wheeled robot navigation in public spaces?

We have added keystrokes for convenience. Press '1' to select the left choice, '2' to select the right choice, and 'Enter' to go to the next question.

You can consult the full list of indicators [here](#).

Sidewalk width



Existence of detailed digital maps of the area



26

Which indicator is more important for wheeled robot navigation in public spaces?

We have added keystrokes for convenience. Press '1' to select the left choice, '2' to select the right choice, and 'Enter' to go to the next question.

You can consult the full list of indicators [here](#).

Sidewalk width



Intersection safety



27

Which indicator is more important for wheeled robot navigation in public spaces?

We have added keystrokes for convenience. Press '1' to select the left choice, '2' to select the right choice, and 'Enter' to go to the next question.

You can consult the full list of indicators [here](#).

Density of street furniture (e.g. garbage, poles)



Pedestrian density



28

Which indicator is more important for wheeled robot navigation in public spaces?

We have added keystrokes for convenience. Press '1' to select the left choice, '2' to select the right choice, and 'Enter' to go to the next question.

You can consult the full list of indicators [here](#).

☒ Pedestrian density

☐ Sidewalk / Surface roughness

29

Which indicator is more important for wheeled robot navigation in public spaces?

We have added keystrokes for convenience. Press '1' to select the left choice, '2' to select the right choice, and 'Enter' to go to the next question.

You can consult the full list of indicators [here](#).

☒ Pedestrian density

☐ Surface condition

30

Which indicator is more important for wheeled robot navigation in public spaces?

We have added keystrokes for convenience. Press '1' to select the left choice, '2' to select the right choice, and 'Enter' to go to the next question.

You can consult the full list of indicators [here](#).

☐ Pedestrian density

☒ Wireless communication infrastructure
(e.g. 5G, IoT, Wi-Fi)

31

Which indicator is more important for wheeled robot navigation in public spaces?

We have added keystrokes for convenience. Press '1' to select the left choice, '2' to select the right choice, and 'Enter' to go to the next question.

You can consult the full list of indicators [here](#).

Pedestrian density

Slope gradient (i.e. elevation change)

32

Which indicator is more important for wheeled robot navigation in public spaces?

We have added keystrokes for convenience. Press '1' to select the left choice, '2' to select the right choice, and 'Enter' to go to the next question.

You can consult the full list of indicators [here](#).

Proximity to charging stations

Pedestrian density

33

Which indicator is more important for wheeled robot navigation in public spaces?

We have added keystrokes for convenience. Press '1' to select the left choice, '2' to select the right choice, and 'Enter' to go to the next question.

You can consult the full list of indicators [here](#).

Local attitudes towards robots

Pedestrian density

34

Which indicator is more important for wheeled robot navigation in public spaces?

We have added keystrokes for convenience. Press '1' to select the left choice, '2' to select the right choice, and 'Enter' to go to the next question.

You can consult the full list of indicators [here](#).

☐ Curb ramp availability

☐ Pedestrian density

36

Which indicator is more important for wheeled robot navigation in public spaces?

We have added keystrokes for convenience. Press '1' to select the left choice, '2' to select the right choice, and 'Enter' to go to the next question.

You can consult the full list of indicators [here](#).

☐ Pedestrian density

☐ Weather conditions

37

Which indicator is more important for wheeled robot navigation in public spaces?

We have added keystrokes for convenience. Press '1' to select the left choice, '2' to select the right choice, and 'Enter' to go to the next question.

You can consult the full list of indicators [here](#).

☐ Pedestrian density

☐ Crowd dynamics - purpose with which people navigate in the space

38

Which indicator is more important for wheeled robot navigation in public spaces?

We have added keystrokes for convenience. Press '1' to select the left choice, '2' to select the right choice, and 'Enter' to go to the next question.

You can consult the full list of indicators [here](#).

Pedestrian density

Traffic management systems

39

Which indicator is more important for wheeled robot navigation in public spaces?

We have added keystrokes for convenience. Press '1' to select the left choice, '2' to select the right choice, and 'Enter' to go to the next question.

You can consult the full list of indicators [here](#).

Pedestrian density

Surveillance coverage (CCTV)

40

Which indicator is more important for wheeled robot navigation in public spaces?

We have added keystrokes for convenience. Press '1' to select the left choice, '2' to select the right choice, and 'Enter' to go to the next question.

You can consult the full list of indicators [here](#).

Zoning laws and regulation

Pedestrian density

41

Which indicator is more important for wheeled robot navigation in public spaces?

We have added keystrokes for convenience. Press '1' to select the left choice, '2' to select the right choice, and 'Enter' to go to the next question.

You can consult the full list of indicators [here](#).

Bike lane availability

Pedestrian density

42

Which indicator is more important for wheeled robot navigation in public spaces?

We have added keystrokes for convenience. Press '1' to select the left choice, '2' to select the right choice, and 'Enter' to go to the next question.

You can consult the full list of indicators [here](#).

Pedestrian density

Street lighting

43

Which indicator is more important for wheeled robot navigation in public spaces?

We have added keystrokes for convenience. Press '1' to select the left choice, '2' to select the right choice, and 'Enter' to go to the next question.

You can consult the full list of indicators [here](#).

Existence of shade (e.g., trees)

Pedestrian density

45

Which indicator is more important for wheeled robot navigation in public spaces?

We have added keystrokes for convenience. Press '1' to select the left choice, '2' to select the right choice, and 'Enter' to go to the next question.

You can consult the full list of indicators [here](#).

GPS signal strength

Pedestrian density

46

Which indicator is more important for wheeled robot navigation in public spaces?

We have added keystrokes for convenience. Press '1' to select the left choice, '2' to select the right choice, and 'Enter' to go to the next question.

You can consult the full list of indicators [here](#).

Pedestrian flow

Pedestrian density

48

Which indicator is more important for wheeled robot navigation in public spaces?

We have added keystrokes for convenience. Press '1' to select the left choice, '2' to select the right choice, and 'Enter' to go to the next question.

You can consult the full list of indicators [here](#).

Pedestrian density

Bicycle traffic

49

Which indicator is more important for wheeled robot navigation in public spaces?

We have added keystrokes for convenience. Press '1' to select the left choice, '2' to select the right choice, and 'Enter' to go to the next question.

You can consult the full list of indicators [here](#).

Pedestrian density

☐

Vehicle traffic

☐

50

Which indicator is more important for wheeled robot navigation in public spaces?

We have added keystrokes for convenience. Press '1' to select the left choice, '2' to select the right choice, and 'Enter' to go to the next question.

You can consult the full list of indicators [here](#).

Pedestrian density

☐

Existence of detailed digital maps of the area

☐

51

Which indicator is more important for wheeled robot navigation in public spaces?

We have added keystrokes for convenience. Press '1' to select the left choice, '2' to select the right choice, and 'Enter' to go to the next question.

You can consult the full list of indicators [here](#).

Intersection safety

☐

Pedestrian density

☐

52

Which indicator is more important for wheeled robot navigation in public spaces?

We have added keystrokes for convenience. Press '1' to select the left choice, '2' to select the right choice, and 'Enter' to go to the next question.

You can consult the full list of indicators [here](#).

Sidewalk / Surface roughness



Density of street furniture (e.g. garbage, poles)



53

Which indicator is more important for wheeled robot navigation in public spaces?

We have added keystrokes for convenience. Press '1' to select the left choice, '2' to select the right choice, and 'Enter' to go to the next question.

You can consult the full list of indicators [here](#).

Density of street furniture (e.g. garbage, poles)



Surface condition



54

Which indicator is more important for wheeled robot navigation in public spaces?

We have added keystrokes for convenience. Press '1' to select the left choice, '2' to select the right choice, and 'Enter' to go to the next question.

You can consult the full list of indicators [here](#).

Density of street furniture (e.g. garbage, poles)



Wireless communication infrastructure (e.g. 5G, IoT, Wi-Fi)



55

Which indicator is more important for wheeled robot navigation in public spaces?

We have added keystrokes for convenience. Press '1' to select the left choice, '2' to select the right choice, and 'Enter' to go to the next question.

You can consult the full list of indicators [here](#).

Density of street furniture (e.g. garbage, poles)

☒

Slope gradient (i.e. elevation change)

☐

56

Which indicator is more important for wheeled robot navigation in public spaces?

We have added keystrokes for convenience. Press '1' to select the left choice, '2' to select the right choice, and 'Enter' to go to the next question.

You can consult the full list of indicators [here](#).

Density of street furniture (e.g. garbage, poles)

☒

Proximity to charging stations

☐

57

Which indicator is more important for wheeled robot navigation in public spaces?

We have added keystrokes for convenience. Press '1' to select the left choice, '2' to select the right choice, and 'Enter' to go to the next question.

You can consult the full list of indicators [here](#).

Local attitudes towards robots



Density of street furniture (e.g. garbage, poles)



58

Which indicator is more important for wheeled robot navigation in public spaces?

We have added keystrokes for convenience. Press '1' to select the left choice, '2' to select the right choice, and 'Enter' to go to the next question.

You can consult the full list of indicators [here](#).

Density of street furniture (e.g. garbage, poles)



Curb ramp availability



60

Which indicator is more important for wheeled robot navigation in public spaces?

We have added keystrokes for convenience. Press '1' to select the left choice, '2' to select the right choice, and 'Enter' to go to the next question.

You can consult the full list of indicators [here](#).

Density of street furniture (e.g. garbage, poles)



Weather conditions



61

Which indicator is more important for wheeled robot navigation in public spaces?

We have added keystrokes for convenience. Press '1' to select the left choice, '2' to select the right choice, and 'Enter' to go to the next question.

You can consult the full list of indicators [here](#).

Crowd dynamics – purpose with which
people navigate in the space

Density of street furniture (e.g. garbage,
poles)

62

Which indicator is more important for wheeled robot navigation in public spaces?

We have added keystrokes for convenience. Press '1' to select the left choice, '2' to select the right choice, and 'Enter' to go to the next question.

You can consult the full list of indicators [here](#).

Density of street furniture (e.g. garbage,
poles)

Traffic management systems

63

Which indicator is more important for wheeled robot navigation in public spaces?

We have added keystrokes for convenience. Press '1' to select the left choice, '2' to select the right choice, and 'Enter' to go to the next question.

You can consult the full list of indicators [here](#).

Surveillance coverage (CCTV)



Density of street furniture (e.g. garbage, poles)



64

Which indicator is more important for wheeled robot navigation in public spaces?

We have added keystrokes for convenience. Press '1' to select the left choice, '2' to select the right choice, and 'Enter' to go to the next question.

You can consult the full list of indicators [here](#).

Zoning laws and regulation



Density of street furniture (e.g. garbage, poles)



65

Which indicator is more important for wheeled robot navigation in public spaces?

We have added keystrokes for convenience. Press '1' to select the left choice, '2' to select the right choice, and 'Enter' to go to the next question.

You can consult the full list of indicators [here](#).

Bike lane availability



Density of street furniture (e.g. garbage, poles)



66

Which indicator is more important for wheeled robot navigation in public spaces?

We have added keystrokes for convenience. Press '1' to select the left choice, '2' to select the right choice, and 'Enter' to go to the next question.

You can consult the full list of indicators [here](#).

Density of street furniture (e.g. garbage, poles)

☒

Street lighting

☐

67

Which indicator is more important for wheeled robot navigation in public spaces?

We have added keystrokes for convenience. Press '1' to select the left choice, '2' to select the right choice, and 'Enter' to go to the next question.

You can consult the full list of indicators [here](#).

Density of street furniture (e.g. garbage, poles)

☒

Existence of shade (e.g., trees)

☐

69

Which indicator is more important for wheeled robot navigation in public spaces?

We have added keystrokes for convenience. Press '1' to select the left choice, '2' to select the right choice, and 'Enter' to go to the next question.

You can consult the full list of indicators [here](#).

GPS signal strength



Density of street furniture (e.g. garbage, poles)



70

Which indicator is more important for wheeled robot navigation in public spaces?

We have added keystrokes for convenience. Press '1' to select the left choice, '2' to select the right choice, and 'Enter' to go to the next question.

You can consult the full list of indicators [here](#).

Pedestrian flow



Density of street furniture (e.g. garbage, poles)



72

Which indicator is more important for wheeled robot navigation in public spaces?

We have added keystrokes for convenience. Press '1' to select the left choice, '2' to select the right choice, and 'Enter' to go to the next question.

You can consult the full list of indicators [here](#).

Density of street furniture (e.g. garbage, poles)



Bicycle traffic



73

Which indicator is more important for wheeled robot navigation in public spaces?

We have added keystrokes for convenience. Press '1' to select the left choice, '2' to select the right choice, and 'Enter' to go to the next question.

You can consult the full list of indicators [here](#).

Vehicle traffic



Density of street furniture (e.g. garbage, poles)



74

Which indicator is more important for wheeled robot navigation in public spaces?

We have added keystrokes for convenience. Press '1' to select the left choice, '2' to select the right choice, and 'Enter' to go to the next question.

You can consult the full list of indicators [here](#).

Density of street furniture (e.g. garbage, poles)



Existence of detailed digital maps of the area



75

Which indicator is more important for wheeled robot navigation in public spaces?

We have added keystrokes for convenience. Press '1' to select the left choice, '2' to select the right choice, and 'Enter' to go to the next question.

You can consult the full list of indicators [here](#).

Intersection safety



Density of street furniture (e.g. garbage, poles)



76

Which indicator is more important for wheeled robot navigation in public spaces?

We have added keystrokes for convenience. Press '1' to select the left choice, '2' to select the right choice, and 'Enter' to go to the next question.

You can consult the full list of indicators [here](#).

Sidewalk / Surface roughness



Surface condition



77

Which indicator is more important for wheeled robot navigation in public spaces?

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You can consult the full list of indicators [here](#).

Sidewalk / Surface roughness



Wireless communication infrastructure
(e.g. 5G, IoT, Wi-Fi)



78

Which indicator is more important for wheeled robot navigation in public spaces?

We have added keystrokes for convenience. Press '1' to select the left choice, '2' to select the right choice, and 'Enter' to go to the next question.

You can consult the full list of indicators [here](#).

Slope gradient (i.e. elevation change)

Sidewalk / Surface roughness

79

Which indicator is more important for wheeled robot navigation in public spaces?

We have added keystrokes for convenience. Press '1' to select the left choice, '2' to select the right choice, and 'Enter' to go to the next question.

You can consult the full list of indicators [here](#).

Proximity to charging stations

Sidewalk / Surface roughness

80

Which indicator is more important for wheeled robot navigation in public spaces?

We have added keystrokes for convenience. Press '1' to select the left choice, '2' to select the right choice, and 'Enter' to go to the next question.

You can consult the full list of indicators [here](#).

Local attitudes towards robots

Sidewalk / Surface roughness

81

Which indicator is more important for wheeled robot navigation in public spaces?

We have added keystrokes for convenience. Press '1' to select the left choice, '2' to select the right choice, and 'Enter' to go to the next question.

You can consult the full list of indicators [here](#).

Curb ramp availability ☐

Sidewalk / Surface roughness ☐

83

Which indicator is more important for wheeled robot navigation in public spaces?

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You can consult the full list of indicators [here](#).

Sidewalk / Surface roughness ☐

Weather conditions ☐

84

Which indicator is more important for wheeled robot navigation in public spaces?

We have added keystrokes for convenience. Press '1' to select the left choice, '2' to select the right choice, and 'Enter' to go to the next question.

You can consult the full list of indicators [here](#).

Sidewalk / Surface roughness ☐

Crowd dynamics - purpose with which people navigate in the space ☐

85

Which indicator is more important for wheeled robot navigation in public spaces?

We have added keystrokes for convenience. Press '1' to select the left choice, '2' to select the right choice, and 'Enter' to go to the next question.

You can consult the full list of indicators [here](#).

Traffic management systems

Sidewalk / Surface roughness

86

Which indicator is more important for wheeled robot navigation in public spaces?

We have added keystrokes for convenience. Press '1' to select the left choice, '2' to select the right choice, and 'Enter' to go to the next question.

You can consult the full list of indicators [here](#).

Sidewalk / Surface roughness

Surveillance coverage (CCTV)

87

Which indicator is more important for wheeled robot navigation in public spaces?

We have added keystrokes for convenience. Press '1' to select the left choice, '2' to select the right choice, and 'Enter' to go to the next question.

You can consult the full list of indicators [here](#).

Zoning laws and regulation

Sidewalk / Surface roughness

88

Which indicator is more important for wheeled robot navigation in public spaces?

We have added keystrokes for convenience. Press '1' to select the left choice, '2' to select the right choice, and 'Enter' to go to the next question.

You can consult the full list of indicators [here](#).

Sidewalk / Surface roughness

Bike lane availability

89

Which indicator is more important for wheeled robot navigation in public spaces?

We have added keystrokes for convenience. Press '1' to select the left choice, '2' to select the right choice, and 'Enter' to go to the next question.

You can consult the full list of indicators [here](#).

Street lighting

Sidewalk / Surface roughness

90

Which indicator is more important for wheeled robot navigation in public spaces?

We have added keystrokes for convenience. Press '1' to select the left choice, '2' to select the right choice, and 'Enter' to go to the next question.

You can consult the full list of indicators [here](#).

Sidewalk / Surface roughness

Existence of shade (e.g., trees)

92

Which indicator is more important for wheeled robot navigation in public spaces?

We have added keystrokes for convenience. Press '1' to select the left choice, '2' to select the right choice, and 'Enter' to go to the next question.

You can consult the full list of indicators [here](#).

Sidewalk / Surface roughness

GPS signal strength

93

Which indicator is more important for wheeled robot navigation in public spaces?

We have added keystrokes for convenience. Press '1' to select the left choice, '2' to select the right choice, and 'Enter' to go to the next question.

You can consult the full list of indicators [here](#).

Pedestrian flow

Sidewalk / Surface roughness

95

Which indicator is more important for wheeled robot navigation in public spaces?

We have added keystrokes for convenience. Press '1' to select the left choice, '2' to select the right choice, and 'Enter' to go to the next question.

You can consult the full list of indicators [here](#).

Sidewalk / Surface roughness

Bicycle traffic

96

Which indicator is more important for wheeled robot navigation in public spaces?

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You can consult the full list of indicators [here](#).

Vehicle traffic



Sidewalk / Surface roughness



97

Which indicator is more important for wheeled robot navigation in public spaces?

We have added keystrokes for convenience. Press '1' to select the left choice, '2' to select the right choice, and 'Enter' to go to the next question.

You can consult the full list of indicators [here](#).

Existence of detailed digital maps of the area



Sidewalk / Surface roughness



98

Which indicator is more important for wheeled robot navigation in public spaces?

We have added keystrokes for convenience. Press '1' to select the left choice, '2' to select the right choice, and 'Enter' to go to the next question.

You can consult the full list of indicators [here](#).

Intersection safety



Sidewalk / Surface roughness



99

Which indicator is more important for wheeled robot navigation in public spaces?

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You can consult the full list of indicators [here](#).

Surface condition



Wireless communication infrastructure
(e.g. 5G, IoT, Wi-Fi)



100

Which indicator is more important for wheeled robot navigation in public spaces?

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You can consult the full list of indicators [here](#).

Surface condition



Slope gradient (i.e. elevation change)



101

Which indicator is more important for wheeled robot navigation in public spaces?

We have added keystrokes for convenience. Press '1' to select the left choice, '2' to select the right choice, and 'Enter' to go to the next question.

You can consult the full list of indicators [here](#).

Proximity to charging stations



Surface condition



102

Which indicator is more important for wheeled robot navigation in public spaces?

We have added keystrokes for convenience. Press '1' to select the left choice, '2' to select the right choice, and 'Enter' to go to the next question.

You can consult the full list of indicators [here](#).

Surface condition

Local attitudes towards robots

103

Which indicator is more important for wheeled robot navigation in public spaces?

We have added keystrokes for convenience. Press '1' to select the left choice, '2' to select the right choice, and 'Enter' to go to the next question.

You can consult the full list of indicators [here](#).

Surface condition

Curb ramp availability

105

Which indicator is more important for wheeled robot navigation in public spaces?

We have added keystrokes for convenience. Press '1' to select the left choice, '2' to select the right choice, and 'Enter' to go to the next question.

You can consult the full list of indicators [here](#).

Surface condition

Weather conditions

106

Which indicator is more important for wheeled robot navigation in public spaces?

We have added keystrokes for convenience. Press '1' to select the left choice, '2' to select the right choice, and 'Enter' to go to the next question.

You can consult the full list of indicators [here](#).

Crowd dynamics – purpose with which
people navigate in the space



Surface condition



107

Which indicator is more important for wheeled robot navigation in public spaces?

We have added keystrokes for convenience. Press '1' to select the left choice, '2' to select the right choice, and 'Enter' to go to the next question.

You can consult the full list of indicators [here](#).

Traffic management systems



Surface condition



108

Which indicator is more important for wheeled robot navigation in public spaces?

We have added keystrokes for convenience. Press '1' to select the left choice, '2' to select the right choice, and 'Enter' to go to the next question.

You can consult the full list of indicators [here](#).

Surveillance coverage (CCTV)



Surface condition



109

Which indicator is more important for wheeled robot navigation in public spaces?

We have added keystrokes for convenience. Press '1' to select the left choice, '2' to select the right choice, and 'Enter' to go to the next question.

You can consult the full list of indicators [here](#).

Surface condition

Zoning laws and regulation

110

Which indicator is more important for wheeled robot navigation in public spaces?

We have added keystrokes for convenience. Press '1' to select the left choice, '2' to select the right choice, and 'Enter' to go to the next question.

You can consult the full list of indicators [here](#).

Bike lane availability

Surface condition

111

Which indicator is more important for wheeled robot navigation in public spaces?

We have added keystrokes for convenience. Press '1' to select the left choice, '2' to select the right choice, and 'Enter' to go to the next question.

You can consult the full list of indicators [here](#).

Surface condition

Street lighting

112

Which indicator is more important for wheeled robot navigation in public spaces?

We have added keystrokes for convenience. Press '1' to select the left choice, '2' to select the right choice, and 'Enter' to go to the next question.

You can consult the full list of indicators [here](#).

Surface condition

Existence of shade (e.g., trees)

114

Which indicator is more important for wheeled robot navigation in public spaces?

We have added keystrokes for convenience. Press '1' to select the left choice, '2' to select the right choice, and 'Enter' to go to the next question.

You can consult the full list of indicators [here](#).

Surface condition

GPS signal strength

115

Which indicator is more important for wheeled robot navigation in public spaces?

We have added keystrokes for convenience. Press '1' to select the left choice, '2' to select the right choice, and 'Enter' to go to the next question.

You can consult the full list of indicators [here](#).

Surface condition

Pedestrian flow

117

Which indicator is more important for wheeled robot navigation in public spaces?

We have added keystrokes for convenience. Press '1' to select the left choice, '2' to select the right choice, and 'Enter' to go to the next question.

You can consult the full list of indicators [here](#).

Surface condition

Bicycle traffic

118

Which indicator is more important for wheeled robot navigation in public spaces?

We have added keystrokes for convenience. Press '1' to select the left choice, '2' to select the right choice, and 'Enter' to go to the next question.

You can consult the full list of indicators [here](#).

Surface condition

Vehicle traffic

119

Which indicator is more important for wheeled robot navigation in public spaces?

We have added keystrokes for convenience. Press '1' to select the left choice, '2' to select the right choice, and 'Enter' to go to the next question.

You can consult the full list of indicators [here](#).

Surface condition

Existence of detailed digital maps of the area

120

Which indicator is more important for wheeled robot navigation in public spaces?

We have added keystrokes for convenience. Press '1' to select the left choice, '2' to select the right choice, and 'Enter' to go to the next question.

You can consult the full list of indicators [here](#).

Intersection safety

☐

Surface condition

☐

121

Which indicator is more important for wheeled robot navigation in public spaces?

We have added keystrokes for convenience. Press '1' to select the left choice, '2' to select the right choice, and 'Enter' to go to the next question.

You can consult the full list of indicators [here](#).

Wireless communication infrastructure
(e.g. 5G, IoT, Wi-Fi)

☐

Slope gradient (i.e. elevation change)

☐

122

Which indicator is more important for wheeled robot navigation in public spaces?

We have added keystrokes for convenience. Press '1' to select the left choice, '2' to select the right choice, and 'Enter' to go to the next question.

You can consult the full list of indicators [here](#).

Proximity to charging stations

☐

Wireless communication infrastructure
(e.g. 5G, IoT, Wi-Fi)

☐

123

Which indicator is more important for wheeled robot navigation in public spaces?

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You can consult the full list of indicators [here](#).

Local attitudes towards robots



Wireless communication infrastructure
(e.g. 5G, IoT, Wi-Fi)



124

Which indicator is more important for wheeled robot navigation in public spaces?

We have added keystrokes for convenience. Press '1' to select the left choice, '2' to select the right choice, and 'Enter' to go to the next question.

You can consult the full list of indicators [here](#).

Curb ramp availability



Wireless communication infrastructure
(e.g. 5G, IoT, Wi-Fi)



126

Which indicator is more important for wheeled robot navigation in public spaces?

We have added keystrokes for convenience. Press '1' to select the left choice, '2' to select the right choice, and 'Enter' to go to the next question.

You can consult the full list of indicators [here](#).

Wireless communication infrastructure
(e.g. 5G, IoT, Wi-Fi)



Weather conditions



127

Which indicator is more important for wheeled robot navigation in public spaces?

We have added keystrokes for convenience. Press '1' to select the left choice, '2' to select the right choice, and 'Enter' to go to the next question.

You can consult the full list of indicators [here](#).

Crowd dynamics – purpose with which
people navigate in the space

Wireless communication infrastructure
(e.g. 5G, IoT, Wi-Fi)

128

Which indicator is more important for wheeled robot navigation in public spaces?

We have added keystrokes for convenience. Press '1' to select the left choice, '2' to select the right choice, and 'Enter' to go to the next question.

You can consult the full list of indicators [here](#).

Wireless communication infrastructure
(e.g. 5G, IoT, Wi-Fi)

Traffic management systems

129

Which indicator is more important for wheeled robot navigation in public spaces?

We have added keystrokes for convenience. Press '1' to select the left choice, '2' to select the right choice, and 'Enter' to go to the next question.

You can consult the full list of indicators [here](#).

Wireless communication infrastructure
(e.g. 5G, IoT, Wi-Fi)



Surveillance coverage (CCTV)



130

Which indicator is more important for wheeled robot navigation in public spaces?

We have added keystrokes for convenience. Press '1' to select the left choice, '2' to select the right choice, and 'Enter' to go to the next question.

You can consult the full list of indicators [here](#).

Wireless communication infrastructure
(e.g. 5G, IoT, Wi-Fi)



Zoning laws and regulation



131

Which indicator is more important for wheeled robot navigation in public spaces?

We have added keystrokes for convenience. Press '1' to select the left choice, '2' to select the right choice, and 'Enter' to go to the next question.

You can consult the full list of indicators [here](#).

Wireless communication infrastructure
(e.g. 5G, IoT, Wi-Fi)



Bike lane availability



132

Which indicator is more important for wheeled robot navigation in public spaces?

We have added keystrokes for convenience. Press '1' to select the left choice, '2' to select the right choice, and 'Enter' to go to the next question.

You can consult the full list of indicators [here](#).

Street lighting



Wireless communication infrastructure
(e.g. 5G, IoT, Wi-Fi)



133

Which indicator is more important for wheeled robot navigation in public spaces?

We have added keystrokes for convenience. Press '1' to select the left choice, '2' to select the right choice, and 'Enter' to go to the next question.

You can consult the full list of indicators [here](#).

Existence of shade (e.g., trees)



Wireless communication infrastructure
(e.g. 5G, IoT, Wi-Fi)



135

Which indicator is more important for wheeled robot navigation in public spaces?

We have added keystrokes for convenience. Press '1' to select the left choice, '2' to select the right choice, and 'Enter' to go to the next question.

You can consult the full list of indicators [here](#).

GPS signal strength



Wireless communication infrastructure
(e.g. 5G, IoT, Wi-Fi)



136

Which indicator is more important for wheeled robot navigation in public spaces?

We have added keystrokes for convenience. Press '1' to select the left choice, '2' to select the right choice, and 'Enter' to go to the next question.

You can consult the full list of indicators [here](#).

Pedestrian flow



Wireless communication infrastructure
(e.g. 5G, IoT, Wi-Fi)



138

Which indicator is more important for wheeled robot navigation in public spaces?

We have added keystrokes for convenience. Press '1' to select the left choice, '2' to select the right choice, and 'Enter' to go to the next question.

You can consult the full list of indicators [here](#).

Bicycle traffic



Wireless communication infrastructure
(e.g. 5G, IoT, Wi-Fi)



139

Which indicator is more important for wheeled robot navigation in public spaces?

We have added keystrokes for convenience. Press '1' to select the left choice, '2' to select the right choice, and 'Enter' to go to the next question.

You can consult the full list of indicators [here](#).

Vehicle traffic



Wireless communication infrastructure
(e.g. 5G, IoT, Wi-Fi)



140

Which indicator is more important for wheeled robot navigation in public spaces?

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You can consult the full list of indicators [here](#).

Existence of detailed digital maps of the
area



Wireless communication infrastructure
(e.g. 5G, IoT, Wi-Fi)



141

Which indicator is more important for wheeled robot navigation in public spaces?

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You can consult the full list of indicators [here](#).

Wireless communication infrastructure
(e.g. 5G, IoT, Wi-Fi)

Intersection safety

142

Which indicator is more important for wheeled robot navigation in public spaces?

We have added keystrokes for convenience. Press '1' to select the left choice, '2' to select the right choice, and 'Enter' to go to the next question.

You can consult the full list of indicators [here](#).

Slope gradient (i.e. elevation change)

Proximity to charging stations

143

Which indicator is more important for wheeled robot navigation in public spaces?

We have added keystrokes for convenience. Press '1' to select the left choice, '2' to select the right choice, and 'Enter' to go to the next question.

You can consult the full list of indicators [here](#).

Local attitudes towards robots

Slope gradient (i.e. elevation change)

144

Which indicator is more important for wheeled robot navigation in public spaces?

We have added keystrokes for convenience. Press '1' to select the left choice, '2' to select the right choice, and 'Enter' to go to the next question.

You can consult the full list of indicators [here](#).

Curb ramp availability ☐

Slope gradient (i.e. elevation change) ☐

146

Which indicator is more important for wheeled robot navigation in public spaces?

We have added keystrokes for convenience. Press '1' to select the left choice, '2' to select the right choice, and 'Enter' to go to the next question.

You can consult the full list of indicators [here](#).

Weather conditions ☐

Slope gradient (i.e. elevation change) ☐

147

Which indicator is more important for wheeled robot navigation in public spaces?

We have added keystrokes for convenience. Press '1' to select the left choice, '2' to select the right choice, and 'Enter' to go to the next question.

You can consult the full list of indicators [here](#).

Crowd dynamics - purpose with which
people navigate in the space ☐

Slope gradient (i.e. elevation change) ☐

148

Which indicator is more important for wheeled robot navigation in public spaces?

We have added keystrokes for convenience. Press '1' to select the left choice, '2' to select the right choice, and 'Enter' to go to the next question.

You can consult the full list of indicators [here](#).

Slope gradient (i.e. elevation change)

Traffic management systems

149

Which indicator is more important for wheeled robot navigation in public spaces?

We have added keystrokes for convenience. Press '1' to select the left choice, '2' to select the right choice, and 'Enter' to go to the next question.

You can consult the full list of indicators [here](#).

Slope gradient (i.e. elevation change)

Surveillance coverage (CCTV)

150

Which indicator is more important for wheeled robot navigation in public spaces?

We have added keystrokes for convenience. Press '1' to select the left choice, '2' to select the right choice, and 'Enter' to go to the next question.

You can consult the full list of indicators [here](#).

Zoning laws and regulation

Slope gradient (i.e. elevation change)

151

Which indicator is more important for wheeled robot navigation in public spaces?

We have added keystrokes for convenience. Press '1' to select the left choice, '2' to select the right choice, and 'Enter' to go to the next question.

You can consult the full list of indicators [here](#).

Bike lane availability

Slope gradient (i.e. elevation change)

152

Which indicator is more important for wheeled robot navigation in public spaces?

We have added keystrokes for convenience. Press '1' to select the left choice, '2' to select the right choice, and 'Enter' to go to the next question.

You can consult the full list of indicators [here](#).

Slope gradient (i.e. elevation change)

Street lighting

153

Which indicator is more important for wheeled robot navigation in public spaces?

We have added keystrokes for convenience. Press '1' to select the left choice, '2' to select the right choice, and 'Enter' to go to the next question.

You can consult the full list of indicators [here](#).

Slope gradient (i.e. elevation change)

Existence of shade (e.g., trees)

155

Which indicator is more important for wheeled robot navigation in public spaces?

We have added keystrokes for convenience. Press '1' to select the left choice, '2' to select the right choice, and 'Enter' to go to the next question.

You can consult the full list of indicators [here](#).

GPS signal strength

Slope gradient (i.e. elevation change)

156

Which indicator is more important for wheeled robot navigation in public spaces?

We have added keystrokes for convenience. Press '1' to select the left choice, '2' to select the right choice, and 'Enter' to go to the next question.

You can consult the full list of indicators [here](#).

Pedestrian flow

Slope gradient (i.e. elevation change)

158

Which indicator is more important for wheeled robot navigation in public spaces?

We have added keystrokes for convenience. Press '1' to select the left choice, '2' to select the right choice, and 'Enter' to go to the next question.

You can consult the full list of indicators [here](#).

Slope gradient (i.e. elevation change)

Bicycle traffic

159

Which indicator is more important for wheeled robot navigation in public spaces?

We have added keystrokes for convenience. Press '1' to select the left choice, '2' to select the right choice, and 'Enter' to go to the next question.

You can consult the full list of indicators [here](#).

Slope gradient (i.e. elevation change) ☒

Vehicle traffic ☐

160

Which indicator is more important for wheeled robot navigation in public spaces?

We have added keystrokes for convenience. Press '1' to select the left choice, '2' to select the right choice, and 'Enter' to go to the next question.

You can consult the full list of indicators [here](#).

Existence of detailed digital maps of the area ☒

Slope gradient (i.e. elevation change) ☐

161

Which indicator is more important for wheeled robot navigation in public spaces?

We have added keystrokes for convenience. Press '1' to select the left choice, '2' to select the right choice, and 'Enter' to go to the next question.

You can consult the full list of indicators [here](#).

Intersection safety ☒

Slope gradient (i.e. elevation change) ☐

162

Which indicator is more important for wheeled robot navigation in public spaces?

We have added keystrokes for convenience. Press '1' to select the left choice, '2' to select the right choice, and 'Enter' to go to the next question.

You can consult the full list of indicators [here](#).

Local attitudes towards robots

Proximity to charging stations

163

Which indicator is more important for wheeled robot navigation in public spaces?

We have added keystrokes for convenience. Press '1' to select the left choice, '2' to select the right choice, and 'Enter' to go to the next question.

You can consult the full list of indicators [here](#).

Curb ramp availability

Proximity to charging stations

165

Which indicator is more important for wheeled robot navigation in public spaces?

We have added keystrokes for convenience. Press '1' to select the left choice, '2' to select the right choice, and 'Enter' to go to the next question.

You can consult the full list of indicators [here](#).

Proximity to charging stations

Weather conditions

166

Which indicator is more important for wheeled robot navigation in public spaces?

We have added keystrokes for convenience. Press '1' to select the left choice, '2' to select the right choice, and 'Enter' to go to the next question.

You can consult the full list of indicators [here](#).

Crowd dynamics – purpose with which
people navigate in the space

Proximity to charging stations

167

Which indicator is more important for wheeled robot navigation in public spaces?

We have added keystrokes for convenience. Press '1' to select the left choice, '2' to select the right choice, and 'Enter' to go to the next question.

You can consult the full list of indicators [here](#).

Traffic management systems

Proximity to charging stations

168

Which indicator is more important for wheeled robot navigation in public spaces?

We have added keystrokes for convenience. Press '1' to select the left choice, '2' to select the right choice, and 'Enter' to go to the next question.

You can consult the full list of indicators [here](#).

Proximity to charging stations

Surveillance coverage (CCTV)

169

Which indicator is more important for wheeled robot navigation in public spaces?

We have added keystrokes for convenience. Press '1' to select the left choice, '2' to select the right choice, and 'Enter' to go to the next question.

You can consult the full list of indicators [here](#).

Zoning laws and regulation

Proximity to charging stations

170

Which indicator is more important for wheeled robot navigation in public spaces?

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You can consult the full list of indicators [here](#).

Bike lane availability

Proximity to charging stations

171

Which indicator is more important for wheeled robot navigation in public spaces?

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You can consult the full list of indicators [here](#).

Proximity to charging stations

Street lighting

172

Which indicator is more important for wheeled robot navigation in public spaces?

We have added keystrokes for convenience. Press '1' to select the left choice, '2' to select the right choice, and 'Enter' to go to the next question.

You can consult the full list of indicators [here](#).

Existence of shade (e.g., trees)

Proximity to charging stations

174

Which indicator is more important for wheeled robot navigation in public spaces?

We have added keystrokes for convenience. Press '1' to select the left choice, '2' to select the right choice, and 'Enter' to go to the next question.

You can consult the full list of indicators [here](#).

GPS signal strength

Proximity to charging stations

175

Which indicator is more important for wheeled robot navigation in public spaces?

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Pedestrian flow

Proximity to charging stations

177

Which indicator is more important for wheeled robot navigation in public spaces?

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You can consult the full list of indicators [here](#).

Proximity to charging stations

Bicycle traffic

178

Which indicator is more important for wheeled robot navigation in public spaces?

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You can consult the full list of indicators [here](#).

Vehicle traffic

Proximity to charging stations

179

Which indicator is more important for wheeled robot navigation in public spaces?

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Existence of detailed digital maps of the area

Proximity to charging stations

180

Which indicator is more important for wheeled robot navigation in public spaces?

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You can consult the full list of indicators [here](#).

Proximity to charging stations

Intersection safety

181

Which indicator is more important for wheeled robot navigation in public spaces?

We have added keystrokes for convenience. Press '1' to select the left choice, '2' to select the right choice, and 'Enter' to go to the next question.

You can consult the full list of indicators [here](#).

Curb ramp availability

Local attitudes towards robots

183

Which indicator is more important for wheeled robot navigation in public spaces?

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You can consult the full list of indicators [here](#).

Weather conditions

Local attitudes towards robots

184

Which indicator is more important for wheeled robot navigation in public spaces?

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Crowd dynamics – purpose with which
people navigate in the space

Local attitudes towards robots

185

Which indicator is more important for wheeled robot navigation in public spaces?

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Traffic management systems

Local attitudes towards robots

186

Which indicator is more important for wheeled robot navigation in public spaces?

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Local attitudes towards robots

Surveillance coverage (CCTV)

187

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Local attitudes towards robots

Zoning laws and regulation

188

Which indicator is more important for wheeled robot navigation in public spaces?

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Local attitudes towards robots

Bike lane availability

189

Which indicator is more important for wheeled robot navigation in public spaces?

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Street lighting

Local attitudes towards robots

190

Which indicator is more important for wheeled robot navigation in public spaces?

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Local attitudes towards robots

Existence of shade (e.g., trees)

192

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Local attitudes towards robots

GPS signal strength

193

Which indicator is more important for wheeled robot navigation in public spaces?

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Local attitudes towards robots

Pedestrian flow

195

Which indicator is more important for wheeled robot navigation in public spaces?

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Bicycle traffic

Local attitudes towards robots

196

Which indicator is more important for wheeled robot navigation in public spaces?

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Vehicle traffic

Local attitudes towards robots

197

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Local attitudes towards robots

Existence of detailed digital maps of the area

198

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Intersection safety

Local attitudes towards robots

200

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Weather conditions

Curb ramp availability

201

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Curb ramp availability

Crowd dynamics - purpose with which people navigate in the space

202

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Traffic management systems

Curb ramp availability

203

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Surveillance coverage (CCTV)

Curb ramp availability

204

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Curb ramp availability

Zoning laws and regulation

205

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Bike lane availability

Curb ramp availability

206

Which indicator is more important for wheeled robot navigation in public spaces?

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Street lighting

Curb ramp availability

207

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Existence of shade (e.g., trees)

Curb ramp availability

209

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Curb ramp availability

GPS signal strength

210

Which indicator is more important for wheeled robot navigation in public spaces?

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You can consult the full list of indicators [here](#).

Pedestrian flow

Curb ramp availability

212

Which indicator is more important for wheeled robot navigation in public spaces?

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Curb ramp availability

Bicycle traffic

213

Which indicator is more important for wheeled robot navigation in public spaces?

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Curb ramp availability



Vehicle traffic



214

Which indicator is more important for wheeled robot navigation in public spaces?

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Curb ramp availability



Existence of detailed digital maps of the area



215

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Intersection safety



Curb ramp availability



232

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Crowd dynamics – purpose with which
people navigate in the space

Weather conditions

233

Which indicator is more important for wheeled robot navigation in public spaces?

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Weather conditions

Traffic management systems

234

Which indicator is more important for wheeled robot navigation in public spaces?

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Weather conditions

Surveillance coverage (CCTV)

235

Which indicator is more important for wheeled robot navigation in public spaces?

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Weather conditions

Zoning laws and regulation

236

Which indicator is more important for wheeled robot navigation in public spaces?

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Bike lane availability

Weather conditions

237

Which indicator is more important for wheeled robot navigation in public spaces?

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Street lighting

Weather conditions

238

Which indicator is more important for wheeled robot navigation in public spaces?

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Existence of shade (e.g., trees)

Weather conditions

240

Which indicator is more important for wheeled robot navigation in public spaces?

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GPS signal strength

Weather conditions

241

Which indicator is more important for wheeled robot navigation in public spaces?

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You can consult the full list of indicators [here](#).

Weather conditions

Pedestrian flow

243

Which indicator is more important for wheeled robot navigation in public spaces?

We have added keystrokes for convenience. Press '1' to select the left choice, '2' to select the right choice, and 'Enter' to go to the next question.

You can consult the full list of indicators [here](#).

Weather conditions

Bicycle traffic

244

Which indicator is more important for wheeled robot navigation in public spaces?

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You can consult the full list of indicators [here](#).

Vehicle traffic

Weather conditions

245

Which indicator is more important for wheeled robot navigation in public spaces?

We have added keystrokes for convenience. Press '1' to select the left choice, '2' to select the right choice, and 'Enter' to go to the next question.

You can consult the full list of indicators [here](#).

Weather conditions

Existence of detailed digital maps of the area

246

Which indicator is more important for wheeled robot navigation in public spaces?

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You can consult the full list of indicators [here](#).

Weather conditions ☒

Intersection safety ☐

247

Which indicator is more important for wheeled robot navigation in public spaces?

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You can consult the full list of indicators [here](#).

Crowd dynamics – purpose with which
people navigate in the space ☒

Traffic management systems ☐

248

Which indicator is more important for wheeled robot navigation in public spaces?

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Crowd dynamics – purpose with which
people navigate in the space ☒

Surveillance coverage (CCTV) ☐

249

Which indicator is more important for wheeled robot navigation in public spaces?

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You can consult the full list of indicators [here](#).

Crowd dynamics – purpose with which
people navigate in the space



Zoning laws and regulation



250

Which indicator is more important for wheeled robot navigation in public spaces?

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You can consult the full list of indicators [here](#).

Bike lane availability



Crowd dynamics – purpose with which
people navigate in the space



251

Which indicator is more important for wheeled robot navigation in public spaces?

We have added keystrokes for convenience. Press '1' to select the left choice, '2' to select the right choice, and 'Enter' to go to the next question.

You can consult the full list of indicators [here](#).

Street lighting



Crowd dynamics – purpose with which
people navigate in the space



252

Which indicator is more important for wheeled robot navigation in public spaces?

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You can consult the full list of indicators [here](#).

Crowd dynamics – purpose with which
people navigate in the space



Existence of shade (e.g., trees)



254

Which indicator is more important for wheeled robot navigation in public spaces?

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You can consult the full list of indicators [here](#).

Crowd dynamics – purpose with which
people navigate in the space



GPS signal strength



255

Which indicator is more important for wheeled robot navigation in public spaces?

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Pedestrian flow



Crowd dynamics – purpose with which people navigate in the space



257

Which indicator is more important for wheeled robot navigation in public spaces?

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Bicycle traffic



Crowd dynamics – purpose with which people navigate in the space



258

Which indicator is more important for wheeled robot navigation in public spaces?

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Crowd dynamics – purpose with which people navigate in the space



Vehicle traffic



259

Which indicator is more important for wheeled robot navigation in public spaces?

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Crowd dynamics – purpose with which
people navigate in the space

Existence of detailed digital maps of the
area

260

Which indicator is more important for wheeled robot navigation in public spaces?

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You can consult the full list of indicators [here](#).

Crowd dynamics – purpose with which
people navigate in the space

Intersection safety

261

Which indicator is more important for wheeled robot navigation in public spaces?

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Traffic management systems

Surveillance coverage (CCTV)

262

Which indicator is more important for wheeled robot navigation in public spaces?

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Traffic management systems

Zoning laws and regulation

263

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Bike lane availability

Traffic management systems

264

Which indicator is more important for wheeled robot navigation in public spaces?

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You can consult the full list of indicators [here](#).

Traffic management systems

Street lighting

265

Which indicator is more important for wheeled robot navigation in public spaces?

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Existence of shade (e.g., trees)

Traffic management systems

267

Which indicator is more important for wheeled robot navigation in public spaces?

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Traffic management systems

GPS signal strength

268

Which indicator is more important for wheeled robot navigation in public spaces?

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Pedestrian flow

Traffic management systems

270

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☒ Bicycle traffic

☐ Traffic management systems

271

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☒ Vehicle traffic

☐ Traffic management systems

272

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☐ Traffic management systems

☒ Existence of detailed digital maps of the area

273

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Traffic management systems

Intersection safety

274

Which indicator is more important for wheeled robot navigation in public spaces?

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Zoning laws and regulation

Surveillance coverage (CCTV)

275

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Surveillance coverage (CCTV)

Bike lane availability

276

Which indicator is more important for wheeled robot navigation in public spaces?

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Surveillance coverage (CCTV)

Street lighting

277

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Surveillance coverage (CCTV)

Existence of shade (e.g., trees)

279

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GPS signal strength

Surveillance coverage (CCTV)

280

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Pedestrian flow

Surveillance coverage (CCTV)

282

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Bicycle traffic

Surveillance coverage (CCTV)

283

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Vehicle traffic

Surveillance coverage (CCTV)

284

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Surveillance coverage (CCTV)



Existence of detailed digital maps of the area



285

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Surveillance coverage (CCTV)



Intersection safety



286

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Zoning laws and regulation



Bike lane availability



287

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Zoning laws and regulation

Street lighting

288

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Existence of shade (e.g., trees)

Zoning laws and regulation

290

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Zoning laws and regulation

GPS signal strength

291

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Zoning laws and regulation

Pedestrian flow

293

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Zoning laws and regulation

Bicycle traffic

294

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Vehicle traffic

Zoning laws and regulation

295

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Existence of detailed digital maps of the
area



Zoning laws and regulation



296

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Zoning laws and regulation



Intersection safety



297

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Bike lane availability



Street lighting



298

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Existence of shade (e.g., trees)

Bike lane availability

300

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GPS signal strength

Bike lane availability

301

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Pedestrian flow

Bike lane availability

Final_q

You have finished the survey. Please do not forget to submit it

below.

If you have any comments or observations, you can write them down here.

If you would like to stay informed on updates on this project, you can leave your email contact below. This data will be processed separately from the survey data, so your answers will remain anonymous.

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