

## APPENDIX I: BASELINE SURVEY INSTRUMENT

---

# ADVANCE

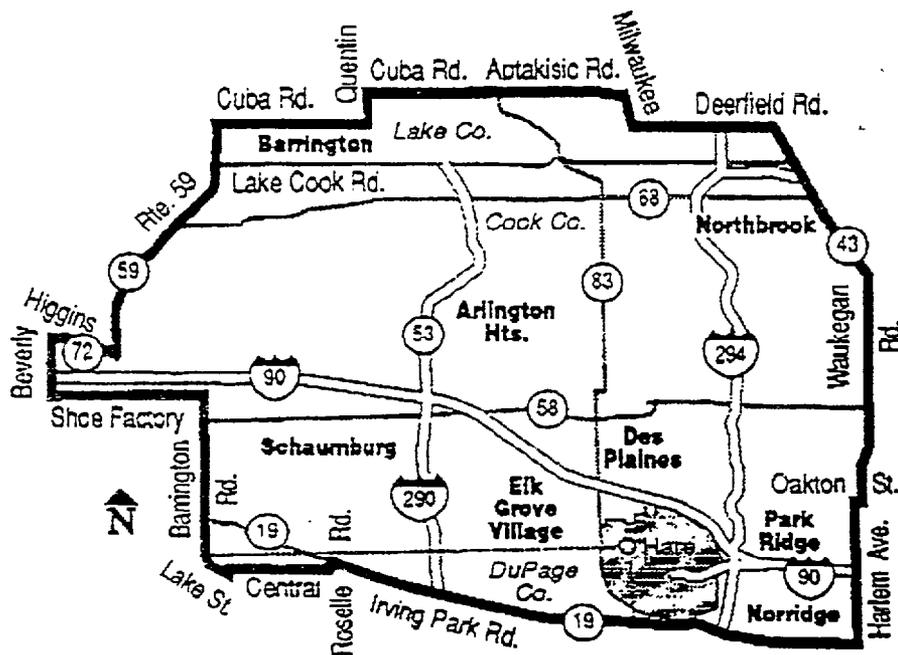
---

## Baseline Driver Survey

This questionnaire is to be completed by primary and alternate drivers prior to receiving the **ADVANCE** vehicle.

The primary driver can be the person who is likely to use this vehicle most. If two drivers are likely to share use of the vehicle equally, either can serve as the primary driver, and the other the alternate. Some households will not have an alternate driver. At most two household drivers should complete this questionnaire.

Bring this completed questionnaire with you to the **ADVANCE** training session.



The **ADVANCE** Test Area

## PRIMARY DRIVER

### A. HOUSEHOLD INFORMATION

1. How many persons (including yourself) live in your household \_\_\_\_\_

2. List the birth year and gender of persons in your household who are licensed drivers or have learning permits. Start with yourself and the alternate driver of the ADVANCE vehicle.

3. How many motor vehicles (automobiles, vans, and trucks of one-ton capacity or less) does your household own or lease?

- 1     2     3  
 4     5 or more

Year of Birth	Gender (circle one)
1. (primary driver)	male      female
2. (alternate driver)	male      female
3.	male      female
4.	male      female
5.	male      female
6.	male      female

4. What is your total household annual income from all sources (before taxes)?

- less than \$25,000  
 \$25,001 - \$50,000  
 \$50,001 - \$75,000  
 \$75,001 - \$100,000  
 \$100,001 - \$125,000  
 \$125,001 - \$150,000  
 more than \$150,001

5. What is the name of the town in which you live? \_\_\_\_\_

### B. PERSONAL CHARACTERISTICS – PRIMARY DRIVER

6. Describe the vehicle you drive the most:    A. Make \_\_\_\_\_    B. Model \_\_\_\_\_  
 C. Year \_\_\_\_\_    D. Does it have a cellular phone? \_\_\_yes \_\_\_no

7. What is the highest level of education you have completed?

- high school or less       skilled trade school       associate degree  
 bachelors degree       advanced degree

8. What is your employment status?

- employed full-time       employed part-time       not employed

If you are not employed, GO TO section C below; if you are employed full-time or part-time, continue with question

9. What best describes your primary occupation?
- |  |  |                                       |
|--|--|---------------------------------------|
| <input type="checkbox"/> managerial/business owner | <input type="checkbox"/> service worker  | <input type="checkbox"/> sales person |
| <input type="checkbox"/> professional/technical    | <input type="checkbox"/> clerical worker | <input type="checkbox"/> student      |
| <input type="checkbox"/> skilled crafts worker     | <input type="checkbox"/> homemaker       | <input type="checkbox"/> other        |

If you are employed outside your home any number of days per week, please answer questions 10 - 12. If you are not employed outside your home, GO TO section C.

10. How many days per week do you normally work outside your home?

\_\_\_\_ days     None (If none then go to Section C)

11. Where do you typically report to work? \_\_\_\_\_  
(town or towns)

12. How many days per week do you drive your car to work?

- none     1     2     3     4     5 or more

**C. DRIVING EXPERIENCES AND ATTITUDES – PRIMARY DRIVER**

	Visits per week
13. About how many times each week do you visit places as an auto driver for each of the following purposes:	
Shopping of all types	
Personal business: banking, school, medical, fitness, eat meals, etc.	
Social, recreation, cultural activities	

14. About how many miles do you drive each year: \_\_\_\_\_

For the next series of questions, please circle the number which best indicates the extent to which you agree with the following statements about your familiarity with the road network, your auto driving experience and attitudes, and your experience with electronic devices.

15. I am very familiar with the road network	Strongly Disagree	1	2	3	4	Strongly Agree
in my town of residence		1	2	3	4	5
in the <i>ADVANCE</i> test area		1	2	3	4	5
in the Chicago Metropolitan Area		1	2	3	4	5

When I travel by car, traffic congestion is usually heavy	Strongly Disagree .....	1	2	3	4	5	Strongly Agree
When I go to work		1	2	3	4	5	
When I go shopping		1	2	3	4	5	
For most of my trips		1	2	3	4	5	

17. When I am driving

	Strongly Disagree .....	1	2	3	4	5	Strongly Agree
I like discovering new routes to get some place		1	2	3	4	5	
If I get lost, I ask people for directions		1	2	3	4	5	
I can give precise directions to others		1	2	3	4	5	
I get impatient quickly if I have to wait in traffic		1	2	3	4	5	
I am not a nervous person		1	2	3	4	5	
I am an assertive driver		1	2	3	4	5	

18. The importance of factors I consider in selecting routes while driving

	Strongly Disagree .....	1	2	3	4	5	Strongly Agree
Shortest travel time		1	2	3	4	5	
Shortest travel distance		1	2	3	4	5	
Follow routes which I'm used to		1	2	3	4	5	
Avoid traffic signals		1	2	3	4	5	
Avoid routes with complex maneuvers		1	2	3	4	5	
Use expressways		1	2	3	4	5	
Avoid expressways		1	2	3	4	5	
Avoid tollways		1	2	3	4	5	
Avoid areas I'm not familiar with		1	2	3	4	5	

19. My experience with electronic devices	No Experience	Strongly Disagree	1	2	3	4	Strongly Agree
I find computers easy to use	0	1	2	3	4	5	
I find a bank ATM easy to use	0	1	2	3	4	5	
I can easily program a VCR for recording	0	1	2	3	4	5	

**D. PERCEPTIONS OF ROAD AND TRAFFIC INFORMATION SYSTEMS – PRIMARY DRIVER**

For the next series of questions, please circle the number which best indicates the extent to which you agree with the following statements about traveling by car for local trips.

20. My use of roadmaps before and during an auto trip	Strongly Disagree	1	2	3	4	Strongly Agree	Strongly Disagree	1	2	3	4	Strongly Agree
I rarely use a roadmap	1	2	3	4	5		1	2	3	4	5	
I find roadmaps easy to use	1	2	3	4	5		1	2	3	4	5	

21. How often on a typical work day I use each of these sources of traffic information.	Before Making a trip					During the trip				
	Never	1	2	3	Very Often	Never	1	2	3	Very Often
Commercial radio reports	1	2	3	4	5	1	2	3	4	5
Illinois Department of Transportation (IDOT) radio reports (530 or 1610 kHz)	1	2	3	4	5	1	2	3	4	5
Telephone traffic services (e.g., *123)	1	2	3	4	5	1	2	3	4	5
TV traffic reports	1	2	3	4	5	1	2	3	4	5
Traffic information signs warning of congestion and delays	1	2	3	4	5	1	2	3	4	5

22. Commercial radio traffic reports	I don't use this source	Never.....	.....	.....	.....	.....	Very Often
Are a reliable source of traffic information	0	1	2	3	4	5	
Save me travel time	0	1	2	3	4	5	
Reduce my anxiety while traveling	0	1	2	3	4	5	
Lead me to change my route before I start my trip	0	1	2	3	4	5	
Lead me to change my route during my trip	0	1	2	3	4	5	
Cause me to shift my departure time	0	1	2	3	4	5	

23. IDOT radio reports (530 or 1610 kHz a.m.)	I don't use this source	Never.....	.....	.....	.....	.....	Very Often
Are a reliable source of traffic information	0	1	2	3	4	5	
Save me travel time	0	1	2	3	4	5	
Reduce my anxiety while traveling	0	1	2	3	4	5	
Lead me to change my route before I start my trip	0	1	2	3	4	5	
Lead me to change my route during my trip	0	1	2	3	4	5	
Cause me to shift my departure time	0	1	2	3	4	5	

24. Telephone traffic services (e.g., *123)	I don't use this source	Never.....	.....	.....	.....	.....	Very Often
Are a reliable source of traffic information	0	1	2	3	4	5	
Save me travel time	0	1	2	3	4	5	
Reduce my anxiety while traveling	0	1	2	3	4	5	
Lead me to change my route before I start my trip	0	1	2	3	4	5	
Lead me to change my route during my trip	0	1	2	3	4	5	
Cause me to shift my departure time	0	1	2	3	4	5	

25. TV traffic reports	I don't use this source	Never.....	.....	.....	.....	Very Often
Are a reliable source of traffic information	0	1	2	3	4	5
Save me travel time	0	1	2	3	4	5
Reduce my anxiety while traveling	0	1	2	3	4	5
Lead me to change my route before I start my trip	0	1	2	3	4	5
Lead me to change my route during my trip	0	1	2	3	4	5
Cause me to shift my departure time	0	1	2	3	4	5

26. Traffic information signs warning of congestion & delays	I don't use this source	Never.....	.....	.....	.....	Very Often
Are a reliable source of traffic information	0	1	2	3	4	5
Save me travel time	0	1	2	3	4	5
Reduce my anxiety while traveling	0	1	2	3	4	5
Lead me to change my route before I start my trip	0	1	2	3	4	5
Lead me to change my route during my trip	0	1	2	3	4	5
Cause me to shift my departure time	0	1	2	3	4	5

27. I expect the <i>ADVANCE</i> system to	Strongly Disagree .....	.....	.....	.....	.....	Strongly Agree
Distract me from the driving task	1	2	3	4	5	
Reduce my level of anxiety while driving	1	2	3	4	5	
Help me get to new destinations	1	2	3	4	5	
Save me time	1	2	3	4	5	
Be useful to me	1	2	3	4	5	
Be fun to use	1	2	3	4	5	

Please ask the alternate driver of your *ADVANCE* vehicle (if there is an alternate driver in your household) to complete the next part of the questionnaire. You must bring this completed questionnaire to the training and vehicle delivery session to get your vehicle.



9. About how many miles do you drive each year: \_\_\_\_\_

For the next series of questions, please circle the number which best indicates the extent to which you agree with the following statements about your familiarity with the road network, your auto driving experience and attitudes, and your experience with electronic devices.

10. I am very familiar with the road network	Strongly Disagree .....	.....	.....	.....	Strongly Agree
in my town of residence	1	2	3	4	5
in the <i>ADVANCE</i> test area	1	2	3	4	5
in the Chicago Metropolitan Area	1	2	3	4	5

11. When I travel by car, traffic congestion is usually heavy	Strongly Disagree .....	.....	.....	.....	Strongly Agree
When I go to work	1	2	3	4	5
When I go shopping	1	2	3	4	5
For most of my trips	1	2	3	4	5

12. When I am driving	Strongly Disagree .....	.....	.....	.....	Strongly Agree
I like discovering new routes to get some place	1	2	3	4	5
If I get lost, I ask people for directions	1	2	3	4	5
I can give precise directions to others	1	2	3	4	5
I get impatient quickly if I have to wait in traffic	1	2	3	4	5
I am not a nervous person	1	2	3	4	5
I am an assertive driver	1	2	3	4	5



16. How often on a typical work day I use each of these sources of traffic information.	Before Making a trip					During the trip							
	Never .....	1	2	3	4	5	Never.....	1	2	3	4	5	Very Often
Commercial radio reports		1	2	3	4	5		1	2	3	4	5	
Illinois Department of Transportation (IDOT) radio reports (530 or 1610 kHz)		1	2	3	4	5		1	2	3	4	5	
Telephone traffic services (e.g., *123)		1	2	3	4	5		1	2	3	4	5	
TV traffic reports		1	2	3	4	5		1	2	3	4	5	
Traffic information signs warning of congestion and delays		1	2	3	4	5		1	2	3	4	5	

17. Commercial radio traffic reports	I don't use this source	Never.....	1	2	3	4	5	Very Often
Are a reliable source of traffic information	0		1	2	3	4	5	
Save me travel time	0		1	2	3	4	5	
Reduce my anxiety while traveling	0		1	2	3	4	5	
Lead me to change my route before I start my trip	0		1	2	3	4	5	
Lead me to change my route during my trip	0		1	2	3	4	5	
Cause me to shift my departure time	0		1	2	3	4	5	

18. IDOT radio reports (530 or 1610 kHz a.m.)	I don't use this source	Never.....	1	2	3	4	5	Very Often
Are a reliable source of traffic information	0		1	2	3	4	5	
Save me travel time	0		1	2	3	4	5	
Reduce my anxiety while traveling	0		1	2	3	4	5	
Lead me to change my route before I start my trip	0		1	2	3	4	5	
Lead me to change my route during my trip	0		1	2	3	4	5	
Cause me to shift my departure time	0		1	2	3	4	5	

19. Telephone traffic services (e.g., *123)	I don't use this source	Never.....	.....	.....	.....	.....	Very Often
Are a reliable source of traffic information	0	1	2	3	4	5	
Save me travel time	0	1	2	3	4	5	
Reduce my anxiety while traveling	0	1	2	3	4	5	
Lead me to change my route before I start my trip	0	1	2	3	4	5	
Lead me to change my route during my trip	0	1	2	3	4	5	
Cause me to shift my departure time	0	1	2	3	4	5	

20. TV traffic reports	I don't use this source	Never.....	.....	.....	.....	.....	Very Often
Are a reliable source of traffic information	0	1	2	3	4	5	
Save me travel time	0	1	2	3	4	5	
Reduce my anxiety while traveling	0	1	2	3	4	5	
Lead me to change my route before I start my trip	0	1	2	3	4	5	
Lead me to change my route during my trip	0	1	2	3	4	5	
Cause me to shift my departure time	0	1	2	3	4	5	

21. Traffic information signs warning of congestion & delays	I don't use this source	Never.....	.....	.....	.....	.....	Very Often
Are a reliable source of traffic information	0	1	2	3	4	5	
Save me travel time	0	1	2	3	4	5	
Reduce my anxiety while traveling	0	1	2	3	4	5	
Lead me to change my route before I start my trip	0	1	2	3	4	5	
Lead me to change my route during my trip	0	1	2	3	4	5	
Cause me to shift my departure time	0	1	2	3	4	5	

22. I expect the *ADVANCE* system to

	Strongly Disagree .....				Strongly Agree .....
Distract me from the driving task	1	2	3	4	5
Reduce my level of anxiety while driving	1	2	3	4	5
Help me get to new destinations	1	2	3	4	5
Save me time	1	2	3	4	5
Be useful to me	1	2	3	4	5
Be fun to use	1	2	3	4	5

You must bring this completed questionnaire to the training and vehicle delivery session to get your vehicle.