### **ATTACHMENT B**

## Nanaimo Region E-Mobility Survey 2024



Discovery Research is conducting the mail-in E-Mobility Survey on behalf of the City of Nanaimo. Your feedback will help inform the City's work and support for electric mobility.

Your responses remain completely anonymous and confidential.

Please return your survey in the enclosed postagepaid envelope or complete online via QR code by <u>June</u> <u>26, 2024.</u> Thank you for your help!

**Electric Vehicle (EV) Use and Barriers** 

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Could you rank the top three most used modes of transportation in your daily life? The item ranked #1 should be the most commonly	4. If your household has a licensed motor vehicle, where is the vehicle typically parked?		
used mode. Please write the numbers next to the items.  Personal automobile (including cars, light trucks & vans)  Car share (e.g., Modo)  Transit  School bus  Walk (incl. jogging, wheelchair, mobility scooter)  Bicycle  Personal E-bike (pedal-assist electric bicycle)  E-bike share (Nanaimo's pilot EVOLVE bike share system)  Personal non-electric micromobility device (e.g., kick scooter, skateboard, inline skates, unicycle)  Personal electric micromobility device (e.g., e-kick scooter,	□ 1 In a private driveway or garage □ 2 In a shared or strata/condo parking lot □ 3 In a shared parking structure or parking garage □ 4 On the street □ 5 There are no licensed motor vehicles available in my household □ 6 Other – please specify:  5. If your household has a plug-in hybrid or battery electric vehicle, where is the vehicle primarily charged for daily use? □ 1 At home using my own charger □ 2 At work □ 3 At public DCFC (fast) chargers		
e-skateboard, e-unicycle/mono-wheel) Taxi or rideshare (e.g., AC Taxi, Yellow Cab, URide) Motorcycle or scooter Other – please specify:	<ul> <li>☐ 4 At public level 2 chargers</li> <li>☐ 5 At a shared charger in a residential building (e.g., condo, apartmen building)</li> <li>☐ 6 I do not have a plug-in hybrid or battery electric vehicle</li> <li>☐ 7 Other – please specify:</li> </ul>		
Electric Vehicle (EV) Use and Barriers  2. How many licensed (insured) motor vehicles (including cars, light trucks, vans and motorcycles) are available to the members of your household, including yourself? If there are no licensed motor vehicles, enter zero (0) and go to Q6.	6. If your household does not have a plug-in hybrid or battery electric vehicle, could you rank the top three barriers to your household obtaining an electric vehicle (i.e., plug-in hybrid or battery electric vehicle)? The item ranked #1 should be the greatest barrier. Please write the numbers next to the items.		
Number:  3. How many of the motor vehicles listed above are the following types? (Please ensure that the numbers in this question add up to the number in question 2).  # Hybrid # Plug-in hybrid # Battery electric # Gasoline or Diesel?  # There are no licensed motor vehicles available in my household  □ Prefer not to answer □ Do not know	EVs are too expensive There are no new EVs available at dealerships There are not enough used EVs available I do not think the driving range of an EV can meet my needs There's not enough public charging I cannot install charging at home I do not experience any barriers I am not interested in obtaining an electric vehicle Other – please specify:		

## Electric Vehicle (EV) Use and Barriers

<ul> <li>7. Could you rank the top three beedfits you experience (if you own plug-in hybrid or electric which or have electric whiche, or you expect (if you obtain a plug-in hybrid or electric whiche is the future). The item ranked if should be the greatest benefit. Please write the numbers next to the items.</li></ul>	Electric Vehicle (EV) Use and Barriers	E-micromobility Use and Barriers
Lower fuel costs  Lower repair and maintenance costs Reduced environmental impact Convenience of thanging at home I do not expert any benefits Other – please specify:    Exmicromobility Use and Barriers	in hybrid or battery electric vehicles), or you expect (if you obtain a plug-in hybrid or electric vehicle in the future). The item ranked #1 should be the greatest benefit. Please write the numbers next to the	household, where do you normally park your e-bikes or electric micromobility devices at home?
Lower repair and maintenance costs  Reduced environmental impact Convenience of charging at home I do not experience or expect any benefits Other – please specify:  E-micromobility Use and Barriers  Electric micromobility (e-micromobility) refers to small, lightweight transportation options that are powered in part or wholly by electricity. This survey is focused on the following two calegories of e-micromobility. Electro the following two calegories of e-micromobility. Electro the following two calegories of e-micromobility. Electro these in the following two calegories of e-micromobility. Electro these in the following two calegories of e-micromobility. Electro these in the following two calegories of e-micromobility. Electro these in the repetal essist with a top motor-assisted oped of 25kmh.  Electro blikes that are pedal-assist of whorter-assisted oped of 25kmh and (2) standard e-bitkes that are pedal-assist with a top motor-assisted speed of 25kmh and (2) standard e-bitkes that are pedal-assist of whorter-assisted oped of 25kmh.  E-micromobility devices and electric powered devices, including electric frontel-assisted bicycles that do not need to be pedalled to accelerate.  E-micromobility devices and electric powered devices, including electric frontel-assisted bicycles that do not need to be pedalled to accelerate.  E-micromobility devices and electric powered devices, including electric frontel-assisted bicycles and electric bicycles of the miner and electric micromobility devices such as escotors, e-skateboards, hoverboards? How many electric accessibility devices?  # Adult Elikes (light or standard e-bikes)  # Children's bicycles  # Adult Elikes (light or standard e-bikes)  # Electro incomobility devices (electro-powered devices, including yourself? How many electric micromobility devices (electro-powered devices, including electric frontenations), hoverboards?  # Electro incomobility devices (electric wheelchairs, mobility scotors)  # Electro incomobility devices (electric wheelchairs, mobility scot		
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devices, including electric throttle-assisted bicycles that do not need to be pedalled to accelerate.  12. If you have an e-bike or electric micromobility device in your household, including yourself? How many electric micromobility devices such as e-scooters, e-skateboards, hoverboards? How many electric accessibility devices?  # Adult E-bikes (light or standard e-bikes)  # Adult E-bikes (light or standard e-bikes)  # Children's bicycles  # L		
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such as e-scooters, e-skateboards, hoverboards? How many electric accessibility devices?  # Adult bicycles # Adult bicycles # Children's bicycles # Children's bicycles # E-micromobility devices (e-scooters, e-skateboards, hoverboards) # Electric accessibility devices (electric wheelchairs, mobility scooters)		☐2 1 to 3 km
electric accessibility devices?  # Adult bicycles  # Adult E-bikes (light or standard e-bikes)  # Adult E-bikes (light or standard e-bikes)  # Children's bicycles  # E-micromobility devices (e-scooters, e-skateboards, hoverboards)  # Electric accessibility devices (electric wheelchairs, mobility scooters)    Belectric accessibility devices (electric wheelchairs, mobility scooters)    Not Applicable    9. If you have a bicycle or other non-electric micromobility device (kick scooter, skateboard, inline skates) in your household, could you rank the top three most common purposes for trips by this mode? The item ranked #1 should be the most common purpose. Please write the numbers next to the items.    Commuting to work     Commuting to school     Exercise     Stoot a pplicable, I do not use an e-bike or e-micromobility device or other electric micromobility devices?    1 Yes → Q14     2 No → Q15 [NEXT PAGE]     1 I ready travel by electric bicycle or other electric micromobility Devices → Q15 [NEXT PAGE]     1 I yes → Q14     2 No → Q15 [NEXT PAGE]     1 I yes → Q14     2 No → Q15 [NEXT PAGE]     1 I yes → Q14     2 No → Q15 [NEXT PAGE]     1 I yes → Q14     2 No → Q15 [NEXT PAGE]     1 I yes → Q14     2 No → Q15 [NEXT PAGE]     1 I yes → Q14     2 No → Q15 [NEXT PAGE]     1 I yes → Q14     2 No → Q15 [NEXT PAGE]     1 I yes → Q14     2 No → Q15 [NEXT PAGE]     2 I yes → Q15 [NEXT PAGE]     3 I already travel by electric bicycle or other electric micromobility device or other electric m		□3 4 to 6 km
#Adult bicycles #Adult E-bikes (light or standard e-bikes) #Adult E-bikes (light or standard e-bikes) #Adult E-bikes (light or standard e-bikes) #Children's bicycles #E-micromobility devices (e-scooters, e-skateboards, hoverboards) #Electric accessibility devices (electric wheelchairs, mobility scooters)		☐4 7 to 10 km
#Adult E-bikes (light or standard e-bikes) #Children's bicycles #E-micromobility devices (e-scooters, e-skateboards, hoverboards) #Electric accessibility devices (electric wheelchairs, mobility scooters)	distant discontinuity devices.	□₅ 11 to 15 km
#Children's bicycles #E-micromobility devices (e-scooters, e-skateboards, hoverboards) #Electric accessibility devices (electric wheelchairs, mobility scooters)	# Adult bicycles	☐6 16 to 20 km
# E-micromobility devices (e-scooters, e-skateboards, hoverboards)  # Electric accessibility devices (electric wheelchairs, mobility scooters)    Not Applicable   Not	# Adult E-bikes (light or standard e-bikes)	☐ <sub>7</sub> 21 km or more
# E-micromobility devices (e-scooters, e-skateboards, hoverboards)  # Electric accessibility devices (electric wheelchairs, mobility scooters)    Not Applicable   Not	# Children's bicycles	☐8 Not applicable, I do not use an e-bike or e-micromobility device
#Electric accessibility devices (electric wheelchairs, mobility scooters)    Not Applicable   1 Yes → Q14   2 No → Q15 [NEXT PAGE]	# E-micromobility devices (e-scooters, e-skateboards,	
#Electric accessibility devices (electric wheelchairs, mobility scooters)    Not Applicable	hoverboards)	13. If you have not already done so, have you considered travelling by
Scooters)  Not Applicable  9. If you have a bicycle or other non-electric micromobility device (kick scooter, skateboard, inline skates) in your household, could you rank the top three most common purposes for trips by this mode? The item ranked #1 should be the most common purpose. Please write the numbers next to the items.  Commuting to work Commuting to school Exercise Shopping, appointments, or errands Social or recreational activities (e.g. visiting friends) Escorting a passenger (e.g., dropping a child off at school) Other − please specify: e-micromobility device  11 Yes →Q14 Devices →Q15 [NEXT PAGE]  Devices →Q15 [NEXT PAGE]  14. If you answered yes to Question 13, could you rank what you would expect to be your three most common purposes for trips by e-bike or other e-micromobility device? The item ranked #1 should be the most common. Please write the numbers next to the items.  Commuting to work Commuting to work Commuting to school Exercise Shopping, appointments or errands Social or recreational activities (e.g., visiting friends, visiting a library) Escorting a passenger (e.g., dropping a child off at school) Other − please specify:  Escorting a passenger (e.g., dropping a child off at school) Other − please specify:	# Electric accessibility devices (electric wheelchairs, mobility	
Not Applicable   2 No →Q15 [NEXT PAGE]    9. If you have a bicycle or other <u>non-electric</u> micromobility device (kick scooter, skateboard, inline skates) in your household, could you rank the top three most common purposes for trips by this mode? The item ranked #1 should be the most common purpose. Please write the numbers next to the items.    Commuting to work   Commuting to school   Exercise   Shopping, appointments, or errands   Social or recreational activities (e.g. visiting friends)   Exercise   Shopping a passenger (e.g., dropping a child off at school)   Other − please specify:   Social or recreational activities (e.g., visiting friends, visiting a library)   Escorting a passenger (e.g., dropping a child off at school)   Other − please specify:   Escorting a passenger (e.g., dropping a child off at school)   Other − please specify:   Escorting a passenger (e.g., dropping a child off at school)   Other − please specify:   Escorting a passenger (e.g., dropping a child off at school)   Other − please specify:   Escorting a passenger (e.g., dropping a child off at school)   Other − please specify:   Escorting a passenger (e.g., dropping a child off at school)   Other − please specify:   Escorting a passenger (e.g., dropping a child off at school)   Other − please specify:   Escorting a passenger (e.g., dropping a child off at school)   Other − please specify:   Escorting a passenger (e.g., dropping a child off at school)   Other − please specify:   Escorting a passenger (e.g., dropping a child off at school)   Exercise   Escorting a passenger (e.g., dropping a child off at school)   Escorting a passenger (e.g., dropping a child off at school)   Escorting a passenger (e.g., dropping a child off at school)   Escorting a passenger (e.g., dropping a child off at school)   Escorting a passenger (e.g., dropping a child off at school)   Escorting a passenger (e.g., dropping a child off at school)   Escorting a passenger (e.g., dropping a child off at school)   Escorting a passenger (e.g., dropping a child off	·	□4 Voc →014
9. If you have a bicycle or other non-electric micromobility device (kick scooter, skateboard, inline skates) in your household, could you rank the top three most common purposes for trips by this mode? The item ranked #1 should be the most common purpose. Please write the numbers next to the items.  Commuting to work Commuting to school Exercise Shopping, appointments, or errands Social or recreational activities (e.g. visiting friends) Escorting a passenger (e.g., dropping a child off at school) Other − please specify: Not Applicable, I do not use a bicycle or other non-electric e-micromobility device    Scoring a passenger (e.g., dropping a child off at school) Other − please specify: Secorting a passenger (e.g., dropping a child off at school) Other − please specify: Secorting a passenger (e.g., dropping a child off at school) Other − please specify: Secorting a passenger (e.g., dropping a child off at school) Other − please specify: Secorting a passenger (e.g., dropping a child off at school) Other − please specify: Secorting a passenger (e.g., dropping a child off at school) Other − please specify:	☐ Not Applicable	
(kick scooter, skateboard, inline skates) in your household, could you rank the top three most common purposes for trips by this mode? The item ranked #1 should be the most common purpose. Please write the numbers next to the items.  Commuting to work Commuting to school Exercise Shopping, appointments, or errands Social or recreational activities (e.g. visiting friends) Escorting a passenger (e.g., dropping a child off at school) Other − please specify: Not Applicable, I do not use a bicycle or other non-electric e-micromobility device    Mot Applicable, I do not use a bicycle or other non-electric e-micromobility device   Commuting to work   Commuting to work   Commuting to school     Exercise   Shopping, appointments or errands     Social or recreational activities (e.g., visiting friends, visiting a library)     Escorting a passenger (e.g., dropping a child off at school)     Other − please specify:     Commuting to work     Commuting to recreational activities (e.g., visiting friends, visiting a library)     Escorting a passenger (e.g., dropping a child off at school)     Other − please specify:		12 NO 7 Q IS [NEXT PAGE]
mode? The item ranked #1 should be the most common purpose.  Please write the numbers next to the items.  Commuting to work Commuting to school Exercise Shopping, appointments, or errands Social or recreational activities (e.g. visiting friends) Escorting a passenger (e.g., dropping a child off at school) Other – please specify:  Not Applicable, I do not use a bicycle or other non-electric e-micromobility device  14. If you answered yes to Question 13, could you rank what you would expect to be your three most common purposes for trips by e-bike or other e-micromobility device? The item ranked #1 should be the most common. Please write the numbers next to the items.  Commuting to work Commuting to work Commuting to school Exercise Shopping, appointments or errands Social or recreational activities (e.g., visiting friends, visiting a library) Escorting a passenger (e.g., dropping a child off at school) Other – please specify:  Scotial or recreational activities (e.g., dropping a child off at school) Other – please specify:	(kick scooter, skateboard, inline skates) in your household, could	
Commuting to work Commuting to school Exercise Shopping, appointments, or errands Scorial or recreational activities (e.g. visiting friends) Secorting a passenger (e.g., dropping a child off at school) Other – please specify:  Not Applicable, I do not use a bicycle or other non-electric e-micromobility device  e-micromobility device  e-bike or other e-micromobility device? The item ranked #1 should be the most common. Please write the numbers next to the items.  Commuting to work Commuting to school Exercise Shopping, appointments or errands Social or recreational activities (e.g., visiting friends, visiting a library) Escorting a passenger (e.g., dropping a child off at school) Other – please specify:  Other – please specify:  Other – please specify:  Other – please specify:	mode? The item ranked #1 should be the most common purpose.	
Exercise Commuting to work Shopping, appointments, or errands Commuting to school Social or recreational activities (e.g. visiting friends) Exercise Escorting a passenger (e.g., dropping a child off at school) Shopping, appointments or errands Other – please specify:  Not Applicable, I do not use a bicycle or other non-electric e-micromobility device  Social or recreational activities (e.g., visiting friends, visiting a library) Escorting a passenger (e.g., dropping a child off at school) Other – please specify:  Other – please specify:	Commuting to work	
Shopping, appointments, or errands Social or recreational activities (e.g. visiting friends) Escorting a passenger (e.g., dropping a child off at school) Other – please specify:  Not Applicable, I do not use a bicycle or other non-electric e-micromobility device  Shopping, appointments or errands Social or recreational activities (e.g., visiting friends, visiting a library) Escorting a passenger (e.g., dropping a child off at school) Other – please specify:  Other – please specify:	Commuting to school	be the most common. Please write the numbers next to the items.
Shopping, appointments, or errands Social or recreational activities (e.g. visiting friends) Escorting a passenger (e.g., dropping a child off at school) Other – please specify:  Not Applicable, I do not use a bicycle or other non-electric e-micromobility device  Shopping, appointments or errands Social or recreational activities (e.g., visiting friends, visiting a library) Escorting a passenger (e.g., dropping a child off at school) Other – please specify:  Other – please specify:		Commuting to work
Social or recreational activities (e.g. visiting friends)  Escorting a passenger (e.g., dropping a child off at school)  Other – please specify:  Not Applicable, I do not use a bicycle or other non-electric  e-micromobility device  Exercise  Shopping, appointments or errands  Social or recreational activities (e.g., visiting friends, visiting a library)  Escorting a passenger (e.g., dropping a child off at school)  Other – please specify:  Other – please specify:		
Escorting a passenger (e.g., dropping a child off at school) Other – please specify: Not Applicable, I do not use a bicycle or other non-electric e-micromobility device  Shopping, appointments or errands Social or recreational activities (e.g., visiting friends, visiting a library) Escorting a passenger (e.g., dropping a child off at school) Other – please specify:		
Other – please specify:  Not Applicable, I do not use a bicycle or other non-electric e-micromobility device  Social or recreational activities (e.g., visiting friends, visiting a library) Escorting a passenger (e.g., dropping a child off at school) Other – please specify:		
□ Not Applicable, I do not use a bicycle or other non-electric  e-micromobility device    Iibrary		*** **********************************
e-micromobility device Escorting a passenger (e.g., dropping a child off at school)  Other – please specify:		, ,
Other – please specify:		•,
	<del></del>	
		□ Not Applicable, I did not answer yes to Question 13

-micromobility Use and Barriers	E-mobility solutions
i. If you do not have an e-bike or other micromobility device in your household, could you rank the top three barriers to your household obtaining an e-bike or other electric micromobility device? The item ranked #1 should be the greatest barrier. Please write the numbers next to the items.	What, if anything, would make travel with an e-bike or other electric micromobility devices more appealing than it is today?
E-bikes and e-micromobility devices are too expensive	
I do not feel safe travelling by active transportation modes	
I am not familiar with how to operate an e-bike or e-micromobility	
device	
I am concerned that an e-bike or e-micromobility device is too	
heavy or physically challenging to operate	
There is limited access to safe active transportation routes or	
lanes (e.g., bike paths, shared use paths)	<ol><li>What, if any, would you like the City of Nanaimo to do to support travel by electric vehicles, e-bikes and other electric micromobility</li></ol>
Parking at home is not sufficiently secure	devices?
Parking at home is not the right size or not easy to use	
Parking when away from home is not sufficiently secure	
Parking when away from home is not the right size or easy to use	
I am concerned that an e-bike or e-micromobility device is likely to	
be stolen	
There is limited access to charging away from home (e.g., e-bike	
charging)	
I am concerned about travelling in poor weather I do not experience any barriers	
Other – please specify:	
Could you rank the <u>top three</u> benefits you experience (if you use	About You
n e-bike or e-micromobility device) or you expect (if you would	20. What age range do you belong to?
se an e-bike or e-micromobility device in the future). The item	
Inked #1 should be the greatest benefit. Please write the numbers ext to the items.	1 16 to 18 years old
	□₂ 19 to 24 years old
Able to travel further with an active mode	☐₃ 25 to 34 years old
Able to travel on more difficult terrain (e.g., hills) with an active	4 35 to 44 years old
Mode	□₅ 45 to 54 years old
Able to travel faster with an active mode	☐ <sub>6</sub> 55 to 64 years old
Able to travel without getting sweaty with an active mode	☐≀ 65+ years old
Able to have passengers (e.g., travel with a child)	04 What had described assumed 1, 11, 27, 0
Lower transportation costs Easier parking	21. What best describes your gender identity?
Easier parking Exercise and physical health benefits	□₁ Male
General enjoyment or other mental health benefits	□2 Female
I do not experience or expect benefits	☐₃ Non-binary
Other – please specify:	☐4 Prefer to self describe:
obility solutions	22. Do you live inside the City of Nanaimo?
	☐1 Yes →Q24 [NEXT PAGE]
What, if anything, would make travel with an electric vehicle (i.e.,	
ug-in-hybrid or battery electric vehicle) more appealing than it is	□₂ No
	23. How often are you in the City of Nanaimo? Select all that apply.
	23. How often are you in the City of Nanaimo? Select all that apply.  ☐₁ I work in the City
today?	

# ty solutions anything, would make travel with an e-bike or other electric obility devices more appealing than it is today?

out Vou		

### e range do you belong to? to 18 years old to 24 years old to 34 years old to 44 years old

□ 5 45 to 54 years old
☐6 55 to 64 years old
7 65+ years old

□₁ Male	
□2 Female	
☐3 Non-binary	
☐4 Prefer to self describe:	

☐6 Prefer Not to Say

□₁ Yes →Q24 [NEXT PAGE]
□2 No
How often are you in the City of Nanaim

□1 I work in the City
$\square_2I$ am in the City $\underline{\text{\bf daily}}$ for school, leisure, errands or other activities
$\square_3$ I am in the City <u>at least once a week</u> for school, leisure, errands or other activities
$\square_4 I$ am in the City $\underline{\text{at least once a month}}$ for school, leisure, errands or
other activities
☐ 5 I do not visit the City often

#### 24. Where is your home located? Please provide your postal code: 30. Which best describes your background? Select all that apply ☐2 First Nations, Metis or Inuk (Inuit) □3 South Asian (e.g., East Indian, Pakistani, Sri Lankan) 4 Chinese 25. What is the type of home you live in? ☐5 Black □₁ Single detached house ☐<sub>6</sub> Filipino □2 Semi-detached house (two dwellings attached side by side) □<sub>7</sub> Arab □3 Movable dwelling (e.g., mobile or manufactured home) ☐8 Latin American □9 Southeast Asian (e.g., Vietnamese Cambodian, Laotian, Thai) □4 Other single-attached house □ 10 West Asian (e.g., Iranian, Afghan) □₅ Row house (three or more dwellings joined side by side) □11 Korean ☐6 Apartment, duplex (dwellings located one above the other) □<sub>12</sub> Japanese □<sub>7</sub> Apartment, building that has fewer than five storeys □13 Other – please specify: \_\_\_\_\_ □8 Apartment, building that has more than five storeys ☐ 14 Prefer not to answer 9 Other, please specify: 31. Do you consider yourself to be a person with a disability? 26. Is your place of residence rented or owned by you or by another □ 1 Yes, visible disability person in your household? ☐2 Yes, non-visible or invisible disability □₁ Rented □3 № 2 Owned ☐4 Prefer not to answer ☐3 Other, please specify: 27. Are there one or more children under the age of 18 in the home? WE THANK YOU FOR TAKING THE TIME □1 Yes TO COMPLETE THIS SURVEY! □2 No 28. What is your current employment status? **Contest Entry** ☐₁ Employed full-time (30 hours or more per week) □2 Employed part-time (less than 30 hours per week) ☐3 Stay at home parent **Completed** surveys will be eligible for one of 2 prizes: ☐4 Retired □ 5 In school or training (2) \$150 Gift Card to Grocery Store of Choice □ Unemployed and looking for work □7 Unemployed and not looking for work (unpaid volunteer, disability leave, maternity leave) Name\*: Phone\*: □8 Other, please specify: **Good Luck!** \*Contact information will only be used to contact you if you win a prize. Survey responses will remain anonymous. 29. Please indicate the range which corresponds to your household's total gross income last year (from all sources, before income taxes). □1 Under \$25.000 $\square_2$ \$25.000 - \$49.000 □3 \$50,000 - \$79,000 □<sub>4</sub> \$80,000 - \$124,999 □<sub>5</sub> \$125,000 - \$199,000 $\Box_6$ \$200,000 and over

**About You** 

**About You** 

□<sub>7</sub> Do not know

■8 Prefer not to answer