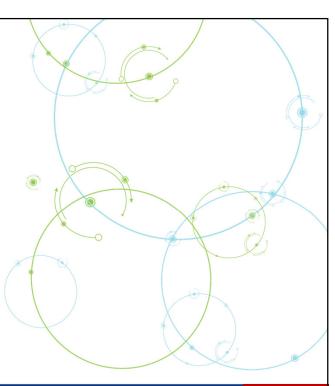


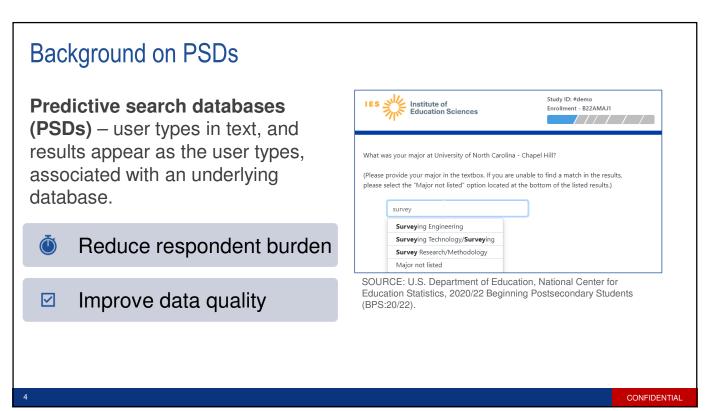
Outline

- Background on address collection and PSDs
- Experian Address API
- o Analysis and results
- Improving survey functionality
- Further recommendations



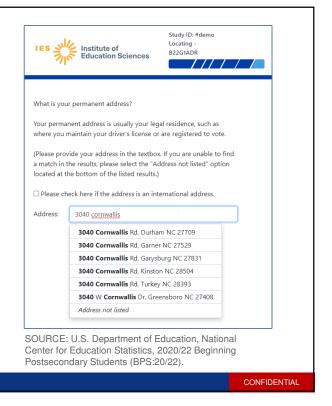
2

<i>lany studies need accurate ddresses for incentive payments nd future locating efforts.</i>	What was your permanent address when you last attended Duke University in the 2019-2020 academic year? Your permanent address is usually your legal residence, such as where you maintain your driver's license or are registered to vot □ Please check here if the address is an international address.
anual entry method:	Street Address: 123 Avenue Apt 101 ZIP Code:
? Imprecise	21P Code: 27707 AutoFill City and State from ZIP Code City:
Increase post-collection data cleaning	Durham State: North Carolina
Undeliverable mailings	Next SOURCE: U.S. Department of Education, National Center for Education Statistics, 2019–20 National Postsecondary Student Aid Study (NPSAS:20).

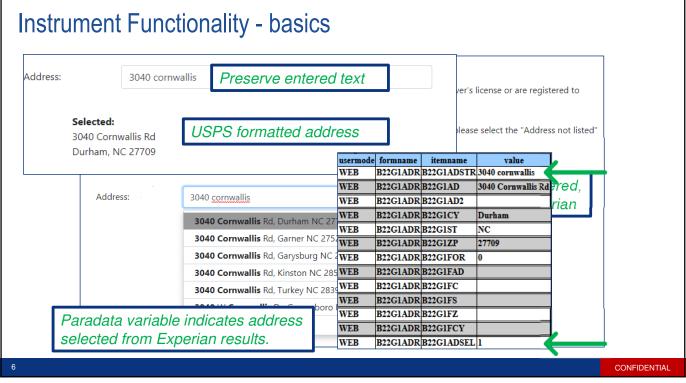


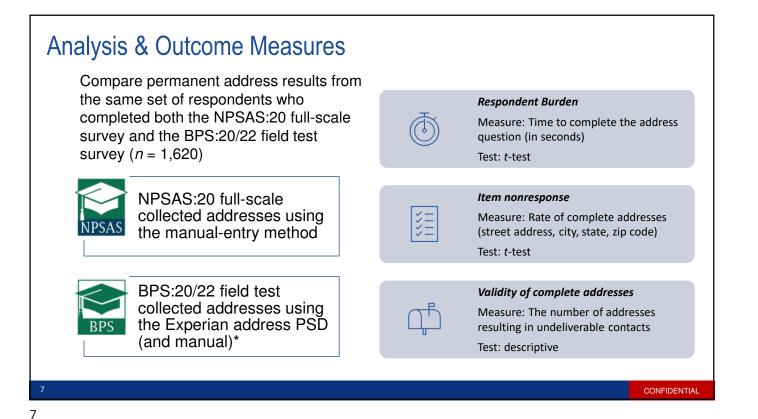
Experian Address Validation API

- How it works: The Experian Address Validation API will use either a partial or complete address to return a list of suggestions. Selecting a suggestion allows the user to then retrieve a well-formatted address.
- Coverage: For the United States -Addresses are accurate to delivery point level (e.g., a single delivery point within an apartment building, block of flats or high rise).
- For more information: <u>https://docs.experianaperture.io/address-validation/experian-address-validation</u>



5





Analysis Cases

2020/22 Beginning Postsecondary Students Field Test Experian Address Analysis Cases: 2021

	Number of cases	Percent
Total	2240	100
Analysis Cases	1620	72.3
Excluded from analysis	620	27.7
NPSAS:20 nonrespondent	340	15.1
Permanent address timing outlier	250	10.9
NPSAS:20 completed in Spanish	20	0.7
Partial interview	10	0.6
Coded foreign permanent address	10	0.3

NOTE: Detail may not sum to totals because of rounding.

SOURCE: U.S. Department of Education, National Center for Education Statistics, 2020/22 Beginning Postsecondary Students (BPS:20/22) Field Test, and 2019-20 National Postsecondary Student Aid Study (NPSAS:20).

Mode of administration, by study 1800 Telephone Telephone 1600 1400 Web Web 1200 mobile mobile 1000 800 600 Web Web 400 onmobile onmobile 200 0 BPS:20/22 FT

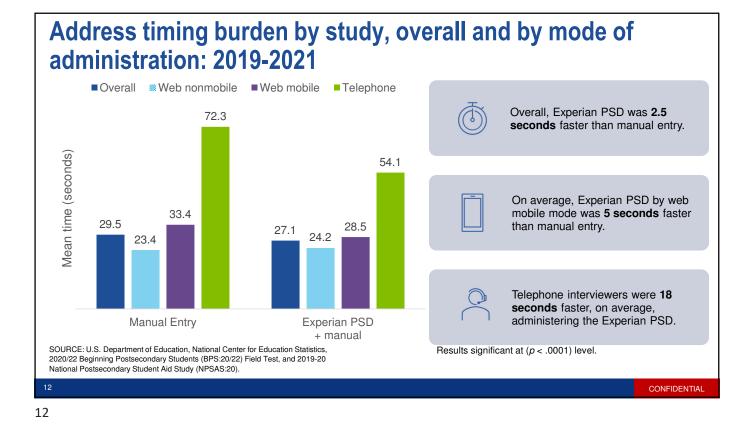
NPSAS:20 (Manual entry)

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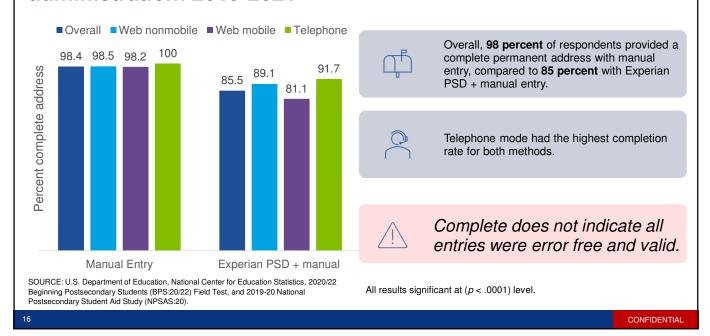
(Experian PSD +

manual)

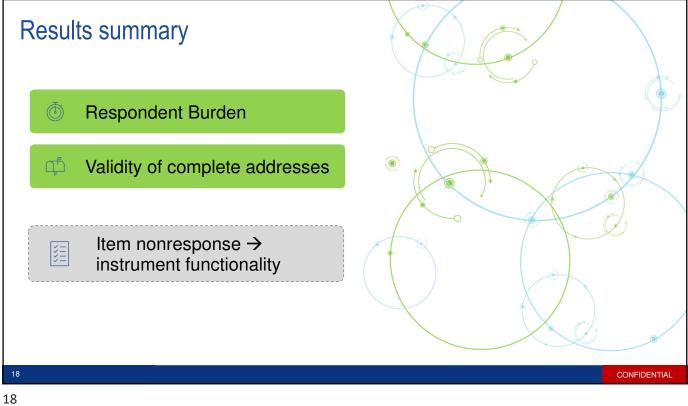
8



Address completion rate by study, overall and by mode of administration: 2019-2021



١	Validity c	of Complete Addresses	
	<u>_!</u>	Resulting from the manual entry method in NPSAS:20, 1.2 percent of all BPS eligible respondents ($n = 32,120$) check addresses were considered "undeliverable".	j -
		This means ~380 addresses required manual review/editing by staff.	
		BPS:20/22 field test did not obtain any "undeliverable" addresses.	
		All addresses obtained from the Experian database are complete and accurat This reduces labor costs associated with staff resolving "undeliverable" check addresses (i.e., check sent back because not a valid address).	
17			CONFIDENTIAL
17			



Instru	ment Fun	ctionality – NR conversion	
	What is your perm	nanent address?	
	Your permanent a vote.	ddress is usually your legal residence, such as where you maintain your driver's license or are registered to	
		our address in the textbox. If you are unable to find a match in the results, please select the "Address not listed" the bottom of the listed results.)	
	Please check he	ere if the address is an international address.	
	Address:	No text entered	
		Next	
10			
¹⁹			CONFIDENTIAL

Instrument Fu	Inctiona	ality – NR co	nversion		
	We would like to	get in touch with you again in three years	. Please consider providing your address.	Conversio	on text
	What is your permanent address? Your permanent address is usually your legal residence, such as where you maintain your driver's license or are registered to vote.				
	(Please provide your address in the textbox. If you are unable to find a match in the results, please select the "Address not listed" option located at the bottom of the listed results.)				
	Street Address:				
			Manual entry]	
	City:				
	State:	-Select one-			
	ZIP Code:				
20					CONFIDENTIAL

What is your peri	manent address?	
Your permanent a vote.	address is usually your legal residence, such as where you maintain your driver's license or are registe	red to
	our address in the textbox. If you are unable to find a match in the results, please select the "Address : the bottom of the listed results.)	not listed"
Please check h	ere if the address is an international address.	
Address:	1302 shepherd	
	1302 Shepherd Rd, Anderson IN 46012	
	1302 Shepherd Ln, Cincinnati OH 45215	
	1302 Shepherd St, Cumberland KY 40823	
	1302 Shepherd St, Durham NC 27707	
	1302 Shepherd Rd, Frankfort OH 45628	
	1302 Shepherd Dr, Franklin TN 37069	
	1302 Shepherd Pl, Galax VA 24333	
	Address not listed Im Not found	

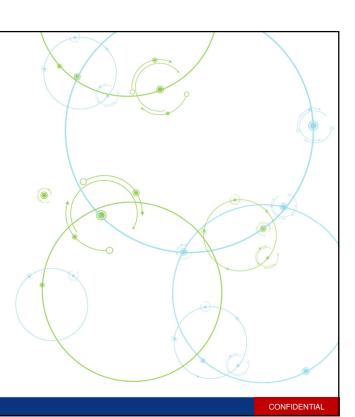
strument Functionality – data	validations
A complete address does not indicate all Soft checks	entries were error free and valid when manually entered. Hard checks
Please confirm	You must correct the following \times
You provided information for address line 2, but did not provide a street address. Is that correct?	Please enter a valid 5-digit ZIP code.
Change answer Keep answer and continue	You must correct the following ×
You did not provide a ZIP code. Is that correct?	Please enter a valid city.
Change answer Keep answer and continue	
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Recommendations for implementing

- For the best performance and greatest user experience:
 - Use a combination of Experian API + manual entry (for when address not found, or foreign addresses).
 - Minimize the number of interactions between your website and the API (e.g., search after *x* of characters entered, or after a period of inactivity).
 - Make sure that you delete / over-ride any previous searches captured from the user's input.
 - Prevent browser auto-fill pop up, as this can cover up suggestions or input incorrect data.
 - Make sure it is clear to users that more suggestions are available, they just need to continue to type to refine the search.

Future research...

- Our CATI rates were low how much does an address PSD, like Experian, reduce telephone interviewer burden?
- What populations/studies do these PSDs work best for? Any populations/studies to which a PSD is not appropriate?



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