

NISS

Future Plans

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Continuing Threads

- Conditionals and marginals
- Perturbation methods
- Secure DI
 - Vertically partitioned regressions
 - More general analyses
 - GLM
 - GAM
- Safe analyses as opposed to any form of data dissemination

New Threads

- Account for the effects of record linkage
 - Incorporate associated uncertainties into statistical analyses
- Tradeoffs between/among SDL strategies
 - Category aggregation vs. marginals
- Inference-based criteria for evaluating tabular releases
 - Log-linear models
 - Introduces “transparency risk”

New Threads

- Effects of DC on data mining
 - Characterize effects of SDL on DM
 - Characterize extent to which DM can defeat SDL
 - Example: Can DM detect swapped records?
 - Develop abstractions for disclosure risk from DM
 - Inferential disclosure +: relationships in the data
 - Determine whether DM is inherently more threatening to DC or a different kind of threat

Example: CPS8D

Confidence for Salary Given Age

	<25	25-55	>55
<\$50K	0.99	.71	.71
>=\$50K	.01	.29	.29

Before
swapping

	<25	25-55	>55
<\$50K	.93	.72	.73
>=\$50K	.07	.28	.27

After swapping
Age @ 5%

New Threads

- Effects of DQ on data mining
 - Develop useful DQ metrics, and use them to characterize effects of DQ on DM
 - Determine whether anomalous data are more likely to be wrong (evidence is that wrong data are anomalous)
 - Use DM to detect or ameliorate DQ problems
- Deal with compounding effects of DC
 - Poor DQ protects DC
 - Perceived lack of DC decreases DQ

What's Available?



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Name:	KARR, ALAN FRANCIS
County Name:	ORANGE
Status:	ACTIVE
City:	CHAPEL HILL NC 27516
Race:	WHITE
Ethnicity:	NOT HISPANIC or NOT LATINO
Gender:	Male
Party:	



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Smith, John R.

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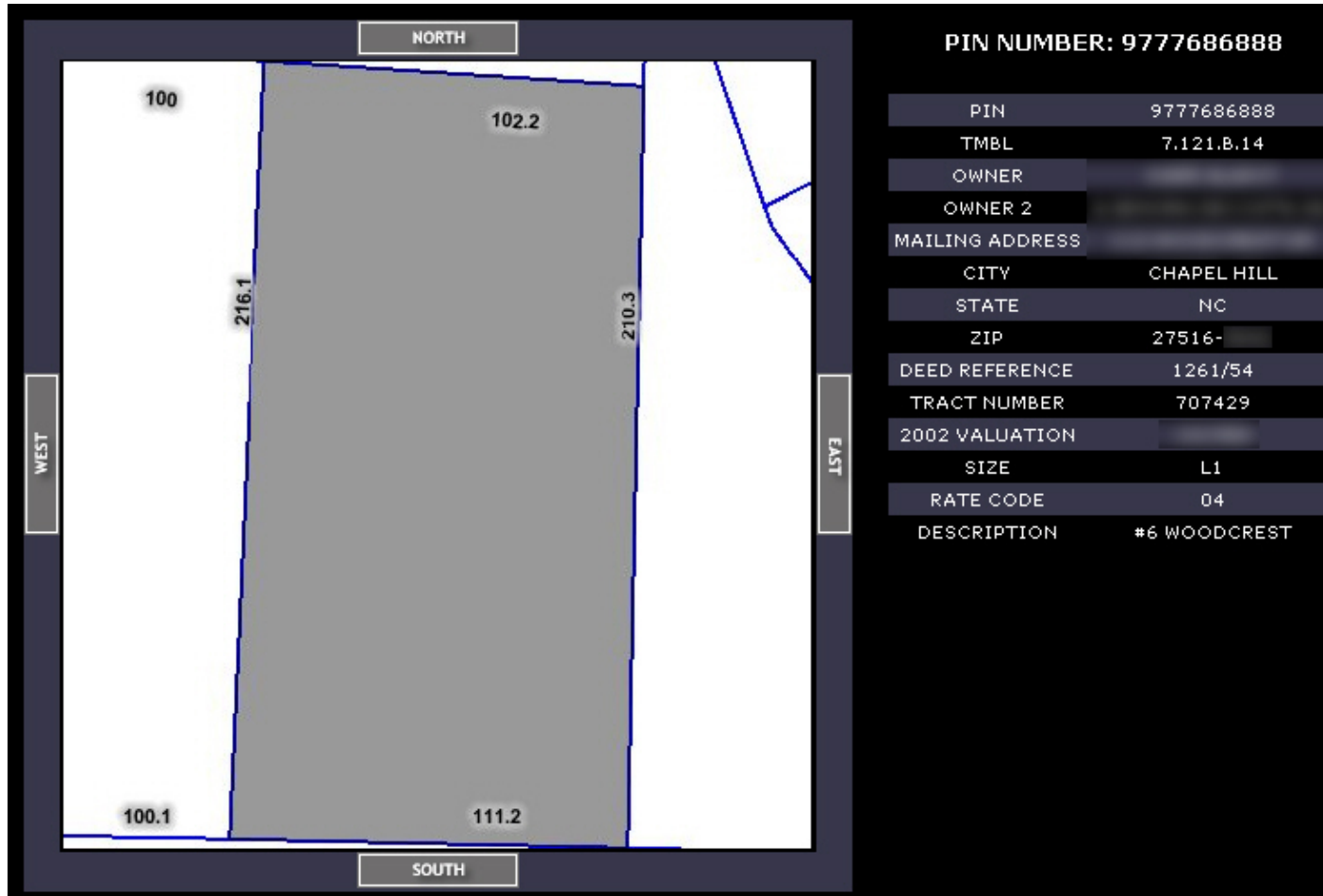
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27516

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OWNER 2	
MAILING ADDRESS	
CITY	CHAPEL HILL
STATE	NC
ZIP	27516-
DEED REFERENCE	1261/54
TRACT NUMBER	707429
2002 VALUATION	
SIZE	L1
RATE CODE	04
DESCRIPTION	#6 WOODCREST

Thank You!