



Panel
**Computational Reproducibility
in the Context of
Geospatial Research and Education**

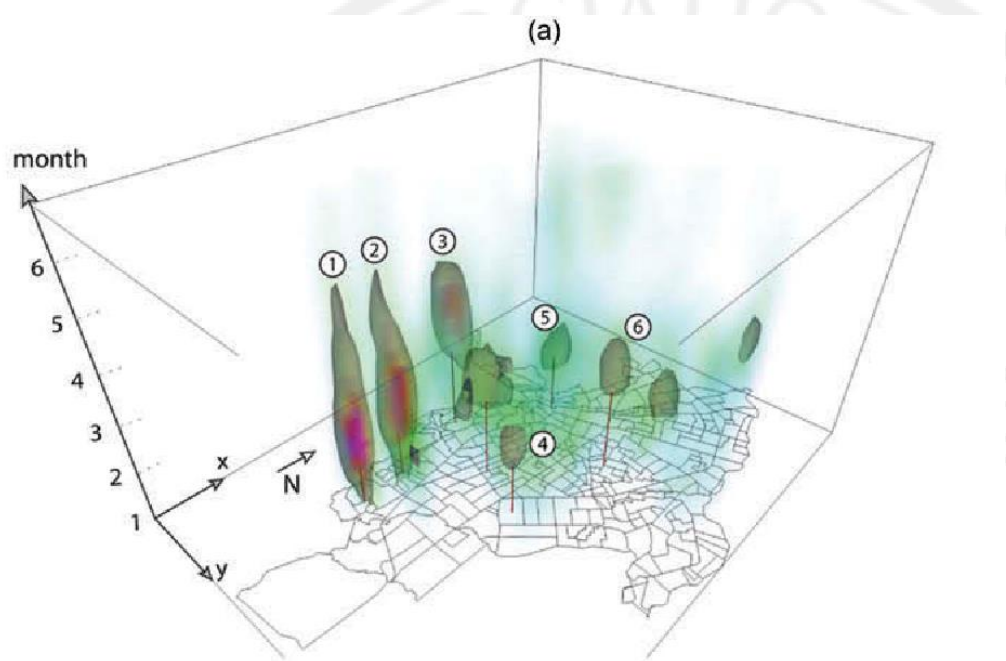
Conceptualization of a National
Geospatial Software Institute (3rd Workshop)

July 16, 2019

Annapolis, MD

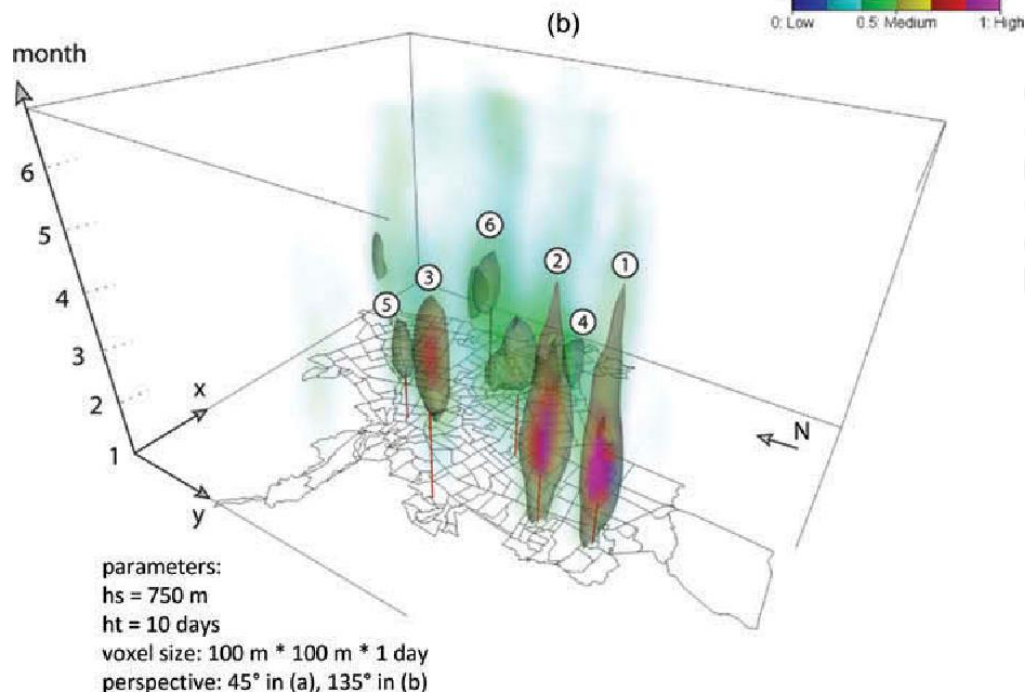
Is there a Reproducibility Crisis ?

- ... in Geography?
 - Yes.
 - Is Geography Special? Yes.
 - Data are often **made** spatial, and combined with other spatial data. This step alone is hard to reproduce.
 - Decisions throughout the research process are supported by geovisualization, which is difficult to document.
 - Confidentiality of data particularly risky when geospatial
 - Reproducing maps is difficult.



Space-Time Kernel Density Value

0: Low 0.5: Medium 1: High



Beattie's Ford

LOVE GREAT SUPER WATER
PARTIES GRILL KIDS
CLEAN
NICE PAD PARK
PLACE FUN SAFE HERE

Mallard Creek Rec. Center

SIT DIRECTOR GOING LOVE SENIOR
STUPID AREAS SAFETY REC
GYM
WE TIRE TOOK NEXT TOP TIME PLAY TEENS
BROTHER COULDN'T TOOK CENTER EVEN

Martin L. King

SHELTER AREA SWINGS TWO
LOT STAYS ANOTHER DISKS
SMALL
BIG BENCH KID TABLE
SEE TYPES STAYS FOOD FEET

Charlotte Nature Museum

BAD BUTTERFLY NICE DISPLAY ANIMAL
THINK KIDS COOL REALLY LIKE PER
PLAY
GO
AREA NATURE PLACE ENJOYS

Tuckaseegee

PLACE GREAT PARK WELL PEOPLE
AREA ONE LAST
PLAY
FEEL TEAMS GAMES RUGBY
FIELD STATES REALLY HERE VERY

Westerly Hills

CHILD NEED HAPPENS UPDATE
MUCH
PLACE WRONG ADDRESS

The Green

SMALL NAMES CHARLOTTE ART UPTOWN
RELAX TAKE WIG
CITY
NICE WORLD
LOVE PARK

Ramblewood

COURT FIELD NICE
UP
TRASH
LOT BRIDGE ENTRANCE

Tuscarora's Country Club

SYDNEY BOARDING
JOB EACH
HAPPY
RECEIVED EXCELLENT

Crown Cove RV

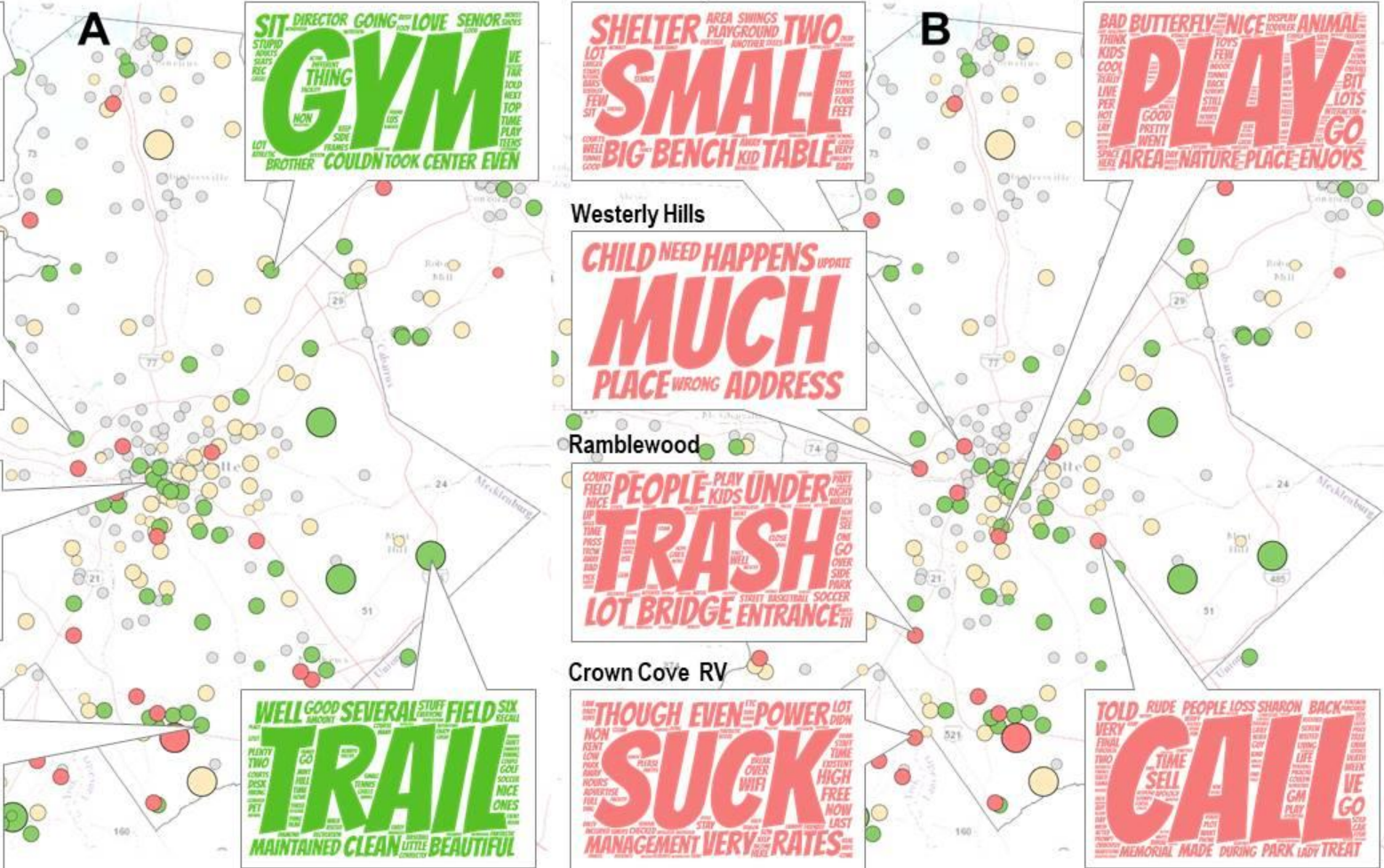
THOUGH EVEN POWER LOT DIDN
NOW REST LOW
SUCK
MANAGEMENT VERY RATES

TOLD RUDE PEOPLE LOSS SHARON BACK
VERY FINAL
CALL
MEMORIAL MADE DURING PARK LADY TREAT

Mint Hill Memorial

WELL GOOD SEVERAL START FIELD SIX REGAL
MAYBE TWO GO
TRAIL
MAINTAINED CLEAN LITTLE BEAUTIFUL

Sharon Memorial



Can we address this with Software?

- Yes.
 - We will need a “messy” phase in which the goal is to learn practices and needs in terms of reproducibility in geography research and education
 - Collaboration will be key
 - Inclusivity will be key

Thank you !

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