PROJECT SIDEWALK
Assessing Urban Accessibility using Crowdsourcing and Google Street View

MANASWI SAHA
Computer Science PhD Student
30.6 million

U.S. adults have a mobility impairment

Source: US Census, 2010
15.2 million use an assistive aid

Source: US Census, 2010
SURFACE PROBLEMS
Accessible infrastructure has a significant impact on the independence and mobility of citizens

[Thapar et al., 2004; Nuernberger, 2008]
The problem is that there are few mechanisms to determine accessible areas of a city *a priori*
The National Council on Disability noted that there is **no comprehensive information** on “the degree to which sidewalks are accessible” in cities.

*National Council on Disability, 2007*

The impact of the Americans with Disabilities Act: Assessing the progress toward achieving the goals of the ADA
OUR VISION

Design systems that transform the way accessibility information is collected and used.
We are pursuing a **two-fold solution**
To develop scalable methods that mine massive repositories of online map imagery to identify accessibility problems semi-automatically.
To create new accessibility-aware mapping tools that support people with disabilities and provide unprecedented views of urban accessibility.
Let's create a path for everyone

How you can help

Virtually explore city streets to find and label accessibility issues in three easy steps—right from the comfort of your home.
Audit 1000ft of Fort Stanton

Your mission is to audit 1000ft of Fort Stanton and find all the accessibility features that affect mobility impaired travelers!
PROJECT SIDEWALK CONTRIBUTIONS

554 USERS

486 MILES

68,647 LABELS
WHAT WE WANT TO ACCOMPLISH

In the immediate future
Build amazing accessibility-aware tools

Cover 100% of DC

Integrate automated methods for labeling data

Continue to make the tool AWESOME! 😊
TEAM

PROFESSORS

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GRAD STUDENTS

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HIGH SCHOOL STUDENTS

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...AND GROWING
Let’s Contribute!

http://projectsidewalk.io
Thank you!
Feel free to contact us or contribute!

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