Dockless Bikeshare and/or Scootershare in Clackamas County

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Ray's Bikeshare Planning Background

- Capital Bikeshare Planner (consultant) for Arlington County, VA and Montgomery County, MD from 2016-17
  - Presented at 2017 North American Bikeshare Association Conference
  - Coordinated with dockless bikeshare companies as they expanded
- Co-Founder & Vice President of Bike PSU from 2014-16
  - Participated in Portland Biketown (bikeshare) planning meetings
- Transportation Planning Intern at Toole Design Group in 2014
  - Main project was launching Philadelphia's Indego (bikeshare)
- Outreach Intern at Charlotte B-cycle (bikeshare) in 2013
- Co-Founder & President of Cyclists Club at UNC Charlotte from 2009-13
  - Represented students on bikeshare planning committee

Weaknesses of CCC's Bike Rental Program

- Pedal-powered bikes
- Renters responsible for repairs & preventing theft
- Transportation Office staff are not always available

What is dockless bikeshare?

- ## Dock-based vs. dockless bikeshare
  - Dock-based bikeshare requires docks and stations
  - Dockless bikeshare does not use docks or stations

Dock-Based Bikeshare
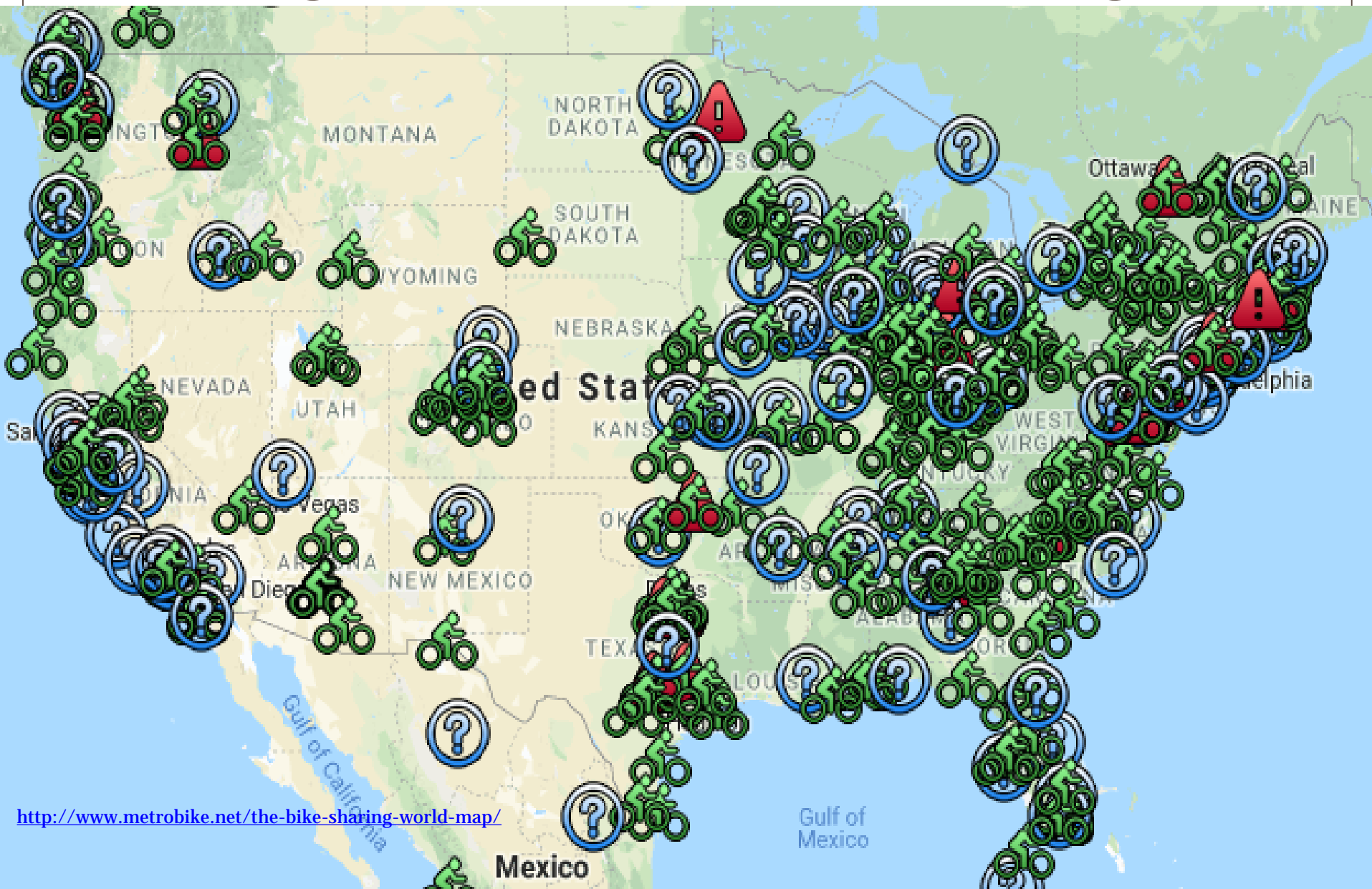
Dockless Bikeshare

What is dockless scootershare?
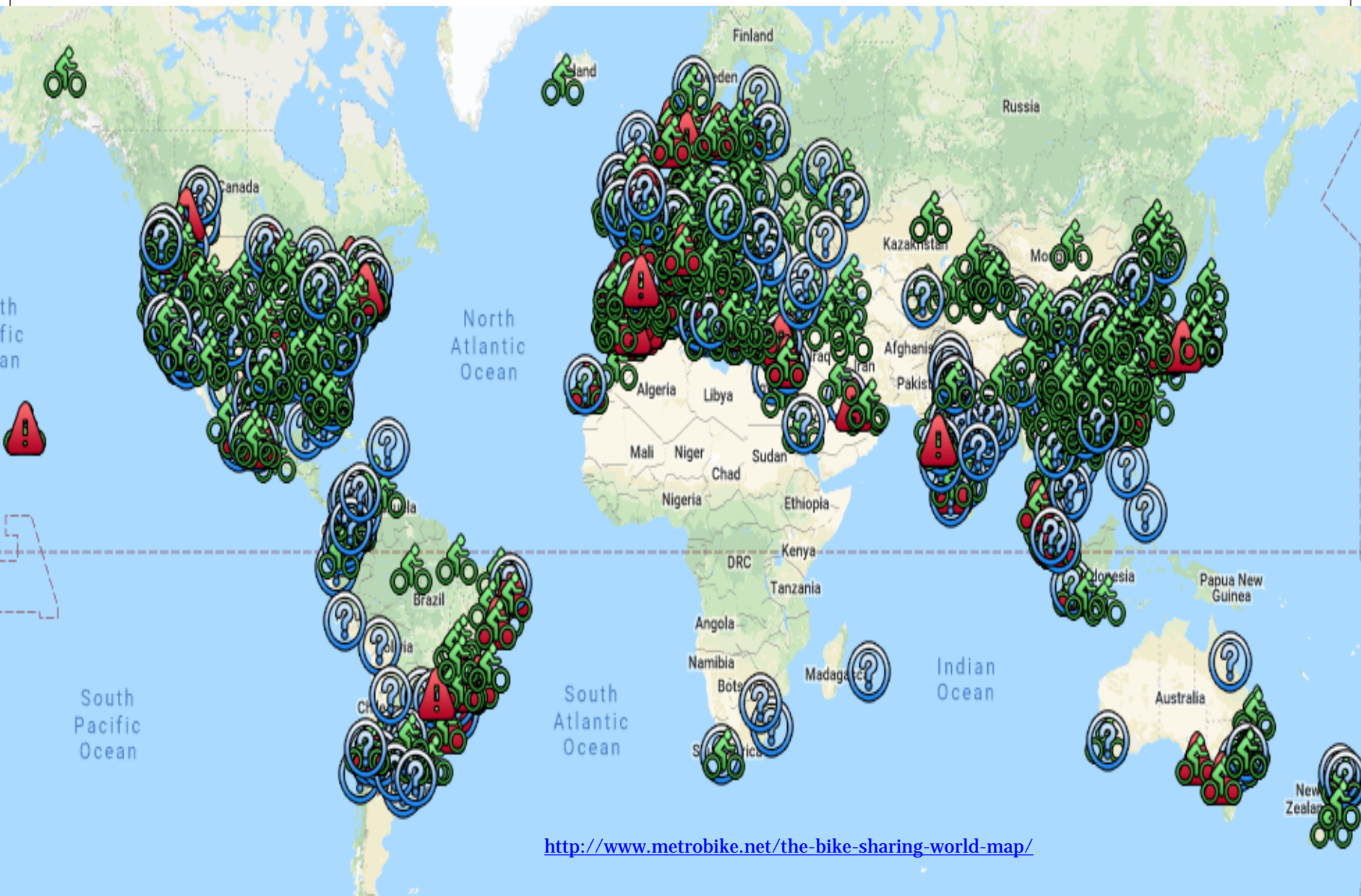
- Dockless scootershare
  - Does not use docks or stations

https://techcrunch.com/2018/12/12/scoot-unveils-new-lock-to-prevent-scooter-theft/

Existing and Planned Bikeshare Programs

http://www.metrobike.net/the-bike-sharing-world-map/

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Grant Funding

- Metro's Partnerships and Innovative Learning Opportunities in Transportation (PILOT) program
  - $150,000 (total) for one-time grants
    - Application due February 1. Project funded July 2019-June 2021.
- ODOT's Transportation Options Innovation Grant
  - $50,000/project in one-time grants
    - Letter of Interest due February 8, 2019
- Metro's Regional Travel Options (RTO) Infrastructure & Innovation grants
  - $350,000 available each fiscal year (2019-21)
    - Application due March 31
    - Project begin July 2019 and must end by June 2020

City of Milwaukie's Letter of Interest

- Clackamas Community College is partner
- Clackamas County, Cities of Milwaukie, Oregon City and West Linn have expressed interest
  - Service area limit to be determined
    - Service area can be expanded
- Project is focused on resolving first- and last-mile transportation issues
  - Promote transfer between TriMet and bikeshare/scootershare
  - Equity lens to be used
    - Most existing bikeshare/scootershare users are white, male and wealthy

Ride Report Bike Stress Map

https://ride.report/portland
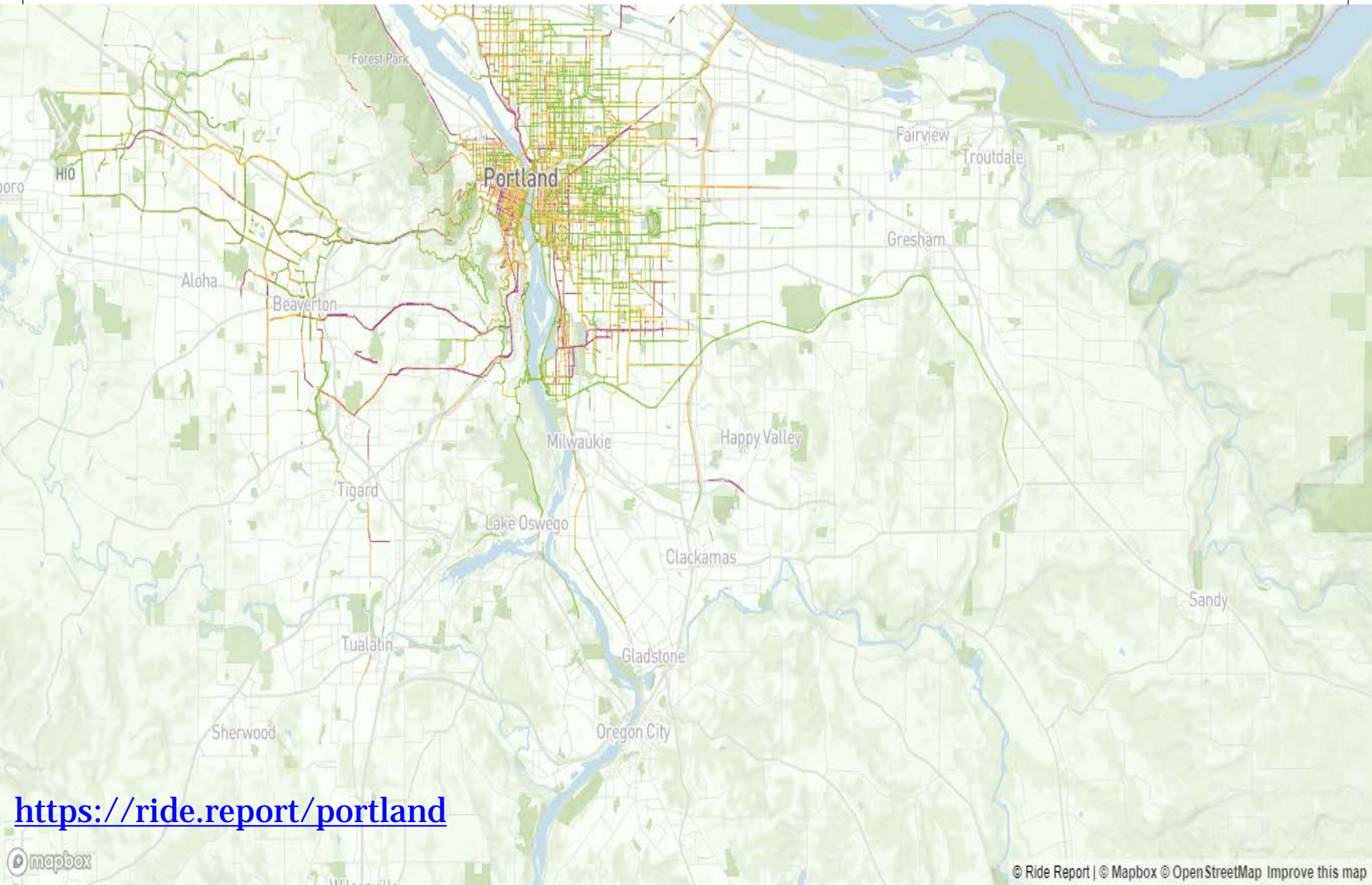
Benefits of Bikeshare/Scootershare

BENEFITS OF BIKE SHARE

Health

Riding a bike is good for you: people who cycle for 30 minutes, 5X a week, take half as many sick days as those who don't.

50%

3 hours of biking per week can reduce the risk of heart disease and stroke by 50%!

Planet

Bike share is the most environmentally friendly form of transit – no pollution, just fresh air and big smiles.

.82

.82 fewer pounds of CO2 enters the atmosphere for every mile pedaled rather than driven.

Economy

Bike share has a positive impact on the local economy. Every bike share trip produces $7 in local economic activity.

66%

66% of riders use bike share to travel to destinations where they will spend money.

Transit

Bike share complements existing forms of public transportation, working to create a comprehensive network of transit options.

40%

Percentage of bike share users who reported driving less due to biking.

Why consumers love bike share

fun — Turns commuting into a daily adventure	Improves vitality and fitness — **healthy**	
easy — Quick & convenient way to get around town	Shared experiences with friends — **social**	
green — Promotes clean & sustainable transit	Stop & shop: drives local commerce — **local**	
engaging — Fosters pride in community	Ideal way for visitors to explore — **friendly**	

Potential Issues

- Parking concerns
  - Dockless bikeshare
  - Dockless scootershare
- Equity of users
  - Users are typically white, male and wealthy
- Credit card only
  - Does operator accept cash or can TriMet's Hop card be used?
- Locate bikes/scooters without app
  - Can operator send users text message with bike/scooter location near users?

Resolving Parking Issues

Our approach to smart parking

- Educate users on legal bike parking;
- In-app instructions on how & where best to park;
- Geo-fence existing legal parking areas;
- Reward riders for parking properly;
- Partner with cities to develop more bike-friendly parking;
- Operations teams respond to parking concerns.

Available Bikes

P Recommended Parking Spots
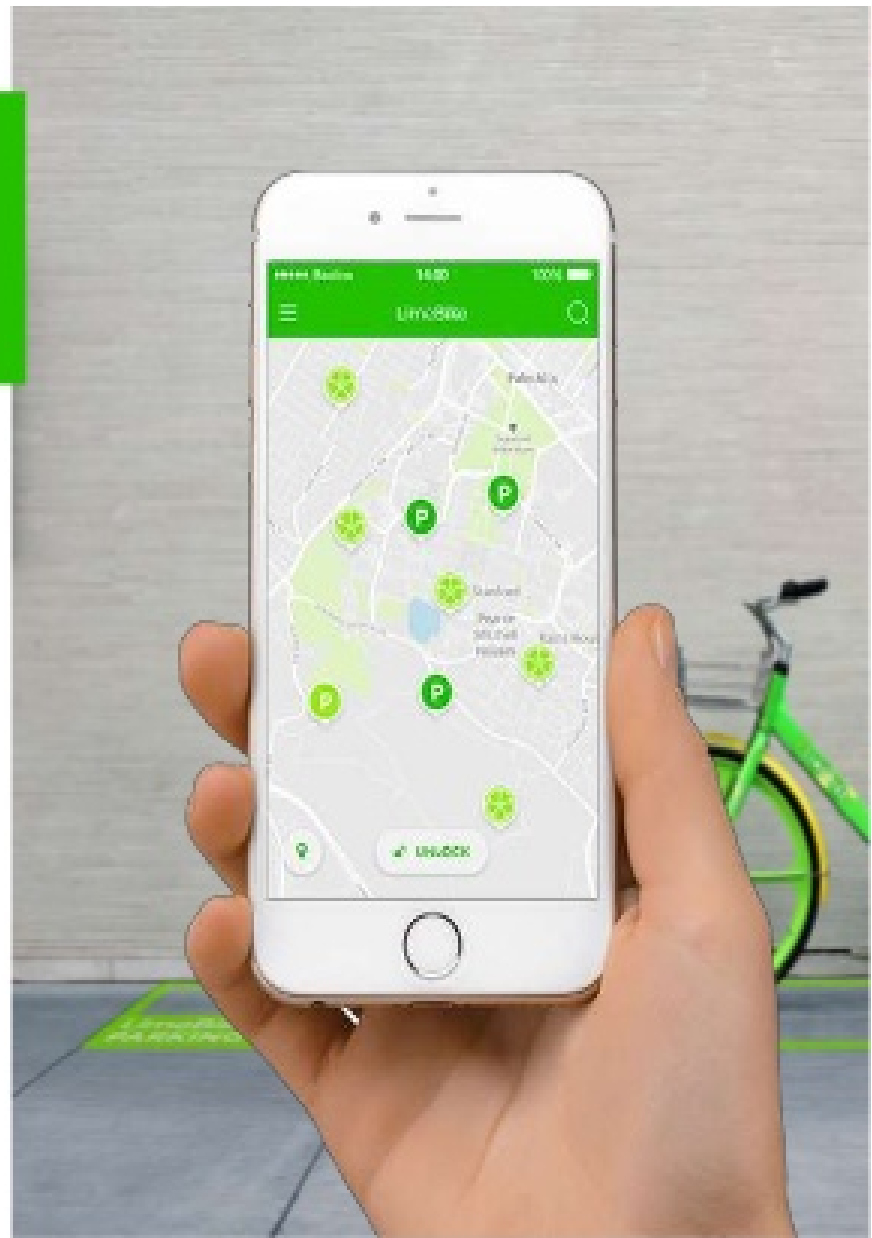
Resolving Parking Issues

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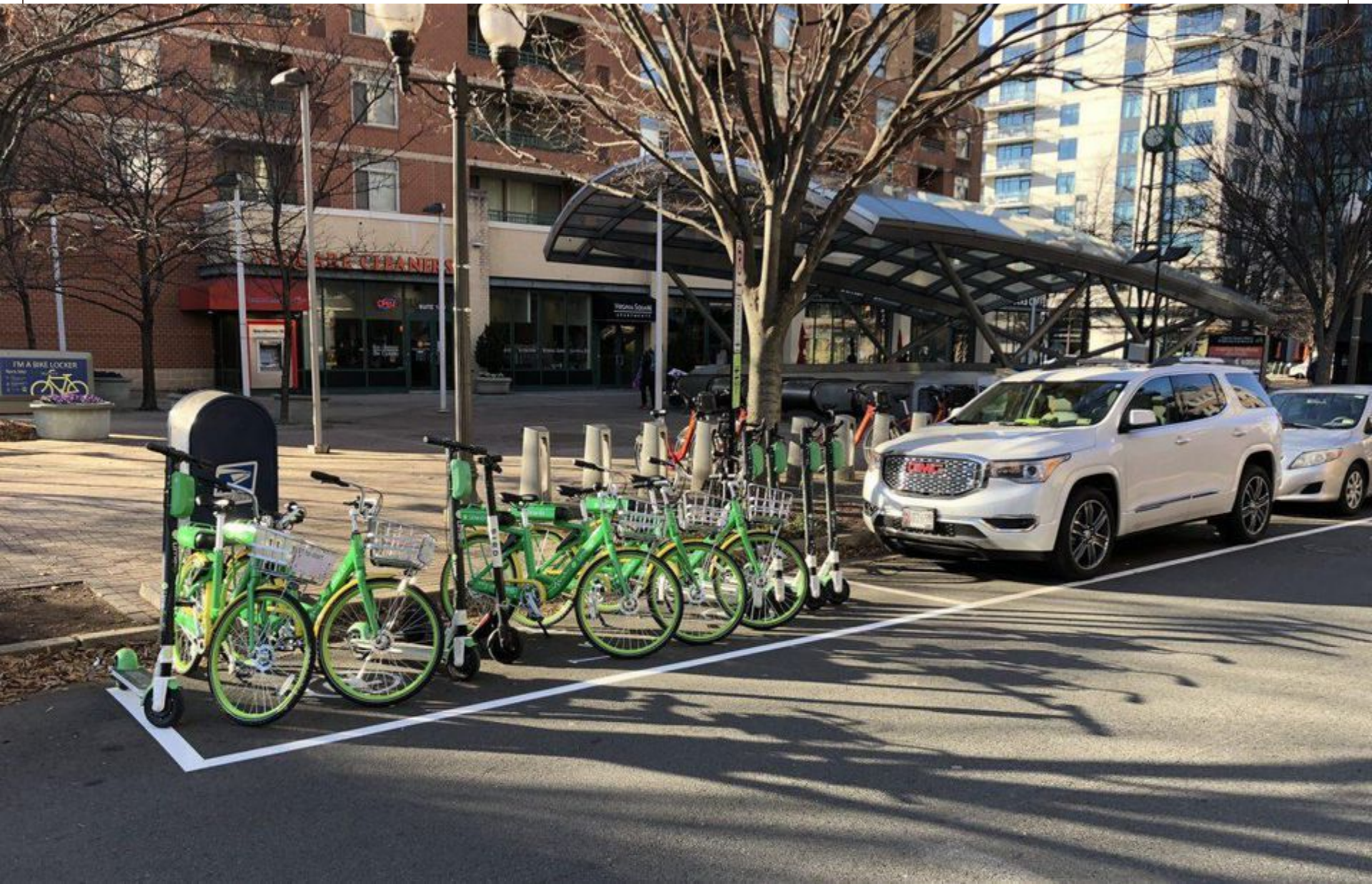
Resolving Parking Issues

Resolving Parking Issues

Creating Regulations and Permit Programs

REGULATION BREAKDOWN

Data Collection by Riley O'Neil & Brandon Bordenkircher

Regulations & Requirements	St. Louis, MO (Pilot)	Portland, OR (2012 Contract)	Washington DC (Pilot)	Seattle, WA (Pilot)	Charlotte, NC (Pilot)	San Francisco, CA (Pilot)	Dallas, TX (Pilot)	Houston, TX (Pre-Pilot)	Los Angeles, CA (Pilot)	New York City, NY (Pre-Pilot)
OPERATIONS & MAINTENANCE										
City Has Rights of Removal/ Prepared for Termination	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES
Dockless Vendors Incur All Liability & Fees	YES	YES	YES	YES	YES	YES	N/A	YES	YES	YES
Accessible Contact Info on Bikes & City Website	YES	YES	YES	YES	YES	YES	N/A	YES	YES	YES
Detailed Bike Maintenance Requirement	YES	YES	YES	YES	YES	YES	N/A	YES	YES	YES
ETHICAL STANDARDS & DATA LAWS										
Equity Requirement for Undeserved Neighborhoods	YES	YES	YES	YES	N/A	YES	N/A	YES	YES	YES
Dockless Service Must be Multilingual	N/A	N/A	N/A	N/A	N/A	YES	N/A	N/A	N/A	YES
Must Provide Non-Smart Phone Option	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	YES
ADA Adherence	YES	YES	YES	N/A	N/A	YES	N/A	N/A	YES	YES
ADA Mobility Options	YES	YES	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Data Sharing	YES	N/A	YES	YES	YES	YES	N/A	YES	YES	YES
FLEET SIZE, REBALANCING, & PARKING										
Allowed Initial Fleet of 500 Bikes or More	YES	N/A	N/A	YES	N/A	YES	YES	YES	N/A	N/A
Fleet Phasing Strategy	YES	N/A	N/A	N/A	YES	N/A	N/A	N/A	YES	YES
Designated Hours for Rebalancing & Maintenance of Public Right-of-Way	YES	N/A	YES	YES	YES	YES	N/A	YES	YES	YES
Bikes Must Be Parked Upright	YES	YES	N/A	YES	YES	YES	N/A	YES	YES	YES
Suggestions for "Corral" Installation or a "Hub Centric Model"	N/A	YES	N/A	N/A	N/A	N/A	N/A	N/A	N/A	YES
Set Geofence Boundaries	YES	YES	YES	YES	N/A	N/A	N/A	YES	YES	YES
SAFETY										
Dockless Vendors Required to Educate Users	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES
Insurance Coverage & Set Reimbursement Cap	YES	N/A	YES	YES	YES	YES	YES	YES	YES	YES
Helmet Law	N/A	YES	YES	YES	YES	YES	N/A	N/A	YES	YES
Gamification Requirement to Give Riders Incentive for GoodBehavior	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	YES

https://nabsa.net/wp-content/uploads/2017/09/Dockless-Bike-Regulation-Breakdown-12-Tone-Consulting-1.pdf

Twelve Tone Consulting info@twelvetoneconsulting.com

Process to Launch Bikeshare/Scootershare

- Grant funding
  - Feasibility of bikeshare and/or scootershare
    - Public outreach
    - Service area
- County, Cities and CCC create regulations and permit programs
  - Public outreach
  - Request for Proposals
- Contract to launch bikeshare and/or scootershare
  - Public outreach

Discussion

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Links

- https://www.cnet.com/videos/the-newest-lime-scooters-beef-up-for-safety-at-ces-2019/

- https://techcrunch.com/2018/12/12/scoot-unveils-new-lock-to-prevent-scooter-theft/

- https://transweb.sjsu.edu/sites/default/files/1713-WP2-Scooter-Parking.pdf

- https://www.theverge.com/platform/amp/2018/12/18/18144582/uber-jump-new-electric-bike-bikeshare-micromobility

- https://research.populus.ai/reports/Populus_MeasuringAccess_2018-Nov.pdf