

Team Spot-U

Elliot Raderman, Logan Mirka,
Grant Cothrel, Alex Clark

Meet the team...

Elliot Raderman

- Industrial Design
- Artistic and driven

Logan Mirka

- Computer Engineering
- Tech-savvy and detail-oriented

Grant Cothrel

- Biomedical Engineering
- Focused and organized

Alex Clark

- Electrical Engineering
- Analytical and logical

Conjecture Pathway

Original Problem:
Lack of parking

• Research:

- Student Survey
- Contact with UCPD
- Residential Focus Group
- Misc. Internet Research



Reframing the Problem:
People lack convenient
accessibility to
destinations

- Public transport is underutilized
- Free parking and lack of enforcement encourages improper parking
- New developments are bringing even more cars



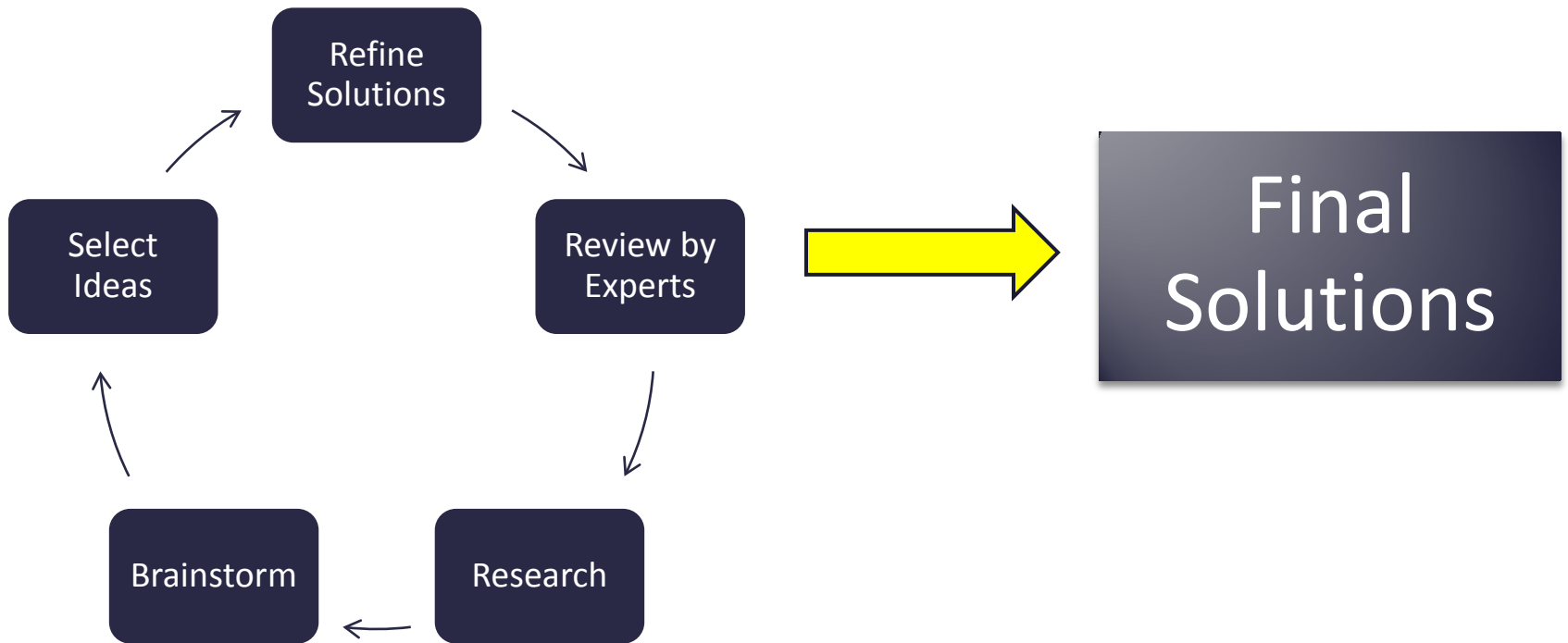
Working towards a
solution:

Decrease people's
reliance on personal
motor vehicles

Efficient vehicle storage

- Multi-space meters
- Residential Permit Parking
- Long Term Parking
- Promotion of public transport
- Digital citation delivery
- On campus housing

Preliminary Solutions become Final Solutions



Final Solutions- An Overview

1. Multi-space meter parking
2. Residential permit parking
3. Long-term parking
4. Park n' Ride
5. METRO
6. Zipcars

1. The “Box”

- Pay-and-Display multi-space meter
- One meter manages several spaces
- Dynamic pricing control
- Pay by:
 - Cash/Coin
 - Credit/Debit Cards
 - Phone App
 - Pay with your phone
 - Find empty spots



Image by Dwight Burdette

Case Study: Multi-Space Meters

- Seattle Case Study
 - “Pay-and-Display”
 - Easy to pay
 - Less sidewalk clutter
- Aspen, Colorado, “one pay station is used to provide coverage for an entire block face.”
- Toronto added +1,000 meters
 - 30-40% increase parking revenue

2. Residential Permit Parking (RPP)

- Buying a permit for a vehicle reserves a space on the street during the day, weekdays.

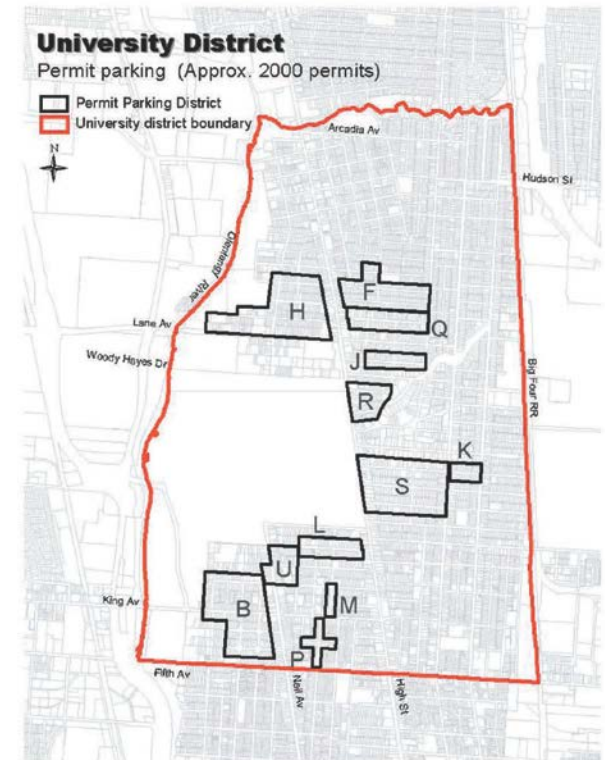
Requirements:

- Vehicle must be registered in Hamilton County
- Annual Fee
- Communication with box
 - Via phone

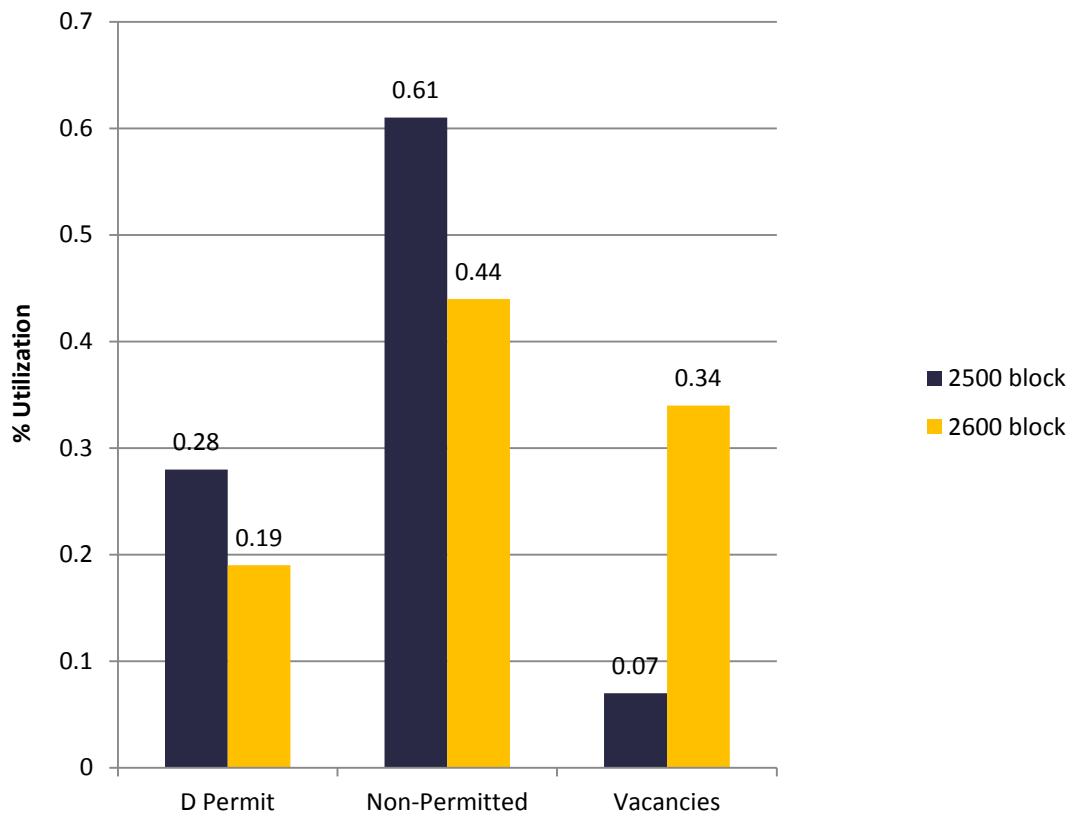


Case Study: Residential Parking Permit

- Seattle Case Study
 - Appropriate where parking “congestion” is an effect of a nearby school or other institution.
- OSU Case Study
 - RPP program with no limit on permits sold- problem persists



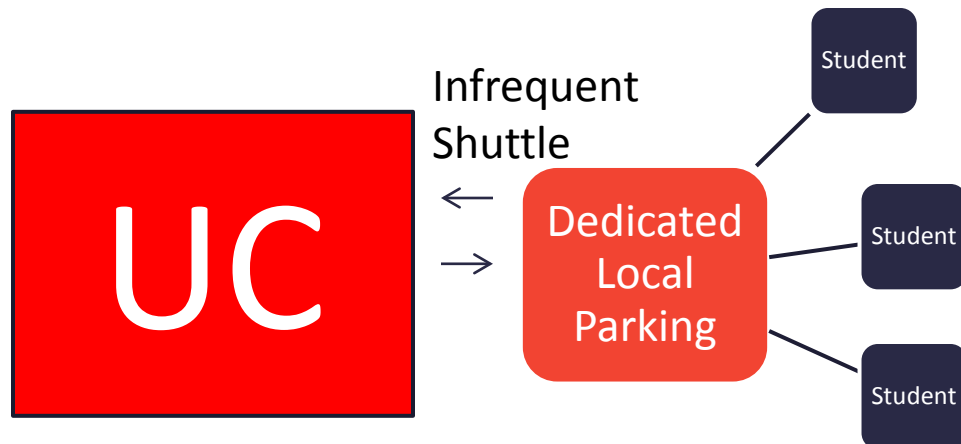
RPP cont'd



- Berkeley Case Study
 - RPP program with limit on permits sold through registration requirements

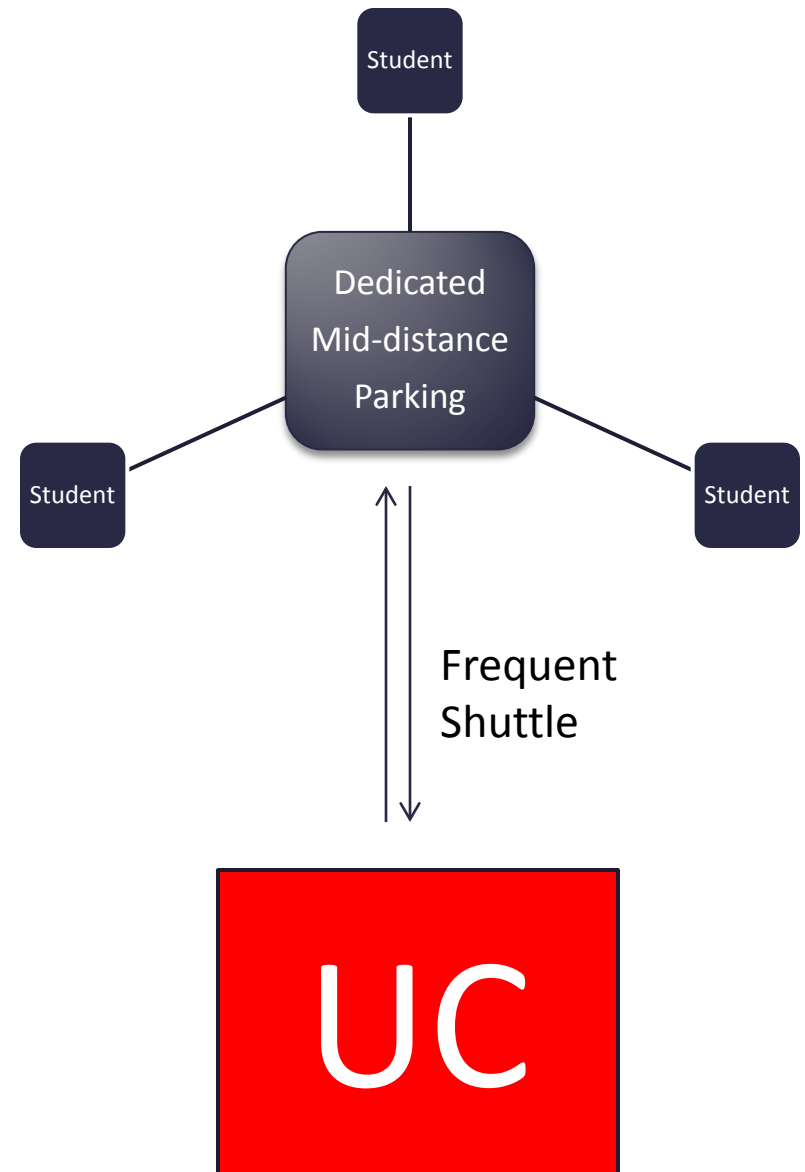
3. Long Term Parking (Storage)

- Off-site location for (mostly) students
- Shuttle service takes students to campus after parking
- Shuttle upon request
- Low rates, with a usage cost associated with each pickup
- Incentive
 - Coupons



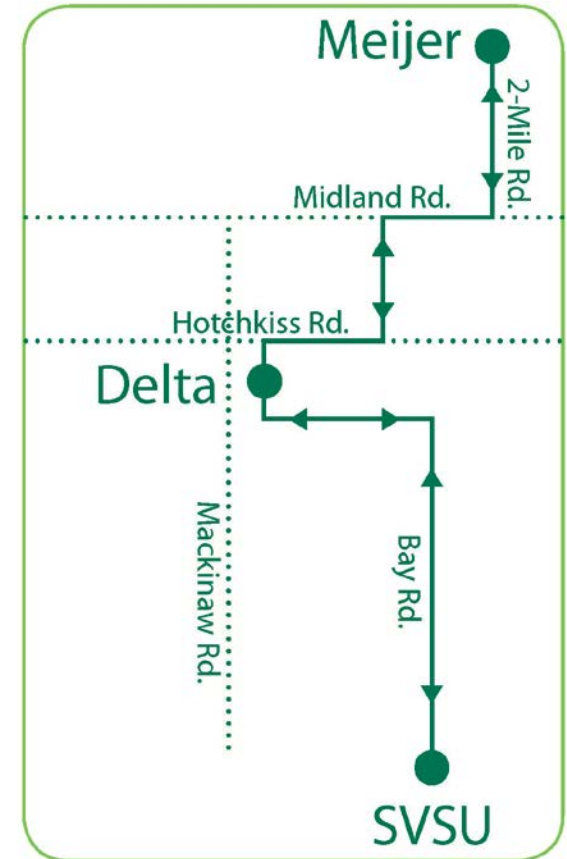
4. Park n' Ride

- Commuters can park in predetermined locations near campus for free
- Shuttle provides direct route to campus and back
- Runs all day
- Incentive
 - Rewards punch card



Case Study: Park n' Ride

- Saginaw, Michigan
 - Meijer parking lot
 - Shuttle takes students from lot to campus
 - Riders entered into raffle



5. Metro Bus System

- Widespread routes run throughout greater Cincinnati
- Operates 4 a.m. to 1:30 a.m. every day of the year
- Proposal:
- Passes for the City of Cincinnati would be provided with cost of tuition
 - Unlimited use within Zone 1 for students



6. Zipcars

- Affordable car-sharing solution
- \$7/ hour rental, \$25 annual fee
- Implement more at and around UC
- Partner with apartment complexes



Effects of Solutions

- Drivers discouraged from bringing a car
- People will park more appropriately
 - Local garages become more utilized
 - Apartment-dwellers park in designated lot
 - Those qualified purchase permits will
- More available parking
- Facilitated transport