CIDOT

Creating a Mobility, Parking and Economic Ecosystem

TECH TALK

IDEASWORTH**SPREADING**

Keith Hutchings, Municipal Parking Department. Director, City of Detroit

Solving the urban puzzle: How do we make it easier to interact in the urban environment?



Critical Parking Segments

On & Off-Street Parking – Stage One in progress









Residential Parking – Stage Two Complete

Curbside – Stage Three In Progress





An easy and convenient way to pay for parking in Detroit

On-Street Parking System

- Multi-space kiosks
- Zone base parking
- License plate recognition
- Smartphone Parking Application
- Online adjudication







Residential Parking

- License plate virtual permits
- Consistent real-time LPR enforcement
- Zone type flexibility
- Shared parking
- Real-time visitor and rental car permit activation
- Care Giver permits





Planning the project

- Define the problem
- Identify the key stakeholders and develop the strategy
- Select technology with the end in mind
- Create a scenario that is a win for all stakeholders
- Identify vendors that are successfully executing what you want to accomplish
- Ensure the organization can maintain operational integrity
- Figure out the politics before starting



Create an ecosystem that integrates all platforms and data

• Transportation to move people & goods

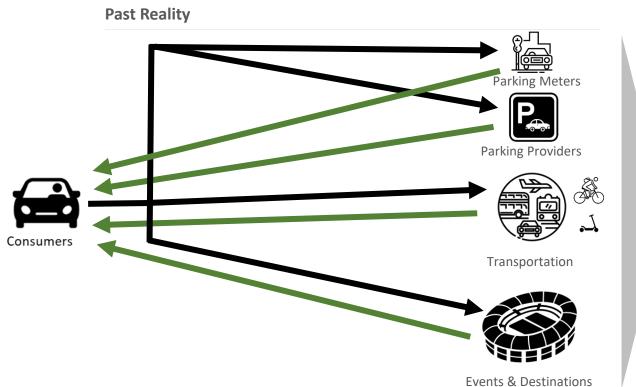
• Economic development & tax base promotion

• Attracting people to work, play, and live

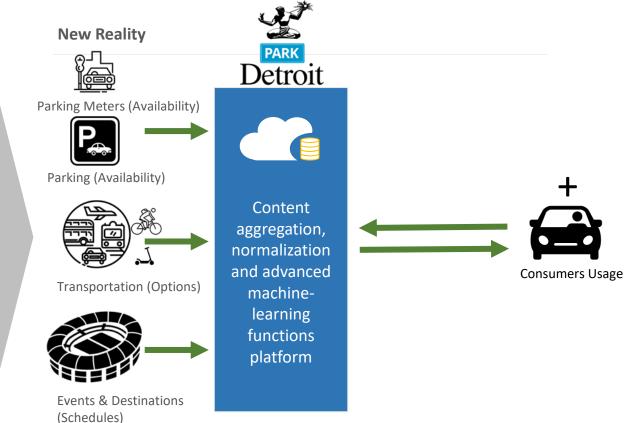
• Parking is the anchor for all activity



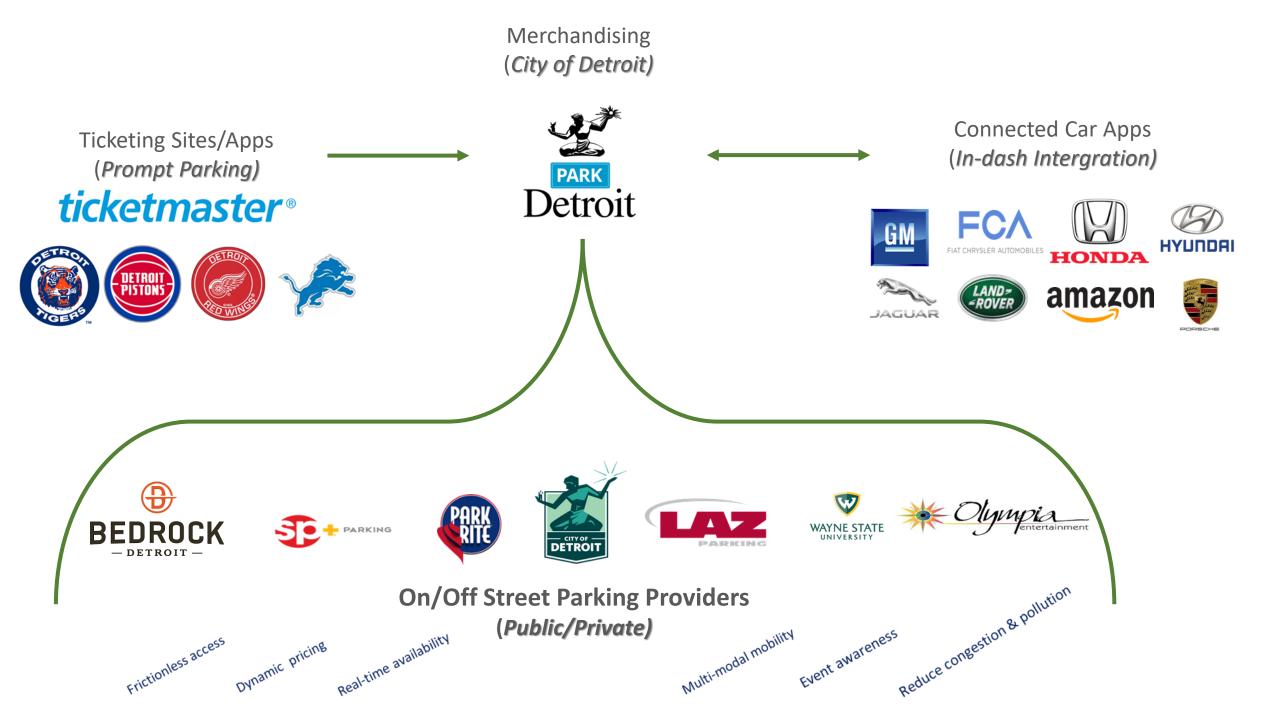
WHAT HAVE WE DONE? Unification of real-time parking, transportation, and event information



• Each segment supplies single domain information to consumers, parking providers, transportation providers, and events promoters via a direct relationship



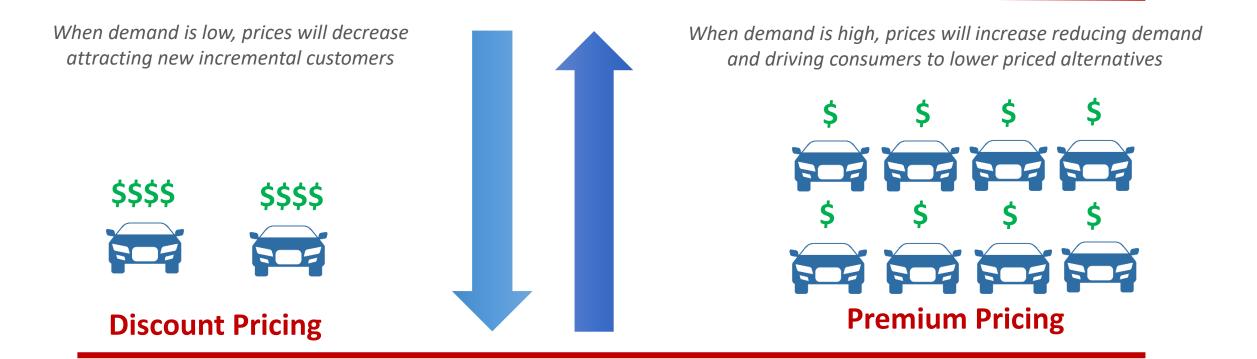
 Content platform will aggregate and normalize content from various suppliers (data-fusion) and supply a comprehensive content stream and advanced functions of real-time information



ParkDetroit will improve lives of consumers **by providing information** to make better decisions

3 *Our value proposition* to residents and **Improve traffic Foster economic Find parking** Locate safe visitors of Detroit: conditions by easier and premium parking development quicker by having by taking steering cars through perks visibility into onadvantage of the away from program and by congestion areas and off-street dynamic pricing incentivizing model, and and managing parking users to park availability in one parking at noncongestion flow close to local platform peak hours businesses Enabled by... **Essential for** *Our value proposition* **Receive overall increased revenue** as a result of higher utilization through feasibility of to parking providers: attracting more customers and optimizing prices ParkDetroit

ParkDetroit will maximize revenues by *fluctuating pricing* at key times to *manage congestion*



The parking provider controls all pricing decisions in this dynamic pricing model

Benefits of ParkDetroit

- More convenient parking
- Turn by Turn navigation
- Enhanced consumer experience
- Promotion of multiple economic transactions
- Increased parking revenue and economic growth
- Greater metropolitan event and attraction awareness
- Improved event, parking, and transportation integration
- Reduced traffic congestion and environmental pollution
- Maximized smart city data gathering and integration



flowbird.

Prime Contractor: Parking Application Payment Way-Finding Website Detroit People Mover Integration

OUUNE

Subgroup: Garage/Lot Integration Event Listing



Subgroup: Mobility Integration



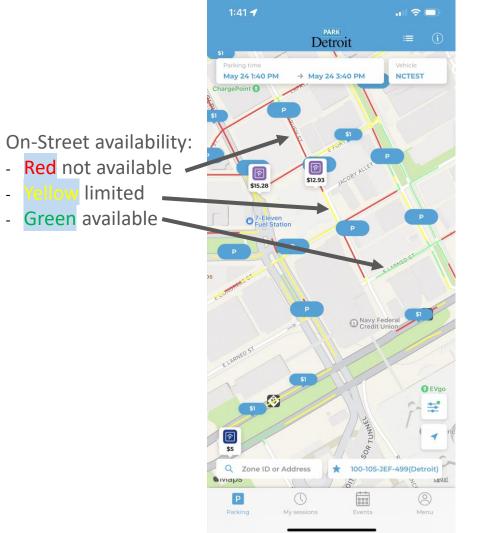
Subgroup: On-street Occupancy & Cameras

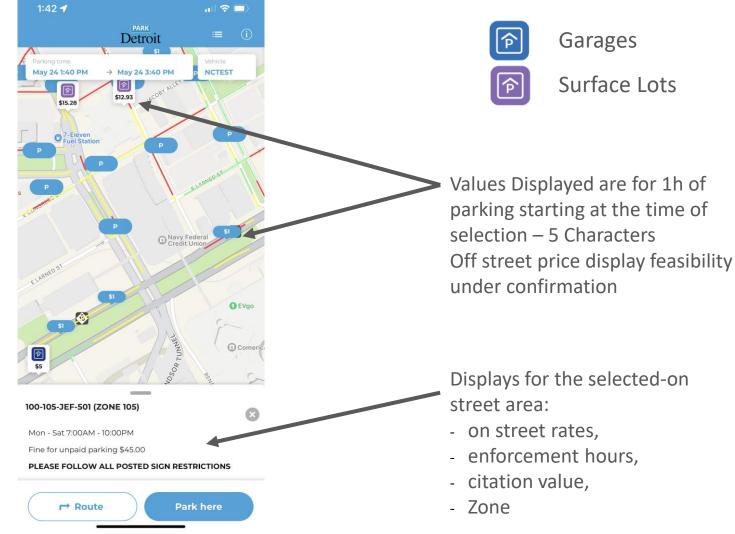


Vendor Partners

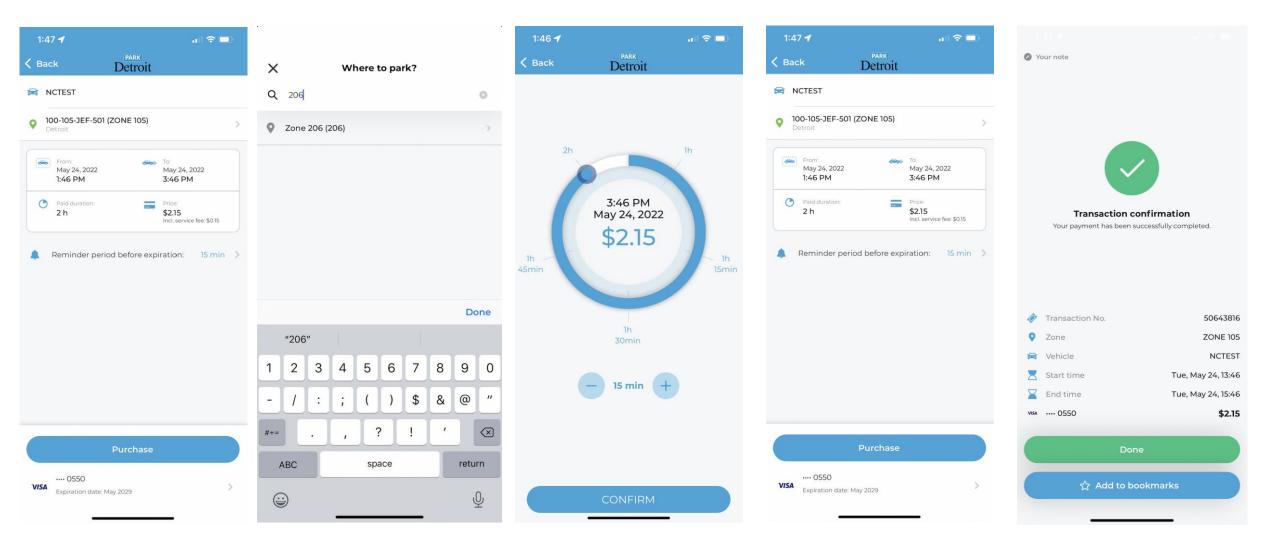


On/Off Street Mapping



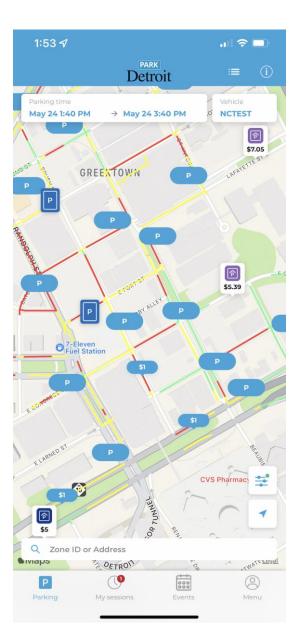


On Street Zone – Location and Time Selection & Payment





Off Street Rate & Duration Selection





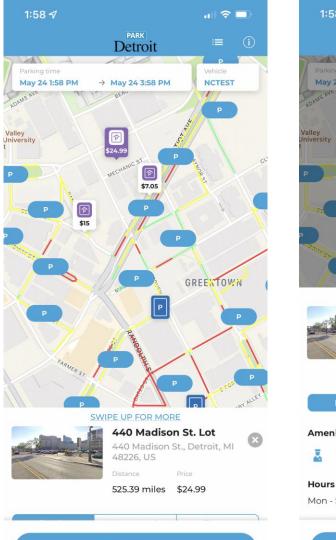
Thu May 26

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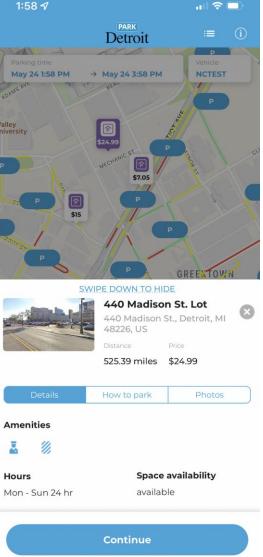
Notes :

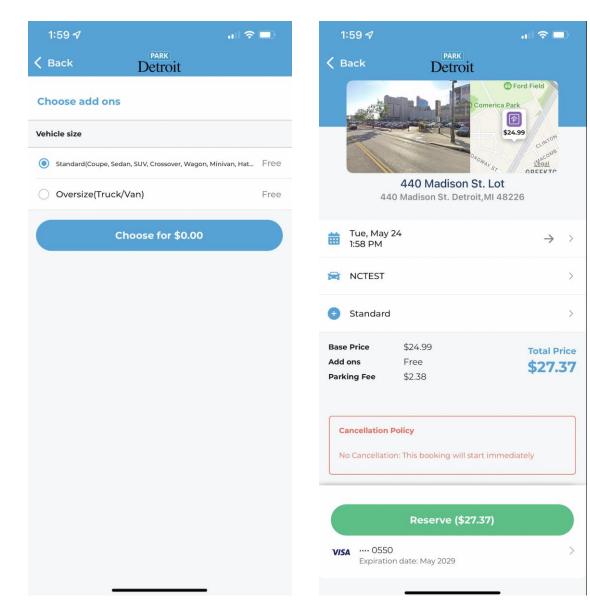
 On street rates will not be updated with the time selection (only applicable to off-street and off-street rules differs from on street rules) *on-street occupancy filter not activated

Off Street Site & Parking Confirmation

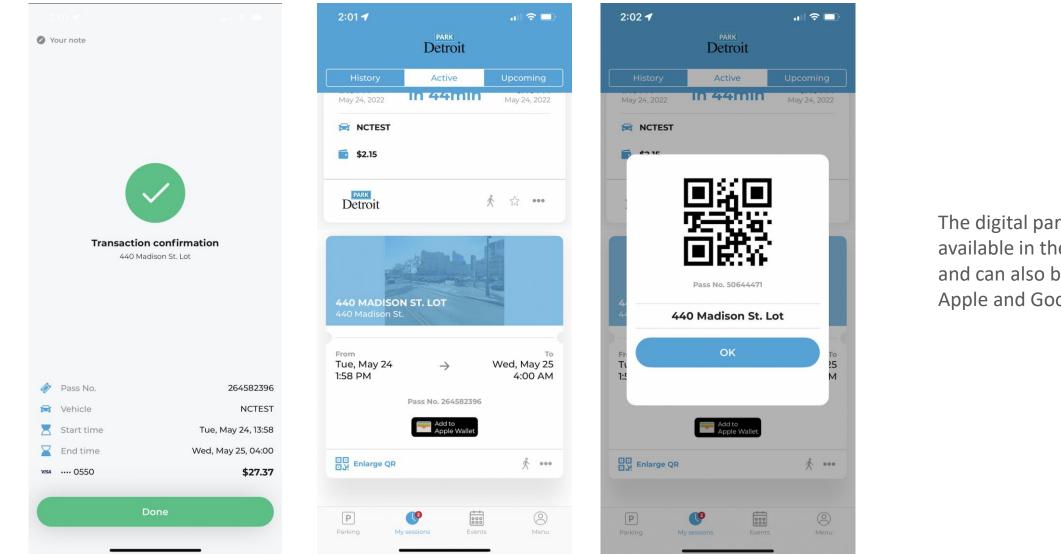


Continue





Off Street Transaction Confirmation and QR Code



The digital parking pass is available in the ParkDetroit App and can also be saved in your Apple and Google Wallets

Events and Venues

ParkDetroit Event Portal

- **One location for all events Detroit**
- Venders update event portal •















































PARK DETROI

CAMPUS MARTIUS

























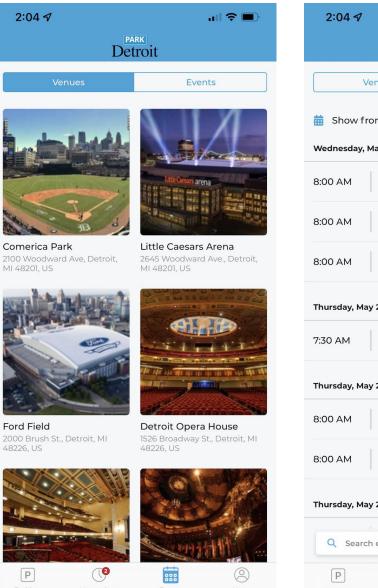


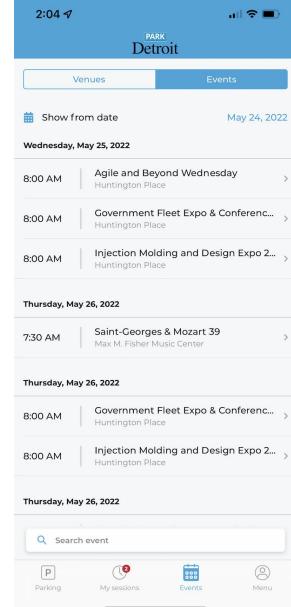






Search by Venues

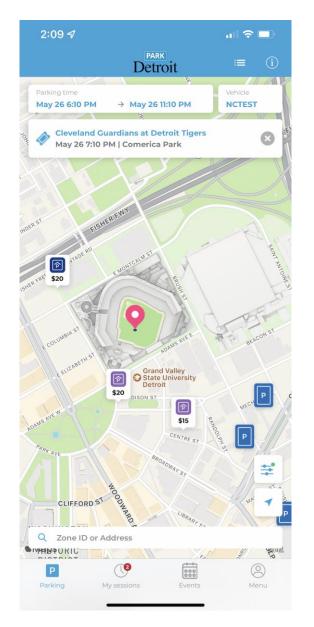


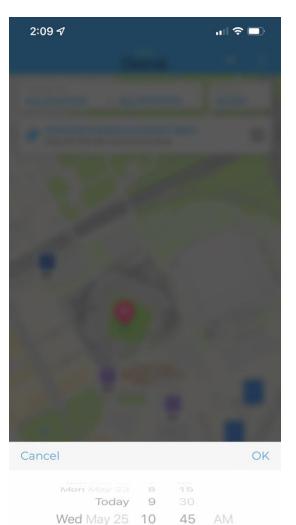


Search by Events

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	P (2) Parking My sessions	Events Menu	

Venues and Events: Map Display





Thu May 26 11

Sat May 28

Fri May 27 12

00

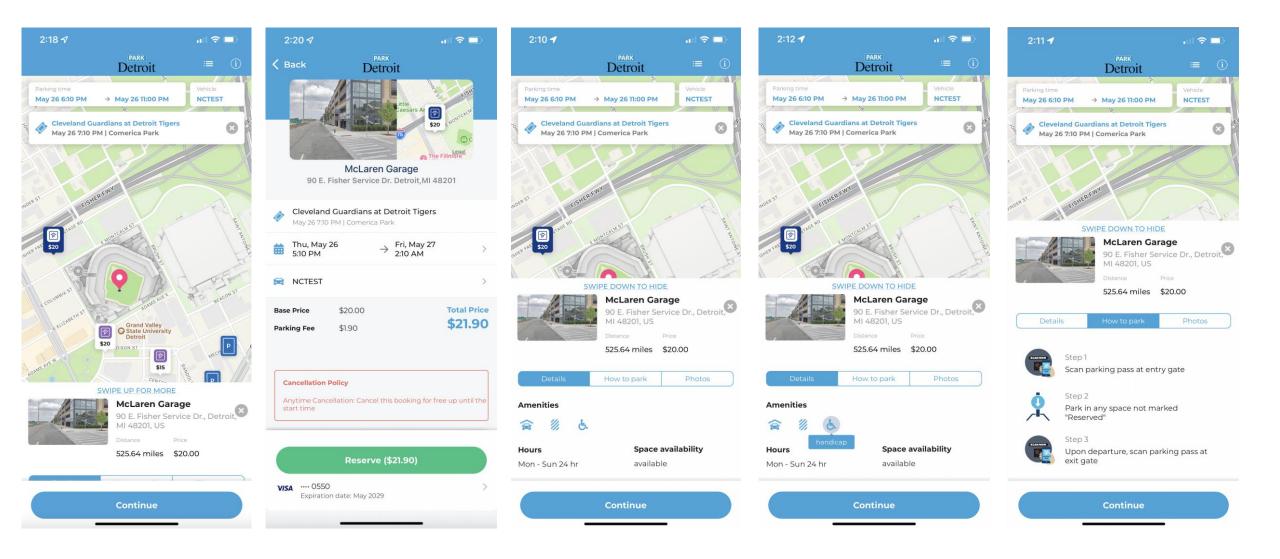
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PM

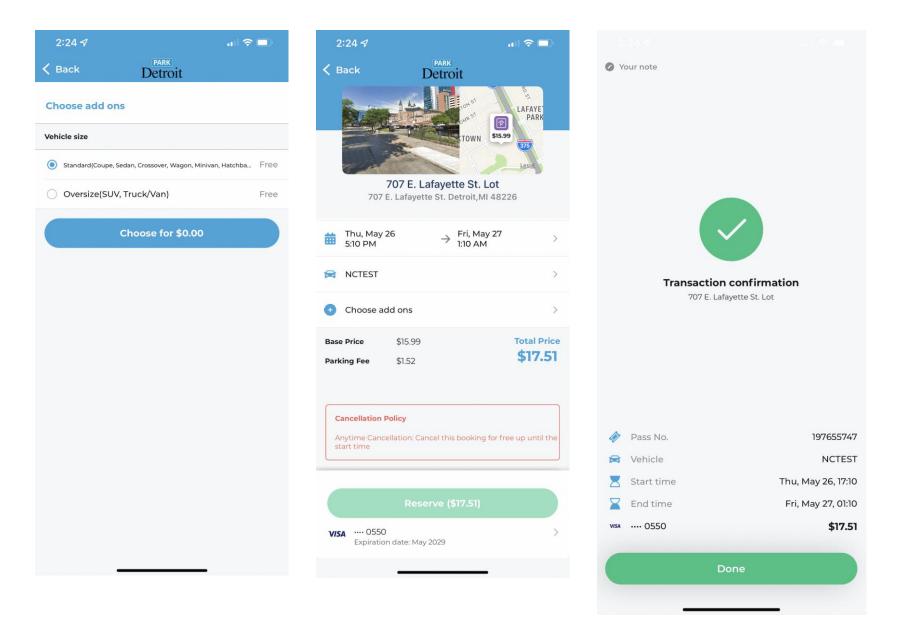
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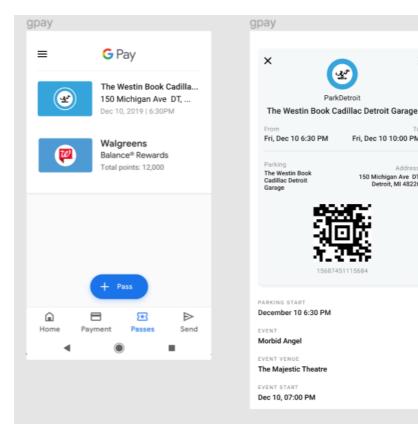
Venues and Events: Select garage details

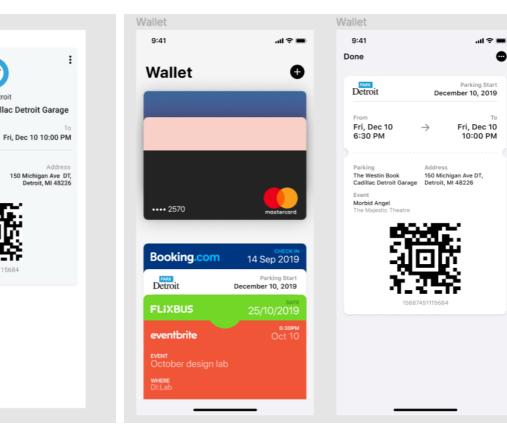


Venues and Events: Add-Ons and Confirmation



Venues and Events: Reservation and QR Code





Google Wallet and Apple Wallet will be used to store the info in the limitation of the features provided by both wallets



Purchase Transportation with Parking

- Allow for parking further away at lower price
- Facilitates greater parking usage
- Longer time spent downtown





Ride Share

UBER











Scooter Share



Bike Share









Multi-Modal Mobility Interface



List multiple mobility options to event, venue or business center



Provide estimated time of travel



Capability to pay for transportation



Gives the customer all the information necessary to choose an alternative parking location



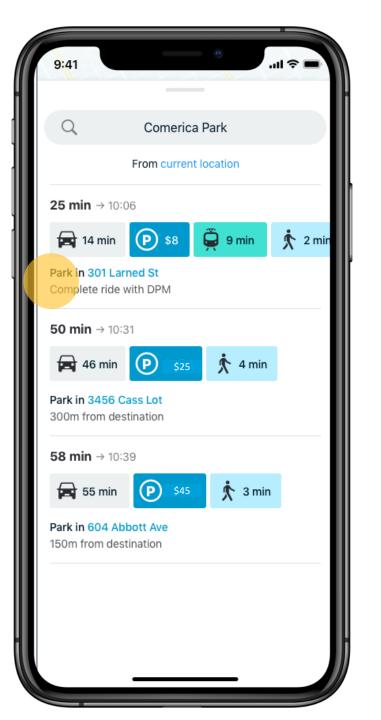
Suggested Parking Options

App suggests few options.

Each options shows duration and estimated ETA to destination

Different options suggested to user:

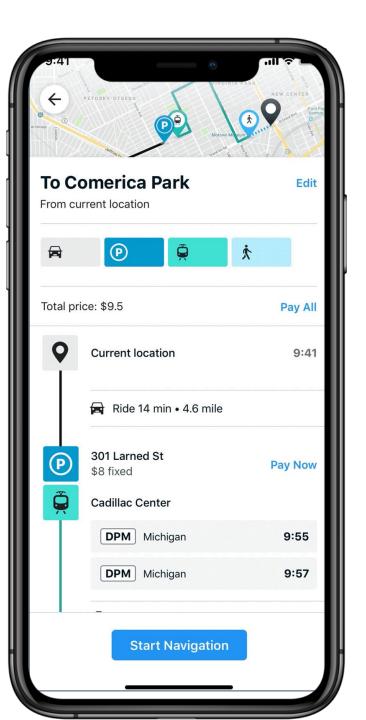
- Drive and park closed venue
- Multimodal Drive, park and ride to venue



Detroit

Multimodal Itinerary:

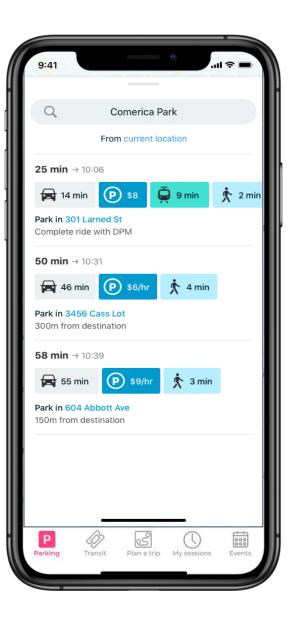
- Drive 14 mins to remote parking lot
- Park and pay \$8
- Ride with DPM for 9 minutes
- Walk for additional 2 minutes

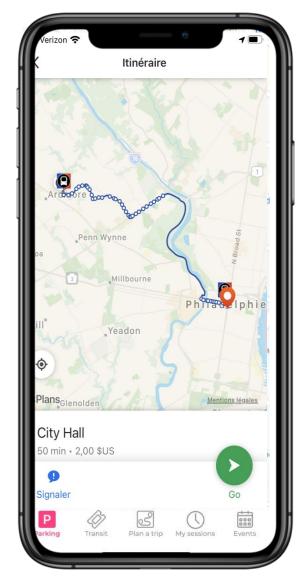


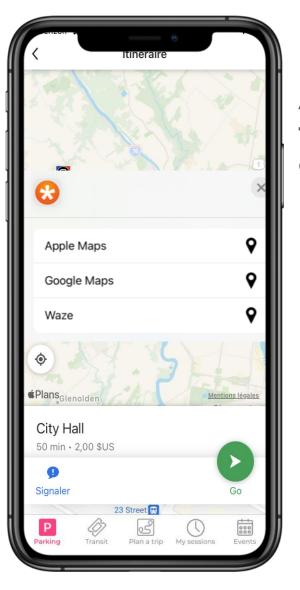


Trip Planning sequence – Guidance with car









A list of potential trips is offered. User can then select:

- Select their
 preferred option
 to go there
- See their trip on the map
- If the user selects his car, Guidance App selection is proposed

Consumer Loyalty Rewards

Merchant and consumer loyalty rewards



Prompt	Promote	Produce
a second economic transaction from the initial transaction	consumer loyalty	cross category revenue beyond parking and transportation
	OR	

Pay for parking

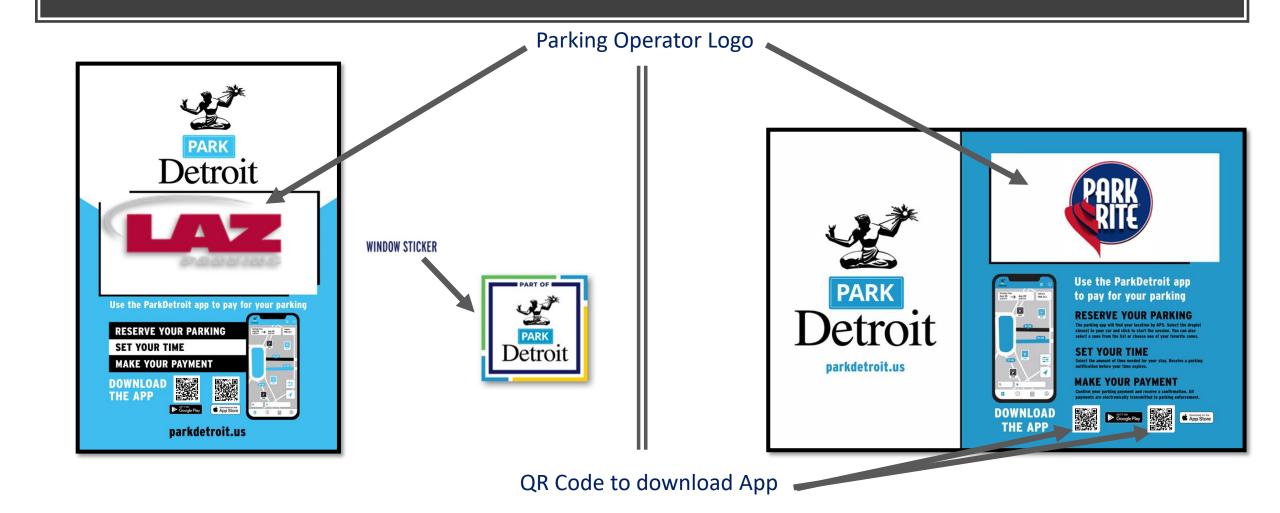
Get free appetizer

Shop at store

Get free parking

Park Detroft Re-Branding

Rebranding of ParkDetroit – Evolving from just meters to a complete trusted regional parking choices



Events Video Tutorial: via ParkDetroit.us





QUESTIONS?

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