

Today's discussion

1	Achieving Outcomes	Using Flow and Link to achieve the City's goals.
2	Analytics Dashboard	New data sources lead to new possibilities
3	Data Management	Best practices on architecture, privacy and more
4	Scaling Impact	Business Model, Implementation and Project Management



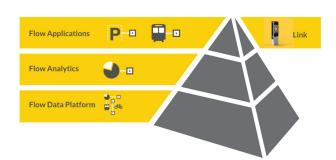
New approach: Open platform creates ongoing value for all

CITIZEN

Ongoing, visible innovation... in service of equity, access and livability

COMMERCE

Generate new funding streams... from businesses and citizens to enhance and augment public services



CITY AGENCIES & PARTNERS

Share capabilities... across agencies, transit, county/state and other cities, reducing cost and easing collaboration



Flow and Digital Kiosk work together to create sustainable funding streams

DEMAND MGMT

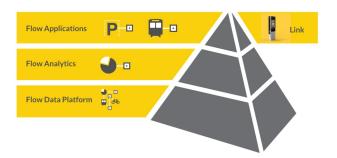
MARKETPLACE FEES

OPTIONAL: ADS

Use **Flow Parking** dynamic pricing and smart enforcement to generate revenue while better serving citizens

Use **Flow Transit** supplier marketplace to expand transit while earning a fee

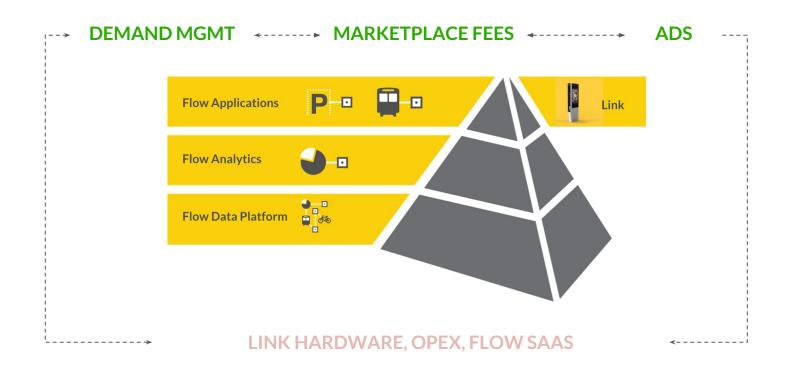
Use Flow Parking virtual lots to generate revenue from private lot owners -- while reducing housing / business costs



Upgrade digital Kiosks to serve targeted ads from local or national businesses, earning a revenue share for the city that can be reinvested into transportation



Success-based pricing aligns incentives



Flow & Kiosk

Flow Parking & Transit

Deploy Flow Parking for paid on-street & off-street lots, with inventory, occupancy, demand management, and parking marketplace.

Deploy Flow transit with >1 multimodal transit operator, payments system for shared mobility and integration into Kiosk



Kiosk without Ads

Deploy 100 Kiosks in targeted neighborhoods

Fund install, operation and Gigabit connectivity

or

Kiosk with Ads

Upgrade Kiosks to support ads, funding post-demonstration costs

Flow Data Platform (w/Data Exchange) and Analytics enable Flow Parking & Transit, Link sensing, 3rd party apps

Flow Parking + Transit

SIDE WALK LABS

Ongoing DoT Demo Year 2 Year 3 Year 1 - Flow Demand Management - Flow Marketplace Fees \$5-20M+ \$5-20M+ \$2-10M total - DoT Grant pays for integration cost: \$270k - Ongoing integration: \$60k/year estimated estimated maximum - Flow SaaS Platform \$0/year- includes future - Flow SaaS Platform- shared success model applications beyond Parking, Transit

Kiosk without Ads (fixed)



	DoT Demo		Ongoing	
Year 1	Year 2	Year 3		

- Kiosk hardware & config: \$1.7M total
- Flow basic support for sensors: \$100K total
- Kiosk install, integration, more zones connectivity, maintenance, power: <\$5.7M total
- Kiosk connectivity, maintenance, power: <\$1.2M/yr

Kiosk with Ads (success model)

SIDE WALK LABS

	DoT Demo		Repay: 2+ years	Ongoing
Year 1	Year 2	Year 3		
- Kiosk ads: \$1.5	M total		- Kiosk ads: \$3M+/year	- Kiosk ads: \$3M+/year
- KIUSK aus. \$1.31	vi totai		TOSK aus. #Sivi 1/ year	- INIOSK aus. #SIVIT/ year

- Kiosk upgraded for ads: **\$2.3M total**
- Kiosk hardware & config: \$1.7M total
- Flow basic support for sensors: \$100K total
- Kiosk install, integration, more zones connectivity, maintenance, power: <\$5.7M total

- Kiosk repay: \$1.2M/yr

- Kiosk connectivity, maintenance, power: **\$1.2M/yr**



Implementation & Funding Considerations

- What is the program office structure?
- Where should Kiosks be placed to meet advertising, feasibility, and equity goals?
- Is there existing fiber connectivity in desired locations?
- How soon can we show visible value to citizens? What are the success metrics?
- What are long lead time items? Where will legislative / regulatory change be required (e.g. franchise agreements)?
- What's the impact of funding availability, city budget cycles etc.?



Conceptual Timeline

Sidewalk will launch Data Exchange starting with Google Urban Mobility data to create analytics dashboard for city

City to ease permitting, right of way access

Sidewalk to open Cloud Data Exchange to 3rd parties to help plan and orchestrate routes between public / private transit

City + Transit Agency will partner with Sidewalk to launch **Multimodal Service** to improve access to transport, leveraging **Digital Kiosks** and other interfaces

July 2017



Sidewalk to create custom reports drawing on Analytics and Data Exchange to inform City transportation demand planning

2018

City + Sidewalk to place Links within Zones using data-driven approach, choose applications to deploy with systems engineering approach

City + Sidewalk to create data pipeline delivering accurate asset information starting with parking

Sidewalk to implement **Dynamic Parking** in >1 zone configuring Pricing Engine as needed

Sidewalk to deploy WiFi Kiosks subject to permitting

Sidewalk to create **API** to enable 3rd parties to surface realtime city rules by location or place

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