# TransportationUpdateLynn Colosi Delta Development Group &

 $\operatorname{Greg}$  Jones Economic Development South









# **ROUTE 51 CORRIDOR**

Wilkinst

# **ROUTE 51 CORRIDOR TRANSPORTATION ALTERNATIVES PROJECT**

Green Tree Mt. Oliver Homestead (121) Dormont Carrick Munhall Overbrook (88) Brentwood We: Whitehall At Lebanon Baldwin Mc West **Bethel Park** Mifflin Pleasant (837) Hills 885 837 South Park Clairton Jefferson Township Hills

Pittsburgh

(50)

August 30, 2017

# PROJECT RECAP -PREVIOUS WORK AND COMMUNITY INPUT



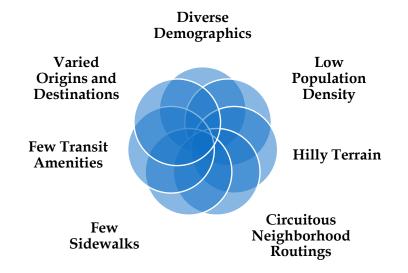
- ✓ Stakeholder Steering Committee
  - Advisory, Direction, Feedback
- ✓ Reviewed Previous Reports and Studies
- ✓ Researched Best Practices
- ✓ Public Outreach
  - Survey, Meetings, Follow-Up Calls





• Majority of Residential Areas Are Not Conducive to Operating Traditional Transportation Services







• Current Transportation Services in the Corridor





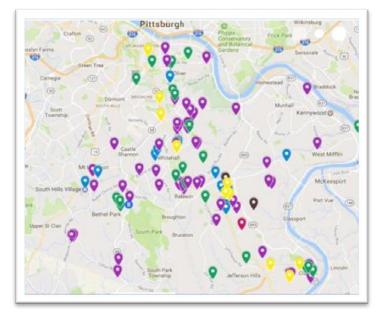
EXAIVIPL	ES OF P	ASSEN	GER FARES

From	То	PAAC	Lyft	UBER	FLITWAYS	SHARED RIDE SENIOR OR PERSON WITH A DISABILITY	SHARED RIDE NON- SPONSORED
Large	Downtown Pittsburgh	\$2.75*	\$22	\$20-\$27	\$51 - \$104	\$5.25	\$35
Clairton	Jefferson Hospital	\$2.75*	\$10	\$8-\$11	Not Available	\$3.15	\$21
Brentwood	Jefferson Hospital	\$2.75*	\$13	\$11-\$15	\$24 - \$42	\$3.90	\$26
Brentwood	Downtown Pittsburgh	\$2.75*	\$12	\$11-\$14	\$30 - \$55	\$3.15	\$21
*The fare for	r PAAC riders u	sing a Con	nectCar	d is \$2.50.			





• Non-Centralized Origins and Destinations



• Diverse Demographics

DEMOGRAPHIC	RANGE AMON	G COMMUNITIES
Population	3,403	32,322
Median Age	36.2	47.0
Senior Population	10.9%	23.8%
Minority Population	3.6%	40.2%
Disabled Population	7.8%	23.7%
Limited English Proficient Population	0.2%	6.4%
Median Household Income	\$ 28,155	\$ 77,854
High School Graduate or Higher	65.0%	97.0%
Below Poverty Level	3.5%	36.6%
Work in Place of Residence	1.5%	21.6%
Mean Travel to Work	27.9 minutes	32.0 minutes
No Vehicle Available	0.9%	11.8%
Drive Alone	56.3%	80.8%
Carpool	7.0%	11.9%
Public Transit	3.4%	27.3%
Walk	0.4%	5.0%
Bike	0.0%	0.5%
Other	0.4%	3.0%
Work at Home	0.9%	6.2%

# PROJECT RECAP -PROBLEMS WITH FIXED ROUTE SERVICE



#### Current Fixed Route Services Can be Problematic

- majority of routes radial
- service primarily designed to serve downtown Pittsburgh
- operates primarily on Route 51 and Brownsville Road
- may be required to drive to a park-n-ride
- access to stops can be problematic
  - distance
  - terrain
  - lack of sidewalks
  - narrow pathways
  - limited sight distance
  - poor lighting
  - safety/

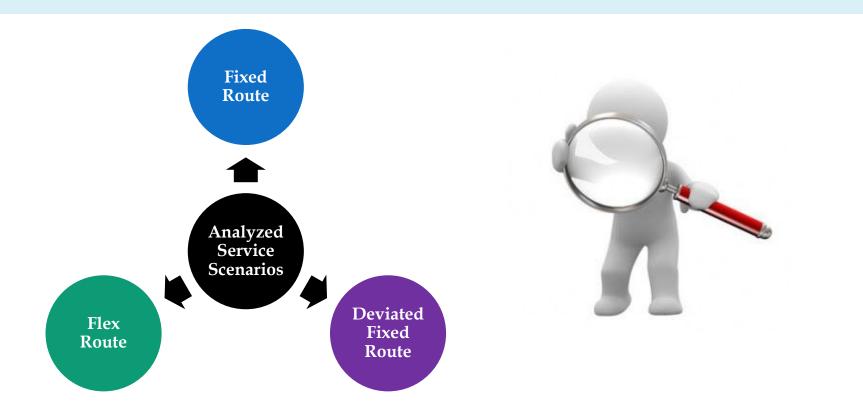
## SERVICE ANALYSIS-OTHER KINDS OF TRANSIT SERVICES



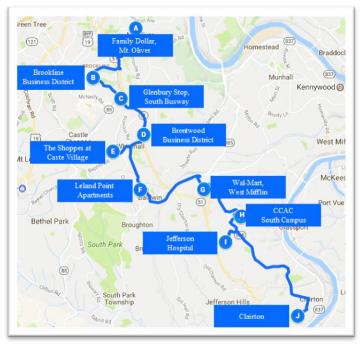
SERVICE TYPE	DESCRIPTION	VEHICLE CAPACITY
Fixed Route	Transit service that operates a prescribed base route with fixed bus stops and on a designated fixed schedule	50+ passengers
Deviated Fixed Route	Transit service that operates a prescribed base route on a designated fixed schedule but can deviate off course to destinations and origins as ordered/reserved by rider	12-25 passengers
Flex Route	Shuttle service that serves a few main destinations on a fixed schedule; rider orders/reserves pick up and at destination rider tells the shuttle driver the return pick up location	12 to 25 passengers
Demand Response	Point to point pick up and drop off; typically implemented in lower demand or rural areas; riders call 48 hours in advance to schedule pick up and drop off	2 to 12 passengers
Ride-Share (Uber, Lyft)	Social network based; on-demand taxi-like service; rides are scheduled by using mobile phone connected to web service to set up rides; mostly uses professional drivers; riders pay for trip by setting up account with credit card	1 to 6 passengers
Ride-App	Social network, ride sourcing application; on-demand service; app users sign up as drivers and app coordinates rides with drivers and those headed in the same direction or going to similar destination	1-6 passengers

### Service Analysis-Delivery Types Examined









#### FIXED ROUTE EXAMPLE

#### **CHARACTERISTICS**

- Designated route
- Specific bus stops
- Fixed trip times and schedules
- Always to/from the same destinations
- Port Authority's service type



#### **DEVIATED FIXED ROUTE EXAMPLE**



#### **CHARACTERISTICS**

- Service operates along fixed alignment or base route
- Specific bus stops on base route
- Fixed trip times and schedules
- Can "deviate" from base route within pre-defined distance to pick up or drop off riders who request a deviation
- ACTA's service type





#### FLEX ROUTE EXAMPLE

#### **CHARACTERISTICS**

- Route always serves specific major destinations
- Fixed trip times and schedules
- Between destinations routing can be flexible based on pre-defined distance for additional pick ups and drop offs
- ACTA's service type

### Service Analysis-Delivery Types Examined



COMPARISON SUMMARY OF SERVICE SCENARIOS										
	Fixed Route Basic	Fixed Route Enhanced	Fixed Route Deviated Revised Fixed Route		Flex Route					
Service Span	6:00 a.m. to 9:00 p.m.	6:00 a.m. to 10:00 p.m.	6:00 a.m. to 9:00 p.m.	6:00 a.m. to 10:00 p.m.	6:00 a.m. to 10:00 p.m.					
Number of Routes	1	1	2	2	3					
Number of Daily Trips	28	28	56	32	48					
Riders per Trip	1	2	2	3	2					
Number of Vehicles	4	6	4	2	3					
Daily Revenue Hours	56	84	56	32	48					

#### Compare



	COMPARISC	ON SUMMARY OF	SERVICE SCENAR	ar C							
	Fixed Route Basic	Fixed Route Enhanced	Fixed Route Revised	Deviated Fixed Route	Flex Route						
Daily Ridership	28	56	112	96	96						
Annual Ridership	7,280	14,560	29,120	24,960	24,960						
Daily Cost	\$3,640	\$5,460	\$3,640	\$2,080	\$3,120						
Annual Cost	\$946,400	\$1,419,600	\$946 <i>,</i> 400	\$540,800	\$811,200						
Daily Revenue	\$35	\$70	\$140	\$120	\$120						
Annual Revenue	\$9,100	\$18,200	\$36,400	\$31,200	\$31,200						
Daily Net Cost	\$3,605	\$5,390	\$3 <i>,</i> 500	\$1,960	\$3,000						
Annual Net Cost	\$937,300	\$1,401,400	\$910,000	\$509,600	\$780,000						
Break Even Fare/ Cost per Passenger	\$130	\$98	\$33	\$22	\$33						
Assumptions: F	are \$2.00/Avera	ge Fare \$1.25. (	Operating Cos	t per ter nue Ho	our \$65.						



# **RECOMMENDED SERVICE TYPE**







#### **DEVIATED FIXED ROUTE**

- Service can meet majority of the communities' needs
- Provides customers with fixed timepoints as well as on-demand door-to-door service
- Most economical (least amount of required vehicles, revenue hours, cost and cost per passenger)
- Highest passenger per trip forecast
- Combines fixed and flexible routings
- All timepoints have connections with PAAC
- Easier to understand and communicate



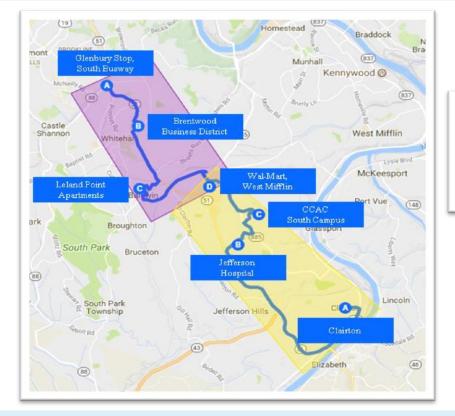
#### HOW TO RIDE DEVIATED FIXED ROUTE SERVICE

#### • 2 WAYS TO RIDE THE SERVICE

- 1. Go to a designated bus stop, get on the vehicle and get off at a destination along the route
- 2. If a rider can't get to a designated bus top or if their desired destination is not on the route then:
  - a. Rider calls the transit office to schedule pick up at their location, gets on the vehicle, tells driver desired destination
  - b. Prior to getting off the vehicle at desired destination rider tells the driver what time they want to be picked up and where they want to be dropped off

# **RECOMMENDED SERVICE TYPE -POTENTIAL ROUTES AND SERVICE SPANS**





#### **DEVIATED FIXED ROUTE**

DEVIATED FIXED ROUTE SERVICE SCENARIO SUMMARY												
Service Span Hourly Trip Start Time Number of of Trips Vehicles												
Route 1 Purple	6:00 a.m. to 10:00 p.m.	6:00 a.m. to 9:00 p.m.	16	1	16							
Route 2 Yellow	6:00 a.m. to 10:00 p.m.	6:00 a.m. to 9:00 p.m.	16	1	16							

# **RECOMMENDED SERVICE TYPE -POTENTIAL ROUTES AND SERVICE SPANS**



#### **ROUTE 1 – PURPLE (POTENTIAL ROUTING)**

From-Glenbury Street R-Route 51 L- Towne Square Way R-Brownsville Road L- Clairton Blvd (Route 51) **R-** Grace Street **R-** Macassar Drive L-Holdsworth Drive R-Wolfe Drive (Wolfe becomes Knoedler) L- Keeport Drive L- Youngridge Drive (Youngridge becomes Travis) L- Keeport Drive L- Curry Hollow Continue- to Lebanon Church Road **R-** Mountain View Drive L- Century Drive R-WalMart

#### **ROUTE 2 - YELLOW (POTENTIAL ROUTING)**

From- 3rd Street (Clairton) L- Clair Avenue R- State Street Merge- Route 51N ramp R- Coal Valley Road R- Jefferson Hospital R- Coal Valley Road L- Clairton Road R- South Campus Way R- College Drive/CCAC South R- Clairton Rd L- Century III Mall R- Mountain View Drive L- Century Drive L- WalMart

# **RECOMMENDED SERVICE TYPE -POTENTIAL ROUTES AND SCHEDULES**



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	ROUTE 1 PURPLE (P.M. TIMES ARE IN BOLD)												
Glenbury South Busway Stop	Brentwood Business District	Leland Point Apartments	Wal-Mart		Wal-Mart	Leland Point Apartments	Brentwood Business District	Glenbury South Busway Stop					
6:00	6:20	6:40	7:00		7:00	7:20	7:40	8:00					
8:00	8:20	8:40	9:00		9:00	9:20	9:40	10:00					
10:00	10:20	10:40	11:00		11:00	11:20	11:40	12:00					
12:00	12:20	12:40	1:00		1:00	1:20	1:40	2:00					
2:00	12:20	12:40	3:00		3:00	3:20	3:40	4:00					
4:00	4:20	4:40	5:00		5:00	5:20	5:40	6:00					
6:00	6:20	6:40	7:00		7:00	7:20	7:40	8:00					
8:00	8:20	8:40	9:00		9:00	9:20	9:40	10:00					
		Route	2 YELLOW (P	.м.	TIMES ARE IN	BOLD)							
Clairton	Jefferson Hospital	CCAC South Campus	Wal-Mart		Wal-Mart	CCAC South Campus	Jefferson Hospital	Clairton					

Clairton	Jefferson Hospital	CCAC South Campus	Wal-Mart	Wal-Mart	CCAC South Campus	Jefferson Hospital	Clairton
6:00	6:20	6:40	7:00	7:00	7:20	7:40	8:00
8:00	8:20	8:40	9:00	9:00	9:20	9:40	10:00
10:00	10:20	10:40	11:00	11:00	11:20	11:40	12:00
12:00	12:20	12:40	1:00	1:00	1:20	1:40	2:00
2:00	12:20	12:40	3:00	3:00	3:20	3:40	4:00
4:00	4:20	4:40	5:00	5:00	5:20	5:40	6:00
6:00	6:20	6:40	7:00	7:00	7:20	7:40	8:00
8:00	8:20	8:40	9:00	9:00	9:20	9:40	10:00

# **Recommended Service Type -Potential Connections**



	DEVIATED FIXED ROUTE TIMEPOINTS AND PAAC ROUTE CONNECTIONS										
		Glenbury Stop	Brentwood Business District	Leland Point Apartments	Wal-Mart	CCAC South Campus	Jefferson Hospital	Clairton			
Y1	LARGE FLYER	√	√								
Y45	BALDWIN MANOR FLYER	✓									
Y46	ELIZABETH FLYER	√	✓					✓			
Y47	CURRY FLYER	✓		✓	✓	✓					
Y49	PROSPECT FLYER	✓	✓		✓	✓					
51	CARRICK		✓		✓						
51L	CARRICK LIMITED		✓								
53	HOMESTEAD				√						
53L	HOMESTEAD PARK LIMITED				✓						
55	GLASSPORT				✓	✓	✓	✓			
59	MON VALLEY				✓						



# **RECOMMENDED SERVICE TYPE -RIDERSHIP FORECASTS AND COST ESTIMATES**





	Projected Deviated Fixed Route Ridership											
	Ridership	Daily	Daily	Weekdays	Only Service	7 Days a W	/eek Service					
	per Trip	Trips	Ridership	Weekly	Annual	Weekly	Annual					
Total	3	32	96	480	24,960	672	34,944					
	Estimate	ed Costs fo	or Deviated I	Fixed Route S	ervice Scenar	io						
				Weekday (	Only Service	7 Days a W	/eek Service					
	Daily Revenue Hours	Ηοι	urly Cost	Weekly	Annual	Weekly	Annual					
Total	32		\$65	\$10,400	\$540,800	\$14,560	\$757,120					
		Projected	d Deviated F	ixed Route R	evenue							
	Base Fare	Avo	rago Faro	Weekdays Only Service		7 Days a W	/eek Service					
	Dase rale	Ave	rage Fare	Weekly	Annual	Weekly	Annual					
Total	\$2.00		\$1.25	\$600	\$31,200	\$840	\$43,680					
			Net C	Cost								
	Weekd	ays Only S	ervice		7 Days a We	ek Service	ek Service					
	Weekly	Α	nnual	We	ekly	Annual						
Total	\$9,800	\$5	609,600	\$13	3,720	\$713	\$713,440					

## **RECOMMENDED SERVICE TYPE -VEHICLES TYPES AND SIZES**









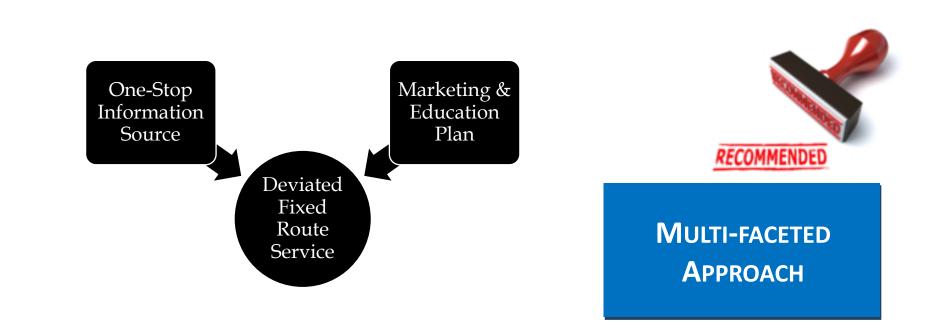
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## **IMPORTANT ELEMENTS -SUPPORTING THE SERVICE RECOMMENDATION**





# **ONE-STOP INFORMATION SOURCE**





- One place where customers can learn about all transportation options available to them
- ✓ Information by phone or technology platform (website, app)
- All services, modes public or private - including trip planning and connections
- ✓ Cost of trip, length of time, and return service and connections

# **GRASS ROOTS MARKETING & EDUCATION PLAN**



- Identify goals and objectives
- Identify target markets
- Determine strategies to advertise, market and promote new service
- Create information and marketing materials, social media platforms
- Develop metrics to measure success
- Meet with stakeholders, agencies and the public about service
- Measure success
- Modify plans as needed



# **KEYS TO SUCCESS**



	Stakeholder guidance	Process to keep all transportation information current	Marketing, education and branding to attract diverse demographics	Comprehensive grass roots marketing and education plan
	Monitor, measure and adjust	Outreach before launch to confirm information and stops	Service provider that can deliver exceptional customers service	Bus stop locations with as many transit amenities as possible
	Meeting with PAAC	Technology for service delivery and customers	Environmentally friendly vehicle	Flexible service
		Connections with PAAC	Safe, secure, reliable and affordable	

# NEXT STEPS -Implementation



- NEXT STEPS
  - Identify project point person
  - Convene partners
  - Refine service plan
  - Identify and obtain funding
  - Finalize implementation, and marketing & education plans
  - Kick-off and implement new service
  - Measure, monitor, and adjust



## WRAP-UP





#### **QUESTIONS AND ANSWERS**

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