GREATER PHILADELPHIA
FUTURES GROUP
DIALOGUE. COLLABORATION. KNOWLEDGE-SHARING.

DELAWARE VALLEY
dvrpc
REGIONAL
PLANNING COMMISSION

Long-Range Plan Strategies Workshop:
Transportation Technology
December 10, 2020, 10:00am – 12:00pm

MEETING SUMMARY

Process

DVRPC conducted a facilitated workshop to develop transportation technology strategies to achieve the region's vision for the year 2050. After a brief welcome, DVRPC reviewed the planning process for *Connections 2050*, as well as the scenario planning and visioning exercises conducted over the past two years. The majority of the workshop was conducted in small break-out groups, facilitated by various DVRPC staff members. Participants were asked to brainstorm a list of strategies for achieving the vision, and then amend that list for each of four future scenarios after watching a short video on some of their implications. Participants then prioritized the top 5 strategies for each scenario reviewed in the break-out group, and reported their findings back to the full group.

Vision

DVRPC revealed the results of its visioning exercises and presented the newly drafted Vision for Greater Philadelphia which is:

An equitable, resilient, and sustainable region that:

- Preserves the natural **environment**.

- Develops inclusive, healthy, and walkable **communities**.

- Grows and diversifies the **economy**.

- Maintains an integrated, multimodal **transportation network**.

The environment, communities and land use, the economy, and transportation are the Plan's focus areas. These are the most prominent topical themes from the 2050 Visioning Process. Equity, resilience and sustainability are the Plan's core principles and are lenses through which the Plan's focus areas are viewed. These are the most prominent policy-oriented themes heard in the 2050 Visioning outreach. The Greater Philadelphia region is committed to:

- **Equity** - the just and fair inclusion in a society where everyone can participate, prosper, and reach their full potential; including extensive and inclusive civic dialogue and engagement that gives everyone a voice in public decision-making processes.

- **Resiliency** - the ability to manage and recover quickly from ongoing and emerging threats such as extreme weather, pandemics, and other shocks.

- **Sustainability** - the ability to meet present needs without compromising the ability of future generations to meet their needs; and incorporate environmental, economic, and social considerations into policy and investment decisions.

Goals for each focus area include:

- **Preserve the natural environment**: Protect land in the region's critical greenspace network and conservation focus areas; meet carbon emissions reduction targets and adapt to a changing climate; decrease air and water pollution; bring nature and ecological functions back into developed communities; expand local food production; and bring ecological functions into urban areas.

- **Develop inclusive, healthy, and walkable communities**: Create racially and socioeconomically integrated neighborhoods; create vibrant main streets and downtowns; provide access to green space, live/work opportunities, and affordable housing; focus growth in centers; invest in community schools and other amenities; and convey environmental justice—the fair treatment and meaningful involvement of all people, regardless of religion, race, ethnicity, income, or education level, in the planning and decision-making process.

- **Grow and diversify the economy**: Increase workforce skills, employment opportunities, and access to capital; retain businesses and help small businesses rebuild post pandemic; expand entrepreneurialism and support key regional industries; give all children access to good schools and an education that prepares them for the jobs of the future; bolster green technologies, and the circular and sharing economies; reduce poverty, the wealth gap and racial inequities; enhance energy efficiency and decarbonization; and improve connections to the global economy.

- **Maintain an integrated, multimodal transportation network**: Rebuild and modernize the region's transportation infrastructure;; reduce congestion and auto dependence; obtain a Vision Zero goal of no roadway fatalities or serious injuries by 2050; incorporate existing modes and new private services and technologies into a mobility-as-a-service network; increase mobility and reliability, while reducing congestion and vehicle miles traveled; and enhance security and cybersecurity   .

Results
Six break-out groups of participants came up with more than 50 strategies for achieving the region's vision, whether generally, or specific to one future scenario. DVRPC recorded and analyzed the results and found 6 strategies that were universally applicable to all future scenarios. These **Universal Strategies include**:

- **Integrate Transportation Modes in a mobility-as-a-service (MaaS) network.** Group discussions included multimodal apps; mobility hubs; providing real-time information; expanding micromobility; public ownership/operation of the MaaS network; and incentives for shared mobility.

- **Build Walkable, Transit-Oriented Communities.** Group discussions included transit-oriented development; smart growth zoning; ADA compliance; universal design techniques; linking land use and transportation; and estimating infrastructure/public services costs for development locations.

- **Use technology to improve transportation.** Group discussions included deploying sensors, ITS, and 5G; SmartGRID; and pavement solar panels.

- **Promote Equitable Transportation.** Group discussions included measuring transportation equity; equitable infrastructure investments and road pricing; a credit system for use of clean technology; and promoting environmental justice.

- **Optimize Goods Movement.** Group discussions included Enhance urban delivery; prepare for personal delivery devices and unmanned aerial systems; promote truck platooning,

- **Increase transportation revenue.** Group discussions included Via ballet initiatives; journey to work / trip length fee; MBUF; more transit funding.

By comparing feedback from all of the breakout groups, DVRPC identified the top 3 strategies for each of the future scenarios. The top **Contingent Strategies** include:

- **Delayed Expectations:** Expand Transit; Education & Outreach; and Entrepreneurial Transportation Services

- **Inclusive Tech:** Flexible Transportation Infrastructure; Build EV Infrastructure / Deploy EVs; and Prepare for Automated Vehicles.

- **People Power:** Discounted Transportation Passes & Credits; Education & Outreach; and Expand Transit.

- **Technology in the Driver's Seat:** Look out for Public Good in Public-Private Partnerships; Balance data collection and privacy; and Build Hyperloop (and support Private Market Infrastructure Investment).

A complete list of strategies identified during the workshop and their applicability to each scenario is included in the table below.

Strategy	Delayed Expectations	Inclusive Tech	People Power	Tech in the Driver's Seat	Total Votes
Build Walkable, Transit-Oriented Communities	6	3	8	9	26
Use technology to improve transportation	2	7	7	4	20
Promote Equitable Transportation	4	4	7	2	17
Optimize Goods Movement	3	3	4	5	15
Increase transportation revenue	4	2	5	4	15
Public-Private Partnerships	3	1	4	4	12
Prepare for Automated Vehicles	2	4	3	3	12
Expand Transit	5		4	3	12
Education and outreach	4	2	6		12
Build EV infrastructure / Deploy EVs	1	6	1	2	10
Innovative Financing	3		3	3	9
Discounted Transportation Passes & Credits			7	2	9
Balance data collection and privacy		4	1	4	9
Expand broadband, Wi-Fi, & digital resources	2	4	1	1	8
Flexible transportation infrastructure		6		1	7
Use technology to improve public transit	1	2	2	1	6
Build High-Speed Rail / Hyperloop		2		4	6

Affordable communications infrastructure & devices		3	3		6
Update insurance regulations	3	1	1		5
Promote alternative energy	1	2	1	1	5
Cybersecurity	1	3	1		5
Adaptive reuse		2		3	5
Use digital efficiencies to reduce regulation	3	1			4
Universal Health Care			1	3	4
Universal Basic Income			1	3	4
Small, Incremental Wins	3	1			4
Roadway maintenance		3		1	4
Promote the public good		3		1	4
Fund technology development				4	4
Entrepreneurial transportation services	3	1			4
Be Adaptive	3	1			4
Update vehicle regulations				3	3
Improve infrastructure	1	1	1		3
Develop appropriate infrastructure for the future of transportation	1	1	1		3
Travel Demand Management			1	1	2
Provide Real-Time Info		1		1	2
Multifunctional infrastructure	1		1		2
Job Training	1		1		2
Improve station accessibility	1	1			2
Improve Paratransit			1	1	2
Improve biking infrastructure	2				2
Curb Management			1	1	2
Support working from home	1				1
Support lower density development	1				1
Roadway enforcement	1				1
Resilient building codes		1			1
Provide transit amenities	1				1
More investment in road maintenance	1				1
Flexible work schedules	1				1
Total Votes	**78**	**84**	**90**	**86**	**338**