



GREATER PHILADELPHIA

Scenario Planning Workshop 1 November 17, 2022

#### WELCOME!

#### **AGENDA:**

- Overview of scenario planning
- Dispatches scenarios
- Breakout group activities
- Next steps & closing



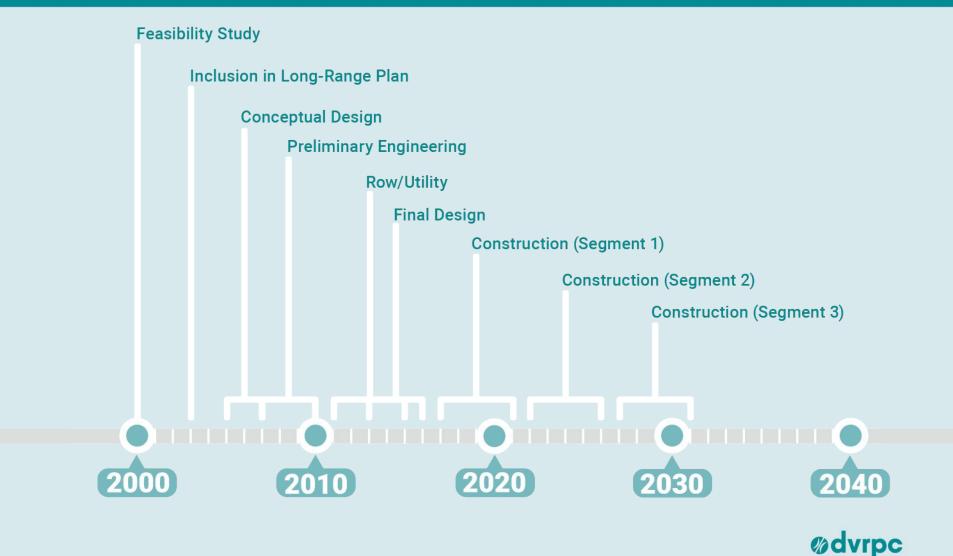
# OVERVIEW OF SCENARIO PLANNING

#### Long-Range Planning





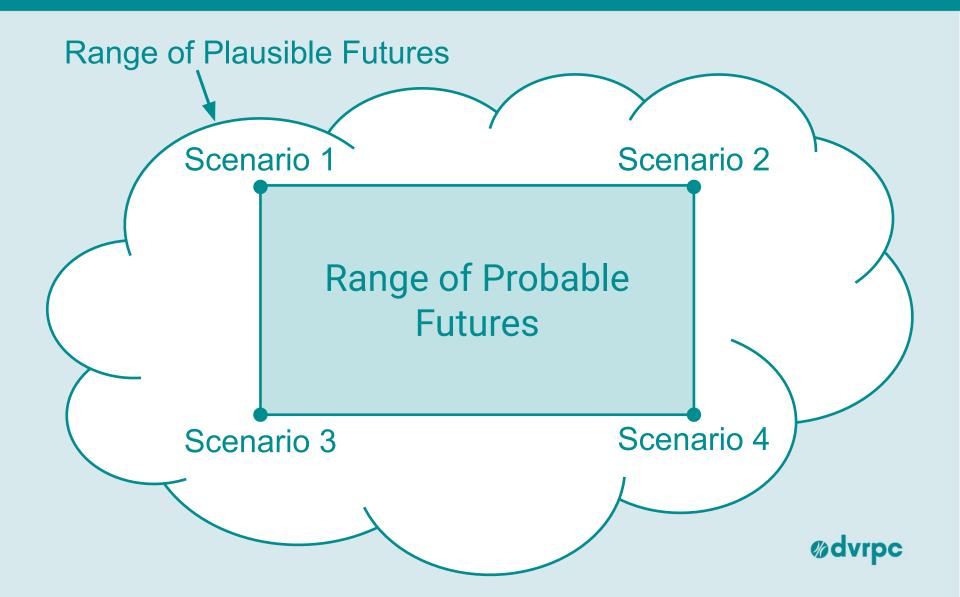
#### Major Transportation Project Timeline



#### **Exploratory Scenario Planning**

Stories about alternate futures shaped by uncertainty in anticipated trends & forces.

#### Plausible Future Scenarios



#### **Futures Working Group**



#### Dispatches from Alternate Futures







Talking about and understanding the future is a key step in actively shaping it to go in the direction we want it to.

#### DISPATCHES SCENARIOS

#### **INCREMENTAL CHANGE**

TRANSFORMATIVE CHANGE

# **ENARIOS** FOUR SC CHANG LIMATE

GE & EQUITY

POLITICAL WILL / COLLECTIVE ACTION

#### PEOPLE POWER

Grassroots democracy gives citizens more input into the development of their communities and the economy, while readily available technologies are deployed to fight climate change.



#### MARKET FORCES / INDIVIDUAL RESPONSIBILITY

@dvrpc

#### DELAYED EXPECTATIONS

Climate change, sharp political swings, ongoing civil discord, and a slowdown in innovation lead to a lack of direction and economic stagnation.

# TECHNOLOGY IN THE DRIVER'S SEAT

Markets drive economic growth through Big Data, algorithms, and innovation.

INCREMENTAL CHANGE

TRANSFORMATIVE CHANGE

### FOUR SCENARIOS EQUITY 00 ш CHANG CLIMATE

POLITICAL WILL / COLLECTIVE ACTION

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#### INCLUSIVE TECH

A collaborative, networked, open source economy of abundance emerges from societal efforts to make technological advances more sustainable and equitable.

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#### TECHNOLOGY IN THE DRIVER'S SEAT

growth through Big Data algorithms, and innovation



#### **INCREMENTAL CHANGE**

TRANSFORMATIVE CHANGE

# FOUR SCENARIOS CLIMATE

EQUITY 8 CHANGE

POLITICAL WILL / **ACTION** 

MARKET FORCES / INDIVIDUAL **RESPONSIBILITY** 

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# **TECHNOLOGY**



**INCREMENTAL CHANGE** 

TRANSFORMATIVE CHANGE

# FOUR SCENARIOS EQUITY 8 CHANGE CLIMATE

POLITICAL WILL / COLLECTIVE ACTION

> MARKET FORCES / INDIVIDUAL RESPONSIBILITY

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# **DELAYED EXPECTATIONS**



**INCREMENTAL CHANGE** 

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#### RECENT TRENDS & FORCES

#### Global population hits 8 billion as growth poses more challenges for the planet

By <u>Tara Subramaniam</u>, CNN and Reuters Updated 3:38 AM EST, Tue November 15, 2022



Peter Adams/Stone RF/Getty Images

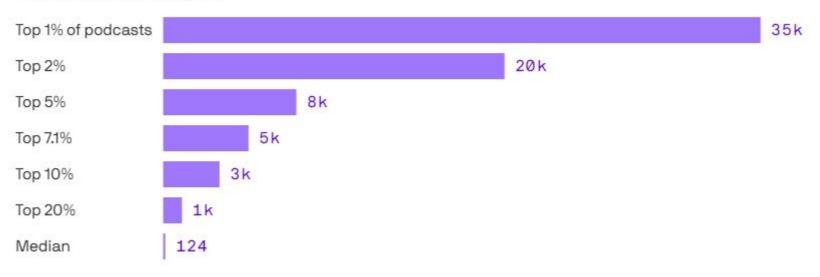


# The podcast business is booming, but few are making money



#### Podcast download distribution

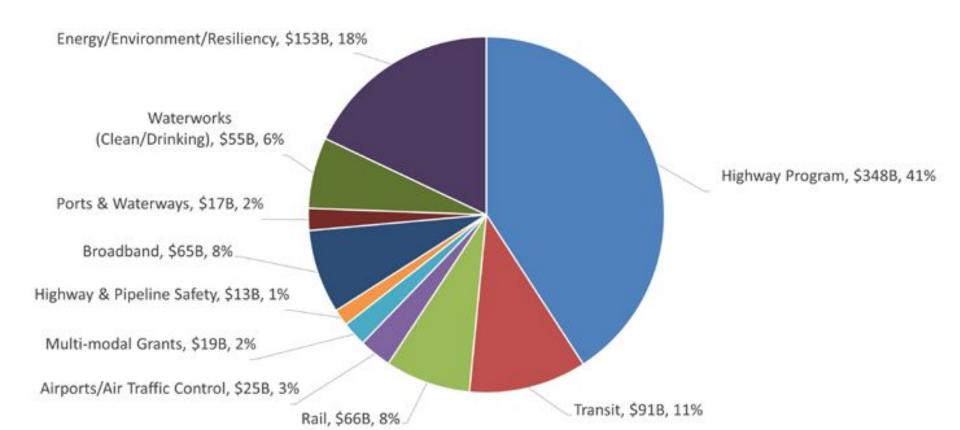
Downloads per episode; January 2019



Reproduced from Libsyn; Chart: Axios Visuals

#### Statement by President Joe Biden on the House Passage of the Bipartisan Infrastructure Investment and Jobs Act







### Kellogg's labor strike to eat into margins as supply woes mount

By Mehr Bedi

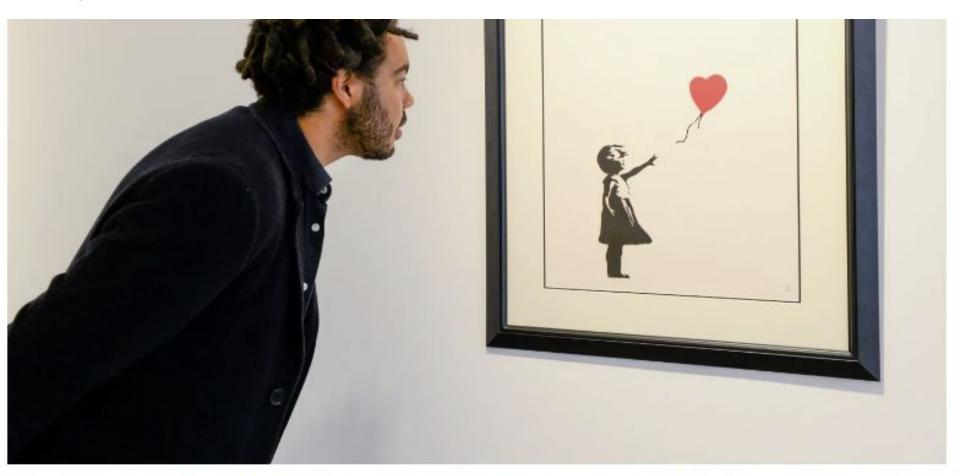


[1/2] Kellogg's Corn Flakes owned by Kellogg Company is seen for sale in a store in Queens, New York City, U.S., February 7, 2022.

# Millennials and Gen Z are a growing force in investing. The market needs to catch up

BY JEAN CASE

November 18, 2021 at 7:04 AM EST



These new investors want to use their capital for socially responsible investing and sell stocks when they think a company is not serving the best interest of society or the planet.

NICKY I CIMC - GETTY IMAGES

#### Flooded Tesla EVs From Hurricane Ian Exploding All Over Florida

Thom Taylor - Oct 9





## U.S. retail sales unchanged; consumers showing resilience

By Lucia Mutikani



People carrying shopping bags walk inside the King of Prussia shopping mall, as shoppers show up early for the Black Friday sales, in



#### Defenders of Democracy Beat Election Deniers in Every 2024 Battleground



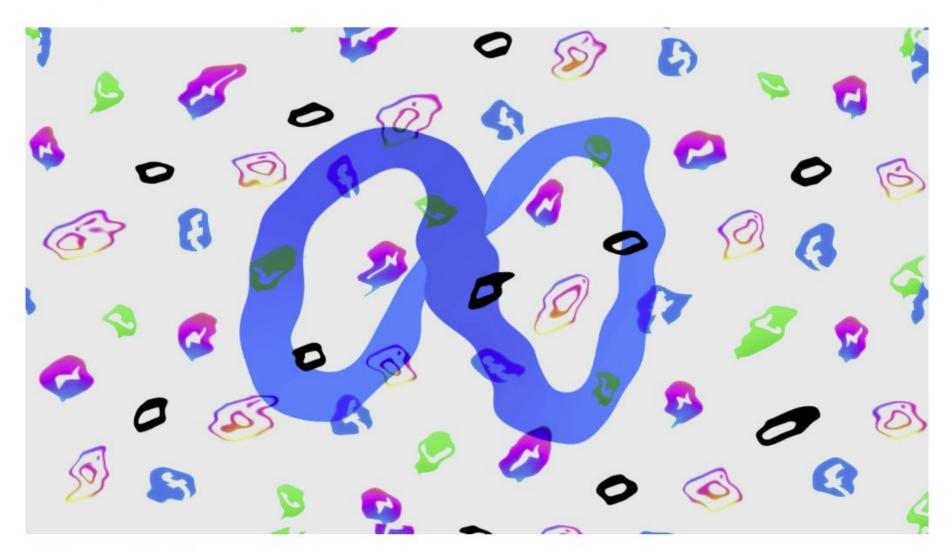


Democratic gubernatorial candidate, Pennsylvania Attorney General Josh Shapiro speaks at a campaign rally in Philadelphia, Nov. 5, 2022; Michigan Secretary of State, Jocelyn Benson speaks to the media after voting in Michigan, Nov. 8, 2022. Shapiro: Matt Rourke—AP; Benson: Evelyn Hockstein—Reuters

#### Meta lays off thousands, FTX collapses, and Twitter has a very weird week



Greg Kumparak @grg / 4:15 PM EST • November 12, 2022



#### BREAKOUT SESSIONS

#### EACH GROUP'S FOCUS

#### One focus area:

- Environment
- Communities
- Economy
- Transportation

#### **Two** scenarios:

- People Power
- Inclusive Tech
- Delayed Expectations
- Tech in the Driver's Seat



#### TWO QUESTIONS

What other headlines would you add in this future?

What are some challenges & opportunities in this future?

#### RESOURCES



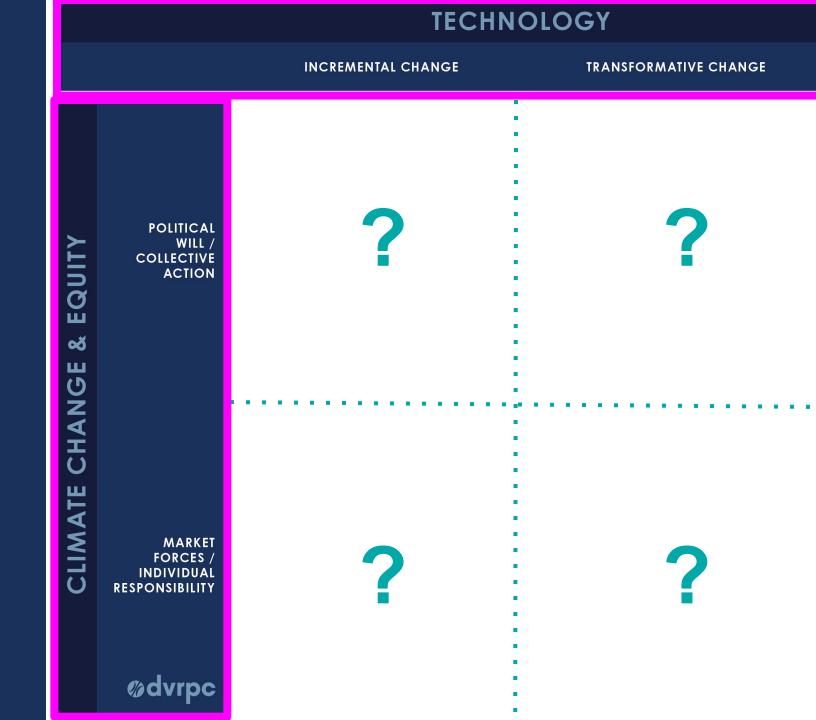
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FOCUS AREA	IMPLICATIONS	HEADLINES
ENVIRONMENT	Climate change advances far more rapidly than forecasted; inability to reduce GHG emissions means that geoengineering is increasingly seen as the only solution.	HURRICANE THERESA RAVAGES MUCH OF THE EAST COAST (2030'S)  CALLS FOR SEED BANKS TO BE OPENED TO CURB BIG AG IMPACTS (2037)  HEAT-RELATED DEATHS IN PHILADELPHIA REACH AN ALL-TIME HIGH (2040's)  STUDY FINDS LOW-INCOME, MINORITY POPULATIONS MOST VULNERABLE TO CLIMATE CHANGE (2040's)  ON PACE FOR 3°C RISE BY 2100, IS GEOENGINEERING OUR LAST HOPE? (2040's)
ECONOMY	Jobs do not change much but do use more technology; continued growth in freelancing and gig economies.  Economic growth is slow, with more income going to those at the top as attempts to retrain and retool the workforce for modern economic needs have not kept up.	GIG ECONOMY ALL THAT'S LEFT? (2035) INCOME DISPARITY NOW WORSE THAN THE 1920S (2040's) WHAT CAN DRIVE THE ECONOMY FORWARD AS INNOVATION SLOWS (2040's)
COMMUNITIES	Low-density communities struggle to keep up with infrastructure maintenance as it ages. Housing is increasingly owned and commodified by large, global economic firms, decreasing homeownership rates.	HEDGE FUNDS BECOME WORLD'S LARGEST LANDLORD (2032) CLIMATE REFUGEES COMPOUND CRISIS ON SOUTHERN BORDER (2024) IS KING OF PRUSSIA BECOMING THE REGION'S ECONOMIC CENTER? (2040's) STILL A LONG WAY TO GO IN DISMANTLING SYSTEMIC RACISM (2040's)
TRANS- PORTATION	Technological limitations have stymied efforts to create HAVs; little investment in CV technologies  Continued shortfall in infrastructure funding and shorter infrastructure life spans due to climate change.  Revenues move to mileage-based fees but are not set at a level that catches up on road maintenance needs.	FOLLOWING FATAL PASSIVE HACKING CRASH, AUTODRIVE IS THE LATEST SELF-DRIVING CAR COMPANY TO SHUT DOWN OPERATIONS (2029)  CONGRESS NARROWLY PASSES TRANSPORTATION LEGISLATION, SHIFTS FUNDING MECHANISM TO VMT FEES (2028)  WITH TRANSPORTATION FUNDING STALLED, WHAT TO DO WITH THE CLOSED SECTION OF I-95 IN SOUTH PHILLY (2040's)
OTHER	Increasing chronic health conditions shorten lifespans; lack of social safety net reduces birth rates; climate refugees are on the rise, but many residents are also leaving Greater Philadelphia.	NEW NOVEL CORONAVIRUS IN CHINA RAISING CONCERNS ABOUT ANOTHER GLOBAL PANDEMIC (2027)  ARE WE READY FOR THE NEXT GLOBAL PANDEMIC? (2040's)  CONGRESS FAILS TO MEET DUE TO LACK OF A QUORUM (2040's)  RETURN OF A SUPERPOWER: RUSSIA'S SHOCKING AND DISCONCERTING ASCENT (2040's)  40 CENSUS: GREATER PHILADELPHIA POPULATION DECLINES AMID UNDERCOUNT, HURRICANE, AND PANDEMIC CONCERNS (2041)

# FOUR SCENARIOS



#### **QUESTIONS?**

#### **Zoom Groups**

Go to main facilitation guide <a href="https://tinyurl.com/2v4h957w">https://tinyurl.com/2v4h957w</a>

Scroll to last page & click on the hyperlink for your Breakout Group (e.g. Environment 3)

Follow instructions on the worksheet



# FOUR SCENARIOS CLIMATE

EQUITY 00 CHANGE

#### POLITICAL

COLLECTIVE

WILL /

**ACTION** 

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#### **TECHNOLOGY DRIVER'S SEAT**

Markets drive economic growth through Big Data, algorithms, and innovation.

#### **NEXT SESSION**

#### **NEXT SESSION**

- LRP staff to send report-back
- Workshop 2
  - January 12, 2023
  - 10-11:30am
  - same assigned place
  - contingent strategies

See you then!





https://www.dvrpc.org/plan



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