PLANNING: DISRUPTED

WATCHING NEW MOBILITY PLAY OUT IS LIKE .....
WATCHING 4 YEAR OLDS PLAYING SOCCER
WHAT’S THE GAME PLAN FOR INCORPORATING MULTIPLE LINES OF UNCERTAINTY?
NEW MOBILITY: PLAN BUILDING BLOCKS

What Do We Have?

Community Values
Inventory
Assumptions

What Should We Do?
What Do We Want?

Engagement
Forecasts
Goals & Metrics

How Do We Get There?

How to Test & Scale?
When to Intervene?
How to Implement?
How to Integrate?

What’s Probable?
Lever we Control?
How to Compare?
What’s Preferred?

Objectives & Policies
Programs & Budgets
Projects

What are Trends?
Change Drivers?
Uncertainties?
NEW MOBILITY: NEXT GENERATION PROCESS

Normative Scenario Planning
Growth/4 Futures
What is preferred scenario?

Exploratory Scenario Planning
What are change drivers?
  Alone & combinations?
  What’s possible/probable/likely?

Strategic Planning
What are priority activities for moving forward?
Which policies &/or bundles are most effective & deliver multiple benefits?

Performance-Based & Pilots
How do we test?
When do we approve pilot expansion?
How do we master a program for multiple pilots & multiple technologies?

Predictive or Anticipatory Scenarios
What are the phases?
What levers do we have?
To what degree do we control levers?

Contingency Planning
How do we plan for low probability/high risk events?
PILOT PROGRAM EXAMPLE: SHUTTLES

Existing → Trending → Emerging → Future

- Private & public
- Private on-demand microtransit
- Driverless - operator segregated lane assigned routes/stops
- Driverless without operator

Tipping Points for approving microtransit:
- Successful pilot & subsidies
- Ridership metrics
- Number of transit feeds
- Financial projections

Tipping Points for limited AV shuttles:
- Successful pilot - private lanes
- Safety protocol
- Ridership goals

Tipping Points for full scale AV shuttles:
- Pilot - scaled, on-demand safety protocol
- Congestion metrics
- Equitable service metrics
- Financial projections
NEW MOBILITY: PLANNING TECHNOLOGY STACKS & THREADS

**NOW**
Technology that is widely available now

**TECHNOLOGY**
- Carshare: Point-to-point, peer-to-peer & designated spaces
- Ridehail: individual & shared
- Smart Parking: Meters & Apps
- Bikeshare: station/dock-based
- Delivery: Bikes, lockers, pick-up
- After Market: Crash avoidance & park assist technology

**PLANNING NEEDS**
1. Transportation Demand Management (TDM) updates
2. Aggregating shared-use modes at transit stations
3. Technology alignment
4. Scenario planning & predictive analytics

**TRENDING**
Technology that is in initial stages of gaining market share

**TECHNOLOGY**
- Microtransit: Small electric circulators
- Bikeshare: Electric/dock-less
- Ridehail: Paratransit uses, transit agency partnerships
- Parking: Autonomous Parking garages
- Delivery: Ground drones

**PLANNING NEEDS**
1. On-street & sidewalk space
2. Pick-up/Drop off curb zones
3. Parking Districts
4. Flexible Garage/Lot Design
5. Urban warehousing
6. Ubiquitous electric charging
7. Street Design of the Future

**EMERGING**
Technology that is in testing or pilot phases on public roads

**TECHNOLOGY**
- Autonomous Shuttles: 1st. fixed route, then demand-response
- Mobility-as-a-Service (MaaS): service packages
- Parking: Shared, automated, district parking
- Delivery: Ground drones, air drones, autonomous delivery

**PLANNING NEEDS**
1. Shuttle route planning
2. Transition planning for mixed driver/driverless
3. Coordination with transit
4. Repurposed garage spaces
5. Technology upgrades

**FUTURE?**
Technology that is experimental or limited testing

**TECHNOLOGY**
- Individual cars: What % of fleet? Owned or shared? Publicly or privately operated?
- Transit: What is public transit’s role? Will on-board staff be needed?
- Public Rights-of-Way: How should cities manage demand?

**PLANNING NEEDS**
- What are pricing policies? VMT, per ride, vehicle occupancy, congestion charges, parking?
- What is likely digital & communications investment? 5G, Cloud, Blockchain?
NEW MOBILITY: NO NEED FOR PLANNING PANIC….

- SCOPING
- RfP/RfQ
- AWARD & KICKOFF
- WORKPLAN
- COMMENTS
- FINAL

1ST DRAFT
2ND DRAFT

- PLAN UPDATE
- RESOLUTIONS
- WORKSHOPS & TRAINING
- PLAN UPDATE NM CHECKLIST
- RfI

- UPDATED SCOPES OF WORK
- EXPLORATORY SCENARIO PLANNING
- NEW MOBILITY STRATEGY

- FAST ACTION UPDATE (QUICK HIRE, ADD-ON, OUT-OF-CYCLE)
- LAST MINUTE PARAGRAPH(S)
- NEW MOBILITY PEER REVIEW

- NEW MOBILITY CHAPTER

- POLICY HACKATHON

- PILOT PROJECTS, PRE-PERMITTING & QUICK BUILD

- QUESTION CAMPAIGN
- DEMONSTRATION PROJETS
ALTA PLANNING + DESIGN’S NEW MOBILITY GROUP

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WORKSHOPS & TRAINING
PRE-PLANNING/SCENARIO & STRATEGIC PLANS
NEXT GENERATION TRANSPORTATION PLANS
• Micromobility
• First/Last Mile(s) to Transit
• Complete Streets 2.0