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Summary and Conclusions

Working under the auspices of the Aspen Institute, the 31 members of the Community Forum Task Force on Transportation and Mobility met from June 2016 through August 2017. Its goal was to create a values-based vision for transportation and mobility in the upper Roaring Fork Valley for the year 2035 that would address traffic congestion as well as the mobility needs of our residents, commuters and visitors. (See “What is the Problem?” on p. 6 and “Core Values” on p. 8.) Task force members sought solutions that would meet the established goal and be both politically achievable and financially viable.

When the Community Forum Task Force began its work in June 2016, many members expected that it would focus on one or more large-scale, capital-intensive transportation solutions. Instead, what emerged was a balanced “integrated mobility system” of programmatic solutions that could be experimented with and phased in over time. To address the challenge of induced traffic (see p. 7), this integrated system employs a balance of both carrots and sticks. Its complementary measures could be implemented as budgets permit over short, mid, and long-term time frames.

Recommendation:

In its final meeting, the task force recommended unanimously that work begin immediately to plan an integrated mobility system that includes the following five elements (see below). The individual components of this system are interdependent. Some measures specifically reduce traffic congestion; others increase mobility for the public. Some are capital and cost intensive, while others would contribute revenue, making the system more affordable. (To promote social equity, the task force recommends that 100% of any revenues raised be reinvested to reduce the cost of transit and alternative mobility measures – or even make them free – for those who use them.) These five elements lend themselves to experimentation, they are flexible, and they are reversible.
The Integrated Mobility System (from short to long-term):

1. Ride Sharing (short-term)
2. Ride Hailing (short-term)
3. Congestion Reduction Measures (short and mid-term), which include dynamic road pricing and dynamic parking pricing
4. HOV-Lane Enforcement (short and mid-term)
5. Phased BRT Enhancement (short, mid and long-term), which may not necessarily cross the Marolt Open Space. Could include enhanced service to Snowmass Village.

Additional measures supported by the task force’s matrix analysis:

- Transit-Oriented Affordable Housing (mid and long-term)
- Airport/Transit Connectivity, especially low-cost options (short and mid-term)
- Snowmass Connection Enhancements (short and mid-term)

(Please see the Summary of Mobility & Transportation Options that begins on p. 9 for a discussion of all the above measures.)
**A Single Planning Entity:**

The task force recommends strongly that the three upper valley governments identify a single entity to coordinate and facilitate regional mobility planning among governments, the private sector and the community. Over time, this coordination should expand in scope to include the full region.

**Observations:**
- Free-flowing traffic is not a reasonable expectation unless congestion reduction measures are sufficient to reduce current traffic and mitigate future induced traffic.
- The U.S. is undergoing a transition away from a car-centric culture. Millennials are buying fewer cars than previous generations, and parking demand is expected to drop.
- Regional and local land use decisions profoundly affect mobility challenges and traffic congestion.
- A grassroots advocacy organization for an integrated mobility system is essential.
- The community should seek public/private partnerships to help implement it.
- The integrated mobility system adopted should leverage existing approvals and plans (e.g., the Entrance to Aspen Record of Decision, Aspen Area Community Plan, etc.).
- We should improve mobility incrementally and continuously.
- Specific elements of the integrated mobility system will affect different people and different geographies in varying ways. We should consider carefully which user group is affected by each element of the system and plan accordingly.
- We should engage innovators and entrepreneurs from all sectors to help create the mobility system we envision.

The Community Forum Task Force recommends that the package of mobility experiments now being planned by the City of Aspen should be used by Aspen, Pitkin County and Snowmass Village to help demonstrate and explore elements of this integrated mobility system.

**What Success Will Look Like:**

If we fully implement the integrated mobility system, we will make upper valley travel substantially easier while remaining true to our most important community values. Commuters would spend more time with their families or on the job; visitors would gain a greatly improved vacation experience; and residents would enjoy an enhanced quality of life.
Introduction

What is the Problem?

Traffic congestion is a defining problem for residents, commuters and visitors in the upper Roaring Fork Valley. Traffic jams detract from our community’s livability and waste valuable time that could otherwise be used for productive work, recreation, or visiting with friends and families. Commuters lose countless hours per year in stalled traffic, and Aspen residents cite downtown auto congestion as one of their biggest concerns. Businesses find it increasingly difficult to hire the employees needed to maintain our status as a world-class resort. Auto congestion clogs our streets and highway, creates noise and aggravation, and adds carbon and other pollution to our air.

Traffic congestion hurts our community in three broad ways: reducing economic productivity for local workers and businesses; damaging the visitor experience; and lowering the quality of life for everyone. Snarled traffic does not reflect well on our community, which prides itself on responsible urban planning and sincere concern for the environment. RFTA, while doing an excellent job at carrying over five million passengers per year, is operating at capacity for much of the year, and its future growth faces possible limits from both budgetary challenges as well as the reality that about 1,000 daily bus trips already enter and leave Aspen in peak season.

Our current challenges will only grow. The state demographer’s office projects that, by 2035, Pitkin County’s resident population will grow by 25% and the Roaring Fork Valley’s population will grow by roughly 50% to a total of 70,000 people. Visitor growth could be comparable – and all these increases will further stress an already challenging traffic problem.

The Community Forum Task Force recognizes that we cannot build our way out of traffic congestion by simply adding more highway or transit capacity. A more sustainable and effective long-term solution must be found.

The Work of the Transportation & Mobility Task Force

In 2016, the Aspen Institute convened a group of 31 community leaders to develop a values-based vision for where we, as a community, want to be in 20 years (by 2035) with respect to transportation and mobility in our upper valley (Basalt to Aspen/Snowmass). The group met for 15 months: from June 2016 through August 2017. Through its research and meetings with local and national transportation experts, the Community Forum Task Force reviewed the rapid changes taking place in demographics, technology, culture, mobility preferences, autonomous and electric vehicles, ride hailing and sharing, carpooling, transportation demand management, and the wide array of available mobility options, both new and old.

Early on, task force members identified nine core values by which to evaluate transportation and mobility options. These ranged from community values like environmental quality and community character to operating system values, such as financial feasibility and effectiveness at reducing traffic congestion. The task force then identified a dozen transportation and mobility options representing diverse approaches to solving the traffic and congestion issues facing our community, and it then developed a matrix by which to review each option in terms of its compatibility with the core values.
The Principle of Induced Traffic

Early on, task force members identified induced traffic as a critical principle that must be addressed by any transportation/mobility system adopted in our valley.

In growing areas, when automobile congestion is reduced by increasing mobility alternatives and/or highway capacity, new traffic is generated and highways normally return to their previous level of automobile congestion. This reality has been demonstrated repeatedly in growing towns and cities around the U.S. and the world, as well as here in our valley. The phenomenon has two primary causes, both rooted in human behavior:

(A) Latent Demand. When perceived auto congestion is reduced during peak hours, many people will use a highway more often, shift their travel back to peak hours, or switch from transit to driving, thus increasing congestion again. This is a specific application of the economic concept of “induced demand.” That is, when the supply of a good increases, more of the good is consumed.

(B) Land Use Effects. A perceived shorter commute to a desired work or recreation destination spurs residential and commercial real estate development in more distant areas. In short, a new or expanded highway can turn land previously perceived to be distant in terms of commuting time into prime real estate development property. Since traffic engineers estimate that each new unit of housing can typically generate 10 new one-way auto trips per day, 100 units of new housing can result in 1,000 additional daily car trips on local roads and highways. The effects of new residential and commercial development on traffic congestion are often dramatic.

For more information on induced traffic:

Building Bigger Roads Makes Traffic Worse
Wired 2014
https://www.wired.com/2014/06/wuwt-traffic-induced-demand/

Increasing Highway Capacity Unlikely to Relieve Traffic Congestion
University of California-Davis 2015

Generated Traffic and Induced Travel
Victoria Transport Policy Institute 2017
http://www.vtpi.org/gentraf.pdf

Regional Challenges, Regional Solutions

From the start, the task force recognized that regional problems demand regional solutions and that the upper valley neither can, nor should, solve the valley’s transportation challenges on its own. Task force members, who themselves live in different regions of the Roaring Fork Valley, discussed this reality at length. At the same time, the members believed that the upper valley mobility problem was a good place to start, and it hoped that its work would spark a broader and much needed regional conversation about mobility throughout the Roaring Fork Valley and beyond. In addition, since a significant percentage of mid-valley traffic moves to or from Aspen/Snowmass, upper valley solutions can help with some of the issues elsewhere.
Core Values Underlying
Our Upper Valley Transportation System

Essential Community Values

➤ Community Character
  • Preserves livability
  • Fewer cars/less traffic
  • Decreases urbanization
  • Reflects limits to growth
  • Compatible with affordable housing and transit oriented development
  • Tranquility ... community peace and harmony
  • Promotes thriving community
  • Fun and cool
  • Aesthetically pleasing

➤ Environmental Quality
  • Reduces carbon emissions and other pollution

Operating System Values

➤ Traffic & Congestion Reduction
  • Reduces long term traffic and congestion
  • Fewer single occupant vehicles

➤ Social Equity
  • Affordable to users
  • Valley-wide benefits
  • Works for both residents and visitors
  • Positive shared experience
  • Builds community

➤ Convenience and Comfort
  • Frequent
  • Fast
  • Reliable travel times
  • Easier commute
  • Seamless and integrated
  • Multiple modes and cross-modal ease
  • Connects mountains and tourist centers

➤ Adaptable to the Future

Minimum System Requirements

➤ Safety
  • Human safety
  • Cyber security

➤ Financial Viability
  • Cost effective
  • Data informed
  • Cost and funding mechanisms acceptable to community

➤ Capacity to Move People and/or Reduce Travel Demand
  • Adaptable to different travel demands
  • Sufficient capacity and scale to make a difference

Our 2035 vision for upper valley transportation is an integrated system that incorporates all of the above values and creates a spectrum of innovative mobility options for our residents, commuters and visitors.
Summary of Transportation & Mobility Options

As presented by invited experts and discussed by the task force

Ride Sharing Systems
Ride Hailing Systems
Enhanced Bus Rapid Transit
HOV Lane Enforcement
Dynamic Road Pricing
Parking Strategies
Snowmass Village Connection Enhancements
Airport/Transit Connectivity
Transit-Oriented Affordable Housing
Light Rail Transit
Mountain-to-Mountain Connection
Increased Highway Capacity for Vehicles
Ride Sharing Systems

An app-based ride sharing system could allow travelers to share automobile rides in two ways:

A. First and Last Mile Service: Moving riders between homes and transit stations, as well as between final transit stations and workplaces, recreation areas or other destinations.

B. Valley Trunk Line Service: Moving riders along RFTA’s valley trunk line route between origin communities and destinations in the Aspen/Snowmass area.

This could be (1) a peer-to-peer app-based system matching private vehicle drivers with passengers, (2) a for-hire app-based “microtransit” service such as Chariot, Lyft Line, UberPool, etc., or (3) a “casual carpool” system requiring minimal third-party management. In the first two cases, the cost of a ride could be paid through the app – no cash need be exchanged. For security, drivers might be prescreened during registration (See “issues”). Both drivers and riders could be user-rated through the app.

The system could be optimized with a wide array of mobility resources, such as bike sharing, “kiss and ride” stations, employer incentives and pedestrian improvements. To alleviate first-mile challenges, WE-cycle, our local bike share provider, could be expanded to reach more riders throughout the valley.

Features & Advantages:

• Could increase valley mobility without adding new cars to the highway or requiring RFTA to buy more buses.
• Simplicity of “one click” mobility. A ride sharing app could identify and reserve seats on private vehicles already en route up or down the valley.
• Ridesharing along the valley’s trunk line corridor could increase.
• More efficient use of thousands of existing private vehicles in our valley.
• Could build sense of community in valley.
• Could attract riders currently unwilling to ride public buses.
• Cheaper and easier than capital intensive alternatives such as LRT or enhanced BRT.
• Ride sharing concepts are now being tried in different parts of country.
• Target audiences can be reached through social media campaigns.

Issues & Challenges:

• Because of the principle of induced traffic, ride sharing is unlikely, by itself, to reduce traffic congestion on Highway 82.
• Would enough riders use the system to significantly increase mobility?
• Is driver screening actually needed? If so, what level of screening would drivers undergo and how would it be managed?
• An app-based system would need to use either an existing app (e.g., Transit App) or a new one created for our valley. Building on an existing app would be preferable.
• Could riders be picked up at RFTA stations without impacting bus operations?

Cost Implications:

• Relatively low up-front capital cost compared to some other options. Would not require substantial construction and equipment.
• A for-hire provider (Lyft Line, UberPool, etc.) might require a public subsidy for riders.
Ride Hailing Systems

Ride hailing systems include app-based services like Uber, Lyft, the Aspen Downtowner, and taxis that offer on-demand rides. They tend to be organized public or private services, rather than peer-to-peer citizen-based systems. Like ride sharing, ride hailing could function in either of two ways:

A. First and Last Mile Service: Moving riders between homes and transit stations, as well as between final transit stations and workplaces, recreation areas or other destinations.

B. Valley Trunk Line Service: Moving riders along RFTA’s valley trunk line route between origin communities and destinations in the Aspen/Snowmass area.

A ride could be summoned through an app, and its cost could be bundled with that of a RFTA bus ticket so that only a single transit purchase (or click) would be needed.

Features & Advantages:
- Simplicity of “one-click” mobility.
- Relatively low cost as an option to develop.
- First and last mile service could make it easier to use RFTA’s trunk line buses moving up and down valley.
- Concept now being tried by for-hire services in different parts of country.
- Target audiences could be reached through social media campaigns.
- Some existing transportation funding by governments, nonprofits and schools might be redirected to more efficient uses.

Issues & Challenges:
- Because of the principle of induced traffic, ride sharing is unlikely, by itself, to reduce traffic congestion on Highway 82.
- A for-hire system (UberPool, etc.) might require a public subsidy for riders.
- Some locations have limited cell service and GPS mapping for apps is not always reliable.
- Ride hailing companies (Uber, Lyft, etc.) would need to increase service levels in the valley.

Cost Implications:
- Relatively low up-front capital cost compared to some other options. Would not require substantial construction and equipment.
- By potentially boosting ridership on RFTA’s trunk line buses, first and last mile service might increase RFTA’s need to buy more buses and incur additional operating expenses.
Enhanced Bus Rapid Transit (BRT)

Enhanced BRT could consolidate existing BRT, express, local, and skier-shuttle riders at 10, 20, and 30-minute frequencies, depending on time of day. Electric or Compressed Natural Gas (CNG) buses could be part of enhanced BRT service operating between the Brush Creek BRT Station and Rubey Park. In the future, autonomous electric buses might provide benefits similar to LRT at lower cost.

Features & Advantages:
- Could feel more like LRT: quiet and comfortable.
- Could reduce overall bus congestion in Aspen by as many as 100 bus trips per day.
- Electric buses are much quieter than CNG or diesel buses, although if the system started off with CNG buses, this noise reduction benefit would be lost.
- Could be phased more easily than LRT: electric buses and other enhancements could be introduced as funding becomes available. Initially, up-valley passengers might not have to transfer to electric buses at the Brush Creek Intercept Lot.
- If the Modified Direct Alignment across the Marolt Open Space were used, this would save an average of two minutes per trip and improve emergency access in and out of Aspen.
- City buses would remain as in-town shuttles, but in the future they might become small autonomous transit vehicles.
- New transit stop at 7th Street. New end-of-line station might be created at Main and Galena.
- Could include Snowmass Village Connection Enhancements
- Future autonomous electric buses might safely travel within a few inches of one another, although digital security would become extremely important.
- Over time, BRT could build ridership and eventually lead to light rail.

Issues & Challenges:
- Because of the principle of induced traffic, enhanced BRT is unlikely, by itself, to reduce traffic congestion on Highway 82.
- While Aspen residents voted to allow light rail across the Marolt Open Space, a new vote would be required for bus lanes there. A new highway across Marolt would be politically difficult.
- By requiring passengers to transfer to/from buses at the Brush Creek BRT Station, the BRT option may not be as convenient as existing one-seat ride services for commuters and skiers, and it might incur a “transfer penalty” in ridership. (A future all-electric valley bus system would resolve this issue.)
- If the Modified Direct Alignment across Marolt was not constructed with its two-minute time savings, nothing might offset an electric bus “transfer penalty” at Brush Creek, which could result in a loss of ridership.
- Electric buses likely require in-route charging stations and auxiliary heat in the winter.
- Electric buses have higher capital costs, and RFTA is currently challenged just to replace its diesel and CNG buses. Initially, some buses might have to remain diesel or CNG.

Cost Implications:
- Significant capital cost ($159 million – $200 million, 2016 dollars), but lower than LRT.
- Possibly reduced operating costs compared with today’s BRT, Local, Express, and Skier Shuttle bus services.
- Deployment of charging infrastructure could be expensive.
High Occupancy Vehicle (HOV) Lane Enforcement

The Highway 82 Basalt to Buttermilk Record of Decision (ROD) included HOV lanes as a Transportation Demand Management (TDM) measure introduced with the Basalt/Buttermilk four-lane highway project (1996-2004). HOV restrictions were designed to increase carpooling and allow more efficient transit operations. Also, the right lane’s reduced congestion should decrease travel time for car pools and transit users. Vehicles carrying two or more passengers may use the HOV lanes during rush hours.

The Colorado Department of Transportation (CDOT) initially conducted a robust public relations campaign to inform the traveling public about the SH 82 HOV program. Early on, the Colorado State Patrol (CSP) enforced the HOV lanes, and motorist compliance was high. Pitkin County courts, however, were reluctant to fine motorists who challenged tickets in court. Subsequently, enforcement dropped off, and tickets are no longer issued.

The lack of enforcement of existing HOV restrictions is negating the benefits of the HOV lanes. Efforts are needed to secure judicial support, provide outreach, and fully enforce HOV laws.

Features & Advantages:
- Previous analyses estimate that full HOV compliance could reduce weekday traffic by over 2,500 vehicles per day.
- Provides for safer, more efficient transit operations.
- Reduces parking demand due to decreased vehicle trips.
- Could reduce auto emissions and pollution.
- Existing technology can count the number of riders in a car and reduce enforcement costs.
- Enforcement might also be subcontracted out to reduce the load on local resources.
- Enforcement would reward and encourage carpooling/ride sharing.
- Visible enforcement of HOV restrictions would also reduce speeding on Highway 82. This could address the perceived “advantage” of single-passenger private vehicles speeding illegally.
- Enforcement might “calm” Highway 82, shift attitudes and reduce stress and accidents.
- Could create a “rules of the road” education and communication opportunity.

Issues & Challenges:
- Because of the principle of induced traffic, existing HOV restrictions might not, by themselves, reduce traffic congestion on Highway 82, but they might potentially, if tightened (e.g., three passengers).
- May be difficult to secure judicial support for enforcement of HOV laws.
- Additional enforcement efforts by the CSP and Pitkin County Sheriff would require additional law enforcement resources. These might be provided by new enforcement revenues.
- Would require partnerships with CDOT, Colorado State Patrol and local governments.
- Might require a change of local law enforcement philosophy.
- Would work best if the HOV lanes came all the way into Aspen.

Cost Implications:
- Costs of additional law enforcement resources and whether new revenues would offset them.
- Costs for a robust public outreach campaign to explain the HOV restriction, and why it is in place.
Dynamic Road Pricing

For Aspen, dynamic pricing might include an electronic toll on traffic entering Aspen that could vary depending on levels of congestion and purpose of trip. To avoid the toll, motorists could park at the Brush Creek lot and take a free bus into Aspen or qualify for an exemption to the toll (car pool, etc.).

Road pricing is one of the few options that has demonstrated its ability to actually reduce traffic congestion. Trip pricing could depend on different factors, such as time of day, number of passengers, level of congestion, and environmental impact. For example, travel might be free for car pools, working parents with children in Aspen preschools, or those working in essential services. While pricing sounds like a “stick,” it could seed many “carrots” by funding transportation options that reduce the need for a private vehicle. Dynamic pricing could make travel to Aspen significantly quicker and easier than today, and by reducing travel time would allow for higher productivity for those who are paid by the hour.

For Aspen, dynamic pricing might include an electronic toll on traffic entering Aspen that could vary depending on levels of congestion and purpose of trip. To avoid the toll, motorists could park at the Brush Creek lot and take a free bus into Aspen or qualify for an exemption to the toll (car pool, etc.).

Features & Advantages:

• May be the most reliable tool available to reduce or eliminate traffic jams both on Highway 82 and in downtown Aspen. Roadway capacity freed up by road pricing is less likely to be filled by induced-traffic than other mobility options.
• Aspen and Snowmass bound commuters and visitors could reduce or eliminate time lost sitting in traffic jams.
• Professionals who charge by the hour, such as electricians and plumbers, could benefit from a significant increase in billable hours that would greatly exceed the cost of any toll.
• Could significantly improve the visitor experience and stimulate the local economy.
• If properly designed, could enhance social equity. (Versus the current traffic jams, in which everyone loses.)
• Toll revenues could be used to fund RFTA buses and other mobility options. Ideally, RFTA buses would become less expensive (possibly even free), along with future driverless shuttle services, etc.
• Would reduce carbon emissions and other forms of air pollution. Would support the City of Aspen’s Canary Initiative.
• Both automobile drivers and transit users could benefit in a potential “win/win.”

Issues & Challenges:

• Federal and state rules would control the development of this program.
• A substantial public outreach effort would be necessary to build community support.
• Without social equity measures (e.g., enhanced and/or free alternative mobility options), this might be considered a regressive tax.
• Safeguards would be needed to mitigate traffic diversion to McLain Flats Road.
• Tolling facility should be close to Aspen to avoid charging for airport travel.
• This plan must offer travelers an excellent value proposition in exchange for road pricing.
• Implementation would require strong political will at all levels of government.

Cost Implications:

• Would generate substantial new revenue to reinvest in existing and new mobility alternatives.
• An initial investment would be required to fund the capital cost of tolling facilities (overhead detection) and the program startup costs.
Parking Strategies

Integrate parking into a larger, innovative mobility system through a combination of measures that might include the following:

- **Dynamic pricing**, which varies parking prices to respond to traffic congestion, parking availability and location, and special events.
- **Centralized valet services**, which could increase utilization of public and private parking spaces and garages. (For some, this might reduce the need for circling around the block.)
- **Zoning code changes** to discourage car use in residential/commercial developments.
- **Employer Carrot-Sticks**: Employers would limit parking and offer alternative transit options to employees instead of parking spaces. If parking were made more of a responsibility, neighborhoods might stop being “storage lots.”
- **Other City of Aspen ideas** for parking innovations are currently under study.

Because individual actions taken by Aspen, Snowmass and Pitkin County often affect the other jurisdictions, parking strategies should be considered and coordinated on a regional basis.

**Features & Advantages:**

- Each strategy or combination of strategies could be tested, modified, and refined over time.
- Parking strategies could be designed to park more cars outside town to reduce the number of cars downtown.
- Roadway capacity freed up by dynamic parking pricing is less likely to be filled by induced-traffic than other mobility options. This could complement dynamic road pricing.
- New revenues could be directed toward subsidizing transit passes and other alternative mobility modes.

**Issues & Challenges:**

- Unless parking strategies include significant new dynamic pricing, the principle of induced traffic would likely prevent this option from reducing traffic congestion on Highway 82.
- User acceptability.
- To be fair, a dynamic pricing plan would need to include social equity measures for commuting workers (e.g., enhanced and/or free alternative mobility options).
- Would not affect those with free parking spaces in downtown Aspen.
- Simply reducing parking places could adversely affect stores and restaurants.
- May prompt arguments about whether parking is a right or a privilege.

**Cost Implications:**

- Little capital cost.
- Modest operating costs.
- Dynamic pricing might generate new revenue to reinvest in other mobility alternatives.
Snowmass Village Connection Enhancements

More direct transit links to Snowmass Village on Brush Creek of Owl Creek roads (e.g., LRT or BRT) could be part of the larger mobility enhancement program.

The successes of the free skier shuttle and the evening direct service between Snowmass Village and Aspen demonstrate the potential to move travelers from private automobiles to transit “trunk line” service, which could be aligned with the existing BRT service as a first step. Future steps could include dedicated direct bus service in the peak periods. These services, combined with the possibilities of direct, aerial Mountain-to-Mountain connections, could integrate the ski areas of Snowmass, Buttermilk, Highlands, and Aspen within one operating system.

Features & Advantages:
- Connects the two upper valley communities and tourist bed bases.
- Expands on highly successful winter operations.
- Uses existing infrastructure.
- Focuses on tourism and employee mobility.
- Has significant carrying capacity.
- A scenic Owl Creek transit route might enhance the visitor experience.

Issues & Challenges:
- Because of the principle of induced traffic, this option is unlikely, by itself, to reduce traffic congestion on Highway 82.
- Labor intensive.
- Owl Creek would require costly improvements to accommodate transit.
- If transit ran on Owl Creek, the existing system using Brush Creek as a transfer station would lose some efficiencies.
- Owl Creek is challenging, particularly in winter.

Cost Implications:
- Relatively low capital costs, depending on system chosen.
- High operating cost, which could strain existing resources.
Airport/Transit Connectivity

Although the current airport bus station and Highway 82 pedestrian underpass serve the airport terminal, transit ride-share to/from the airport is only about 3%, although a good portion of the remaining 97% doesn’t necessarily drive a car the rest of the way. Based on current airport planning, this is not expected to change, even though enplanements are projected to increase significantly over the next 20 years. Options for stronger transit access to the airport:

- Using the existing BRT station on Highway 82, stopping buses at the terminal doors, or creating a designated airport transit shuttle. Options that use the BRT station would require some type of weather-protected connection to the terminal doors (e.g., covered and/or moving walkway).
- For a fee, hotel shuttles might be given the right to use bus lanes to and from the airport.
- More passengers might be intercepted outside the airport and transported via special transit.
- Empty hotel shuttles might “scoop up” passengers at bus stops.
- Visitors’ luggage might be transported directly to and from hotels for them (as in Switzerland).

Features & Advantages:
- Studies show that visitors would rather use transit than rent a vehicle.
- Additional transit ride-share from the airport would:
  - Reduce traffic growth facilitated by an expansion of rental cars.
  - Provide an opportunity for visitors to begin their Aspen experience on transit.
  - Decrease rental vehicles in Aspen and Snowmass Village.
  - Potentially increase visitors’ use of transit in town.
  - Provide savings on lodge and hotel shuttle costs.

Issues & Challenges:
- Because of the principle of induced traffic, this option is unlikely, by itself, to reduce traffic congestion on Highway 82.
- It’s unclear who is responsible for costs and planning for airport transit amenities.
- Bringing BRT to the terminal door would add significant travel time to the BRT system. This problem would be eliminated if airline passengers boarded a bus at the existing BRT station.
- Some lodges and hotels prefer to capture their guests at the terminal and provide transportation to control and enhance their Aspen experience.
- Some transit vehicles are not set up to take luggage.
- Loading luggage adds time to transit trips.
- Data on the mix of transportation modes is unavailable.

Cost Implications:
- Costs associated with developing transit access to terminal door.
- Loss of airport revenues from fewer vehicle rentals.
Transit-Oriented Affordable Housing (TOAH)

The concept of transit-oriented affordable housing (TOAH) has been pursued for many years in the upper Roaring Fork Valley. Over the decades, over 2,800 affordable housing units have been created in the upper valley to retain our sense of community, house our local workforce, and reduce the need for commuting on Highway 82. Fortunately, over half of Aspen’s population lives today in deed restricted affordable housing. Unfortunately, over 60% of the town’s workforce must still commute to town each day, significantly exacerbating traffic congestion. Job generation inside Aspen’s roundabout has outpaced the creation of affordable housing, locking in the need for many to commute.

One option for reducing travel demand is to redouble local efforts to locate affordable housing close to work or transit — and to do so in all local jurisdictions. For example, RFTA has located park and ride lots and transit stops close to Basalt, El Jebel and Carbondale neighborhoods. Each might offer affordable housing opportunities to help reduce travel demand on our highway.

Features & Advantages:
- TOAH works best when people can walk directly to work, eliminating the need to drive.
- TOAH can build community while reducing peak-hour travel needs.
- City and county governments are continually evaluating potential sites. Park and ride lots themselves could be used for affordable housing built over the parking lot, thus becoming a “live and ride.” Likewise, organizations located on campuses could be encouraged to build housing over parking lots and other land near their facilities.
- Many Aspen and Snowmass businesses are unable to hire sufficient employees during winter and summer seasons.
- Non-commuting employees enjoy more family time and arrive at jobs less stressed out.
- Affordable housing near work or transit increases social equity.

Issues & Challenges:
- Because of the proven principle of induced traffic, this option is unlikely, by itself, to reduce traffic congestion on Highway 82. Local experience bears this out.
- Even when it’s located near workplaces, new housing can still increase the number of cars on local roads, although at a lower rate than non-transit-oriented housing.
- Finding new upper valley housing sites has been a notorious problem for many years.
- New housing projects often provoke resistance from neighbors.
- New housing inevitably increases other community costs for things like schools, early education and daycare, hospitals, social services, police and other emergency responders, etc.
- While affordable housing and growth control have historically enjoyed support from many of the same upper valley voters, the goals of creating new housing and retaining our small-town quality of life are now beginning to conflict. Housing often generates significant opposition.
- Transit Oriented Affordable Housing is most effective in destination communities, but the easy sites for housing are often outside urban growth boundaries.

Cost Implications:
- Affordable housing is expensive. Projects require significant local-government subsidy, private sector investment, and/or compromising of local zoning requirements.
- Funding strategies include affordable housing taxes, tax incentives, land use requirements and fees, private initiatives, public/private partnerships, and federal/state programs.
Light Rail Transit (LRT) is contemplated as the final phase for transit in the Entrance to Aspen Record of Decision (ROD). The Elected Officials Transportation Committee (EOTC) of Pitkin County, Aspen and Snowmass recently commissioned a study to update the LRT alternative from Aspen to the Brush Creek parking lot/transit station. As currently designed, LRT would run from the Brush Creek lot to either Rubey Park or a new proposed station at Galena Street and Main Street. In the Galena and Main option, local buses would run from Rubey Park, and small autonomous transit vehicles would connect Rubey Park to the Galena & Main station.

Features & Advantages:
- Studies show LRT to be a more enjoyable transit experience than buses. LRT might enhance the visitor/commuter experience.
- Voters have approved LRT across the Marolt Open Space, and LRT is the preferred alternative in the Record of Decision for the Entrance to Aspen Environmental Impact Statement (EIS).
- Provides an opportunity for a future down-valley commuter rail connection.
- Has substantial passenger carrying capacity.
- Reduces more buses in downtown Aspen and across Castle Creek Bridge than BRT.
- By requiring fewer drivers than BRT, LRT would reduce RFTA’s hiring challenge.
- Onboard Charging Systems (OBS) represent a major breakthrough in LRT power technology, allowing a rail vehicle to operate without overhead wires. Instead, rail vehicles would run off of batteries and charge at stations using inductive charging.

Issues & Challenges:
- Because of the principle of induced traffic, LRT is unlikely, by itself, to reduce traffic congestion on Highway 82.
- Requires construction of the Modified Direct alignment across Marolt Open Space via the existing transportation easement with a direct connection to 7th and Main Street.
- By requiring passengers to transfer to/from buses at Brush Creek BRT Station, the BRT option may not be as convenient as existing one-seat ride services for commuters and skiers, and it might incur a “transfer penalty” in ridership.
- Very high capital and operating cost for which federal funding is unlikely.
- Although quiet, some might consider LRT out of scale with Aspen.
- Projected to have about the same ridership as the BRT option.
- Potential impacts to vehicle movements at at-grade intersections.
- LRT is an inflexible investment – but one with great longevity.

Cost Implications:
- Based on the recent EOTC study, LRT costs would range from $428 million to $528 million.
- High capital cost exceeds currently available budgets and revenue streams.
- LRT construction is more disruptive than BRT and complicated to phase. This could negatively impact financing options.
- Operating and maintenance costs are double those of the BRT option.
Mountain-to-Mountain Connection

Aerial intermountain gondola connections between Aspen and Snowmass have been discussed for half a century. They offer the potential both to significantly improve the skier experience and to alleviate some winter peak-hour roadway travel demand. Potential connections include:

A. A Highlands-Buttermilk gondola connecting the bases of Buttermilk and Highlands with a stop at the top of Buttermilk.
B. A gondola connection from Highlands to Aspen Mountain.
C. A gondola from Buttermilk to the summit of Elk Camp at Snowmass, designed to address stringent environmental criteria.

A system of intermountain gondolas connecting Aspen, Snowmass, Buttermilk and Highlands as a single skiable mountain complex could improve the Aspen-Snowmass winter experience and represent a major resort enhancement. Snowmass/Aspen visitors and valley skiers could all benefit.

Features & Advantages:
- During winter months, a mountain-to-mountain system could reduce peak-hour travel by taking skiers off the road and potentially reducing pressure on Highway 82, Brush Creek Road, Maroon Creek Road, Owl Creek Road and the entrance to Aspen roundabout.
- A mountain to mountain connection would likely reduce demand for upper-valley RFTA buses, possibly freeing up resources.
- It could help parents avoid many Ski Club and other mountain drop-off trips for children.
- Enhancing the winter resort experience would help protect Aspen’s appeal and competitive position as a world class winter resort destination. A gondola connection might also be a major attraction for non-skiers (like Chamonix’s Aiguille du Midi cable car ride).

Issues & Challenges:
- Because of the principle of induced traffic, this option by itself is unlikely to reduce traffic congestion on Highway 82, unless it were combined with a substantial auto-disincentive.
- Would require U.S. Forest Service approval and likely require support from all upper valley governments.
- Some neighbors might object to gondolas in their view plane.
- Environmental objections might be raised to a Buttermilk-Snowmass gondola, even if no access road were constructed.
- A gondola interconnection is not in the County’s master plan.
- It would not directly connect areas with large bed bases.

Cost Implications:
- A mountain to mountain interconnect system might be paid for with private investment.
- Opposition could exist to a public investment that might serve only skiers, although connections and integration with public transit might merit a public/private partnership or coordinated investment in some form.
Increased Highway Capacity for Vehicles
(unrestricted four-lane into Aspen)

[Note: Unlike the previous options, this one was not suggested by any outside experts consulted by the Community Forum Task Force or by any task force member. It is included here simply because it has been debated for so many decades in the upper valley.]

Traffic congestion exists on the two-lane portion on Highway 82 between Aspen’s four-lane Main Street and the four-lane highway from down valley to Buttermilk. To increase highway capacity, this option would add lanes without enforced restrictions (e.g., HOV or Bus). The option was rejected in the past, in part because it would increase traffic congestion, noise, and air pollution in downtown Aspen. (Note that Aspen’s PM-10 pollution has subsided since the 1990’s, and Aspen now meets federal air quality standards.)

Features & Advantages:
- Would reduce highway congestion in the short term.
- Would allow safer operations and reduce accidents by eliminating the S-curves.
- Could utilize the “preferred alignment” transportation easement across the Marolt Open Space.
- Would be adaptable to tolling to generate revenues and manage travel demand.
- Might improve emergency access in and out of Aspen in the short term.
- May accommodate rubber-tired transit solutions.

Issues & Challenges:
- Because of the principle of induced traffic, increased highway capacity (without dynamic road pricing) would not reduce long term traffic congestion on Highway 82. This has been demonstrated in other cities.
- Would immediately increase traffic congestion and noise in downtown Aspen.
- Would increase carbon emissions and other forms of air pollution in Aspen.
- Would place rubber-tired transit in mixed traffic, which would slow transit.
- Would require a City of Aspen public vote to cross the Marolt Open Space.
- Would violate the Aspen Area Community Plan and the Canary Initiative.
- Would require the Environmental Impact Statement process to be reopened because it is not currently approved in the Aspen Record of Decision*.

Cost Implications:
- Estimated cost is over $100 million.
- In the short term, reduced travel times might provide savings to motorists and to businesses dependent on the movement of goods and services. In the long term, traffic congestion would resume.
- Increased traffic congestion, noise and air pollution in downtown Aspen might reduce Aspen’s quality of life and resort appeal, harming the economy.
- Environmental Impact Statement required by the National Environmental Policy Act.
Other Options Not Studied for This Report

Over past decades, many mobility options have been considered for the Entrance to Aspen. Examples include a large intercept parking facility located close to Aspen (under the Marolt open space) and the so-called “split shot” in which traffic entering Aspen would cross the Marolt open space, while departing traffic would follow the existing S-curves. While the Marolt intercept lot idea was advocated by one of its members, the task force did not study either of these options, noting that both had been rejected in the environment impact review that was part of the Aspen Record of Decision.
ADDENDUM

1. Community Forum Task Force members
2. Expert speakers and links to their presentations
3. Options matrix and scoring system
4. Options scoring results
Community Forum Task Force
on Transportation and Mobility

Community Task Force Members
Task Force Members

John Bennett, Co-Chair
Former Mayor of Aspen
As former Cradle to Career Director for the Aspen Community Foundation, John Bennett oversaw the Aspen to Parachute Cradle to Career Initiative, which is aimed at increasing youth success across western Colorado. After more than two decades as a business CEO, Bennett moved to the public sector, serving four terms as Aspen’s mayor and overseeing a $40 million budget that produced a surplus each year he was in office. He later served as VP of the Aspen Institute, co-founder of the Cordoba Initiative, and president of For The Forest, an environmental stewardship organization. He’s a graduate of Yale University.

Bill Kane, Co-Chair
Advisory Principal, Design Workshop
Bill is a 42 year resident of the Valley. He served as Planning Director for Aspen and Pitkin County from 1974-78. He authored the Aspen/Pitkin County growth management plan and oversaw the rezoning of Aspen and much of Pitkin County. He also was a Principal at Design Workshop. Aspen and served as VP in charge of Planning and Development for Aspen Skiing Co. from 1995-2005. He currently resides in Basalt and is a commissioner on the Colorado Parks and wildlife Commission. He is also on the Board of Great Outdoors Colorado and Aspen Valley Land Trust. Bill is an advisory principal at Design Workshop.

Rose Abello
Director, Snowmass Tourism
Rose Abello was named Tourism Director for Snowmass Tourism in September 2014. She first moved to the Roaring Fork Valley in 1997 and served as director of communications for Aspen Skiing Company. She has spent more than 25 years marketing travel and tourism.

Pam Alexander
Aspen citizen
Formerly based in San Francisco, Alexander founded a technology-focused public relations firm which was acquired by WPP. Clients included Hewlett Packard, WebMD, EarthLink and the TED conference. She serves on the board of the Aspen Valley Ski Club, the Aspen Valley Hospital Foundation and the Aspen Art Museum, and is a former board member of the Aspen Community Foundation.

Markey Butler
Mayor, Town of Snowmass Village
Markey Butler is the first woman to be elected Mayor of Snowmass Village in its 37-year history. Butler is also the executive director of Hospice of the Valley.

Ward Hauenstein
Aspen citizen, City Councilman
Ward moved to Aspen in the fall of 1976. He is an enthusiastic bicyclist both mountain and road. In the winter he enjoys XC skate and classic, AT, and Alpine skiing. He is active in the Aspen Chapel and has been politically involved in local Aspen issues. He was elected to the Aspen City Council in May 2017.

Nina Eisenstat
Aspen Marketing and Communications
Nina Eisenstat provides marketing and strategic communications consulting services to businesses, public institutions, and non-profit organizations. She is serving her third term as an elected member of the Aspen Chamber Resort Association’s board of directors and sits on its marketing advisory and public affairs committees. She was a six-year member of the board of directors of the Buddy Program, president of its first national council, and a member of its community relations and development committees.

Brent Gardner Smith
Executive Director, Aspen Journalism
Brent Gardner-Smith is founder, editor and executive director of Aspen Journalism, a local nonprofit investigative journalism organization. Brent has over 30 years of experience in journalism, broadcasting and public affairs and has worked at the Aspen Daily News, The Aspen Times, Aspen Public Radio and Aspen Skiing Company. He has a master’s degree in journalism from the University Of Missouri School Of Journalism.

Tom Heald
Asst. Superintendent, Aspen School District
With long family ties to western Colorado (family homesteads on American Flats near Silverton and Dallas Divide near Telluride), Tom and his family have lived in the Roaring Fork Valley for 25 years, with equal stays in Carbondale, Silt, Glenwood and now Aspen. As assistant superintendent for the Aspen School District, Tom has a sphere of influence in constructing meaningful activities for students and staff to thrive as learners, while his greatest joy is being outside with his wife, sons, and dogs to climb, raft, ski, ride and wrestle with gravity.
Task Force Members

David Houggy
President, Aspen Science Center Board of Directors
David joined the Buddy Program team as new Executive Director in 2012, bringing a wealth of experience in business development and strategic planning. He is a founding member of the Advisory Board of Mentor Colorado, an organization founded to promote and advocate for mentoring throughout Colorado. He is also President and a member of the Board of Directors of the Aspen Science Center, dedicated to bringing STEM programming to the youth of the Roaring Fork Valley.

David Hyman
Former Owner, High Mountain Taxi
David worked for many years in the transportation industry as the owner of High Mountain Transportation, a taxi, shuttle and delivery company. He has served on several transportation committees and study groups over the years, and has a keen interest in transportation issues.

Michael Kinsley
Facilitator and Strategic Planner
Michael was a county commissioner from 1975-85, the period in which Pitkin County transitioned to progressive policies. So he can talk about Aspen’s good ol’ days ad nauseum. Since ‘83, he has worked for Rocky Mountain Institute on sustainable communities and campuses, plus designing and facilitating many RMI corporate workshops and charrettes. Now that he’s part-time with RMI, he provides mediation, facilitation and strategic planning services valley wide. And he’s a painter.

John Krueger
Director of Transportation, City of Aspen
John has worked for the City of Aspen for over 20 years. He started in the Parks department as the Trails Supervisor managing and building trails in the Aspen area. He worked closely with CDOT to build the trail along Highway 82, the underpasses at the golf course, Truscott and Buttermilk. As Director of Transportation, John coordinates with CDOT, RFTA, the EOTC, Pitkin County, Snowmass, and Glenwood Springs on planning and valley wide transportation projects and issues. He is also responsible for the management of the local transit system, car share program, the Downtowner, employer outreach and various Transportation Demand Management programs.

Melony Lewis
Aspen citizen
Melony has worked with various organizations nationally and locally, primarily focusing on the environment and education. She currently serves on the board of Vanguard Chapter of the Aspen Institute, Aspen Country Day School and Aspen Center for Environmental Studies. Her employment experience has included public relations and marketing, medical employment recruiting and placement, guiding cycling tours throughout Europe, and executive language coaching.

Cristal Logan
Vice President, Aspen Institute
Cristal Logan is Vice President, Aspen and Director of Community Programs at the Aspen Institute. During her 18 year tenure at the Institute, Cristal has expanded the number of community events to over 70 days of programming per year including lectures, seminars for teens, and discussion series year round. A fourth generation resident of the Roaring Fork Valley, Cristal served as one of the inaugural members of the Aspen Community Foundation Spring Board, and is Vice Chairman of the Board of the Aspen Chamber Resort Association.

Mirte Mallory
Founder & Executive Director, WE-Cycle
An Aspen native, Mirte is the Co-Founder and Executive Director of WE-cycle, the Roaring Fork Valley’s bike transit service. WE-cycle features 190 bikes at 43 stations between Aspen, Basalt, Willits, and El Jebel and is designed to serve as the first/last mile connection to RFTA and for short, quick, point-to-point trips. Mirte is the former Chair of the Pitkin County Planning & Zoning Commission and the Curator of the BERKO Photo Collection.

Tom Melberg
Real Estate Broker, Sotheby’s
Tom moved to Aspen, Colorado on June 1, 1975 and never looked back. He got his real estate license in 1978 and has found the work to be the best job one could have. Tom is envied by his fellow colleagues by how he is consistently one of the top producing real estate brokers in the Aspen area while balancing his joy and commitment to skiing, golf, yoga, fly fishing, hiking, hockey, bird hunting and meditation. Tom is forever grateful for making his move to Aspen and living the dream with his wife, Lindy, for the past 28 years and their now three grown children, Ella, Wylie and Maggie.
Task Force Members

Michael Miracle  
Director, Community Engagement, Aspen Skiing Company  
Michael Miracle is the director of community engagement at Aspen Skiing Company. In that role, Michael is tasked with deepening ASC’s connection to communities throughout the Roaring Fork Valley. That work could involve digging in on specific issues such as housing and transportation, or simply listening to and responding to community members concerns. Prior to joining ASC, Michael edited Aspen Sojourner magazine for a decade. His previous job in publishing was at Skiing magazine, where he worked for seven years, first as an assistant editor, then associate editor, and finally senior editor.

Maria Morrow  
Attorney and Principal, Oates, Knezevich, & Gardenschwartz, P.C.  
Maria Morrow is an 18-year Aspen resident, and has practiced law locally with OKGKM since her move from Chicago, where she began her legal career. After an impressive beginning as a federal court law clerk followed by practice as a litigator at the 100-year-old firm Kirkland & Ellis LLP, Maria moved to Aspen and joined Oates, Knezevich, & Gardenschwartz, P.C. She became a shareholder of this 34 year-old firm in 2007. Maria specializes in real estate transactions, business transactions, contracts, litigation, homeowners’ associations, and employment matters.

George Newman  
Member, Board of County Commissioners, Pitkin County  
George is on the Board of County Commissioners for District 5, and has been a Pitkin County resident since 1974. He holds a BS in Economics and an MA in Public Administration. He has a desire to protect the natural environment while maintaining a commitment to citizen involvement. He was a founding member and director of both Leadership Aspen (now Roaring Fork Leadership) and the Emma Caucus.

Steve Skadron  
Mayor of Aspen  
Steve Skadron is in his second term as Mayor of Aspen. Prior to becoming mayor, Skadron served as an Aspen City Council member for six years. Before that, he spent four years on the city Planning and Zoning Commission.

Greg Rucks  
Transportation Principal, Rocky Mountain Institute  
Greg Rucks is a principal in RMI’s Transportation Practice and is currently managing a multi-year partnership with the Austin community to develop and implement technology and world-class solutions for transforming mobility. With an eye on replicability, Greg is also helping scale solutions from Austin to other global cities, starting with Denver. Since joining RMI in December 2010, Greg led a commercialization effort focused on lightweight-vehicle design and development that has since been funded by the Department of Energy.

Sheri Sanzone  
Owner and Founder of Bluegreen  
Landscape Architect and Urban Planner  
Sheri is a landscape architect, planner and urban designer and founder of Bluegreen, a leading edge and environmentally responsible design studio based in Aspen. A former board chairperson of the Aspen-Pitkin County Housing Authority and Roaring Fork Leadership, Sheri also served on the US Green Building Council Colorado Chapter board. Before founding and nurturing Bluegreen, Sheri was Principal-in-Charge of Design Workshop’s Aspen office.

Zoë Brown  
Senior Associate  
The Aspen Institute  
Zoë served as an excellent manager of logistics for the Community Forum. While she was not an official task force member, she served as a key member of the team who worked tirelessly on this project.

John Sarpa  
President, Sarpa Development  
John has been a major real estate figure in Aspen and the Roaring Fork Valley since 1985. He co-chaired the citizens group that master planned and re-developed the Aspen Meadows, home of the Aspen Institute, Aspen Music Festival and School and the Aspen Center for Physics. He is currently the Vice Chairman of the Aspen Valley Hospital Foundation, a board member of the Valley Health Alliance and Chairman of the Aspen Institute Community Forum.
Task Force Members

Ralph Trapani  
Program Director, Parsons Transportation Group  
Mr. Ralph J. Trapani, P.E. is an award-winning engineer with over 40 years of transportation engineering experience. He is a Program Director with Parsons Transportation Group. He serves on the board of directors for CLEER (Clean Energy Economy for The Region). He spent 28 years with the Colorado DOT, serving as the I-70 Glenwood Canyon project manager for 12 years, and the State Highway 82 corridor manager for 10 years. He lives in Glenwood Springs, Colorado with his 16 year old son Lucca. He enjoys telemark skiing at Highlands, motorsports and cycling.

Barry Crook  
Assistant City Manager  
City of Aspen  
Barry Crook, is one of two Assistant City Managers for Aspen. He oversees affordable housing planning/development, the Transportation Department, the Parking and Downtown Services Department, the City Council’s Top Ten Goals effort and the city’s customer service/continuous improvement efforts. Mr. Crook has over 30 years of experience working in state and local government in both the budget/finance and quality/customer service areas.

Katie Viola  
Partner, Kissane Viola Design  
Katie Viola is partner at Kissane Viola Design in Aspen, Colorado. She and her husband Paul have been living in Aspen for 16 years. Katie and Paul relocated from NYC where they were design directors for a wide variety of print publications and websites. Currently Kissane Viola Design specializes in brand development, art direction and graphic design, with many national and local clients. Kissane Viola Design is located in downtown Aspen. Katie is on the board of the Aspen Education Foundation and her son John is a proud student of Aspen Middle School.
Community Forum Task Force on Transportation and Mobility

2

Expert Speakers with links to presentations
EXPERT SPEAKERS

Session 1, December 13 and 14, 2016

Jim Charlier, President, Charlier Associates
Wheeler Opera House and taskforce meeting

Charlier is a well-known transportation and land-use planner based in Boulder. He’s worked extensively in Aspen, in the Western US and in resort communities. Charlier discussed the influence of economics, demographics, settlement patterns, and technology on transportation systems and mobility, as well as the changing behavior and expectations in both public and private transportation.

LINK: https://www.aspeninstitute.org/events/community-forum-reimagining-mobility-roaring-fork-valley/

Session 2, March 9 and 10, 2017

Ann Bowers and Chris Breiland, Fehr & Peers
Doerr-Hosier Center and taskforce meeting

Bowers and Breiland, who have worked on transportation in the Roaring Fork Valley for years, discussed practical new ways to reduce demand for transportation systems, while increasing convenience; emerging technologies that affect design, safety, and efficiency of all travel modes; how lifestyle and behavioral trends influence transportation systems; and how big data helps us better understand travel patterns. Bowers’ expertise includes the most advanced, state-of-the-practice transportation analysis techniques, and Breiland is an expert in complex multimodal corridor analysis.

Session 3, May 24 and 25, 2017

Tony Dutzik, senior policy analyst, Frontier Group
Doerr-Hosier Center and taskforce meeting

Frontier Group is a public policy think tank focusing on the intersection of transportation, energy, and the climate. Dutzik discussed innovative mobility technologies and services—what they are and what they do; case studies in US cities where these technologies and services have been applied; and the opportunities and challenges that innovative mobility solutions present.


Session 4, June 6, 2017

Greg Rucks, Rocky Mountain Institute’s transportation practice
Wheeler Opera House and taskforce meeting

Rucks addressed the technological innovations that are providing cost-effective, low-carbon solutions to traffic and congestion issues in other cities. He also discussed the pilot program he’s managing in Austin, Texas, and how the Roaring Fork Valley is well-suited to implementing such a program.

3
Options Matrix & Scoring System
Options Matrix & Scoring System

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OPTION/VALUE RATING SYSTEM

3 = Fully consistent with this value. Substantial progress
2 = Adequately consistent with this value
1 = Minimally consistent with this value
0 = Neutral or Not Applicable
-1 = Inconsistent with this value
-2 = Extremely inconsistent with this value. Detrimental impacts
Options
Scoring Results
Community Forum Task Force on Transportation and Mobility

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A  Survey Results Option Scoring
B  Value Areas Scoring
C  Highest Selection Summary of Options
D  Additional Evaluation, Q&A
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Community Forum Task Force on Transportation and Mobility Survey Results

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Community Forum Task Force on Transportation and Mobility Survey Results
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Community Forum Task Force on Transportation and Mobility Survey Results
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### B. VALUE AREAS SCORING

#### Essential Community Values

*(Community Character and Environmental Quality)*

1. Ride Sharing and Airport Connectivity (TIE)
2. Ride Hailing, Enhanced BRT and Affordable Housing (TIE)

#### Operating System Values

*(Congestion Reduction, Social Equity, Convenience/Comfort, Adaptable to Future)*

1. Enhanced BRT
2. Ride Sharing
3. Ride Hailing

#### Minimum System Requirements

*(Safety, Financial Viability, Capacity to Move People and/or Reduce Travel Demand)*

Community Forum Task Force on Transportation and Mobility Survey Results
C. HIGHEST SELECTION SUMMARY OF OPTIONS

Overall “Favorite” Options of Forum Members

<table>
<thead>
<tr>
<th>#1 Enhanced BRT</th>
<th>#2 Ride Sharing System</th>
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Overall, what are your three favorite options?

- Enhanced Bus Rapid Transit (BRT): 18
- Ride Sharing System: 12
- Transit Oriented Affordable Housing (TOAH): 9
- High Occupancy Vehicle (HOV) Lane Enhancement: 9
- Dynamic Road Pricing: 7
- Ride Hailing Systems: 6
- Parking Strategies: 5
- Snowmass Connection Enhancement: 4
- Airport/Transit Connectivity: 4
- Light Rail Transit (LRT): 2
- Mountain to Mountain Connection: 2
- Increased Highway Capacity: 0
Overall Top Scoring Options by Values Assessment

#1  Enhanced Bus Rapid Transit (BRT)
#2  Ride Sharing System
#3  Airport/Transit Connectivity
#4  Ride Hailing Systems
## D. ADDITIONAL EVALUATION

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14 - Please weigh the relative importance of each value.
(1 = least valuable, 3 = most valuable)

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