

Eva J. Henry - District #1 Charles "Chaz" Tedesco - District #2 Emma Pinter - District #3 Steve O'Dorisio – District #4 Lynn Baca – District #5

STUDY SESSION AGENDA TUESDAY April 20, 2021

ALL TIMES LISTED ON THIS AGENDA ARE SUBJECT TO CHANGE

10:30 A.M. ATTENDEE(S): Adam Burg

ITEM:

ITEM: Legislative Update

11:10 A.M. ATTENDEE(S): Dave Ruppel / Brian Gulliver, Kimley-Horn

ITEM: Spaceport Master Plan Briefing

11:40 A.M. ATTENDEE(S): Ryan Nalty / Melissa Scheere / Peter Lifari,

Executive Director, Maiker Housing Partners Recovery Teams (Business & Housing) Update

12:40 P.M. ATTENDEE(S): Dr. John Douglas, Executive Director, Tri-County

Health Department

ITEM: Tri-County Health Department Update

1:10 P.M. ATTENDEE(S): Raymond Gonzales

ITEM: Administrative Item Review / Commissioners

Communication

1:40 P.M. ATTENDEE(S): Heidi Miller

ITEM: Executive Session Pursuant to C.R.S. 24-6-402(4)(b)

and (e) for the Purpose of Receiving Legal Advice and Instructing Negotiators Regarding Daves Case

TO WATCH THE MEETING:

Watch the virtual Zoom Study Session through our You Tube Channel



STUDY SESSION ITEM SUMMARY

DATE OF STUDY SESSION: April 20, 2021

SUBJECT: Spaceport Master Plan Briefing

OFFICE/DEPARTMENT: Colorado Air and Space Port

CONTACT: Dave Ruppel

FINACIAL IMPACT:

SUPPORT/RESOURCES REQUEST:

DIRECTION NEEDED:

RECOMMENDED ACTION: Progress update on the Spaceport Master Plan.

DISCUSSION POINTS:

Colorado Air and Space Port has been working with Kimley-Horn and stakeholders on a Spaceport focused master plan for the property. This will be an overview of the work underway and address alternatives that have been identified for future development and feedback.

- CASP Spaceport focused infrastructure.
- Development Alternatives based on the data collected concerning future industry needs.
- Discuss input from the Planning Advisory Committee.
- Next steps on Spaceport Master Plan.



Agenda

- Current Progress
- Facility Requirements
- Alternatives Analysis
- Next Steps





Current Progress

Colorado Air and Space Port



Implementation Plan Master Planning Process **Financial Plan** We are Here **ALP Markups Capacity Analysis Alternative Concept Inventory Existing Activity & Demand Final Documents &** & Facility & Environmental **Conditions Plan Adoption Forecasting** Requirements Overview 16 -18 Month Process



June 2020



November 2021

Spaceport Master Plan Report





Drafts Complete



In-Work

Upcoming





Facility Requirements

Colorado Air and Space Port







			Estimated Development Progress					
		Carrier Aircraft	Preliminary			Operational		Status
			1	2	3	4	5	
	RocketPlane XP	None						On Hole
	Airbus Defence and Space SpacePlane	None						On Hol
Х	Bristol Ascender	None						Active
^	PD Aerospace Spaceplane's	None						Active
	SABRE Development Vehicle	None						Active
	Reaction Engines Skylon	None						Active
	XCOR Lynx	None						Cancele
Υ	Dawn Aerospace Mk-II Aurora	None						Active
	Dawn Aerospace Mk-III	None						Active
	Northrop Gumman Pegasus XL	L-1011						Active
	Coleman Aerospace	C-17						Active
	Coleman Aerospace	C-130						Active
	Virgin Orbit LauncherOne	B747-400						Active
	Virgin Galactic SpaceShipTwo	WhiteKnightTwo						Active
_	Stratolaunch Talon-A	Roc						Active
Z	Generation Orbit X-60A	NASA C-20A						Active
	Aevum	Ravn X						Active
	Bristol Spacecab	Custom						Active
	Bristol Spacebus	Custom						Active
	Orbital Access Orbital 500R	MD-11						Active
	S3 SOAR Spaceplane	A300						Cancele

			Estin					
Vehicle D	Vehicle Description		Preliminary			Оре	rational	Status
			1	2	3	4	5	
Reentry	Boeing X-37B	Vertical Rocket						Active
Vehicle	SNC Dream Chaser	Vertical Rocket						Active
	Zero-G (727-200)	None						Active
Support Vehicle	Super Guppy	None						Active
	F-104 Starfighter	None						Active
	Boom XB-1	None						Active
Super	Aerion AS2	None						Active
Sonic	Spike S-512	None						Active
	Boom Overture	None						Active
Balloon	World View Stratollite	Balloon						Active
Balloon	Space Perspectives Neptune	Balloon						Active
	Masten Xodiac	None						Active
VTVL	Blue Origin New Shephard	None						Active
VIVE	SpaceX Starship	None						Active
	New Frontier Aerospace	None						Active







		Existing / Future	Ultin	nate
Vehicle Descript	ion	8/26 and 17/35	8 / 26 (10,000 ft x 150 ft) L / W	17 / 35 (12,000 ft x 150 f L / W
	RocketPlane XP			
	Airbus Defence and Space Spaceplane			
	Bristol Ascender			
Х	PD Aerospace X06			
^	PD Aerospace X07			
	PD Aerospace X08			
	SABRE Development Vehicle			
	Reaction Engines Skylon			
	XCOR Lynx			
Υ	Dawn Aerospace Mk-II Aurora			
	Dawn Aerospace Mk-III			
	Northrop Grumman Stargazer (L-1011)			
	Virgin Orbit Cosmic Girl (747-400)			
	Virgin Galactic WhiteKnightTwo			
	Stratolaunch			
	Generation Orbit Gulfstream (C-20A)			
-	Aevum RavnX			
Z	Bristol Spacecab			
	Bristol Spacebus			
	Orbital Access (MD-11)			
	Swiss Space Systems (A300)			
	Coleman Aerospace (C-17)			
	Coleman Aerospace (C-130)			
TC = Off the Cha		tentially Compatible	e Not Con	npatible

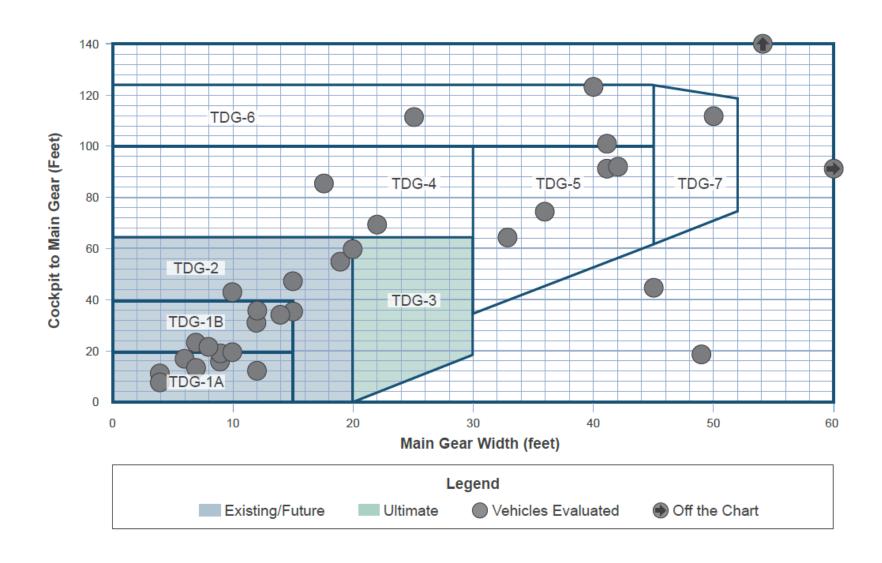
		Existing / Future	Ultir	nate	
Vehicle Descripti	on	8/26 and 17/35 (8,000 ft x 100 ft) L / W	8 / 26 (10,000 ft x 150 ft) L / W	17 / 35 (12,000 ft x 150 ft) L / W	
Doontry Vohiolo	Boeing X-37B				
Reentry Vehicle	Sierra Nevada Corporation Dream Chaser				
	Zero-G (727-200)				
Support Vehicle	Super Guppy				
	Starfighter (F-104)				
	Boom XB-1				
Cupar Capia	Aerion AS2				
Super Sonic	Spike S-512				
	Boom Overture				
OTC = Off the Chart — Compatible — Potentially Compatible — Not Compatible					

% Compatibility	Existing / Future	Ultimate 8/26	Ultimate 17/35
Runway	50%	75%	95%

Infrastructure Requirements	Near-Term	Mid-Term	Long-Term
Runway 8/26	Existing	Existing	Existing
Runway 17/35	Existing	Existing	10,000 ft (75%) 12,000 ft (95%)

Taxiway Compatibility







Facilities Evaluated

- Runways, Taxiways, and Aprons
- Hangars and Vehicle Processing
- Payload Processing
- Mission Control, and Terminal Facilities
- Propellant Storage
- Incubator Space
- Test Facilities









Facility Requirements Summary



2021 - 2025

2026 - 2030

2031 - 2040

Kimley » Horn

Expect More. Experience Better.

	Configuration	Compatibility	Runway Length	Runway Width	ADG	TDG	Hangar (sqft)	
		35%	8,000	100	- 1	1B	< 10,000	(N) Near-Term
		40%	8,000	100	Ш	1B	10,000 – 20,000	Near-Term Mid-Term:
	Existing / Future	45%	8,000	100	Ш	1B	10,000 – 20,000	Long-Term
٢		50%	8,000	100	II	2	10,000 – 20,000	7
	Ultimate	55%	9,000	100	II	3	20,000 – 40,000	_
		60%	9,000	150	Ш	4	20,000 – 40,000	
	IIII	65%	10,000	150	IV	5	20,000 – 40,000	
	Ultimate + TDG 5	70%	10,000	150	IV	5	20,000 – 40,000	
		75%	10,000	150	IV	5	20,000 – 40,000	\square (N)(M)
		80%	12,000	150	IV	6	40,000 – 60,000	
	Ultimate + TDG 7	85%	12,000	150	IV	6	40,000 – 60,000	
		90%	12,000	150	IV	7	40,000 – 60,000	
	Custom	95%	12,000	150	IV	отс	40,000 – 60,000	
	- Cuctom	100%	16,500	200	٧	отс	> 100,000	



Alternatives Analysis

Colorado Air and Space Port



Alternatives Overview



Runway 17/35

- 1

Runway 8/26

Taxiways

Aprons

Testing

Mission Preparation Area

-

Aerospace Development Area

Location	Vehicle Processing	Payload Processing	Mission Control Center	Propellant Storage	Terminal Facility	Multi-Use Facility
1	1	1	1	1	1	1
2	2	2		2	2	2
3	3	3	2	3	3	_
4	4	4		4	4	3
5	5	5	3	5	5	4

Runway 17/35

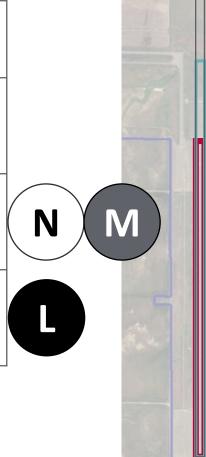


Alt 3

Alt 2

Alt 1

		Length	Width	Pavement Strength
Alternative 1	(50%)	(No Change) 8,000 ft	(No Change) 100 ft	(No Change) 34,000 lbs SW 75,000 lbs DT
Alternative 2	(75%)	10,000 ft	150 ft	Strengthen to Accommodate 75% of fleet
Alternative 3	(95%)	12,000 ft	150 ft	Strengthen to Accommodate 95% of fleet



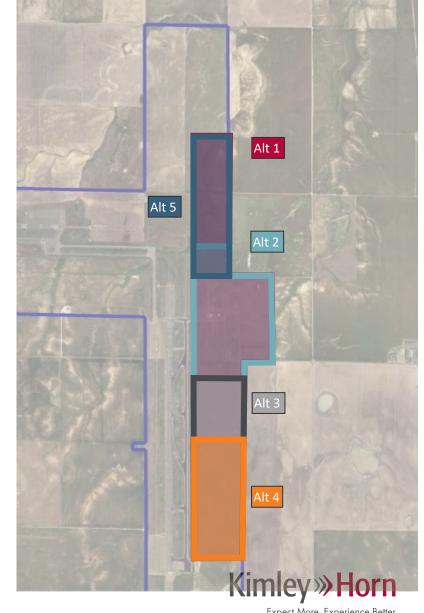






Aerospace Development Area

	Area	Conflict with Existing ALP?	Contingent on Runway Extension
Alternative 1	450-acres	Yes	Yes, 12,000 ft
Alternative 2	375-acres	Yes	Yes, 10,000 ft
Alternative 3	180-acres	Yes	No
Alternative 4 N	120-acres	No	No
Alternative 5	100-acres	No	Yes, 12,000 ft









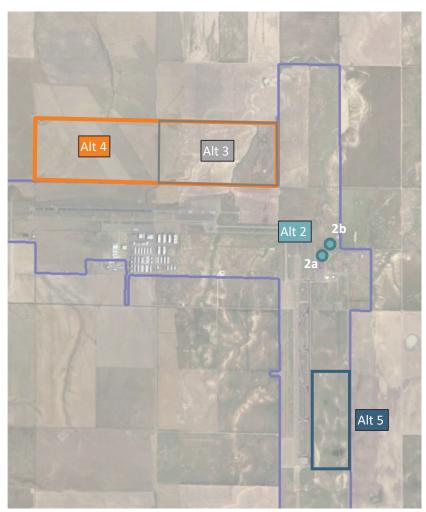
Testing



Kimley**≫**Horn

Expect More. Experience Better.

	Area	# of Test Sites	Existing Infrastructure	On Airport Property
Alternative 1	No Action	0	N/A	N/A
Alternative 2	~2-acres each	2 small	Yes on 2a No on 2b	Yes
Alternative 3	300-acres	2 large	No	No
Alternative 4	625-acres	4 large	No	No
Alternative 5	150-acres	2 small	No	Yes



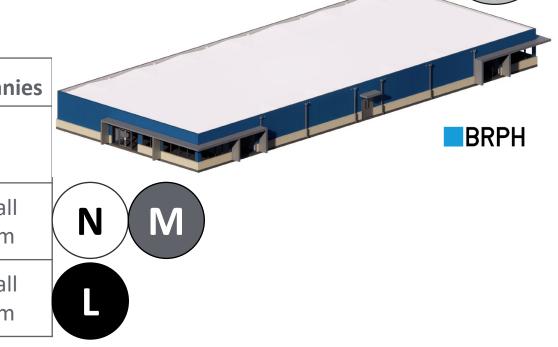






Multi-Use Facility

	Size	# of Companies
Alternative 1	N/A	N/A
Alternative 2	15,000 sqft	2 – 4 small 1 medium
Alternative 3	30,000 sqft	4 – 8 small 2 medium



Infrastructure Requirements	Near-Term	Mid-Term	Long-Term
Incubator Space	1 company 2,500 sqft to 5,000 sqft	2 company 5,000 sqft to 10,000 sqft	4+ company 10,000 sqft to 20,000+ sqft
Mission Control Center	1,000 sqft to 2,500 sqft	1,000 sqft to 2,500 sqft	5,000 sqft to 10,000 sqft
Payload Processing Facility	None	1,000 sqft modular cleanroom	Additional 1,000 sqft modular cleanroom or 10,000 sqft standalone PPF







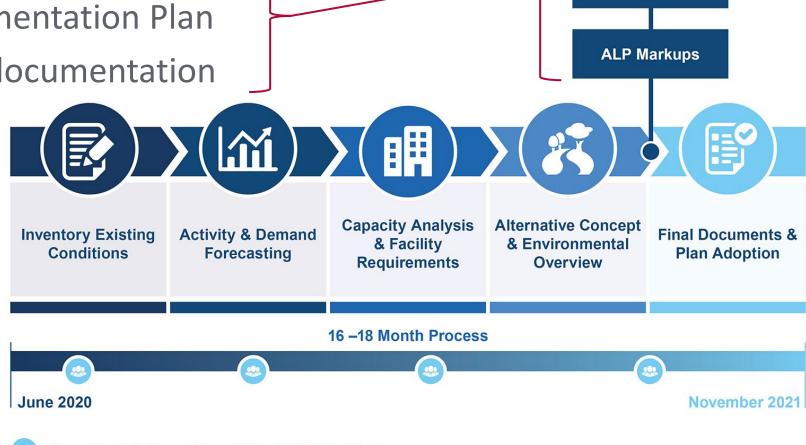


Next Steps



Next Steps

- 1. Finalize Alternatives Chapter
- 2. Develop Implementation Plan
- 3. Integrate final documentation



Implementation Plan

Financial Plan





STUDY SESSION ITEM SUMMARY

DATE OF STUDY SESSION: April 20, 2021

SUBJECT: Update on Recovery Team Efforts (Housing Stability & Business Support/Unemployed)

OFFICE/DEPARTMENT: Community & Economic Development

CONTACT: Ryan Nalty, Interim Director (And Chair of Business Workgroup)

FINACIAL IMPACT: None

SUPPORT/RESOURCES REQUEST: None

DIRECTION NEEDED: None

RECOMMENDED ACTION: None

DISCUSSION POINTS:

- Overview of efforts of both Business/Unemployed Workgroup (Ryan Nalty, Chair) and Housing Stability (Peter LaFari, Chair)
 - These groups were the next iteration of the 6 Response and Recovery Teams during 2020, some issues such as Childcare and Aging Services were contained with partner groups.
- Both of the Workgroups are looking for where the County can lay groundwork for long-term recovery, including short term efforts today.
 - o Groups will continue to have immediate response and ensure funds are "out the door."
 - o Identify and isolate gaps where County support or funds can be most impactful.
- Coordination between Business and Housing groups solve the overall problems, rather than individual parts.

Adams County Response and Recovery

Housing Stability
Business Retention & Support for the Unemployed

Purpose of the Workgroups

- Coordinate resources and supports across Adams County
 - Gain mutual understanding of the need
 - Facilitate connections
 - Open to anyone interested and building on the earlier 8 Response and Recovery Teams
- Ensure consistent communications around restrictions/openings
- Provide updates on vaccination

Workgroup Leadership Team

- Ryan Nalty AdCo, Chair of Business Response and Recovery
- Peter LiFari Maiker Housing Partners, Chair of Housing Response and Recovery
- Adam Burg *AdCo*
- Ariel Tolefree-Williams AdCo
- Bo Martinez City of Parker
- Jennifer Tellis TCHD
- Kami Welch Arvada Chamber of Commerce
- Lindsey Earl AdCo
- Melissa Scheere AdCo
- Joe Espinosa Brighton Housing Authority

Business Workgroup Members - 84 People

- Ryan Nalty AdCo
- Adam Burg AdCo
- Andres Carrera AdCo
- Max Daffron AdCo
- Amanda Blaurock Village Exchange Center
- Adrian Gutierrez 3 Margaritas
- Bo Martinez City of Parker
- Brittany Morris Saunders Amazon
- Jennifer Tellis TCHD
- Kami Welch Arvada Chamber
- Juliet Abdel Westminster Chamber
- Sofia Aguilar CO Hispanic Chamber of Commerce
- Denyse Airheart Mi Casa Resource
 Center
- Jessica Alizadeh Fairfield and Woods
- Angela Atkinson North Metro SBDC
- Sam Bailey Metro Denver EDC
- Bryce Ballew Tradecraft
- Jason Barrow Bover's
- Kathie Barstnar NAIOP CO
- Kyla Benson East CO SBDC
- Julie Blair CO Farm Bureau
- Peter Brissette Review Me Marketing
- Debra Brown Good Business CO
- Tracy Carter East CO SBDC

- Michelle Claymore Commerce City
- Kevin Doran Aurora EDC
- Alexy Duplikhin CO Dept. Labor & Employment
- Mike Ferrufino CO Hispanic Chamber of Commerce
- Shannon Fields City of Northglenn
- Nancy Flock Commerce City
- Susan Frew Sunshine Plumbing & Heating
- Janet Fritz ACREP
- Greg Fulton CO Motor Carriers Assoc •
- Patrick Giron *Brighton EDC*
- Noelle Glasser AdCo
- Jeanette Gonzalez AdCo WBC
- Maria Gonzalez Adelante Comm. Dev.
- Yuriy Gorlov Aurora EDC
- Victoria Hafele AdCo
- Carrie Hansen CO Enterprise Fund
- Jodi Hardee Commerce City
- Erin Hartman Hot Shot Supply
- Steve Hebert Town of Bennett
 - Bert Hendricks CO Dept. Labor & Employment
- Tammy Hernandez Casa Del Rey
- Nicholas Hoover CO Restaurant Assoc •
- Kevin Hougen Aurora Chamber

- John Hovey North Metro SBDC
- Lisa Hudson East CO SBDC
- Tim Jackson CO Automotive Dealers Assoc
- Erin Krueger ACREP
- Katie Kruger Denver Metro Commercial Assoc of Realtors
- Heather LaCrue Commerce City Chamber
- Aryn Lallas First American Title
- Lauren Lambert Google
- Maggie Lea Mile High Connects
 - Jenny Leon City of Thornton
- Michael Martinez Brighton EDC
- Robin Martinez City of Thornton •
- Shawn Martini CO Farm Bureau
- Greg McBoat AdCo
- Wendy Mitchell Aurora EDC
 - Susan Noble Commerce City
- Drew O'Connor Maiker Housing
- Robin O'Dorisio CO Lighting, Inc.
- Joel Parriott AdCo
- Milissa Peifer Alternatives for Youth
- Rebecca Post AdCo
- Juliana Ramirez Servicios de la Raza

- Lisa Ranalli City of Thornton
- Graciela Rocha Good Business
- Daniel Ryley City of Arvada
- Jessica Sandgren City of Thornton
- Melissa Sager TCHD
- John Sauter Sunnydale Farms
- Edgar Silerio CO Enterprise Fund
- Pam Smith Anythink Libraries
- Damon Stano Western Meats
- Debbie Tuttle City of Northglenn
- Jayde Van Cleave CO Farm Bureau
- Lynette White Town of Bennett
- Faith Winter CO State Legislator
- Deya Zavala Mile High Connects
- Savannah Mantele Sewald Hanfling

Housing Workgroup - 61 People

- Peter Lifari Maiker Housing
- Sheila Lynch TCHD
- Adam Burg AdCo
- Amanda Blaurock Village Exchange Center
- Andres Carrera AdCo
- Ariel Tolefree-Williams AdCo
- Heidi Aggeler Root Policy Research
- Lisa Avila CO Legal Services
- Tom Anderson City of Westminster
- Aaron Bindman CO Legal Services
- Chris Boyd CO Center on Law and Policy
- Destiny Bossert CO Apartment Association
- Deb Bristol Brighton Housing Authority
- Don Burnes CO Center on Law and Policy
- Paolo Diaz AdCo
- Ashley Dunn *Almost Home*
- Joseph Espinosa Brighton Housing Authority
- Karen Fox Elwell *Growing Home*
- Angelica Franco Westminster Parks, Rec, & Libraries
- Craig Fitchett Dell West
- Susana Gershwin Aurora Public Schools
- Jenni Grafton City of Westminster
- Cesiah Guadarrma Trejo Colorado 9 5

- Andrew Hamrick Apartment Association of Metro Denver
- Wendy Hawthorne *DOH*
- Leigh Her-Moua Adams 12 Five Star Schools
- Jessica Hulse City of Northglenn
- Lisa Jansen Thompson Early Childhood Partnership of AdCo
- Lindsay Jasper Tschetter Sulzer Law Firm
- Jill Jennings Golich AdCo
- Tracy Jones Commerce City Housing Authority
- Steven Kunshier Maiker Housing Partners
- Aryn Lallas First American Title
- Maggie Lea Mile High Connects
- Susana Lopez-Bakser Brighton Housing Authority
- John Lucero Lucero Development Services
- Adam Lyons City of Thornton
- Mark Marshall Rocky Mountain Communities
- Katie McKenna Enterprise Community Partners
- Anna Meehan Adams 12 Five Star Schools
- Ben Nichols City of Thornton
- Drew O'Connor Maiker Housing Partners
- Melissa Perrine Adams 12 Five Star Schools

- Desiree Quintanilla 27J Schools
- Ric Reed AdCo
- Jack Regenbogen CO Center on Law and Policy
- Jason Rogers Commerce City
- Melissa Scheere AdCo
- Kate Skarbek City of Westminster
- Jamie Skaronea Westminster Public Schools
- Joe Stanoch CRL Associates
- Lynette Steinhoff AdCo School District 14
- Jaylin Stotler City of Thornton
- Lizzy Ullman CO Legal Services
- Rupa Venkatesh City of Northglenn
- Jaime White 27J Schools
- Deya Zavala Mile High Connects
- Jordan Zielinski St. Charles Town Company
- Savannah Mantele Sewald Hanfling
- Lindsey Earl AdCo
- Crystal Wasinger Brighton Housing Authority

High Level Workgroup Accomplishments

- Collaborative real-time problem solving
 - Evident in our current approach to emergency rental assistance
 - The County, PHA's, and DOH application portal and outreach working as one collective
- Coordination and distribution of stimulus funds and other financial supports.
- Collaborative, vesting approach to medium and long-term sustainability planning regarding:
 - Housing production
 - Business support
 - Preservation and funding strategies that will inspire, inform, and support recommendations for the County and Municipalities in the years ahead

Business Retention & Support for the Unemployed

Business Retention Goals

- Businesses experiencing a loss of revenue and/or individuals experiencing unemployment due to COVID-19 receive needed support from Adams County.
- As the needs of the businesses and health department guidelines continuously evolve, coordination of the business and economic development community is critical for the economic vitality of the region. With rising case numbers in Adams County, the Workgroups are focusing on meeting the higher rigor of safety guidelines in order to support businesses to stay open, to maximize and retain employment opportunities and skill development and safety of the workforce while operating at a safe capacity.

Business Workgroup Successes

- Created and launched the Small Business Stabilization Program
 - To date, the program has:
 - Provided \$1.01M in grants to local businesses
 - Retained over 70 jobs held by low-to-moderate income employees
 - Average of \$14,500 per business
 - Increased job retention, resulting in housing stability
- Regional conversations on gaps that exist for business support
 - Coordination of who might fill those gaps
- Additional coordination and marketing of the current 5 Star Program across AdCo
- The Small Business Relief Program
 - Set through SB20-0001, award amounts and eligible sectors
 - Adams County ED staff administered
 - o 132 business supported, \$640,500 in awards

Business Retention Areas to Explore

• Examples of Policy Ideas

- Continued support for low-moderate income employees
 - Minimize displacement of employees
- Short term assistance for businesses
- Incorporation of all tools and incentives such as OZ, EZ, etc. with recovery

• Examples of Accessibility Ideas

- Communications in multiple languages
- New economic factors
 - E-Commerce vs. niche local services
 - Business expos to showcase local business
- o Business social media marketing campaigns restore confidence

Business Retention Area to Explore

• Examples of Workforce Support

- Early Childhood Education support to the AdCo workforce
- Support to develop long-term, sustainable employment and skill development

• Examples of Consumer Confidence

- Marketing to support consumer confidence
 - Outreach in multiple languages
 - "Buy Local" campaign to promote longevity of local business
- Business anxiety about uncertainty and expectations

• Examples of Promotion and Confidence in Vaccines

- Provide linguistic support and locations in less-mobile, high-need areas
- Continued education as legal expertise is provided and have workplace guidance updates
- Incentives for workers to be vaccinated such as use of work hours

Housing Stability

Housing Stability Goals

- The Adams County Housing Stability Workgroup is working to keep people in their homes and ensure community members' other housing needs are met during the COVID-19 crisis. This includes identifying policy and system shifts that may be needed, and providing an avenue for clear, concise information and aid in real-time.
- As the housing crisis has existed prior to COVID-19, it will exist through 2021 and beyond. Marshaling existing resources to ensure Adams County community members stay safe and housed, and landlords solvent, is the priority.
- The Adams County Housing Stability Workgroup will focus on preserving the region's precious existing affordable housing communities, utilizing an equity lens, while concurrently creating an economic climate conducive to the development of safe, vibrant, and affordable multi-family and single-family affordable housing communities.

Housing Workgroup Successes

- AdCo Rental Assistance Program launched April 2021
 - Evaluated and Planned with Adams County Leadership and Staff
 - Collaborative Partnership between the County and PHA's
 - Maiker Housing Partners, Commerce City Housing Authority, and Brighton Housing Authority
 - Unified application portal for all Adams County applicants
 - County Led Communications and PR for unified message
- Contributed \$865,000 in HOME Investment Partnership Program funds to Brighton for the Housing Authority's tenant-based rental assistance programs
 - o 8 Families currently in process of leasing a new home
 - o 12-24 months in rental assistance total per head of household
- ECPAC is convening educators and housers to create partnerships

0

 Piloting after school tutoring, digital divide mitigation and rapid rehousing for homeless youth in 27J

Housing Stability Areas to Explore

- **Immediate Needs Ensure Access and Awareness**
 - Rental & Mortgage Assistance
 - **Utility Assistance**
- **Further Explore Policy Ideas**
 - Zoning and land use requirements to support development
 - Land Trusts, purchase of available property, and existing unused properties
- Housing Supports to Explore

 Output

 Support services both co-located and for scattered sites
 - Utilization of recovery funds to secure properties for longer-term usage
- Longer term strategic planning
 - Alignment of systems

 - Focus on equity and access Consumer input throughout on impact of COVID
 - County and municipality roles and responsibilities delineated
- Coordination with Plan on Homelessness as it is finalized

Next Steps

- Continue immediate response and to ensure funds are "out the door"
- Focus more deeply on recovery strategies generate ideas to lay the groundwork for recovery
- Bringing together Business and Support for Unemployed and Housing for overall strategy and coordination
- Incorporation of all incentive programs into strategy