







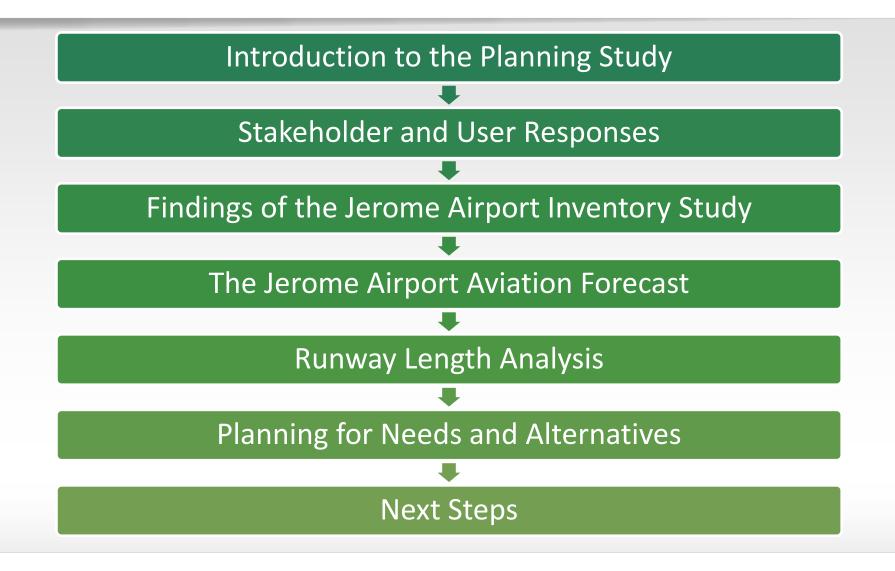


Jerome County Airport (JER)

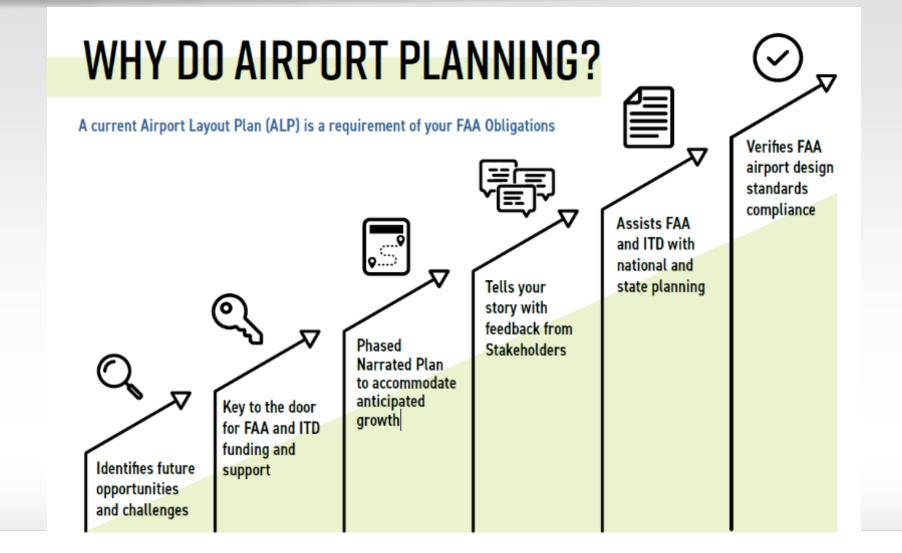
Airport Master Plan Update – Technical Advisory Committee Kick Off February 2, 2021



AGENDA



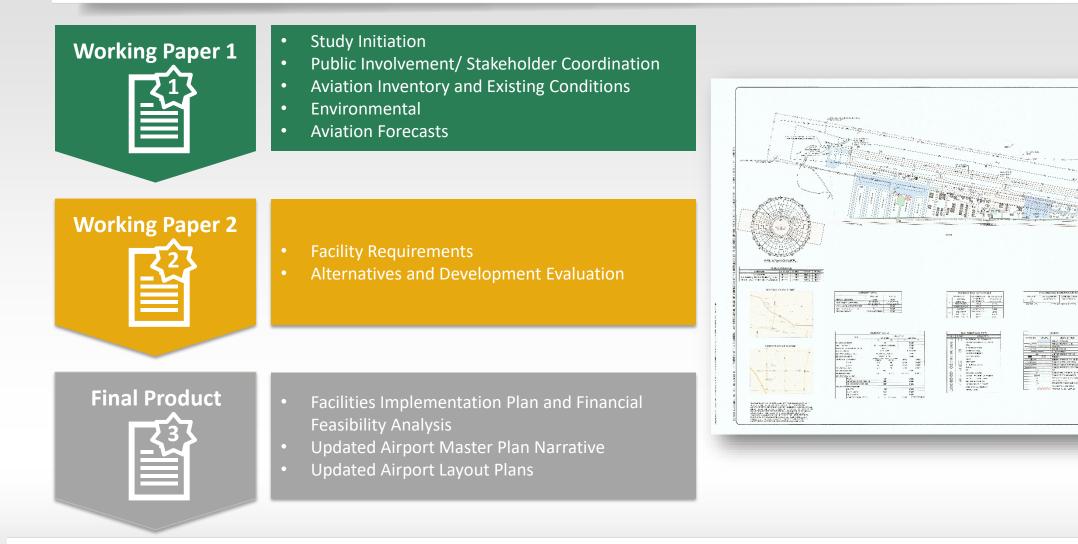
WHY DO AIRPORT PLANNING?



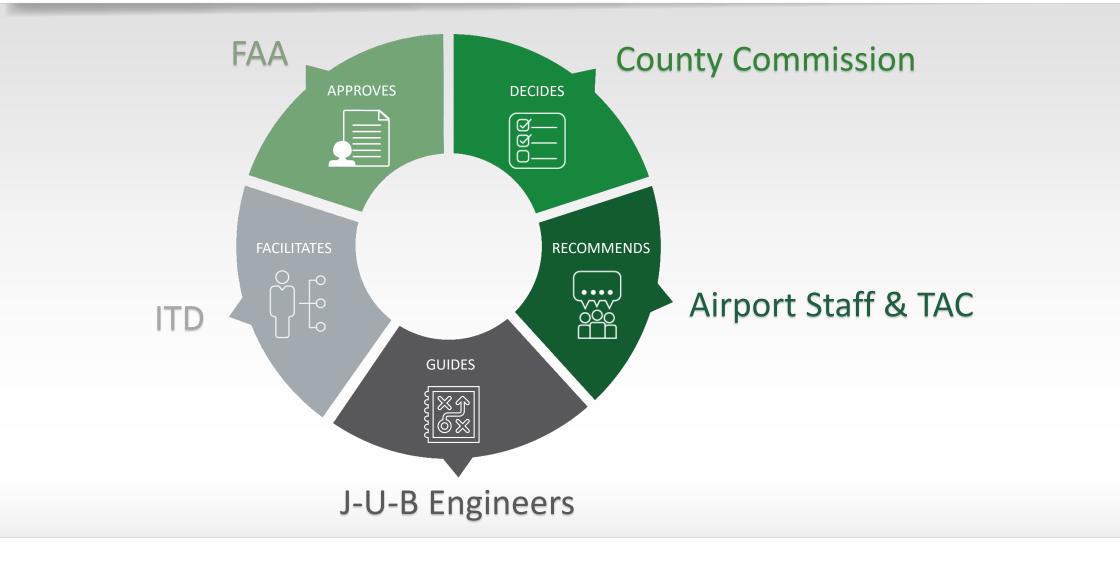
WHAT DO WE GET FROM THIS PROCESS?

THEY BE THE T

SHEET 2 OF 8



WHO DOES WHAT?



ROLE OF THE TECHNICAL ADVISORY COMMITTEE (TAC)

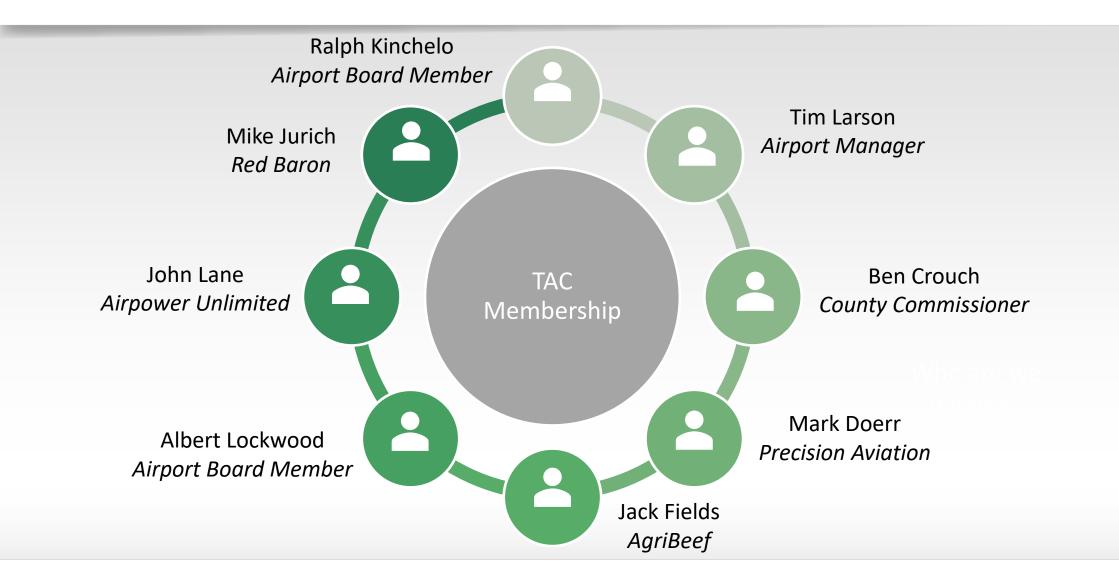
What is it?

- Advisory board to the County Commission
- Liaisons between the community and County

What do members do?

- Exchanges different ideas and perspectives
- Takes community benefits into consideration
- Works together to provide recommendations that meets the needs and interests of all parties

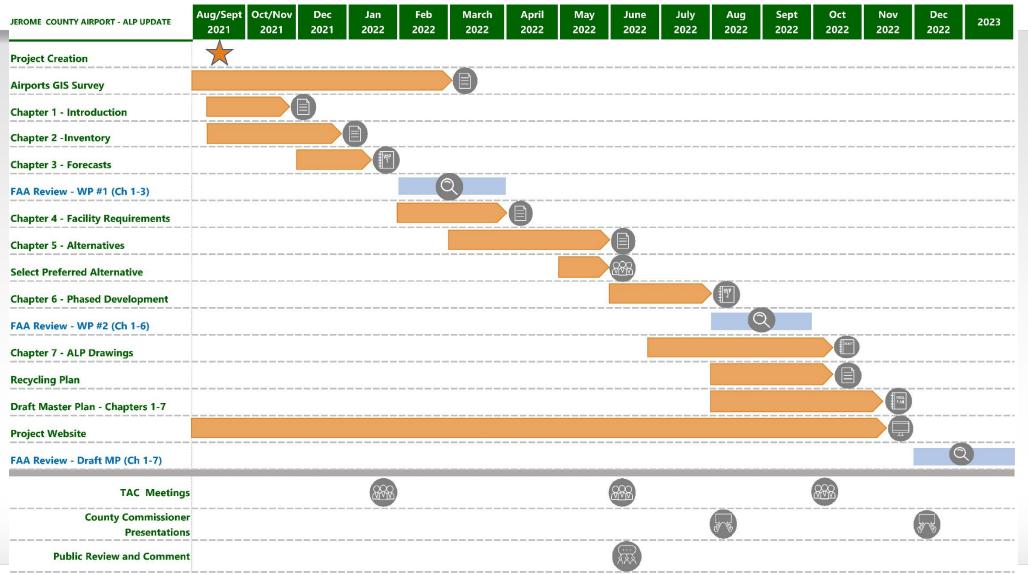
TAC MEMBERS



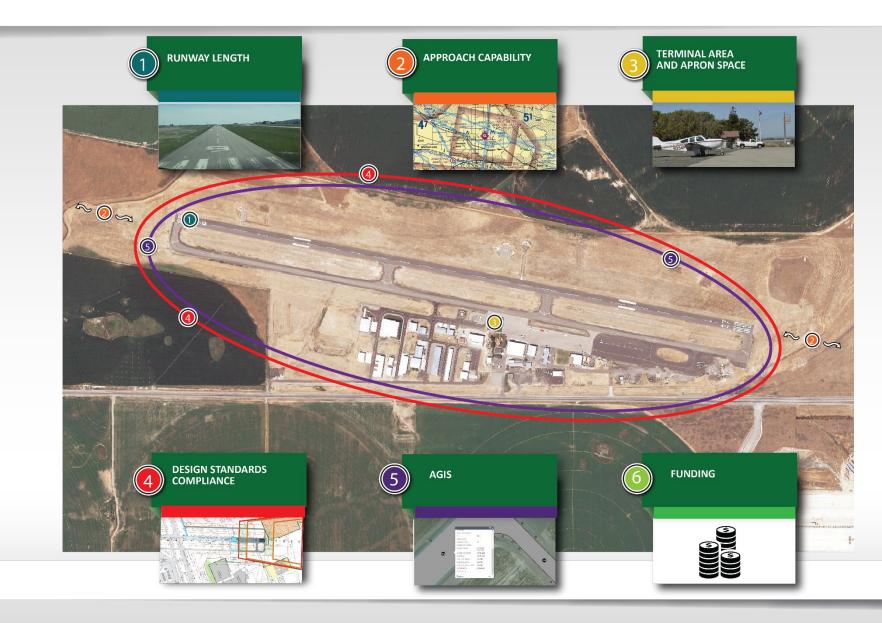




PROJECT SCHEDULE



PLAN FOR KEY ISSUES



PUBLIC INVOLVEMENT OVERVIEW

The Langdon Group

- Specializes in public education and outreach
- Focused on process, not outcome



PROJECT WEBSITE



Welcome to the Jerome County Airport Master Plan.

Over the coming months the Airport will evaluate the overall facilities and surrounding environment of the airport and seek input for future plans. Information about the project, the process, and the documents created will be updated on this page as the County moves through the Master Planning effort.

Master Plan Documents	Planning Links	Contact Information
Chapter 1 - Introduction	Introductory Meeting	If you have comments, ideas, or questions concerning the future of the Jerome County
Chapter 2 - Inventory	Introductory Meeting Notes	Airport, please contact the project
Chapter 3 - Forecast	TAC Meeting 1	representative or the airport manager
Chapter 4 - Facilities Requirements	TAC Meeting 1 Notes	
Chapter 5 - Alternatives	TAC Meeting 2	Tim Larson - Airport Manager
Chapter 6 - Project Implementation	Public Meeting	Call: 208-308-3140
Chapter 7 - ALP	TAC Meeting 3	Email: Click Here
		Bryant Kuechle - Project Representative
		Call: 208 739 3048

Email: Click Here

https://jermasterplan.jub.com

STAKEHOLDER PARTICIPANTS

- 1 Larry Hall, Jerome 20/20 Economic Development
- 2 Dave Davis, Jerome City Mayor
- 3 Mike Williams, Jerome City Administrator
- 4 Tyson Carpenter, Jerome City Engineer
- 5 Ida Clark, Jerome City Planning and Zoning Manager
- 6 Scott Jackson, Airport Tenant and Pilot
- 7 Jay Thieler, AgriBeef
- 8 Dan Forsyth, White Clover Dairy
- 9 Melissa Barry, South Idaho Recreation and Tourism
- 10 Erich Gleckler, Bureau of Land Management Twin Falls

STAKEHOLDER ASSESSMENT THEMES

Runway

- Needed for larger aircraft and/or jets include Sun Valley Allen Group overflow
- Many subdivisions planned in the direction of the airport that should be considered with a new runway's RPZ. Concern exists that airport growth and city growth boundaries will converge.
- High School and Horizon elementary appear to be in the direct path
- Purchasing property should not be necessary, existing airport property is sufficient
- AgriBeef is building a 273,000 square foot facility near airport with 400 employees and is banking on a longer runway. They have a Learjet 75 in Boise that they will fly into Jerome 1-2 times each week in the summer. The also have investors with a King Air and a jet that would fly into Jerome with a longer runway.
- Concern by property owners north and northeast that they will need to reconfigure irrigation if expanded runway impacts their property.

AIRPORT VICINITY



STAKEHOLDER ASSESSMENT THEMES

Promotion

- Build awareness in region about the benefits of using this airport including proximity to Twin Falls and the interstate
- New, professional sign is needed
- In process
- Market FBO for events to bring attention
- Improve entry



STAKEHOLDER ASSESSMENT THEMES



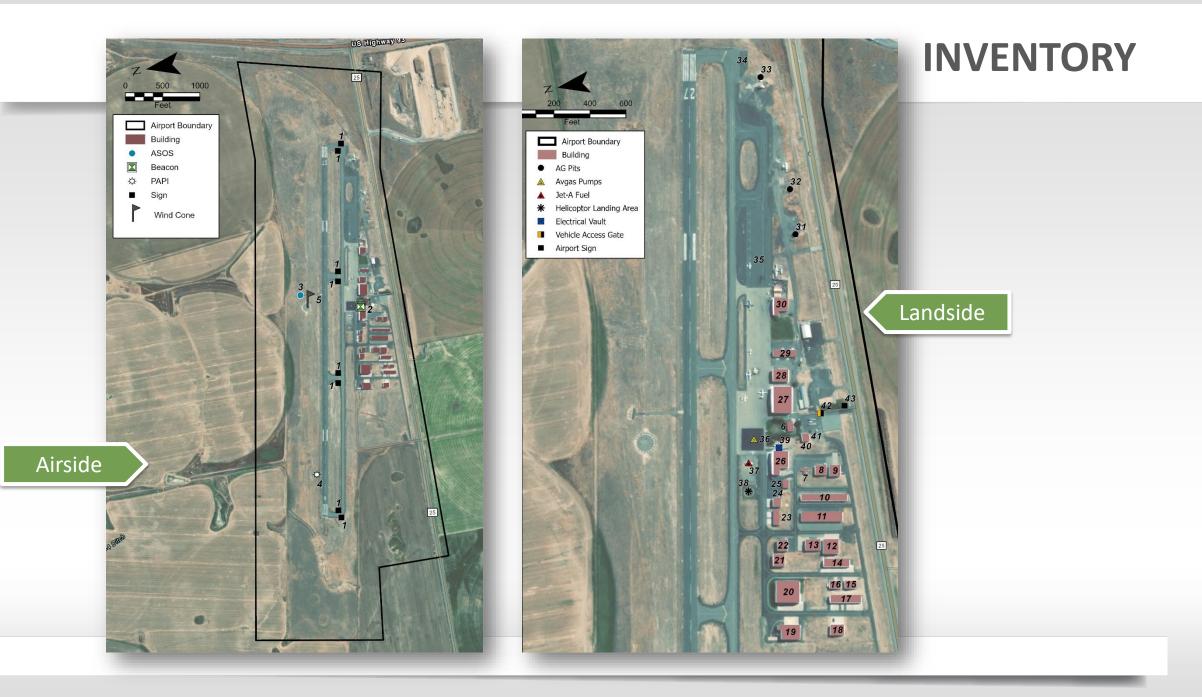




ADDITIONAL INVENTORY

- Role in System
 - Local general aviation airport in the National Plan of Integrated Airport Systems (NPIAS)
 - \$9,947,831 in federal funds from 2001 to 2021
- Activity
 - 39 based aircraft
 - 13,367 aircraft operations (observed in 2021)
- Airside
 - Beacon and Local Weather available
 - 5,000' x 75' Runway 9/27
 - 20 tie-downs
- Airspace and Approaches
 - RNAV (GPS) Approaches for Non-Precision Instrument procedures
 - Runway 9: 1-mile visibility minimum
 - Runway 27: 1¼ -mile visibility minimum





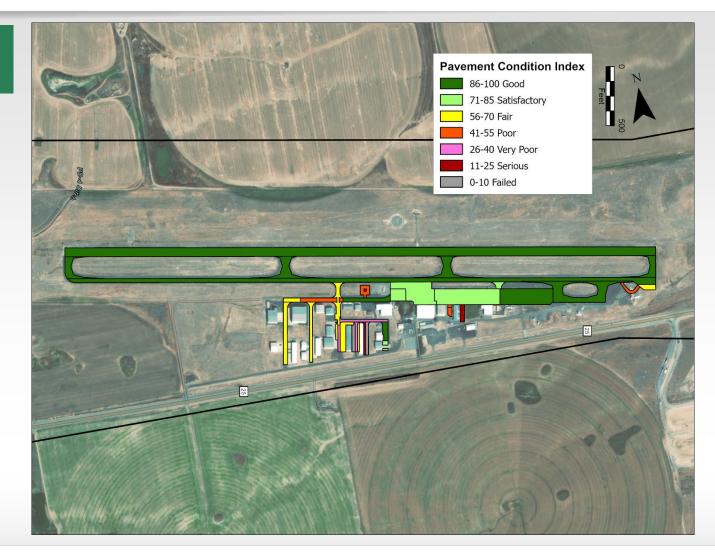
DESIGN STANDARDS

Standard/Specification	Standard	Existing
Runway Design Code (Runway 9/27)	B-II-5000	B-II-5000
Critical Aircraft	Cessna Citation V (B-II, NP, Large)	Cessna Citation V (B-II, NP, Large)
Runway Length/Width	5,000 x 75 Feet	5,000 x 75 Feet
Runway Safety Area Width/Beyond End	150'/300'	150'/300'
Runway Object Free Area Width/Beyond End	500'/300'	500'/300'
Runway Obstacle Free Zone Width/Beyond End	400'/200'	400'/200'
Runway Protection Zones	500'x700'x1,000' (9 and 27 Ends)	500'x700'x1,000' (9 and 27 Ends)
Runway to Aircraft Holdline	200'	200'
Runway to Parallel Taxiway	240'	240'
Runway to Aircraft Parking	>250'	316'
Taxiway Design Group	2	2
Taxiway Width	35'	35'
Taxiway Shoulder Width	15'	15'
Taxiway Safety Area Width	79'	79'
Taxiway/Taxilane Object Free Area Width	131'/115'	131'/115'

PAVEMENT CONDITION

2020 Pavement Inventory

- Runway and taxiway pavement in good condition
- Overall PCI of 75
- Stay on course with Idaho Dept. of Transportation pavement treatment schedule
- Taxilane and helicopter apron rehabilitation and surface treatment projects planned in next couple of years



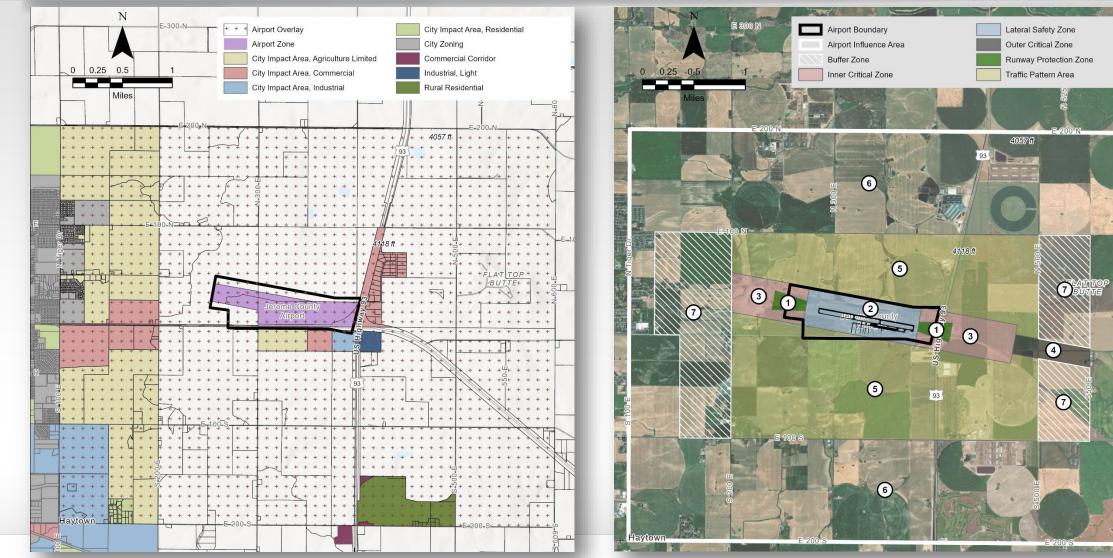
ADDITIONAL INVENTORY

- Fueling system
 - 12,000-Gallon Jet A Fuel Storage
 - 20,000-Gallon AvGas Fuel Storage
- FBO
 - Precision Aviation
 - 8,545 square foot maintenance hangar
 - 12,000 square foot corporate hangar
- Hangars
 - 6 T-hangars, 13 box, 5 conventional for a total of 24 hangars
- Terminal Building / Pilot's Lounge
 - 1,580 square feet
- Other businesses
 - Jerome Flying Service, Airpower Unlimited



ZONING AND LAND USE

E 10



ENVIRONMENTAL FINDINGS

Analysis	Status	Impact
Air Quality	Complete	
Climate	Complete	
Biological Resources	Complete	Monarch Butterfly is the only noted ESA-listed candidate species with the potential to exist at the Airport.
Water Resources, Wetlands, Surface Waters, Groundwater, Scenic Rivers	Complete	
Coastal Resources	Complete	
Natural Resources and Energy Supply	Complete	
Historical, Architectural, Archeological and Cultural Resources	Pending Cultural Resource Survey	
Farmlands	Complete	Airport expansion to north or west would impact farmland and require coordination with USDA/NRCS.
Land Use	✓ Complete	
Noise and Compatible Land Use	✓ Complete	
Visual Effects	☑ Complete	
Socioeconomics, Environmental Justice, Children's Environmental Health, Safety Risks	Complete	
Hazmat, Solid Waste & Pollution Prevention	Complete	Any projects impacting existing underground storage tanks would require coordination with IDEQ.

CRITICAL AIRCRAFT

The critical aircraft is the most demanding aircraft type, or grouping of aircraft with similar design or performance characteristics, to complete a minimum of 500 annual operations.



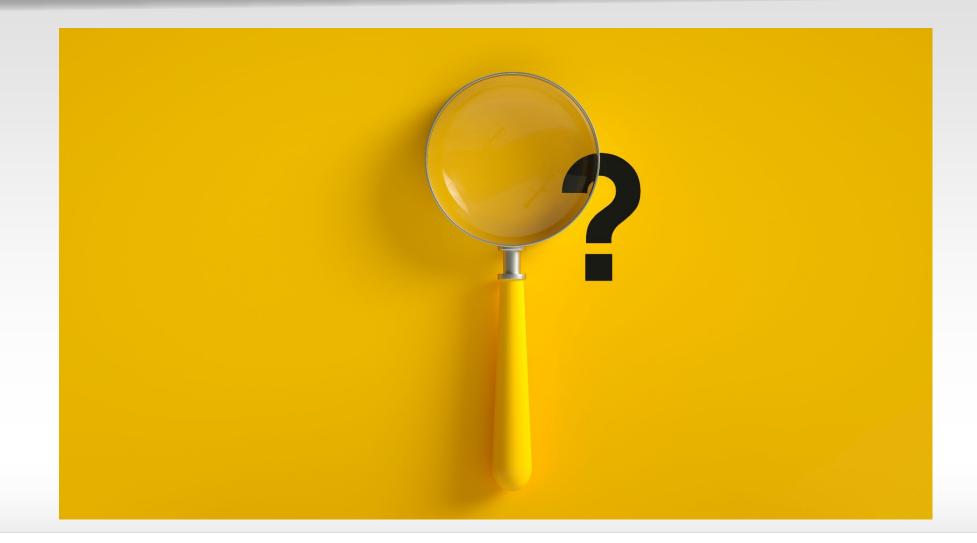
DESIGN CRITERIA

Aircraft Approach Category (AAC)							
Category	Approach Speed						
А	Less than 91 knots						
В	91 to 121 knots						
С	121 to 141 knots						
D	141 to 166 knots						
E	More than 166 kno	ots					
Airplane Design Group (ADG)							
Group Number	Tail Height (ft)	Wingspan (ft)					
1	Less than 20	Less than 49					
Ш	20 to 30	49 to 79					
Ш	30 to 45	79 to 118					
IV	45 to 60	118 to 171					
V	60 to 66	171 to 214					
VI	66 to 80	214 to 262					

The critical aircraft ultimately determines the dimensional requirements of an airport. Jerome County Airport has a B-II Airport Reference Code (ARC).

Cessna Citation V Characteristics								
Characteristic	Aircraft Performance	FAA Design Code	Aircraft Classification					
Approach Speed	107 Knots	AAC	В					
Wingspan	52 Feet	ADG						
Tail Height	15 Feet	ADG	11					
Max Takeoff Weight (MTOW)	16,300 Pounds	AAC/ADG	B-II					
Main Gear Width (MGW)	18 Feet	TDG	2					
Cockpit to Main Gear (CMG)	20 Feet	100	2					

DISCUSSION & QUESTIONS





FORECASTS OF AVIATION DEMAND

Chapter Three Forecasts of Aviation Demand

- Economic Influences and Socioeconomics
- Based Aircraft Projections and Forecast
- Aircraft Operations and Forecast

FACTORS FOR FORECASTING

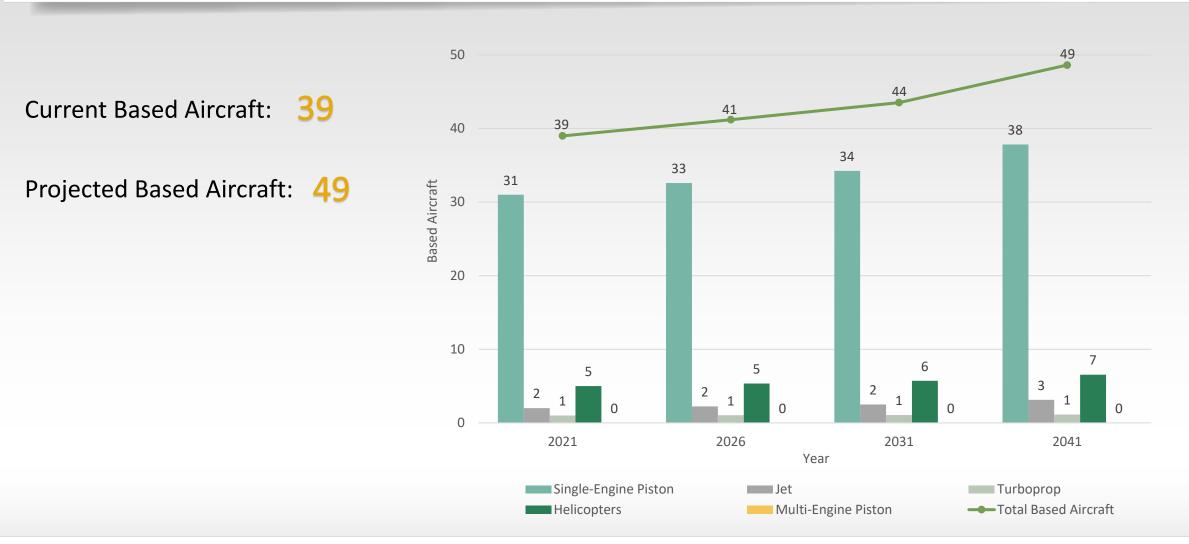
Influencing Factors on Forecasting

- FAA and State of Idaho Aviation System Plans and Forecasts
- Service Area (Jerome and Twin Falls Counties) Growth Trends
 - Socioeconomic
 - Increased Business Interests
- Based Aircraft and Annual Operations

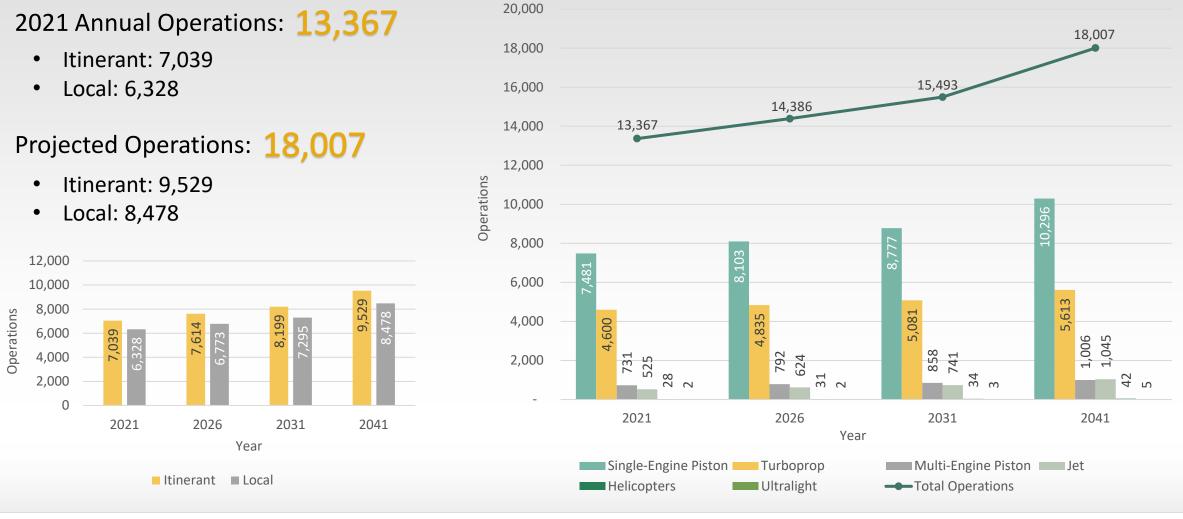
Based Aircraft and Operations Projections and Forecasting

- FAA Single-Engine Piston, Multi-Engine Piston, Jet, Turboprop, and Helicopter Trends
- FAA Fuel Sales, Pilot Hours Flown, and Fleet Mix
- Type of Aircraft Forecasts calculated using data from FAA Terminal Area Forecast (TAF) and FAA Traffic Flow Management System Counts (TFMSC)

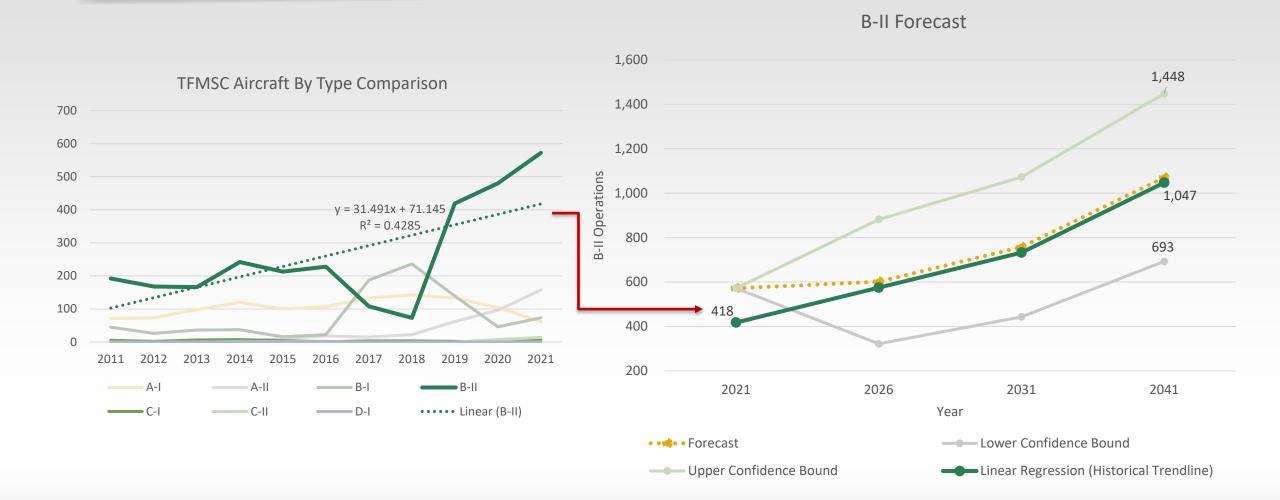
BASED AIRCRAFT FORECAST



OPERATIONS FORECAST



AIRPORT REFERENCE CODE



SUMMARY OF FORECAST

	Consultant	FAA
Existing Based Aircraft Count	39	30
Projected 20-Year Based Aircraft Count	49	30
2021 Annual Operations	13,367	26,225
Projected 20-Year Operations Count	18,007	34,568

	2021	2026	2031		
Projected B-II Operations	572	602	758		
Short-term Airport Design Codes	ADG B-II / TDG-2: Cessna Citation V, XLS+, Ultra				
Ultimate Airport Design Codes	ADG B-II / TDG-2: Cessna Citation V, XLS+, Ultra				





Critical Aircraft The most demanding aircraft or group of aircraft (in terms of size and/or speed) that contributes to over **500** operations annually

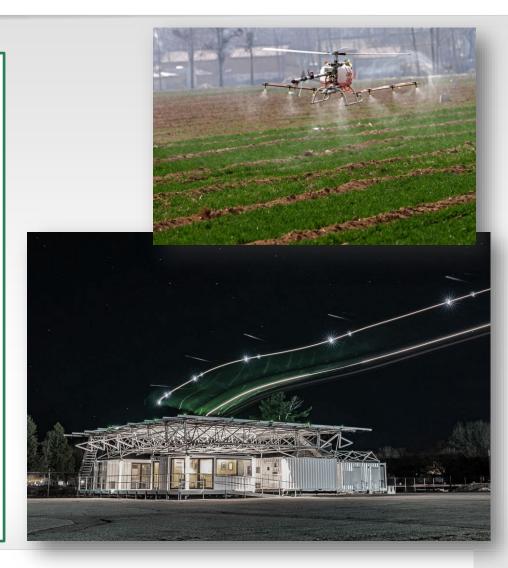
ADDITIONAL FACTORS TO CONSIDER

Advance Air Mobility

- A vertiport is not recommended at this location
- UAV operations maybe recommended
 - Benefit the community with aerial agricultural applications
 - Unmanned firefighting applications to supplement USFS effort
 - What would you need to be successful?

Definitions

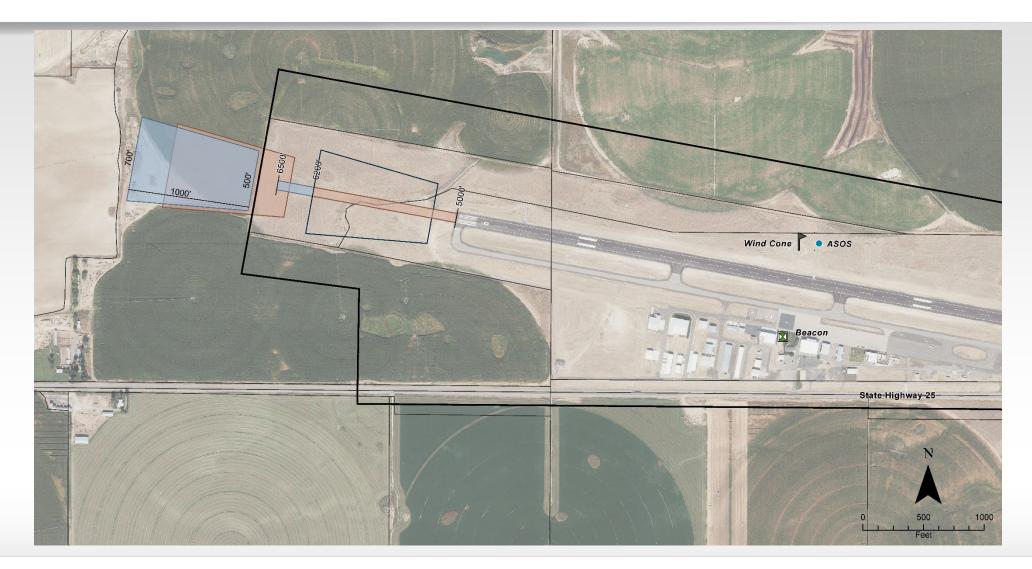
- Vertiport: Areas designed specifically for Urban Air Mobility and Advanced Air Mobility aircraft to take off and land
- UAV: Unmanned Aerial Vehicle



AIRCRAFT RUNWAY REQUIREMENTS

					Fee	t						General ARCs
For 95 % aircraft fleet le		5,20	0						A/B-I and II			
For 100 % aircraft fleet less than 12,500 lbs fewer than 10 seats:					5,60	0						A/B-II
For 100 % aircraft fleet less than 12,500 lbs more than 10 seats:				Same as	above						B-II	
For 75 % aircraft fleet g	reater than 12,50	00 lbs but less	than 60,000 ll	os:	6,200 Citatio			Citation V Ultra, Citation XL Encore, Citation CJ4, Dessault Falcon 50			B/C-II	
For 100 % aircraft fleet	greater than 12,5	500 lbs but less	s than 60,000	lbs:	8,20	0	Citat	ion X, Challe	nger 600,	Hawker 800	, Learjet 60	B/C-II
Airfield Parameters Elevation: 4053' MSL Temperature: 90.1 F -1.84% Runway 27 Take off length required at % Useful Load for takeoff Landing Length Requirements												
Runway Parameters	Runway Parameters Take-off length required at % MTOW			on a 5,001' Runway				R. Part 135 (60% C.F.R Part 91k (80% factored) factored)				
Runway Condition	Dry	Wet	Dry	Wet	Dry	Wet	Dry	Wet	Dry	Wet		
Citation V Ultra	5,012	6,642	99.9%	86.4%	5,693	8,639	9,488	14,398	7,116	10,799	Note: Max landing weight, and 16,300#	MTOW both
Citation XLS +	6,066	6,267	91.2%	88.7%	5,153	7,997	8,588	13,328	6,441	9,996	Note: Max landing weight 18,5 20,200#	12#, MTOW
Learjet 75	6,198	6,835	90.2%	O/C	3,632	4,773	6,053	7,955	4,540	5,966	Note: Max landing weight, and MTOW both 21,500#	
O/C: Off the chart												

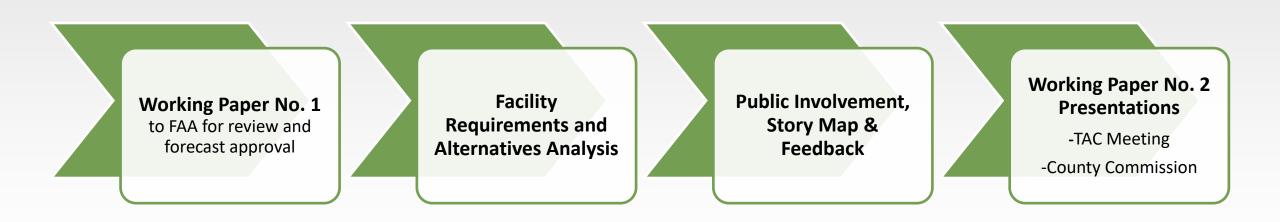
RUNWAY LENGTHS



WHAT NEEDS TO CHANGE OR EXPAND?



NEXT STEPS



THANK YOU



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