



"WHERE": GERALDTON Western Australia.

- 424 km by Road from Perth about 4 hours drive.
- 373 km by Air from Perth about 50 minutes by F100 Jet.
- Daily RPT jet services by both QantasLink and Virgin.
- Major logistics and services hub for the Midwest, Gascoyne and Murchison regions of Western Australia.



GOING TO "WHY"......

WA: largest State by area, with the most dispersed population settlement pattern.

A million square miles - but WA has only 11.4% of the Nation's RPT airports.

WA population concentrated in Perth, with its seaport Fremantle.

Major Regional Centres in WA are few, have relatively small populations, are long distances from Perth, are long distances apart.

Perth Airport IS the State's primary Aviation hub.

Fremantle IS the State's primary Container-trade Seaport.

Regional seaports are mainly geared for export of BULK commodities (minerals, grains), live cattle and sheep, with minimal capacity for import/export via Containers.

Away from the Perth/Peel region, competitiveness of producers (and hopeful exporters) of perishables is handicapped by the Costs of Distance – Transport and Time - to Export Port hence to Market.

GOING TO "WHY"...

IBIS World



Transport & Logistics Challenge: Huge Economic Catchment Zone

Carnarvon and Geraldton are long established

Horticulture centres - significant production of fresh fruit
and vegetables.

Areas around Eneabba are home to the most significant production of Geraldton Wax, the global staple for arrangement of Cut Flowers, currently exported via Perth.

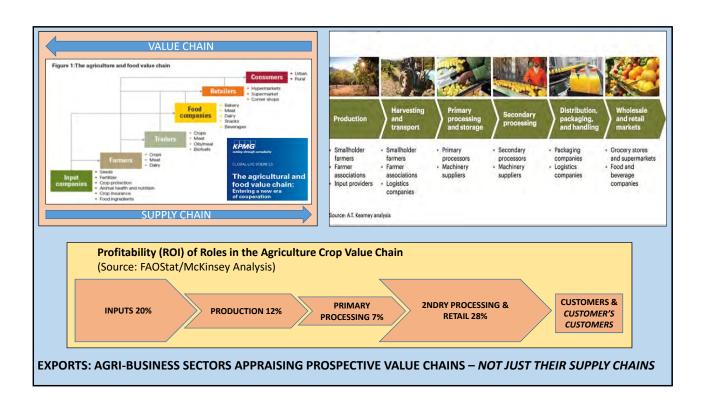
Substantial pastoral grazing lands producing Cattle, Sheep and Goats.

Coastal strip is home to the most valuable Fishery in WA, the Western Rock Lobster, exported live via Perth Airport.

Aquaculture is emerging as a strong development, for Saltwater Finfish. Also an established base for premium Marron and Yabbies.









State Government investment in Midwest/Gascoyne Horticulture







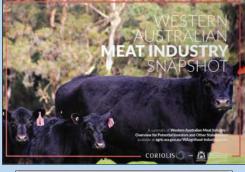
Significant Horticulture centres:

Carnarvon......890km by road to Perth. Geraldton......424km by road to Perth.

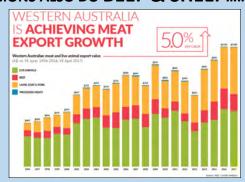
Time-to-Market is a commercial imperative for Premium Fresh Produce

(Ditto for Premium Fresh Seafood, and Chilled Meats)

THE MURCHISON, GASCOYNE AND MID WEST REGIONS ALSO DO BEEF & SHEEP.......









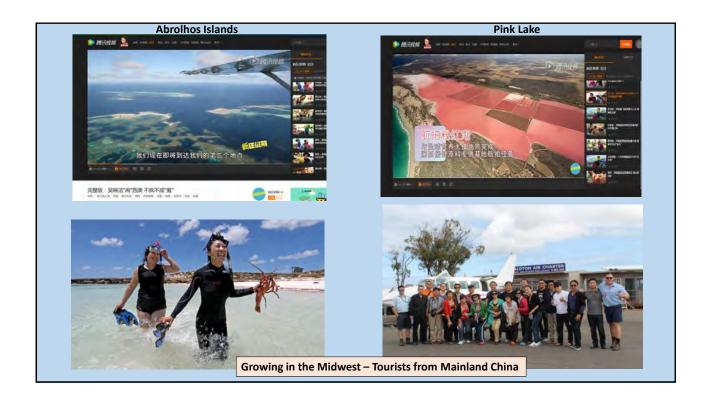


City of Greater Geraldton has been actively developing direct local government to local government relationships with cities in the Peoples Republic of China for about a decade:

- Sister City Zhanjiang, Guangdong Province
- Strategic Partner City Zhoushan, Zhejiang Province
- Strategic Partner City Linfen, Shanxi Province.

Why China? Because:

- A significant proportion of Midwest grain and mineral exports already go to China;
- Chinese interests have significant investments in Mines (not just iron ore) and Land in the region; and
- Mainland Chinese tourists have discovered the uncongested attractions and experiences of Australia's Coral Coast, the unique experiences of Kalbarri, Pink Lake and the Houtman Abrolhos Islands off Geraldton



AIRFREIGHT - SOME 'PRAGMATICS':

- Primarily for High Value products typically 'small' in weight/volume.
- Medicines/pharmaceuticals, perishable time-sensitive premium foods, precious metals (e.g. gold out of Perth), gemstones, scientific equipment, electronic/digital consumer equipment (e.g. tablets, mobile phones).
- Not cost-competitive with intermodal combination land/sea surface cargo for Bulk commodities.
- Greatest advantage Speed from source to destination.
- For time-sensitive fresh produce, need to minimise Time-Cost.

AIRFREIGHT - SOME MORE 'PRAGMATICS'.......

- No scheduled dedicated Freighter Aircraft services through Perth.
- Belly freight capacity in International Passenger aircraft lots!
- Airfreight into Perth in Passenger belly cargo perhaps \$3-4/Kg?
- Airfreight outbound from Perth in Passenger aircraft belly cargo perhaps \$1/Kg?
- <u>Pivotal factor for Exporters</u>: Intermodal Surface/Air Dollar-cost and Time-cost for fresh produce to Pre-export facilities and the Airport.
- <u>Pivotal factor for Importers</u>: Intermodal Air/Surface Dollar-cost and Time-cost for distribution to Customer Markets wholesalers, e-stores, bricks-n-mortar retailers.

ANDEVEN MORE AIRFREIGHT 'PRAGMATICS'......

- Airfreight economics: dependable volumes for regular profitable loads....to justify aircraft and crew deployment.
- Midwest/Gascoyne/Murchison production of Horticulture, Livestock and Seafood - mitigates single points of failure in supply.
- Cargo consolidation needs feedlots, PEQ facilities, abattoirs, freezers, chillers, cool rooms.
- Pivotal issue: Selection of Mode (Freighter versus Belly cargo).
- De-risking initial uncertainty of excess cargo capacity likely to drive decision towards Passenger Aircraft Belly Cargo.
- De-risking initial services will see allocation of aircraft with the *minimum* seat and freight capacity, capable of the target mission distance between airports.

AIRFREIGHT - AND FINALLY....SOME MORE 'PRAGMATICS'....

- De-risking benefitted by *Freight in both directions*not just one-way Exports.
- That requires *Import* infrastructure, facilities and services Freight terminal, Bond Stores, warehousing, and Border Force at the WA regional airport not just Export infrastructure and facilities.
- Mixture of Business/Investor and Tourism passengers for viability.
- Tourism growth potential actually happening: Australia's Coral Coast Abrolhos Islands Geraldton Hub.
- Specials Charter freighters (e.g. FedExpress for JIT delivery of purified Graphite to Graphene factories in China, Taiwan)

.....and of course there's more to the whole story.

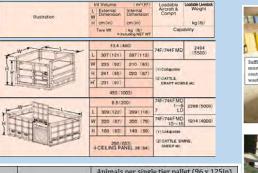
If it wasn't challenging everybody would already be doing it!







Requirements in Transporting Livestock Shipment - Cattle/Buffalo





Species	Weight (kg)	Animals per single tier pallet (96 x 125in)			
		Heads per layer on main deck (Bottom / middle / top layer)	Heads per lower deck pallet		
Cattle / Buffalo	300	7/5	6		
	500	4	3		
	700 or above	4	Not allowed		

Side wall must higher than the animal's back.

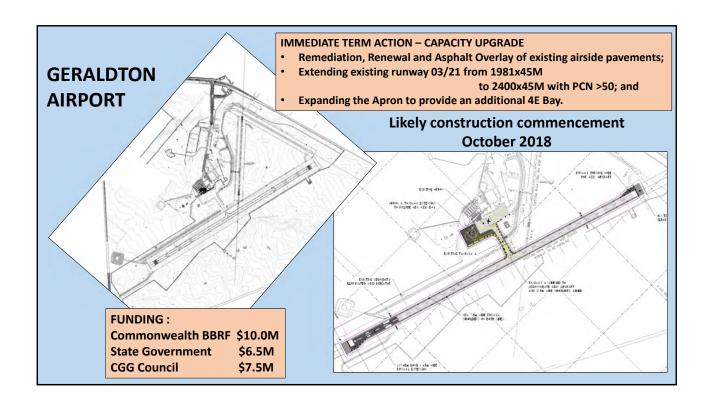
AIRCRAFT CONSIDERATIONS

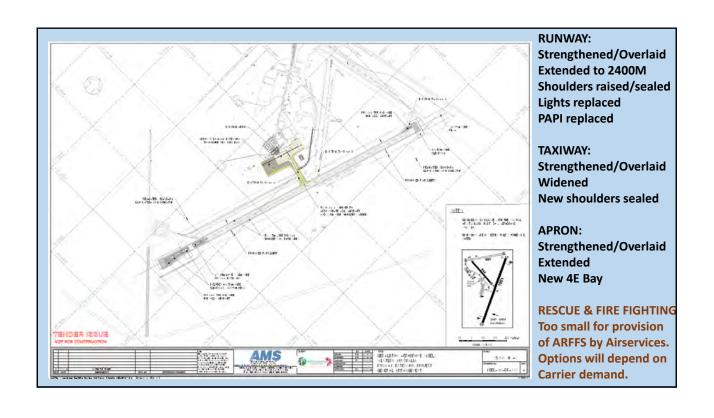


City	Air Distance to Geraldton (Km)	B737-800: 5,425km	B737-8 MAX: 6,500km	A320- 200: 5,700km	A320 NEO: 6,110km	A330- 200: 13,400km	B777 Variants: 9,700- 15,800km
Jakarta	2,645						
Melbourne	2,982						
Sydney	3,507						
Singapore	3,546						
Manilla	4,877						
Hong Kong	5,697						
Guangzhou	5,780						
Zhoushan	6,591						
Shanghai	6,720						
Linfen	7,228						
New Delhi	7,528						
Tokyo	7,643						
Beijing	7,648						
Dubai	8,739						
Doha	9,038						

For A330 need minimum 9100 return passengers and - say - 1500 tonnes of freight (combined inbound/outbound) Annually for basic weekly service viability.

- Most likely for initial services: A330-200 with up to 250 PAX, cargo capacity of 26xLD3 containers or 8 pallets plus 3 LD3s (about 35 tonnes) including PAX Baggage (say 12 LD3s).
- Freight capacity with full PAX: 14LD3s.
- Viability needs average 70+% PAX factor (175) and 60+% Freight factor (12 LD3s).
- Weekly service: 52 returns/year, 104 flights, would need about 9,100 passenger movements (arrival + departure) and 1450-1700 tonnes of freight in total from a combination of imports and exports.
- Bi-weekly service: 104 returns/year, 208 flights, would need about 18,100 passenger movements (arrival + departure), and 2900+ tonnes of freight in total from combination of imports and exports.







MAIN APRON:

Taxi-In/Taxi-Out

All 6 Bays able to accommodate A320/B737 types

Bay 6 for 4E Types Marked for A330

Ground Support Equipment needs to be determined for 4E types.

BENEFITS FROM GERALDTON AIRPORT CAPACITY UPGRADE

- Enable further development of Coral Coast Tourism International, Interstate.
- Catalytic benefits proposals for new Hotel/Resort developments for Tourism.
- Opportunities for Regional Carriers to grow inter-region passenger services.
- Enable development of Trade in Midwest/Gascoyne/Murchison produce by Airfreight.
- Enable development of Import of high-value digital consumer goods from China, leveraging availability of:
 - daily RPT services for retail distribution from Geraldton e-commerce warehouses, and
 - Kimberley/Pilbara return-leg road transport for back-loading wholesale loads to Perth.

There is <u>always</u> Risk of under-utilisation in the early years of new Airport capacity! That's the nature of the beast. Just-in-time 'little' capacity increments don't work....!

MAJOR AVIATION NETWORK BENEFIT:

- 2400x45 metre runway with PCN>50 within one hour flight time of Perth.
- Provides a new Alternative Landing Airport option for smaller 4E aircraft types.
- Enables aircraft inbound to Perth to carry less Reserve Fuel, freeing up capacity within MTOW for paying load, or reducing fuel burn costs or a combination of both.





Thank You... Happy to take questions during the Panel discussion



Contact details:

Bob Davis, Director Corporate & Commercial Services City of Greater Geraldton WA. bobd@cgg.wa.gov.au