



EXECUTIVE SUMMARY

Our vision for the Greater Western Sydney (GWS) Airport is to promote economic growth and diversity in the Western Sydney Region. This will be achieved by creating a gateway connecting the world to the natural, cultural and historical wonders that Greater Western Sydney and Australia have to offer by delivery of a sustainable first-class airport.

In developing the concept for GWS Airport, three options were considered. These options were assessed against their environmental impacts, benefit to the community and commercial viability. Option A was rejected due to limitations on airport operations; the lack of a cross runway would prevent flights from being able to land in adverse weather conditions. Option B proved unfavourable because of the high noise impacts and excessive land acquisitions requirements. After thorough assessment, Option C encompassed the most viable qualities: low noise impact on the community, operational flexibility in all meteorological conditions; and reduced land acquisition.

GWS Airport will evolve through three key phases over its lifecycle. The first and arguably the most important phase, is the period of growth where GWS Airport will establish itself as the centrepiece of the economic and social heart of Sydney for all to enjoy and benefit from. GWS Airport will become the nucleus of the region encouraging the development of the adjacent areas which will thrive off its success. From a broader perspective, the east-west green corridor will link the Western Sydney Parklands, the proposed sports and recreation precinct including a new 30,000 seat stadium for Western Sydney, the green belt around the airport and the environmental facilities to the foothills of the World Heritage Listed Blue Mountains. Customers and passengers will access the terminal via Elizabeth Parkway, a tree-lined boulevard, representative of the Cumberland Plain, providing a unique and memorable arrival to the airport.

PHASE 1

The first phase will involve the majority of the planning, consultation, design and construction works. The establishment of an Airport Authority to drive the concept through legislative barriers shall be formed as early as possible. This will coincide with the establishment of an Airport Delivery Corporation which will be charged with the timely delivery of the project.

By 2027, this phase will see GWS Airport operational, comprising of a 4000-metre north-east to south-west runway with 16 gates at the terminal. The initial layout will include key infrastructure elements, multi-level multi-modal rapid transport, a hotel and convention centre, greenspace, retail facilities and logistics hub.

PHASE 2

This phase will see a second 3000-metre parallel runway operational by 2047 with 8 additional gates at the terminal. A fuel pipeline will be built to support the increased fuel needs of the airport. Airport income will be supplemented with additional hotel and tourism facilities. Additional transport links will allow for increased passenger movements with the opening of a heavy rail station.

PHASE 3

By 2057 a third 2600-metre crosswind runway will be operational with 8 additional gates at the terminal, making 32 gates in total. This phase will include the completion of a light rail link and the Outer Sydney Orbital to ensure transport to and from the airport remains flexible as the airport reaches maximum passenger movements.



BACKGROUND

Sydney's second airport was first envisioned by the Government around 1946 when it was recognised that future demand would exceed the capacity of the existing airport. The need and feasibility has been deliberated ever since, until now. On 15 April 2014, the Prime Minister of Australia, Tony Abbott, announced:

"Badgerys Creek will be Sydney's Second Airport; it will be an Airport for Western Sydney".

Planning and design will need to start immediately in order to meet population growth and aviation demand.

We, WindFall are a diverse team of experienced professionals who understand the local environment and stakeholders, are knowledgeable of the area, and are familiar with the critical issues and drivers that influence the success of a project of this nature, size and complexity. As an aspiring candidate for the concept design of GWS Airport, we understand Western Sydney Airport Alliance's need for creative ideas to realise this dream. This concept proposal delivers imaginative, yet realistic and functional ideas that will ultimately help drive forward the successful development of GWS Airport and provide the facilitator of growth that we envisage it to be.

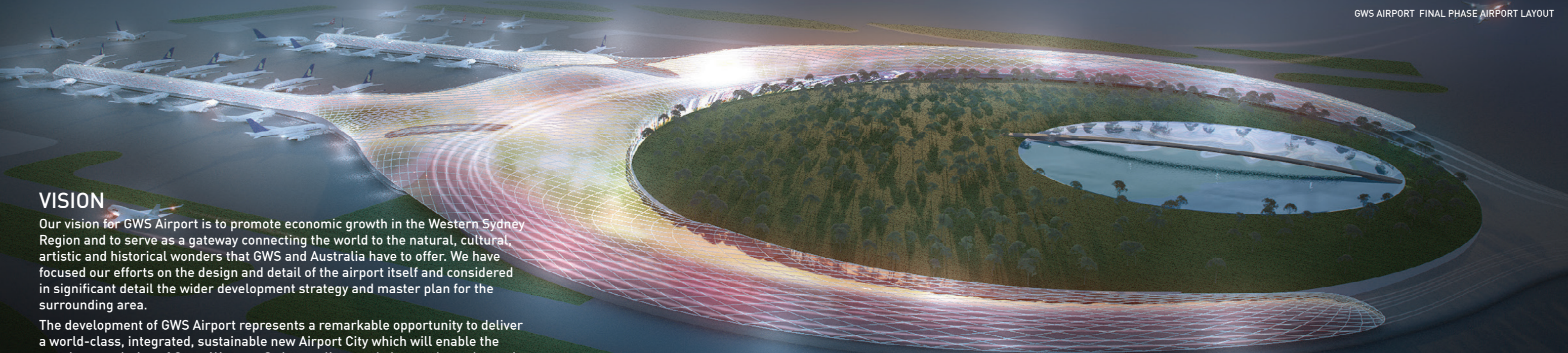
VISION

Our vision for GWS Airport is to promote economic growth in the Western Sydney Region and to serve as a gateway connecting the world to the natural, cultural, artistic and historical wonders that GWS and Australia have to offer. We have focused our efforts on the design and detail of the airport itself and considered in significant detail the wider development strategy and master plan for the surrounding area.

The development of GWS Airport represents a remarkable opportunity to deliver a world-class, integrated, sustainable new Airport City which will enable the growing population of Great Western Sydney to live, work, learn, shop, play and travel in a socially, environmentally and economically sustainable way. GWS Airport will provide opportunities for growth and diversification of the Western Sydney economy, creating tailored jobs closer to home for the growing population in Western Sydney.

GWS Airport will provide an 'Australian Experience' with green spaces showcasing native plant species and a Billabong to provide passengers with encounters with nature to lighten the stress from a long journey or visitors with a day of recreation. We will embed our nation's culture in the 'Food Bowl' by incorporating spaces to display fresh produce, exquisite cuisine, fine wine and our arts and crafts.

Dedicated retail and leisure areas, along with the adjacent new Western Sydney stadium will welcome domestic and international passengers and cater for the needs of the local community.



ARTIST'S IMPRESSION: GWS AIRPORT LOOKING SOUTH WEST SOURCE: FLYGREATER

The GWS Airport Experience

FlyGreater has designed an airport that will implement innovative technology, providing passengers with a smooth experience: from accessing the airport; through the travelling process; to reaching their final destination. GWS Airport seeks to provide an 'Australian Experience' that supports local industries and embeds our nation's culture by incorporating spaces to display fresh produce, our cuisine, highly regarded wine and world renowned arts.

Green spaces, gardens and a Billabong will provide visitors with encounters with nature; allow the outside- in and dispel the myth that airport travel is a stressful experience. GWS Airport will contain commercial facilities for visitors, hotels, recreation, shopping, dining, leisure and entertainment centres and will be more than a facility for aircraft travel.

Green spaces such as indoor and outdoor gardens showcase native plant species. A Billabong will provide passengers with a peaceful encounter with nature to lighten the stress from long journeys. Inspiration for this was taken from the positive reviews of the butterfly garden at Singapore Airport.



The flagship terminal building will consist of an undulating living green roof that biomimics the skyline of the Blue Mountains providing aesthetic appeal and another iconic building in Sydney for all to enjoy. Natural light infiltrating through shafts in the roof to an open terminal space will enhance the GWS Airport Experience.



Two gate wings, one for domestic travel and one for international travel, with line of sight between security and all gates will allow passengers to easily navigate to their gate, reducing the panicked feeling associated with airplane travel. Clear, colourful signage and innovative way finding interior fittings and floor patterns will guide passengers through the airport terminal, much like Chicago O'Hare Airport².

TRANSPORT
BUSES
RAPID TRANSIT
TAXIS
ACTIVE TRANSPORT

RETAIL AND COMMERCIAL
'FOOD BOWL'
RETAIL
CINEMAS
HOTEL
GREEN SPACES
BILLABONG

TERMINALS
CHECK-IN
SECURITY
RETAIL

WORLD CLASS TRANSPORT HUB
2 HOTELS, 860 ROOMS
A UNIQUE LEISURE AREA
WESTERN SYDNEY ICONOGRAPHY
32,000 PARKING SPACES
76,000M² RETAIL
COMMERCIAL SPACE

RISK: The airport does not draw passenger rates that reflect the expected passenger movements.
MITIGATION: Ensure that the experience for passengers at GWS Airport is pleasant, building a positive reputation and encouraging future patronage.

Streamlined check-in and security, including smart gate customs for international passengers and self-baggage check-in for domestic flights, will reduce the time required for passengers to reach the gate lounges.



Dedicated retail and leisure areas, along with the construction of Western Sydney's largest stadium nearby, will welcome not only domestic and international passengers but also will cater for the needs of the local community and visitors alike.

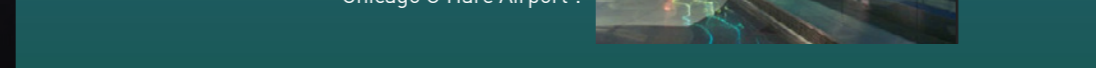
Efficiently designed terminal, taxiway and runway system will provide customers streamlined access from check-in to take off.

One terminal entrance for both domestic and international travel, with clear signage and shared infrastructure, will make accessing the airport simple.

"Scan and display directions" will give passengers tailored information to maximise the GWS Airport experience. Electronic assistance points will display information tailored to the boarding pass scanned, including a visual map marked with "You are here" and "Your gate is here". "Walking time to gates" and "Time to boarding" will be followed by interactive options, such as "Would you like to... shop, eat, take time out", encouraging passengers to make the most of their time at the airport.

Grade separation of arrivals and departures will streamline access and reduce congestion. Taxi access from departures to arrivals will be declined to allow vehicles to coast reducing fuel consumption.

Dedicated off road cycle ways, built within the green belt, will link the Western Sydney Parklands cycle networks with the Blue Mountains, encouraging usage of the facilities by the avid and well establish cycling community of Sydney.



EXPERIENCE [1](http://www.gizmodo.com.au/2014/08/the-secret-ways-airports-tell-us-where-to-go/) <http://www.gizmodo.com.au/2014/08/the-secret-ways-airports-tell-us-where-to-go/>, sourced: 18 August 2014. [2](http://www.gizmodo.com.au/2014/08/the-secret-ways-airports-tell-us-where-to-go/) <http://www.gizmodo.com.au/2014/08/the-secret-ways-airports-tell-us-where-to-go/>, sourced: 17 August 2014.

Western Sydney is about to FlyGreater

GROW WANDER SUSTAIN: GWS