

Melbourne Australia's Tram System

A Green Urban Design

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The Trams have Never stopped

- **Melbourne, Australia has maintained a system of rails which trams have been using since 1889**



Currently, there are 31 individual tram routes in the metropolitan area, eight depots, 1800 staff and a fleet of 474 trams, providing nearly 34,000 services a week and providing service for over half a million passengers per day.





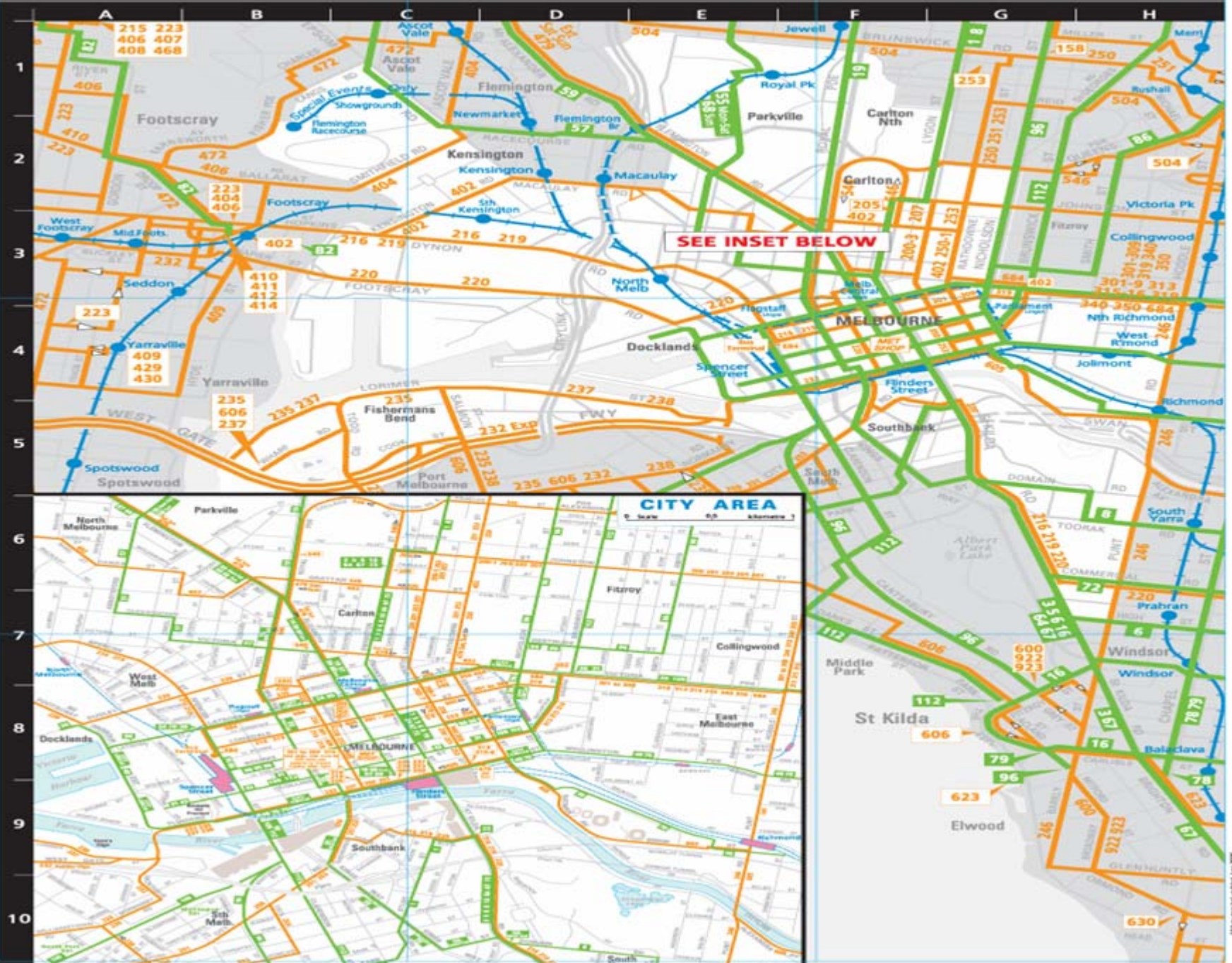
In Melbourne, the urban rail system had been built and electrified almost to its present extent by the mid-1920s, but funding for road construction lagged behind due to a lack of federal funds until the late 1960s

•The development of Melbourne's extensive rail network led to a large movement of people to the suburbs long before the car began to take center stage in modern transportation.

• The result was that Melbourne had space to grow along its rail lines.

•This gave Melbourne's suburbs more of a traditional neighborhood layout, which was centered around rail lines as opposed to roads

City of Melbourne Transport Map



- **The extensive tram system allows more open space in Melbourne**
- **Trams in Melbourne made it possible for the city to create expansive parks as opposed to building parking lots**

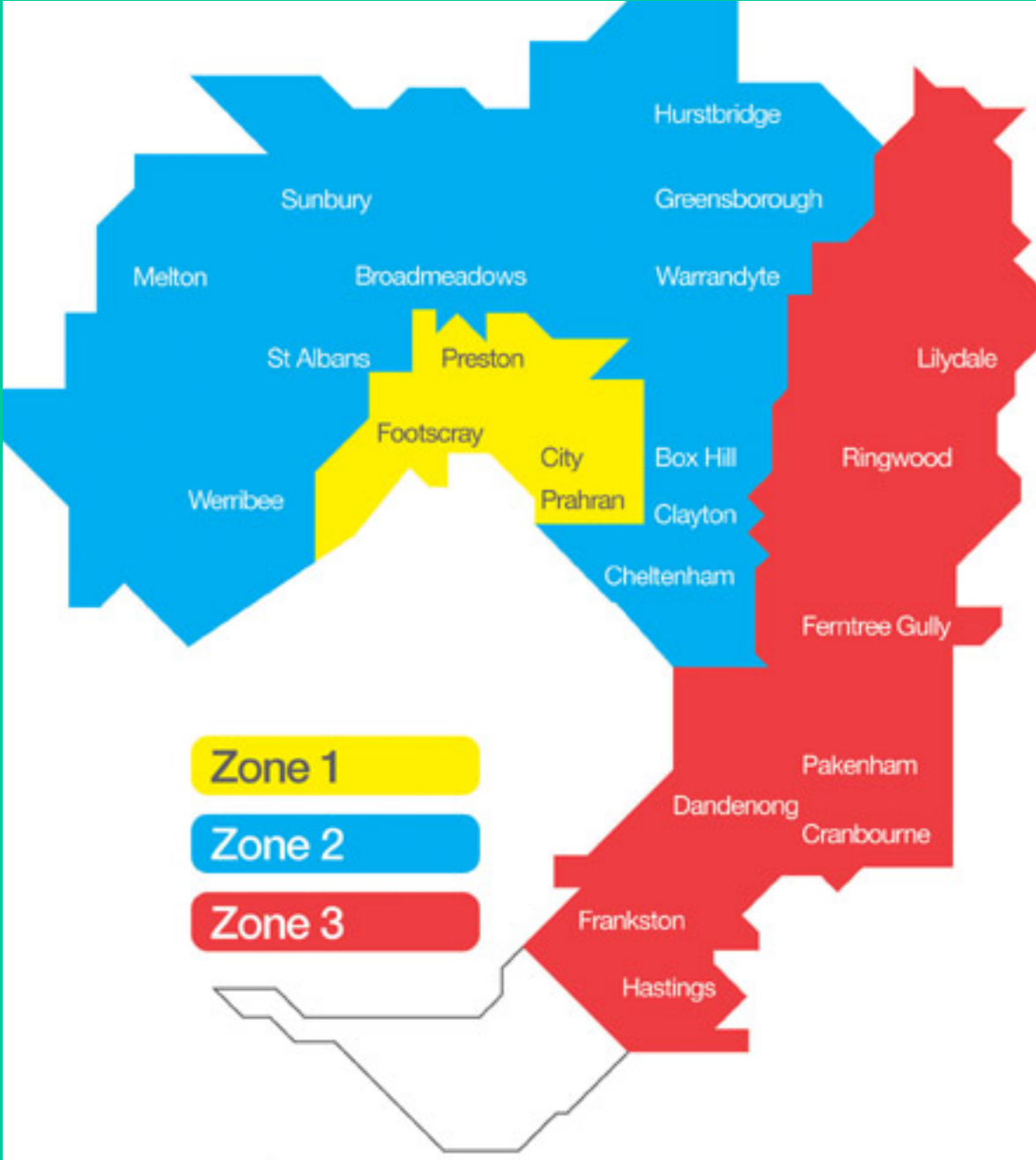
As with any mass transit system,
the goal is to maximize the
number of passengers while
minimizing the amount of money
and energy needed to run the
system

The system must be

- cost efficient
- easy to understand
- fast for those who may ride on it.

Metcards make riding the trams
cheap and easy

- The Metcard system is a payment method, which provides access to all of Melbourne's trams trains and busses. These Metcards are interchangeable between modes of transport, and the fare is based on specific zones and time of travel



- Metcards can be purchased for cash on any tram or at over 900 locations around the city, and some trams now even take debit cards
- Metcards are bought through an automated system, which cuts down on the cost of employing ticket agents, and keeps tram drivers from having to deal with taking money and issuing tickets
- The Metcard system provides concessions or discounts for higher quantity fare purchases, student purchases, senior purchases, Sunday purchases, and other off peak time purchases

- 2 hour Metcard allows unlimited train, tram and bus travel for at least two hours within selected zones
 - The 10 x 2 hour Metcard is a single ticket and allows ten 2 hour trips at a discounted price
 - The Daily Metcard allows unlimited train, tram and bus travel for a whole day within selected zones
 - The 5 x Daily is a single ticket that allows five days of travel at a discounted price
 - Daily 5 Packs include five Daily Metcards in one booklet at a discounted price
 - Seniors Daily/60 Plus Metcards are only available to Victorian Seniors Card holders and can be used for travel all day on trains, trams and buses across all zones
 - With a Sunday Saver Metcard, you can travel all day on Sundays across Zones 1,2 and 3 for only \$2.50
 - The Weekly Metcard allows seven consecutive days of unlimited tram, train and bus travel within selected zones
 - The Monthly Metcard allows for unlimited train, tram and bus travel for an entire calendar month within selected zones
 - Yearly Metcards allow unlimited train, tram and bus travel for a full year within selected zones. The ticket expires at the end of services one full year from the first validation day
 - City Saver Metcards are designed for travel around the city center as well as to key Melbourne landmarks. You can use a City Saver Metcard for a single journey on a tram, bus or for train travel between any two stations within the City Saver area.
 - City Saver x 10 Metcards allow for ten trips for less than the price of nine and are available from Metcard retail outlets and train stations within the City Saver area
 - The Metcard Student Pass allows unlimited train, tram and bus travel in the metropolitan area for full time students, attending a primary or secondary school

Melbourne even has a free tram, which runs a square loop route around the central business district, and picks up passengers every 15 minutes. The free tram is the only tram still running in Melbourne that maintains the old style trolley look from the early 1900s, adding to the city's character



- The rail design of the system reduces both the noise factor and the input of energy into the trams, as compared with busses, which use fossil fuels directly.
- The use of electricity from Melbourne's electric grid makes it possible for the trams to essentially use any source of energy on the power grid, which could be anything from solar to wind power.
- Melbourne trams travel at speeds equivalent to that of cars in the city, and in many places they travel in special lanes where cars are not allowed.

New wheelchair accessible trams and platforms



THE

FUTURE

Melbourne's trams could even be
in a position to effectively utilize
solar power as a source of energy
for propulsion