



SCIENCE AND  
INDUSTRY  
ENDOWMENT  
FUND



# STEM Community Partnerships Program

## Fairfield local scenario

### Transport

The Fairfield local government area extends over 102 km<sup>2</sup> and covers a land mass that is wider than long. In off-peak traffic, it takes up to 30 minutes to cross this area, or up to 2 hours with public transport and just over an hour cycling. Students, the elderly, and those without private vehicles or needing assistance would find this limits their ability to get to their place of training and employment and participate in the wider community.

To be a community that supports the wellbeing of its inhabitants, Fairfield City Council works with the State and National government bodies to implement and oversee a range of initiatives that lead to the safe and free flowing movement of people. In the local area this may include provisions for pedestrians, cyclists, drivers and those in disadvantaged groups. It also involves providing adequate parking in commercial and business hubs, and public transport links to transport hubs such as train stations.

The NSW Government is aiming to provide a 30-minute city where people can reach their nearest metropolitan and strategic centres within 30 minutes, seven days a week by public transport. This involves developing public transport links and fostering a diverse range of industries and ensuring there are adequate public transport links to local training and job opportunities.

According to the 2016 Census, 66.8% of people in the Fairfield local government area travelled to work in a private car, 21.8% took public transport compared to compared with 22.7% and 56.6% respectively in Greater Sydney.

With the arrival of new transport connections and development of technology advances in driverless cars, new fuels to power cars and other vehicles, as well as changes in transportation trends and remote working as a result of COVID-19, the next Census results may be quite different.

How your Council tackles the complexity of this issue impacts you and your community, now and in the future.



Fairfield Railway Station Group and Residence – Office of Environment and Heritage NSW  
[https://www.environment.nsw.gov.au/heritageapp/ViewHeritageItemDetails.aspx?ID=4801086&fbclid=IwAR1dJoQIMcyUHW\\_GVUYv5Ut-Tf-7AZni1sPwzjdb8RaKMJzft7zG1RpZXyA](https://www.environment.nsw.gov.au/heritageapp/ViewHeritageItemDetails.aspx?ID=4801086&fbclid=IwAR1dJoQIMcyUHW_GVUYv5Ut-Tf-7AZni1sPwzjdb8RaKMJzft7zG1RpZXyA)

## Your task

Your task is to use the information above and resources provided below as a start to identify a local problem and design a STEM-focused solution.

(Question, Design, Explore, Communicate)

## Resources

### CSIRO research

- Global megatrends that will change the way we live, 2012  
<https://publications.csiro.au/rpr/download?pid=csiro:EP126135&dsid=DS2>
- National Hydrogen Roadmap [https://www.csiro.au/~media/Do-Business/Files/Futures/18-00314\\_EN\\_NationalHydrogenRoadmap\\_WEB\\_180823.pdf?la=en&hash=36839EEC2DE1BC38DC738F5AAE7B40895F3E15F4](https://www.csiro.au/~media/Do-Business/Files/Futures/18-00314_EN_NationalHydrogenRoadmap_WEB_180823.pdf?la=en&hash=36839EEC2DE1BC38DC738F5AAE7B40895F3E15F4)

### Reports

- Australian Government Department of Infrastructure, Regional Development and Cities  
<https://westernsydneyairport.gov.au/>
- Australian Bureau of Statistics 2016 Census QuickStats  
[https://quickstats.censusdata.abs.gov.au/census\\_services/getproduct/census/2016/quickstat/SSC11477](https://quickstats.censusdata.abs.gov.au/census_services/getproduct/census/2016/quickstat/SSC11477)
- Australian Government City Deals – Western Sydney, 2018  
<https://www.infrastructure.gov.au/cities/city-deals/western-sydney/>
- Charting Transport, Update on Australian transport trends (December 2020)  
<https://chartingtransport.com/2021/01/03/update-on-australian-transport-trends-december-2020/>

### Articles and other resources

- Fairfield City Council, Keeping our roads safe, June 2019 <https://www.fairfieldcity.nsw.gov.au/Your-Council/Fairfield-City-Council/Mayors-Message/Keeping-our-roads-safe>
- Fairfield City Cycle networks <https://www.fairfieldcity.nsw.gov.au/Services/Sports-Parks-Recreation/Cycling>
- Improving our City's car parking <https://www.fairfieldcity.nsw.gov.au/Your-Council/About-Council/Fairfield-City-Mayor-Frank-Carbone-Message/Improving-our-Citys-car-parking>

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