



SCIENCE AND
INDUSTRY
ENDOWMENT
FUND



LIVERPOOL
CITY
COUNCIL

STEM Community Partnerships Program

Liverpool local scenario

Local City Life

With Liverpool being a gateway city to the Western Sydney Airport and home to the Liverpool Innovation Precinct, Liverpool is set to become Sydney's Third Central Business District (CBD). Liverpool City Council has a 10-year plan to 'guide the development of public space and pave the way to a greener, more vibrant and active city centre while fostering an 18-hour economy'. This aims to increase liveability, enhance sustainability and employment opportunities locally.

The main street of a city can be the centre of the community, but it requires constant review and updating to meet the changing needs of the locals. Over time the street scape can be degraded and not offer facilities to meet their needs. There are many aspects to consider from the appeal of the buildings, providing safe walkways and bike tracks, spaces to meet, adequate and appealing lighting, as well as a range of retail options and business activities. The Committee for Sydney has found that when the right conditions are in place, a healthy main street precinct is self-sustaining.

In addition, COVID-19 has changed the work environment for people with many continuing to have flexible work arrangements which includes working from home or using local workspaces. By reflecting these changes in transport, office facilities and recreation requirements in the local city environment, an economically sustaining precinct for the community can be created.

Liverpool City Council has the challenge to ensure they provide the relevant services and activities to cater for this problem.



Photos compliments of thepapermillliverpool.com.au & Liverpool City Council Public Domain Master Plan

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-focussed solution.

(Question, Design, Explore, Communicate)

Resources

CSIRO research

- CSIRO Biodiversity 'Cities and Towns'
https://www.publish.csiro.au/ebook/chapter/9781486302062_Chapter_8
- CSIRO, An unexpected crisis that could change our cities, July 2020 <https://ecos.csiro.au/an-unexpected-crisis-that-could-change-our-cities/>
- CSIRO Living Lab 'Valuing the ecosystem services of living infrastructure using the SEEA framework', 2019 <https://research.csiro.au/darwinlivinglab/wp-content/uploads/sites/278/2020/05/Valuing-the-benefits-of-urban-trees-and-green-space-.pdf>
- CSIRO Digital Twin 'New digital twin to better plan, design and manage Australia's cities', February 2020 <https://www.csiro.au/en/news/news-releases/2020/new-digital-twin-for-nsw>

Reports

- Western Sydney University, Study finds access to green space not equitable in nation's largest cities, May 2014
https://www.westernsydney.edu.au/newscentre/news_centre/story_archive/2014/study_finds_access_to_green_space_not_equitable_in_nations_largest_cities
- Greater Sydney Commission, 'Growing and strengthening the metropolitan cluster'
<https://www.greater.sydney/western-city-district-plan/productivity/jobs-and-skills-city/growing-and-strengthening-metropolitan>
- Committee for Sydney, Reclaiming Sydney High Streets, February 2020
https://www.dpie.nsw.gov.au/_data/assets/pdf_file/0006/329901/Committee-for-Sydney-Reclaiming-Sydneys-high-streets.pdf
- Liverpool: the gateway to Sydney's Aerotropolis, PwC, November 2017
<https://www.pwc.com.au/agendas/cities/liverpool-city-council-the-gateway-to-sydneys-aerotropolis.pdf>
- Reimagining... the Liverpool Health, Education, Research and Innovation Precinct, PwC 2017
<https://www.pwc.com.au/agendas/cities/reimagining-liverpool-aug17.pdf>

Articles

- Sydney's most dangerous areas for police, Sydney Morning Herald, June 2019
<https://www.smh.com.au/national/nsw/there-are-people-who-don-t-respect-the-uniform-sydneys-most-dangerous-areas-for-police-20190611-p51wm7.html>
- A city of homebodies? How coronavirus will change Sydney, Sydney Morning Herald, April 2020
<https://www.smh.com.au/national/a-city-of-homebodies-how-coronavirus-will-change-sydney-20200417-p54ko2.html>
- Have your say on city laneway redesign, Liverpool City Champion, September 2020
<https://www.liverpoolchampion.com.au/story/6919105/have-your-say-on-city-laneway-redesign/>
- Mayor looks ahead to 2021, Liverpool City Champion, December 2020
<https://www.liverpoolchampion.com.au/story/7060580/council-has-your-back/>

Other resources

- Liverpool City Council Public Domain Master Plan, June 2020
<https://www.liverpool.nsw.gov.au/development/major-projects/public-domain-master-plan>
- Sydney's Third CBD <https://www.liverpool.nsw.gov.au/development/major-projects/amendment-52>

- The Paper Mill on Georges River, development site information
<https://thepapermillliverpool.com.au/heritage/>
- COVID-19 fast-track Infrastructure Opportunities
<https://media.liverpool.nsw.gov.au/fotoweb/albums/Xp-ketaiCRSG0DM4sun7wgqcTc3O9Ya-4xiFiA/5ea12b9ba1f498ac584546f8#c=%2Ffotoweb%2Falbums%2FXp-ketaiCRSG0DM4sun7wgqcTc3O9Ya-4xiFiA%2F>

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