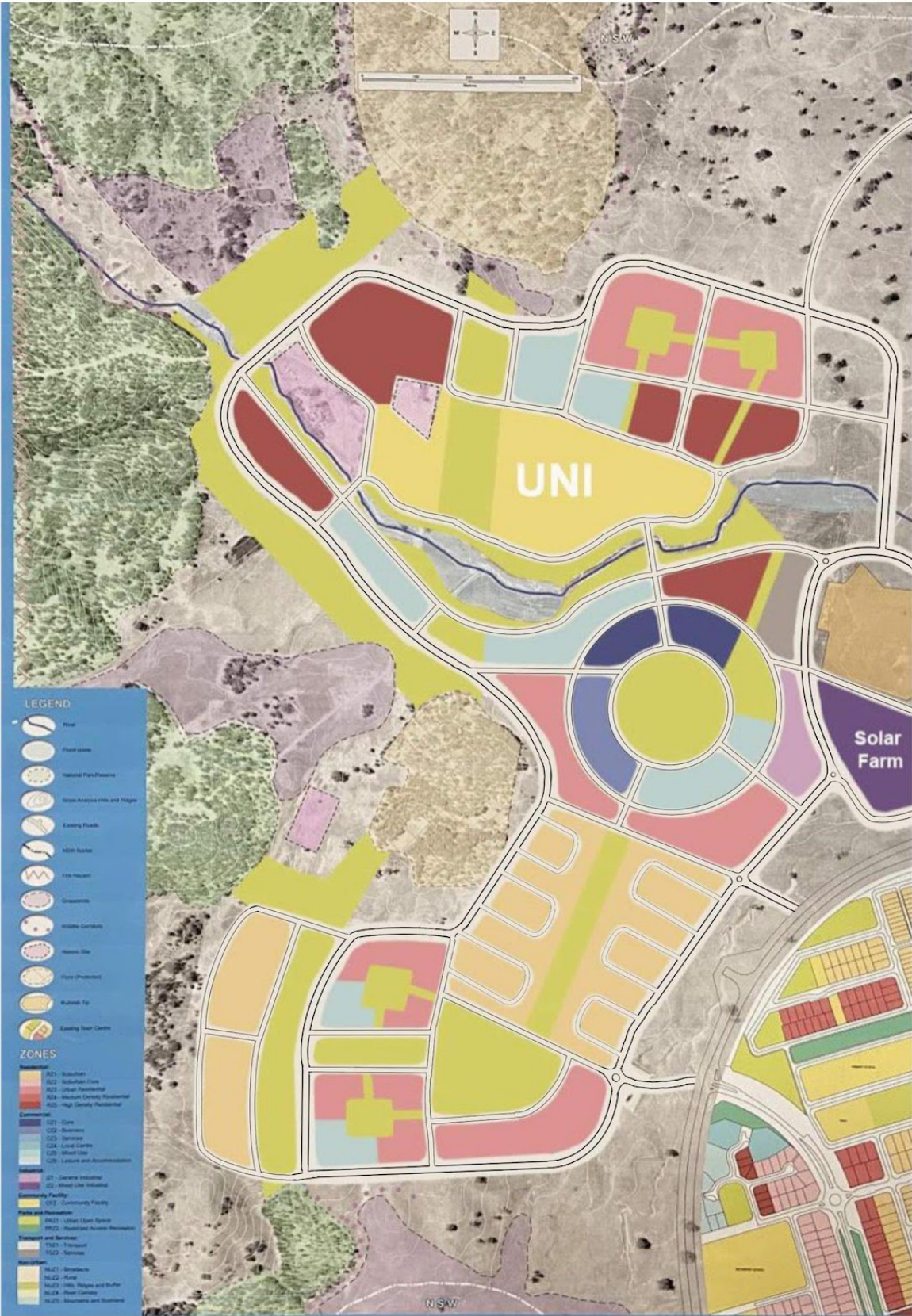


# Unaipon

a green and sustainable suburb for the future.

designed by Ethan Lee





# the suburb.

Unaipon is an innovative and sustainable suburb located in Canberra, drawing inspiration from diverse zoning in Japan and super blocks in Barcelona. The name "Unaipon" is deliberately chosen to honor David Unaipon, a renowned inventor and indigenous rights advocate who symbolized a spirit of innovation and diverse skills. In keeping with his spirit, the suburb aims to embrace and celebrate the diversity of its residents' cultures and languages, creating an inclusive and welcoming environment for all.

Unaipon's high-density housing and mixed-use shops maximize the efficiency of the suburb's footprint while providing sufficient housing for its 5000 residents. The university campus is also a car-free zone, forming a safe and inviting space for both students and the general public to use and enjoy. The suburb also offers efficient and accessible transportation options, including buses and bicycles, reducing dependency on private cars as a result. Safe car-free spaces throughout the suburb help in providing inviting places for residents to relax and feel secure, promoting a healthy and stress-free lifestyle.

In Unaipon, nature is a vital part of daily life, with linear green parks connecting fragmented nature reserves and creating different axes. Native plantings in its green networks serve as wildlife crossings and habitat creation, bridging the gap between wildlife and the built environment while maintaining Canberra's status as the "bush capital." In addition, a solar farm is located by the dumping site, acting as a buffer zone while providing a source of sustainable energy for the entire suburb. Overall, Unaipon is a sustainable and green suburb that provides its residents with a quality and improved lifestyle by offering proximity to daily needs and green spaces, creating a unique and vibrant community.



## diverse

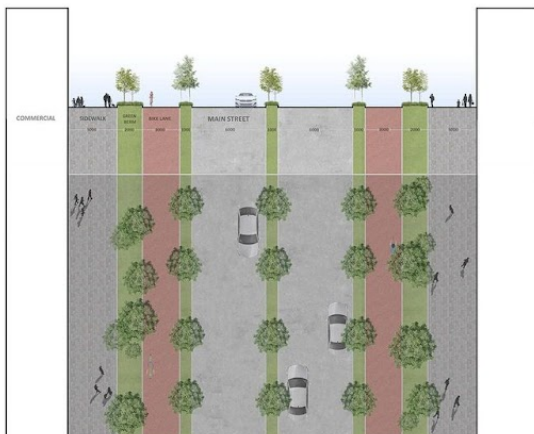
The design incorporates several communal spaces, including a circular park in the heart of the business district, green pockets in the mini-superblocks, and riverside areas, all intended to serve as "third places" for residents to gather and socialize. These spaces are designed to promote art and culture while providing residents with opportunities to create real connections with one another. By promoting interactions between different ethnic, ages, gender, and other groups, the suburb will foster a strong and supportive community.

The university is also situated near the center of the suburb to enable interactions between students and the general public, avoiding conflict as a result. Additionally, the suburb encourages economic diversity by supporting and welcoming small, medium, and large businesses, which will provide residents with a wide range of options and boost the suburb's overall economic activity. With a rich mix of commercial, communal, and natural spaces, Unaipon is a vibrant and dynamic community that offers something for everyone.

## accessible

Unaipon is designed to be a highly accessible and walkable suburb that provides its residents with a range of amenities within proximity to their homes. The suburb boasts an extensive green network that allows its residents to travel safely anywhere on foot or by bicycle. With an efficient bus system and safe bike lanes, car dependency is minimized, making it easy to travel long distances within the suburb.

One of Unaipon's standout features is the abundance of open green spaces, which enables inhabitants to entirely immerse themselves in nature and develop a strong connection with the local flora and fauna. The suburb's core focus on accessibility, walkability, and green spaces makes it an ideal place to live for those seeking a vibrant, sustainable, and healthy lifestyle.



## compact & efficient

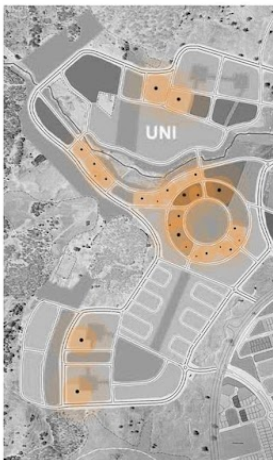
The suburb is carefully planned to cater to the daily needs of its residents with a multitude of mixed-use shops and green spaces distributed within walking distance throughout the area. Drawing inspiration from the mini-superblocks in Barcelona, the suburb offers residents easy access to commercial areas and green parks right at their doorstep. Likewise, the university is strategically located close to high-density housing and mixed-use shops, catering to the housing and daily needs of the students and minimizing reliance on cars. A bustling ecosystem for small businesses is also created as a result, as the influx of students helps to provide a steady stream of customers. Overall, the suburb is designed with its resident's needs in mind to maximize the efficiency of land and space.

## livable

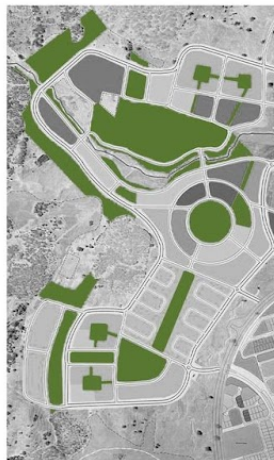
The suburb's commitment to reducing car dependency is realized through a combination of green networks and efficient public transport systems. With bus stops being located within walking distance throughout the entire suburb, the need for a car is greatly minimized. Furthermore, the use of circuits and mini superblocks aids in reducing motor activity, creating clean, pedestrian-friendly spaces as a result. The road network is too intentionally designed to reduce car speeds with measures such as speed bumps, roundabouts, and traffic lights. Additionally, green buffer zones located along major routes help to reduce noise pollution and enhance the overall livability of the area. The suburb boasts a range of recreational and necessary facilities distributed throughout, making it an inviting and accessible place to live in. Its diverse housing options ensure that all residents' needs are met, with everything from high-density apartments to spacious townhouses available.

## sustainable & resilient

The suburb's goal of achieving 100% renewable energy will be realized through a combination of its solar farm, solar panels on homes and buildings, and outsourcing any remaining energy needs from outside. The natural environment, including the river, will be preserved and worked around to minimize any negative impact. Flood-prone areas will also be transformed into urban green spaces that will also serve as recreational areas for water activities when naturally flooded. Furthermore, each neighborhood will have its community garden where self-sufficiency and a deeper connection to nature can be fostered as a result. Finally, the extensive greenery throughout the suburb will not only act as a natural barrier between people and vehicles but also significantly reduce temperatures during hot sunny days.



NOISE



GREEN SPACES



SIGNIFICANT ROADS



BUS STOPS