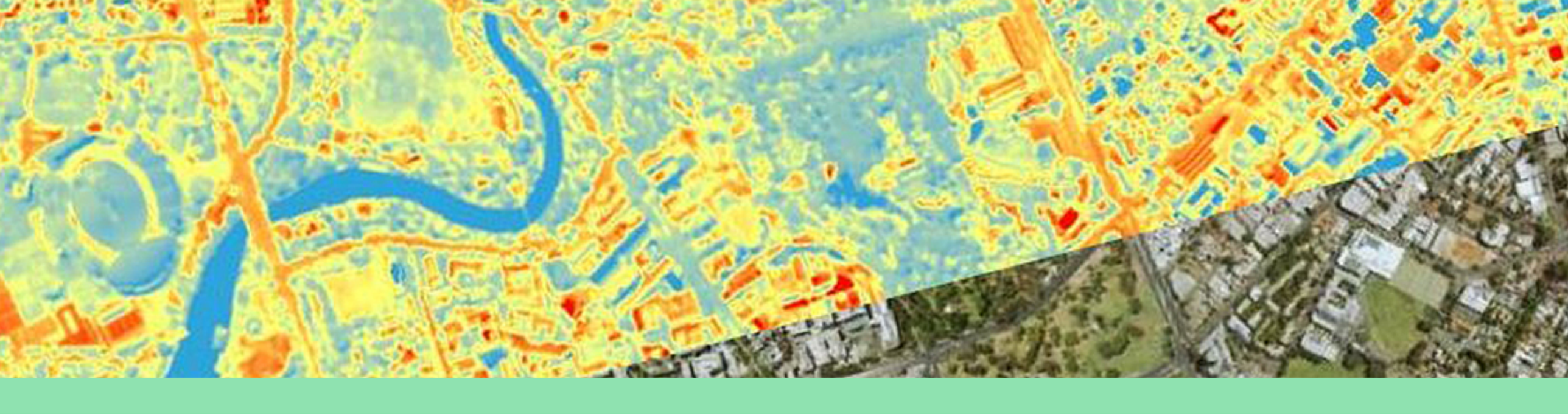

RESILIENT EAST

Climate Ready Eastern Adelaide

LET'S GO HOME

☐ Navigate to your home, school or business. Is the roof cool or hot? Turn off the heat layer and see what colour it is. Compare it with nearby roofs, and day/night.

Colours influence temperatures. Dark colours absorb heat from the sun, where lighter colours reflect heat. This impacts the temperature inside buildings too, where typically darker roofs require more energy and are more expensive to cool.

☐ Look at your home, school or business on the map, can you identify opportunities for cooling? Perhaps by introducing more vegetation, or changing surface colours? What can you do? Write in the space below...

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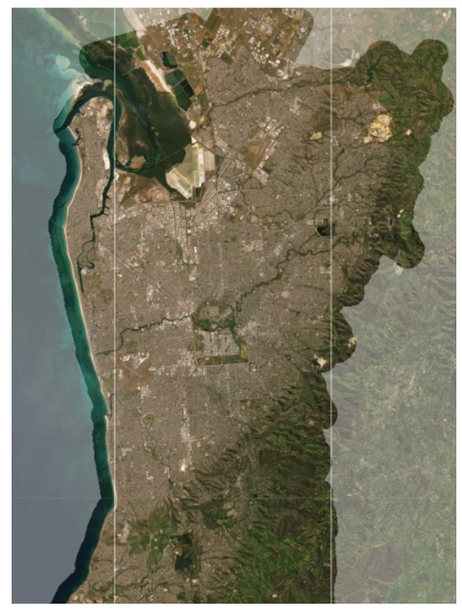
FEELING THE HEAT

Now that you understand how to use the **Urban Heat and Tree Mapping Viewer** and what layers are available, let's have a go at using the maps to understand how different materials influence surface temperatures that contribute to urban heat. We will explore how this differs from day to nighttime.

Start by opening the Urban Heat and Tree Mapping Viewer at resilienteast.com/map-viewer.

IMAGINE THAT



Imagine its a hot summers day in Adelaide, which areas would you go to cool down and which would you avoid?

- I would go to _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ to cool down.
- I would avoid _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _.

What about at night?

- I would go to _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ to cool down.
- I would avoid _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _.

If you were in the backyard of a home in the day time,

- where would you go?_ _ _ _ _ _ _ _ _ _ _ _ _ _ _.
- where would you avoid?_ _ _ _ _ _ _ _ _ _ _ _ _.

Tip: Urban areas tend to be significantly warmer than rural areas due to human activity and land that's been converted from natural, living spaces to artificial areas. This creates Urban Heat Islands (UHI).

STEPPING OUT

Now imagine walking bare foot on these six surfaces during the day. How would they feel, and why?

In the boxes, write a 'C' for Cool or 'H' for Hot.

Using the online map, search for these types of surfaces, overlay the heat map and click on it to see temperature differences. If you get stuck, here are some locations to search (the numbers correlate with the images).

1. Lot 20 Darley Rd, Paradise (skate park)
2. 571 Montague Road, Modbury
3. 75 Golden Grove Road, Ridgehaven
4. 1 Menzies Crescent, Prospect
5. Reservoir Park / Kangatilla
6. Fullarton Road, Kent Town

1. Hot, 2. Cool, 3. Hot, 4. Hot, 5. Hot, 6. Hot

Tip: Hard impervious surfaces (i.e. roads) are unable to retain water and are typically hotter. Permeable/irrigated surfaces (i.e. grass/water bodies) are cooler as they retain and release moisture, acting just like evaporative air conditioners.