**To:** Australian Government Department of Health and Aged Care  
**From:** G7 Data Science Professionals  
**Date:** December 10th, 2024  
**Subject:** Analysis of Public Toilet Facilities and Infrastructure Recommendations

Our comprehensive analysis of Australia’s public toilet facilities, leveraging the National Public Toilet Map dataset, focused on five critical metrics: traveler access, disabled access, gender inclusivity, public health impact, and environmental considerations. These findings will inform strategies for optimizing the placement, maintenance, and construction of facilities to enhance public health outcomes and sustainability.

1. **Traveler Access**

* Inland regions, including the Outback, lack sufficient public toilets with essential amenities like showers, parking, and dump points. Coastal areas are adequately served.

1. **Accessibility for Disabled Persons**

* Significant gaps exist in facilities accommodating disabled individuals, particularly in central and some coastal urban areas.

1. **Gender Inclusivity**

* Unisex toilets are underrepresented, especially in rural and central areas. Urban areas have higher adoption rates.

1. **Public Health Impact**

* No significant correlation was found between toilet density and public health metrics such as kidney and heart disease prevalence. Coastal population density may skew results.

1. **Environmental Impact**

* Air and land pollution correlate with toilet locations, likely influenced by population density. Water pollution showed minimal correlation due to effective wastewater management.

**Recommendations**

To improve overall health and wellbeing in the Australian toilet ecosystem, we recommend:

* Facility construction along major inland roads with showers, parking, and dump points.
* Accessibility prioritization in major cities and coastal regions.
* Unisex facility construction with community education initiatives about their benefits.
* Further study on the relationship between public health and toilet infrastructure.
* More robust air and land emission mitigation in toilet construction and maintenance.

By implementing these recommendations, we strongly believe in the overall improvement of public health and wellbeing as related to the Australian ecosystem.