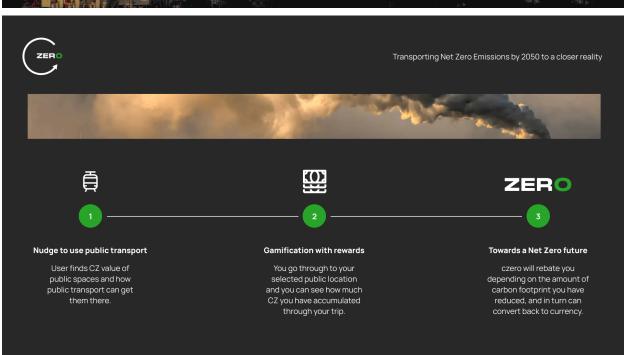
C Zero

C zero focuses on helping reduce carbon emissions through the collaboration and promotion of micro mobility and city landscapes. Our goal at C zero is for Australia to reach zero net emission by 2050, through connecting public transport with public landscapes.

If you wish to see zero like we want to see zero, then join us and become Australia's next hero.





Work:

Github Link: Website - Landing source code

• Website: Website - live

• Figma: Figma prototype link

Problem

- There is are no major transport projects that support Australia's Net Zero Emission by 2050 goal
- There are no current incentives for people to catch public transport
- There is no incentive for general public to use public spaces

Existing Infrastructure

- Open Spaces in every Australian City
- Existing infrastructurePublic Transport

Solution

- Creating an application that nudges people to want to help reduce carbon emission
- carbon emission

 Creating an app to nudge people and bring awareness to this issue

Key Metrics

- Amount of Carbon Emissions saved by each user over the course of the year
- Amount of sign ups per vear

Value Proposition

- Nudge people to use public transport would result in lower carbon emissions in Australia
- Therefore closer to 2050 Net Zero Emissions goal

High Level Concept

- App that incentives users to use public transport, and be rewarded through monetary compensation
- Visiting public landscapes and in turn helping reduce emissions

Customer Segments

 Government, General Public, People who are reluctant to use public transport and those who are not incentivised to

Early Adopter

 Government / Trial out a transport department before rolling out to the rest of Australia

Cost Structure

App development, Funding for application, team expansion,
geographical expansion.

Revenue Streams

· Government Grants, Funding from Equity Investors, Ads

Data Story:

Proof 1: We used the demographic dataset from the Informed Decisions community website to know the public's preferred Method of travel of work. The data below compares the Census data of the year 2011 & 2016 and we can see the preferred method of travel to work over the years is Car - as a driver.

We have had an insight of the data for South Australia as well Australia as nation wide.

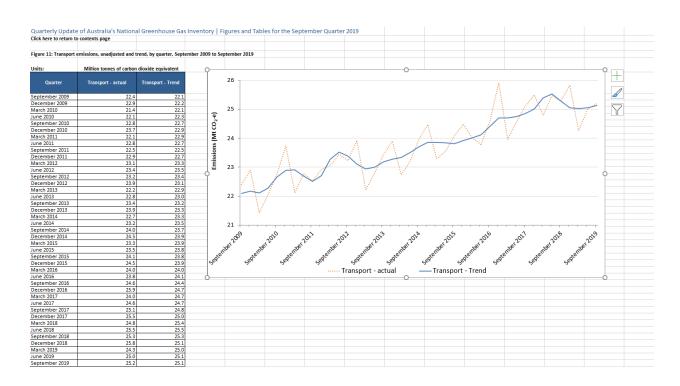
Method of travel to work							
South Australia - Employed persons (Usual residence)	2016			Change			
Main method of travel	Number	%	Australia %	Number	%	Australia %	2011 to 2016
Train	14,000	1.9	7.2	12,120	1.6	6.3	+1,880
Bus	34,973	4.7	3.5	35,450	4.8	3.5	-477
Tram or Ferry	2,907	0.4	0.7	2,249	0.3	0.6	+658
Taxi	1,375	0.2	0.2	1,546	0.2	0.2	-171
Car - as driver	492,360	66.0	61.5	471,348	63.8	60.2	+21,012
Car - as passenger	34,006	4.6	4.6	39,172	5.3	5.3	-5,166
Truck	4,509	0.6	0.8	5,844	0.8	1.0	-1,335
Motorbike	3,442	0.5	0.6	4,033	0.5	0.6	-591
Bicycle	7,453	1.0	1.0	7,471	1.0	1.0	-18
Walked only	20,698	2.8	3.5	23,646	3.2	3.7	-2,948
Other	11,002	1.5	1.4	10,831	1.5	1.3	+171
Worked at home	32,678	4.4	4.7	30,886	4.2	4.4	+1,792
Did not go to work	80,078	10.7	9.4	84,531	11.4	10.2	-4,453
Not stated	6,639	0.9	1.0	10,225	1.4	1.5	-3,586
Total employed persons aged 15+	746,120	100.0	100.0	739,352	100.0	100.0	+6,768

Method of travel to work							
Australia - Employed persons (Usual residence)	2016			2011			Change
Main method of travel	Number	%	Greater Capital Cities %	Number	%	Greater Capital Cities %	2011 to 2016
Train	770,758	7.2	10.4	632,342	6.3	9.2	+138,416
Bus	371,840	3.5	4.3	347,562	3.5	4.3	+24,278
Tram or Ferry	70,591	0.7	0.9	57,338	0.6	0.8	+13,253
Taxi	19,724	0.2	0.2	22,080	0.2	0.2	-2,356
Car - as driver	6,574,569	61.5	59.0	6,059,380	60.2	58.5	+515,189
Car - as passenger	489,927	4.6	4.3	537,554	5.3	4.9	-47,627
Truck	85,882	0.8	0.7	104,731	1.0	0.9	-18,849
Motorbike	64,571	0.6	0.6	64,298	0.6	0.6	+273
Bicycle	107,746	1.0	1.1	103,891	1.0	1.1	+3,855
Walked only	370,421	3.5	3.2	376,932	3.7	3.3	-6,511
Other	146,335	1.4	1.3	132,411	1.3	1.2	+13,924
Worked at home	503,581	4.7	4.2	443,921	4.4	3.7	+59,660
Did not go to work	1,003,788	9.4	8.9	1,024,821	10.2	9.8	-21,033
Not stated	104,063	1.0	0.9	149,895	1.5	1.4	-45,832
Total employed persons aged 15+	10,683,796	100.0	100.0	10,057,156	100.0	100.0	+626,640

Source: Australian Bureau of Statistics, Census of Population and Housing 2011 and 2016. Compiled and presented by .id (informed decisions). http://www.id.com.au

<u>Proof 2</u>: As we identified in the previous data set the most frequent way of commuting was Private motor vehicle, we researched on how Transport is costing Australia in terms of Emissions. We researched and used the data from University of Wollongong, Australia and were shocked to know that the Transport emissions have gone up 64% since 1990. The Transport emissions, actual & trend, by quarter, September 2009 to September 2019 has seen a constant increase.

(Note: Units in below figure are in equivalence to Million tonnes of carbon dioxide equivalent)



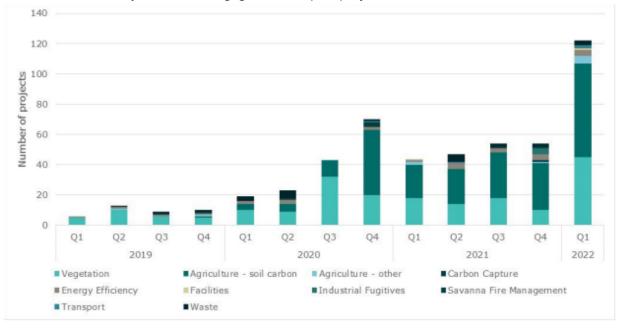
Reference: Australian Government || Department of Industry, Science and Resources. 2020. National Greenhouse Gas Inventory: September 2019. [online] Available at: https://www.industry.gov.au/data-and-publications/national-greenhouse-gas-inventory-september-2019 [Accessed 21 August 2022].

BASE CASE PROJECTIONS OF DIRECT GREENHOUSE GAS (CARBON DIOXIDE EQUIVALENT) EMISSIONS FOR AUSTRALIAN CIVIL TRANSPORT BY MODE, 1990-2020

(gigagrams of CO2 equivalent)

Fin.	Motor Vehicles	Rail	Maritime	Aviation	Total
Year		(non-electric)			
1990	53184	1741	2294	2564	59783
1991	52905	1732	2152	3140	59929
1992	53280	1685	2201	3392	60557
1993	54578	1658	2196	3552	61984
1994	55713	1792	2240	3706	63450
1995	58156	1743	2471	4273	66643
1996	59744	1696	2273	4638	68351
1997	60424	1729	2265	4837	69255
1998	62045	1757	2269	4845	70917
1999	63812	1808	2131	4780	72531
2000	65286	1874	2116	4998	74274
2001	65591	1840	2021	5135	74587
2002	68484	1926	2079	4725	77215
2003	69742	1977	2056	5039	78813
2004	73189	2016	2054	5581	82841
2005	74136	2060	2051	5946	84193
2006	75234	2103	2053	6219	85609
2007	77077	2142	2054	6411	87684
2008	79054	2176	2056	6674	89961
2009	81075	2210	2057	6929	92272
2010	82671	2244	2061	7173	94148
2011	83957	2277	2064	7312	95611
2012	85178	2310	2069	7522	97079
2013	86276	2339	2073	7716	98405
2014	87324	2367	2079	7803	99573
2015	88326	2394	2085	7967	100773
2016	89246	2421	2090	8114	101871
2017	90189	2447	2097	8262	102995
2018	91075	2473	2104	8412	104064
2019	91991	2498	2112	8564	105164
2020	92892	2523	2119	8716	106251

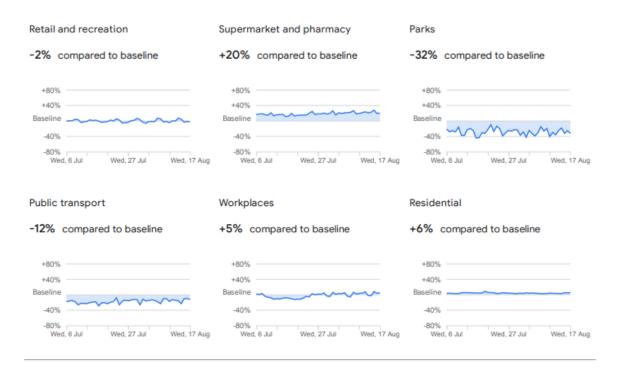
Proof 3: From the above two datasets & research we brainstormed and came to the conclusion to check whether there are enough registered projects for Transport to support the cut off for Emissions. We used the Australian Government Data set for Clean Energy Regulator and realized that there was no interest in the project for Transport Q1 for 2019, fast forward to 2022 and datasets still say there are Negligible Transport projects in Q1 for 2022 as well.



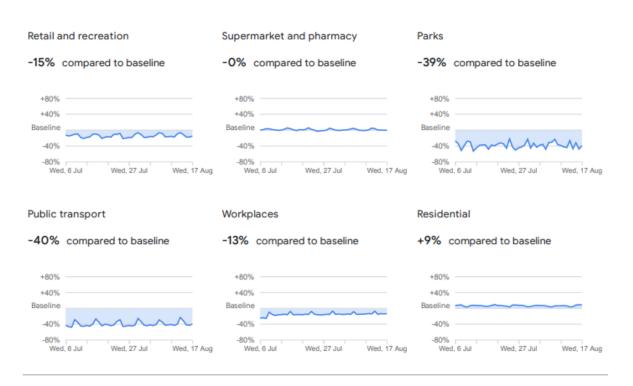
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Proof 4: After brainstorming around the problem, we came up with a solution - Czero with an aim to promote people to use public transport more along with public spaces in a carbon controlled way. As our solution bridges between public transport & public spaces we did a research to know how often people are accessing the public spaces. According to an article in the IT news Australia was grinding to halt, especially more post the Covid period. After numerous research we used the data set from Google - COVID-19 Community Mobility Report which proved there had been a major decrease in public spaces as well as transport

South Australia



Victoria



Conclusion (Why this Solution): After researching & brainstorming all the poof datasets we were convinced we can use Czero as an opportunity to bridge public transport & public spaces and connect both aspects to promote a better & healthier environment for future generation that leads to achieve Net Zero Emission by 2050

- 1. Clean Energy Regulator data shows lack of support for transport projects
- 2. Data shows there is limited (negligible) interest in transport project
- 3. Data shows australia is the hird largest source of emission
- 4. Lowest annual emission of carbon since 2008 (data that they have provided us
- 5. Research has indicated a decrease in the use of public spaces over the last 3 years

#NetZeroEmission #PublicTransport #PublicSpaces #Web3 #CityLandscape