

AUDIT OF OUTDOOR FOOD ADVERTISING NEAR PERTH SCHOOLS: BUILDING A LOCAL EVIDENCE BASE FOR CHANGE





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Outdoor advertising



Overall aim

Generate robust evidence describing, benchmarking and quantifying the volume and nature of all outdoor food advertising within a 500m radius of Perth schools

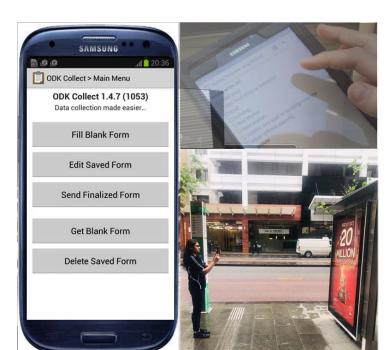
INFORMAS protocol

Methodology for monitoring outdoor advertising around schools enabling intra and inter-country comparisons

School selection

64 schools (primary, secondary, K-12) across 16 Perth LGA's were selected using random sampling within population density (high/low) and SES (high/low) strata

Outdoor advertising BALLAJURA PRIMARY SCHOOL data collection



GIS NAVIGATION MAPS

CLIPPE

Area within 500m radial buffer around school boundary scanned on foot by trained research staff for all outdoor ads (defined as stationary objects containing either a recognisable logo and/or an intended message)

LAKEFARM

Jacana Park

Majority of data collection occurred July-Dec 2019

AUDITORS USED TABLETS

- Data entry/coding _
- Photograph -
- Geolocation of each ad on-site used to _ determine the distance from each ad to the school boundary via GIS

Advertisement coding - size

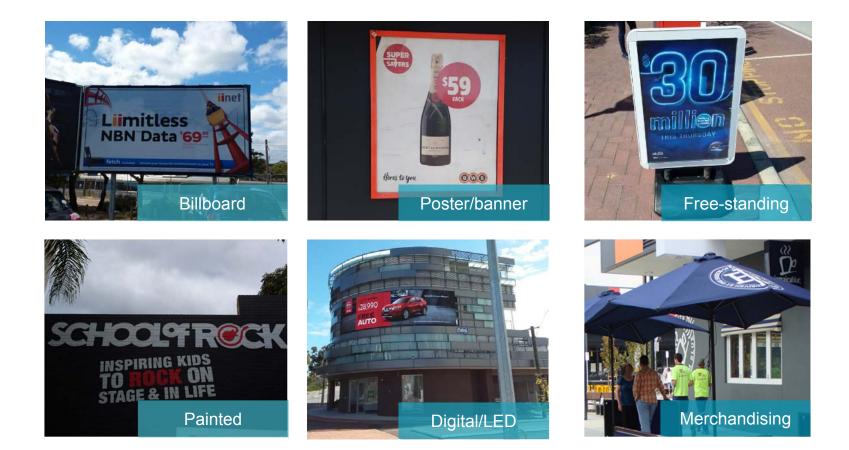


Small

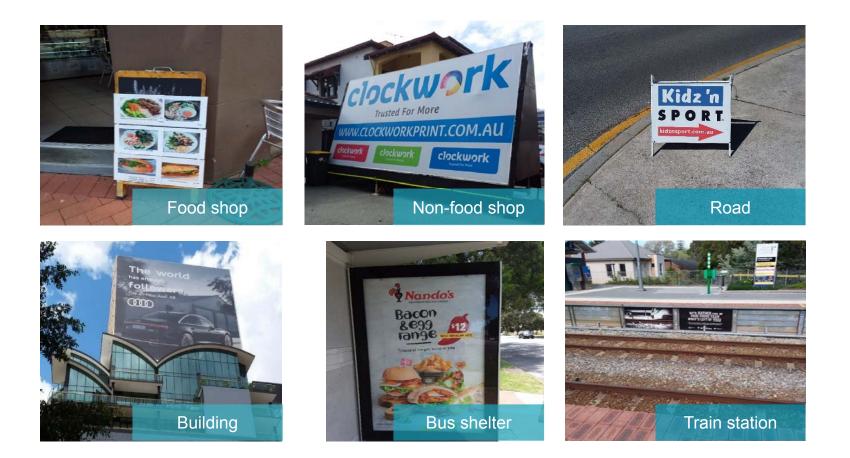
≥A4 but <1.3m x 1.9m

Medium >1.3m x 1.9m but <2.0m x 2.5m **Large** >2.0m x 2.5m

Advertisement coding - type



Advertisement coding – setting



Advertisement coding – content

Food

INFORMAS/AGTHE aligned food categories:

- Core (healthy) foods recommended to meet daily nutritional req (n=11)
- Non-core (unhealthy) foods surplus to daily requirements (n=15)
- Miscellaneous foods (n=4)
- Branding only (companies/logos and brands, no products)

Non-food

Retail, entertainment and leisure, motor vehicles, finance, communications, travel/accommodation, media/TV/news, Government/Council





Advertisement coding – content

Other info recorded:

- Company/shop/business and/or brand
- Pictures and/or words
- Number of food products and INFORMAS/AGTHE subcategories depicted in each ad
- Outdoor advertising company (if applicable, e.g., APN)

Ineligibility criteria:

- Real estate signs (e.g., for sale/open for inspection)
- Construction signage, fencing or screening
- On-premise signage imparting info only (e.g., name, contact details, logo, opening hours)
- Ads inside stores (except windows)
- Community safety or public information only



Our data collection team



Investigators, research staff & students

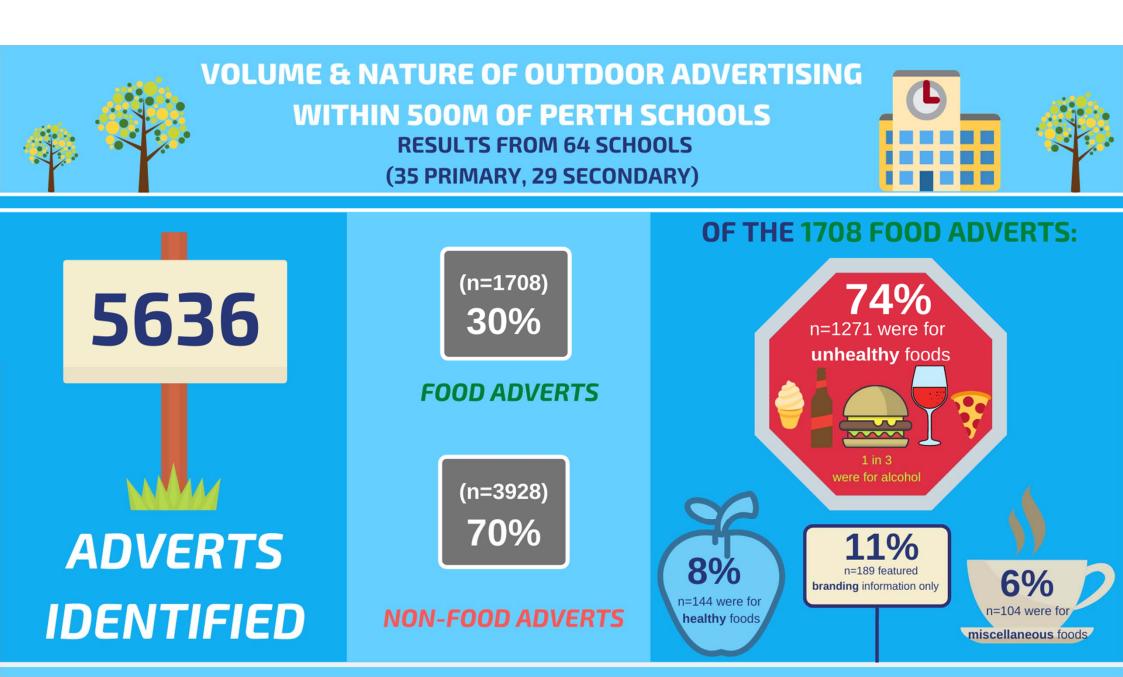
Gina Trapp (Project Lead) Paula Hooper (GIS/Map support) Lukar Thornton (App support) Joelie Mandzufas (Project Co-ordinator) Wesley Billingham (Statistician) Emma Charlton (Research Assistant) Naomi Plummer (Research Assistant) Olivia Catchick (Research Assistant) Michaela Johnston (Research Assistant) Amy Sievers (Practicum student) Monica McDonald (Practicum student) Nicole Wickens (Practicum student) Benedetta Giuntini (Practicum student) Smriti Sikri (Practicum student) Harindra Vidyattilake (Practicum student)

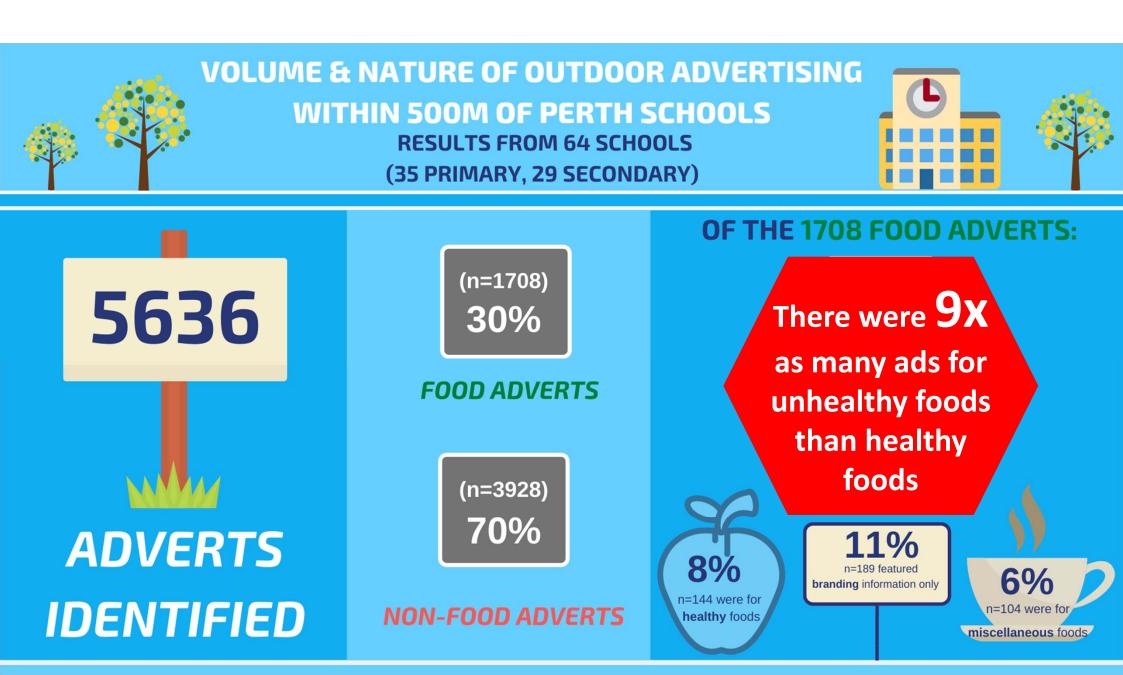
Volunteers

Nicole Davidson Lisa Anne Spalding Aida Noordin Campbell Peters Cassie Murphy Dylan Ferrier Emily Chan Jacinta Kernaghan Kalyisah Farid Megan Baker Serena Louie Isabel Dunstan Holifiah Bahar Hayley Caratti

Results: School sample

SES	Population Density	Primary School	Secondary School	K-12 school	Total
High	High	9	4	3	16
High	Low	8	4	4	16
Low	High	10	4	2	16
Low	Low	8	7	1	16
	Total	35	19	10	64





Results: most frequently advertised food products

Alcohol 25% Fast food (burgers/chips/pizza/kebabs) 14% Sugar-sweetened beverages 13%







Results: Frequency of advertised food products

	UNHEALTHY (NON-CORE) FOOD CATEGORIES	Number of food ads	% of total food ads
1	Alcoholic beverages	403	24%
2	Fast food meals (e.g., burgers, chips , pizza, fish and chips, kebabs)	242	14%
3	Sugar sweetened drinks (e.g., soft drinks, energy drinks, flavoured & electrolyte drinks)	215	13%
4	High fat/salt meals (e.g., fried foods, curry)	178	10%
5	Ice-cream and iced confection	123	7%
6	Sweet breads, cakes, muffins, biscuits, pastries	69	4%
7	Full cream milks/yoghurts (>3g/100g fat), cheese (>15g/100g fat) and their alternatives	61	4%
8	Flavoured noodles/ fried rice products	38	2%
9	Savoury snack food with added salt/fat including chips (crisps), coated nuts	27	2%
10	Chocolate and candy	27	2%
11	Meat and meat alternatives processed or high in salt (e.g., frankfurts, tinned meats)	20	1%
12	Other high fat/salt products (e.g., butter, animal fats, high fat savoury sauces)	20	1%
13	Sweet snack foods (e.g., jelly, sugar coated fruits/nuts, tinned fruit in syrup)	14	<1%
14	High sugar/low fibre breakfast cereals	4	<1%
15	Fruit juices less than 98% fruit	3	<1%



Results: Frequency of advertised food products

	HEALTHY (CORE) FOOD CATEGORIES	Number of food ads	% of total food ads
1	Low fat meals (e.g., soups, sandwiches, salads, sushi)	104	6%
2	Meat and meat alternatives, nuts and seeds	55	3%
3	Fruits and fruit juice >98% fruit	48	3%
4	Vegetables	45	3%
5	Breads, rice and rice products (nothing fried)	41	2%
6	Bottled water (unflavoured mineral/sodas)	10	<1%
7	Healthy snacks – based on core foods (fruit/veg, grain, dairy, meat, meat alternatives)	5	<1%
8	Low in sugar and high in fibre cereals (<20g sugar, >5g of dietary fibre per 100g)	3	<1%
9	Milk, yoghurt, cheese, probiotic drinks	2	<1%
10	Mono/ polyunsaturated fats e.g. olive oils, plant-based margarines	2	<1%
11	Baby foods (not formula)	0	<1%

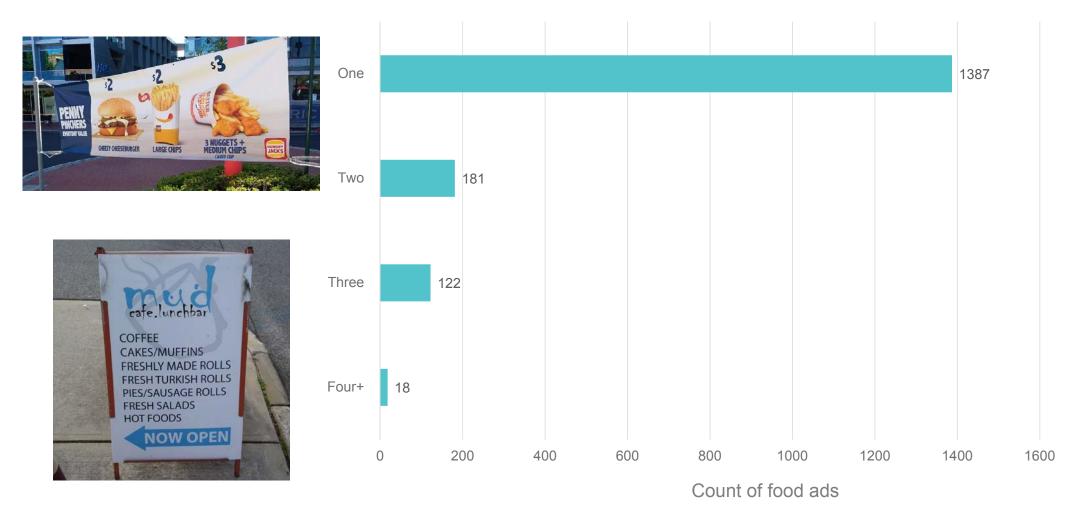


Results: Frequency of advertised food products

	MISCELLANEOUS	Number of	% of total
		food ads	food ads
1	Tea and coffee	191	11%
2	Vitamin/ mineral or other dietary supplements, sugar free gum	32	2%
3	Recipe additions including soup cubes, herbs, seasonings	11	<1%
4	Baby formula	0	0



Results: Number of food sub-categories depicted in each food ad

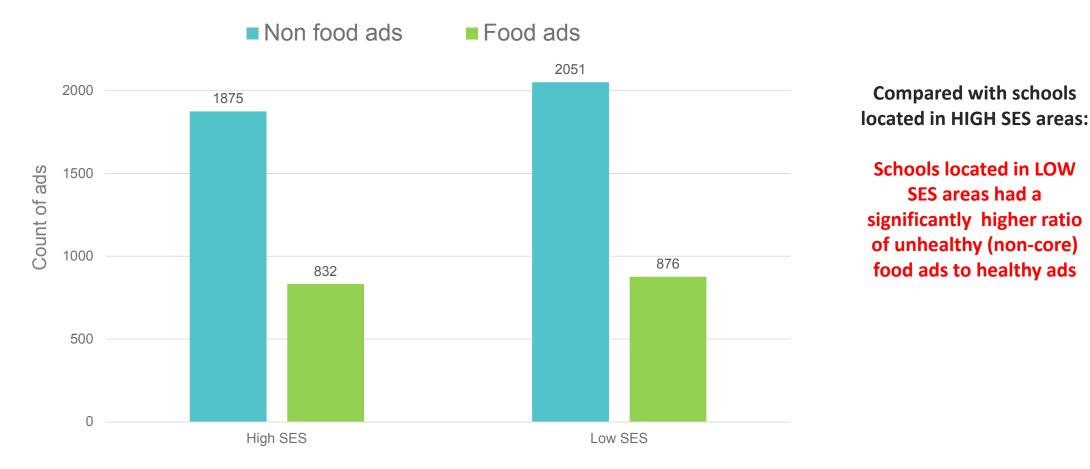


Results: outdoor advertisements

Within 500m of the 64 schools

3 schools 0 ads of any kind	75% of schools had ≥1 food ad Average=36 ads, range 3-190	70% of schools had ≥1 unhealthy food ad Average=28 ads, range 1-136		37% of schools had ≥1 healthy food ad Average=6 ads, range 1-19
zero ads	-FRESH SALADS EVERY DAY- Money muglard chicken ROAST PUMPKIN BUCKWHEAT	KRICH	MAKE IT A MAXX MOMENT.	
NUM	to our breskfuls every day! thegindhaut.com.au	Russ -		

Results: Total number of ads within 500m of schools by SES



Results: Proportion of ads by SES and distance

- total food ads within 250m (vs 250-500m) .00 -34% 51%

Schools located in LOW SES areas had a significantly higher proportion of:



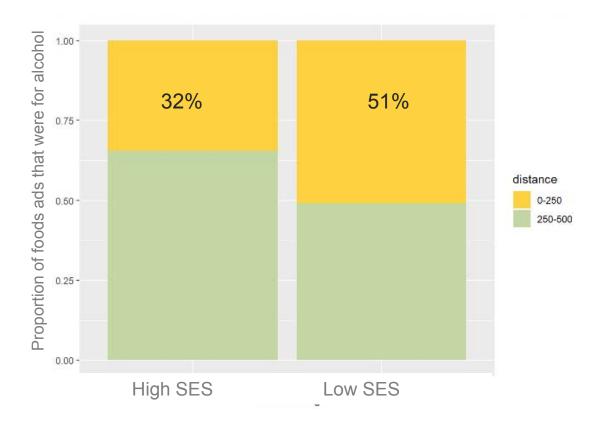
Results: Proportion of ads by SES and distance

Proportion of unhealthy food ads (excl alcohol) 30% 40% distance 0-250 250-500 High SES Low SES

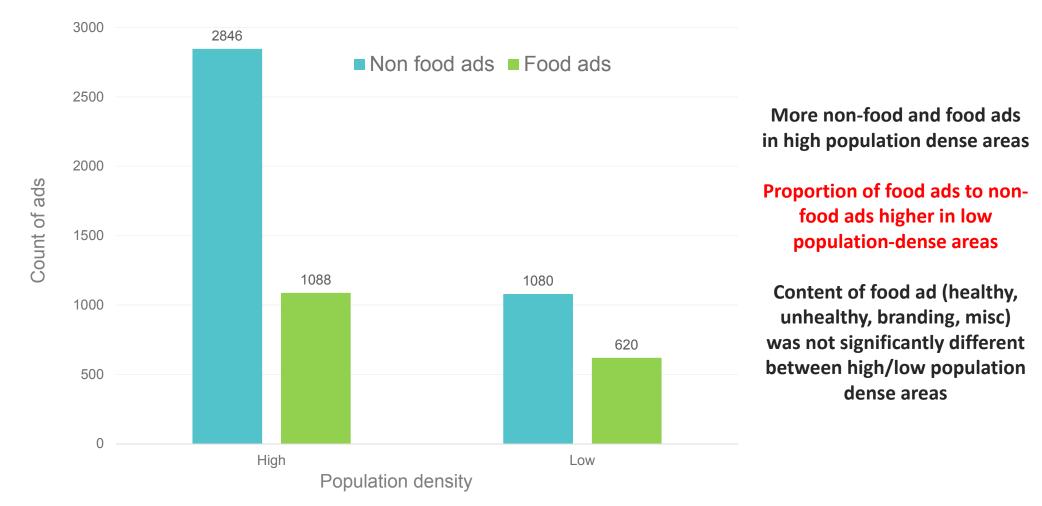
Schools located in LOW SES areas had a significantly higher proportion of: - **unhealthy food ads (excl alcohol)** within 250m (vs 250-500m)

Results: Proportion of ads by SES and distance

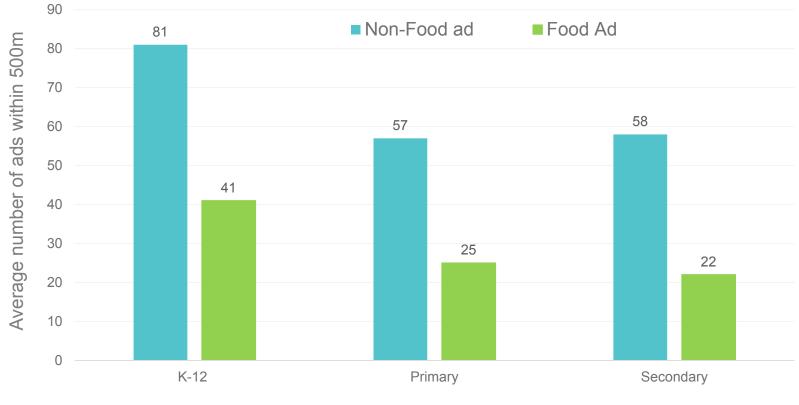
Schools located in LOW SES areas had a significantly higher proportion of: - **alcohol ads** within 250m (vs 250-500m)



Results: Total number of ads within 500m by population density

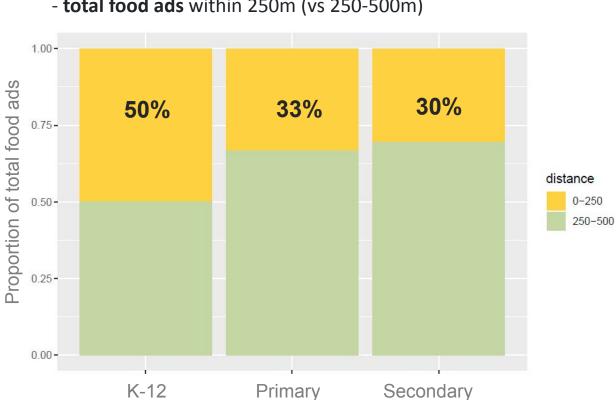


Results: Average number of ads within 500m by school type



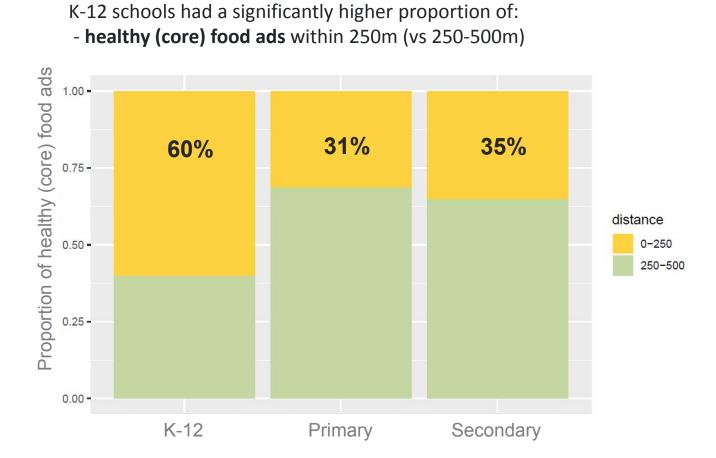
School type

Results: Proportion of ads by school type and distance

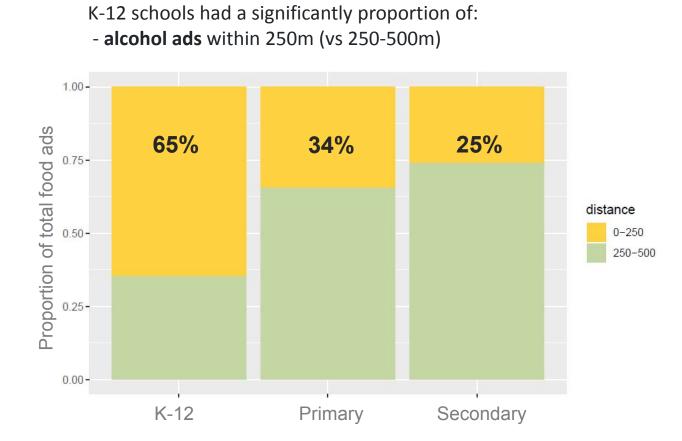


K-12 schools had a significantly higher proportion of: - **total food ads** within 250m (vs 250-500m)

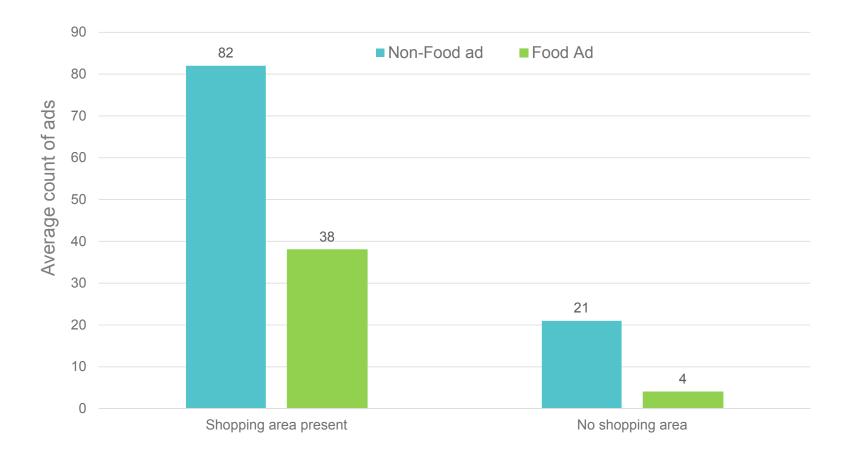
Results: Proportion of ads by school type and distance



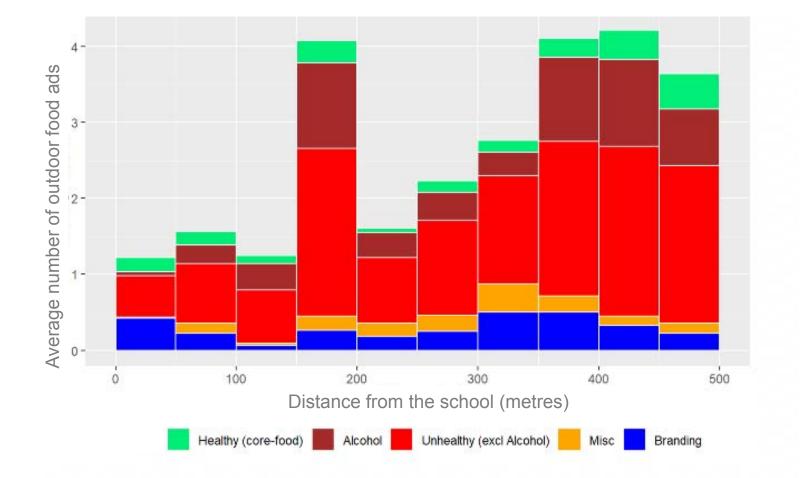
Results: Proportion of ads by school type and distance



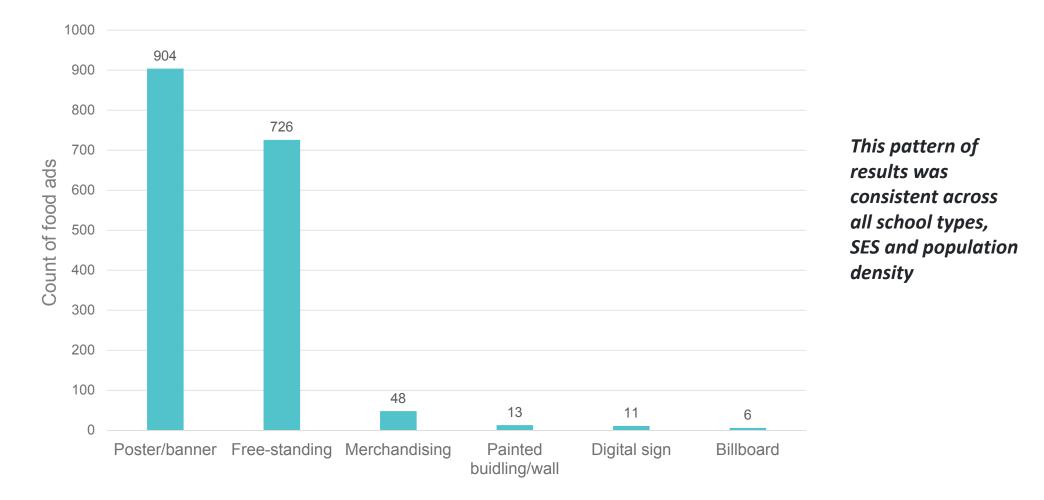
Results: Average count of ads within 500m by presence of shopping area



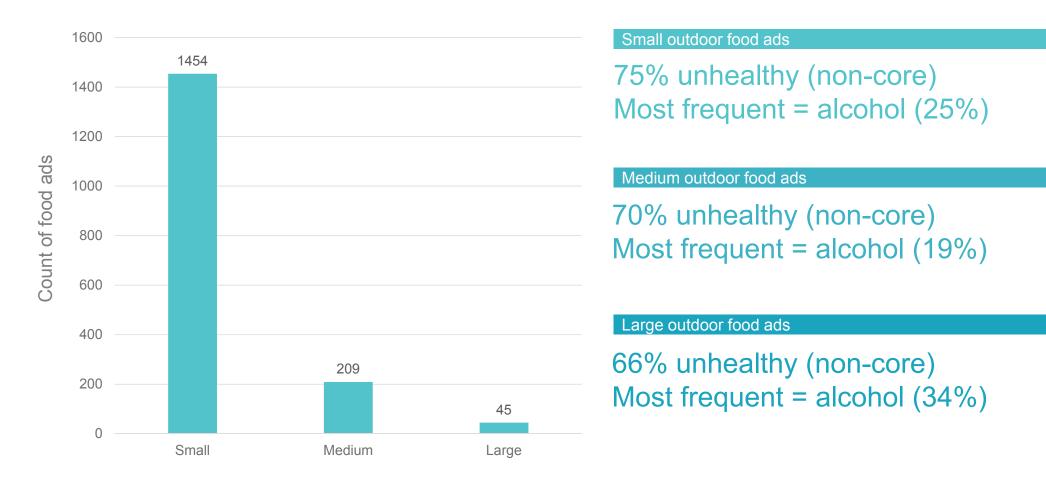
Results: Average number of food ads by ad content and distance



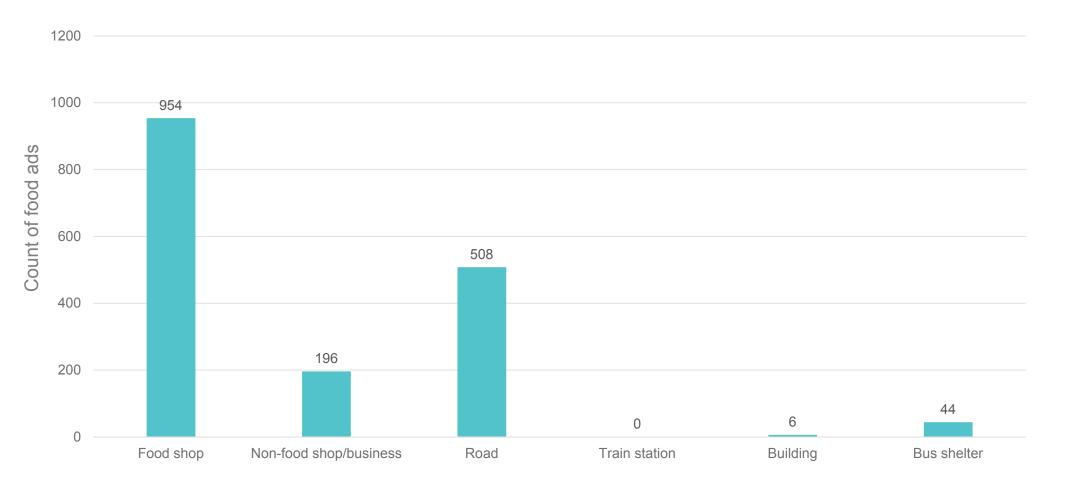
Results: Count of outdoor food ads within 500m by ad type



Results: Size of outdoor food ads within 500m of all schools

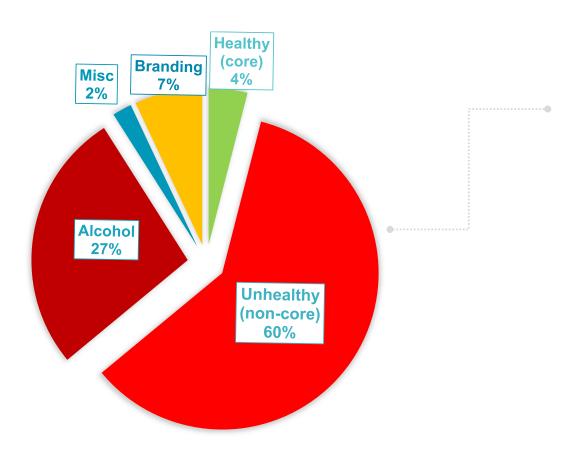


Results: Count of total food ads within 500m by setting



Healthy (core) Branding 7% Misc 4% -2% Alcohol 27% Nando's Unhealthy BBQ Bacon 12 Classic (non-core) 60% 1

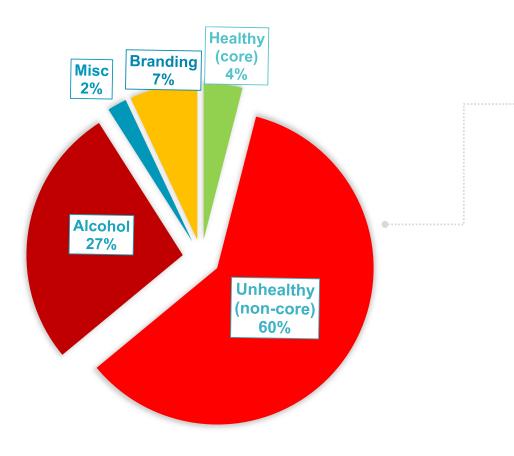
Results: bus shelter food ads



Results: bus shelter food ads



Results: bus shelter food ads









KEY FINDINGS

74% of outdoor food advertising within 500m of Perth schools was for unhealthy food

Alcohol

was the most frequently advertised food product, followed by fast food and sugar sweetened beverages

9x

as many ads for unhealthy foods than healthy foods

Low SES areas

had a higher proportion of total food ads, unhealthy food ads and alcohol ads (but not healthy ads) within 250m of schools







KEY FINDINGS

Primary

schools had an average of 25 outdoor food advertisements (range=0-190)

Secondary

schools had an average of 22 outdoor food advertisements (range=0-94)

K-12 schools had an average of 41 outdoor food ads (range=0-116) and a significantly higher proportion of total food ads, healthy and alcohol ads within 250m

87%

of food ads on bus shelters were for unhealthy (non-core) foods including alcohol

The majority of food ads were located at a

Food shop or road

Implications for policy & practice

We need a comprehensive mix of strategies to reduce unhealthy food advertising near schools



Revise national advertising industry codes

To impose restrictions on the density/type/content of advertisements that surround schools

Changes to the Dept. of Planning's guidelines for advertising on transport corridors To impose restrictions on unhealthy food/alcohol advertisements

Create healthy food zones near schools

Changes to land use and zoning policies to restrict unhealthy food/alcohol outlets near schools

Changes to Local Government Local Planning Policies

To contain provisions relating to the guidance or regulation of food/alcohol advertising

Remove unhealthy food & alcohol advertising from all state-based assets Including billboards, digital/LED signs and bus shelters, which contain a high proportion of unhealthy food ads including alcohol

THANK YOU

For more information

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