





# The food environment of postprimary school children.

Presented by: Mary Callaghan mary.callaghan@nuigalway.ie

Callaghan, M., Molcho, M., Nic Gabhainn, S. & Kelly, C. Health Promotion Research Centre, National University of Ireland, Galway





## HBSC study

- World Health Organisation (WHO) cross-national research project
- Improve understanding of young people's health and wellbeing
- 4 year cycle
- Children's health behaviours and context



#### Context

 Increasing trend in overweight and obesity in children in Ireland – 20-25% primary school children 19% of teenagers IUNA, 2005, 2008

Social, physical and individual factors
 Finegood et al., 2010, Butland et al., 2007

11110**G**00**G**00**G**1111, 2010, 20111111 CC G111, 2007

Eating out of home

Mikkelsen et al, 2011

School food environment
 Children - time in this setting



## Background

2010

2011

2012

2015









#### Food for thought: analysing the internal and external school food environment

Mary Callaghan, Michal Molcho, Saoirse Nic Gabhainn and Colette Kelly Health Promotion Research Centre, National University of Ireland Galway, Toolson Visional





### Aims

- To map food premises within 1km of post-primary schools that took part in the 2010 HBSC survey in Ireland
- To characterise these food premises based on food sold





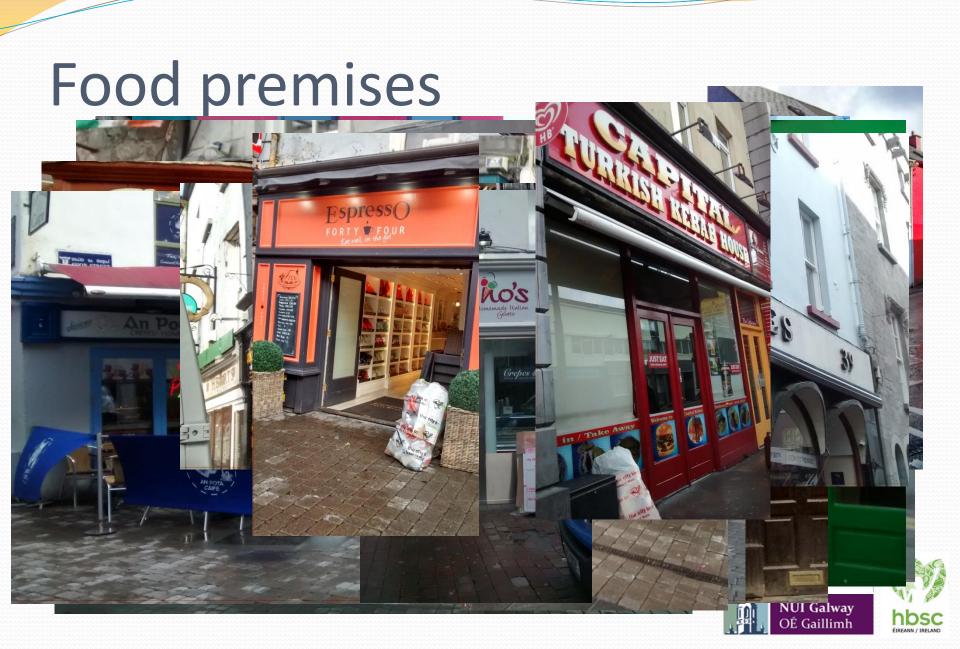


### Methods

- Identifier file school name, address, gender, DEIS status
- Geocode schools (n=63)
- Export food selling premises from GeoDirectory and categorise them based on food sold
- Create a spatially enabled dataset containing school food information and external food premises within a 1km buffer within ArcGIS

## Categorisation process

- Food premises categorisation
  - Internal and external
  - Where children are likely to eat?
- Coffee shops and Sandwich bars, Full service restaurants, Asian and other ethnic restaurants, Fast food outlets, Supermarkets, Local shops and Fruit and vegetable retailers
- Businesses own website, online directories, Street View



## Results

Food outlet	Mean number
Coffee shops & sandwich bars	3.89
Restaurants	3.65
Asian & 'Ethnic' restaurants	2.60
Fast food outlets	4.03
Supermarkets	1.95
Local shops	6.71
Fruit/Veg shops	0.73





### Conclusion

- Variety of food retail outlets surrounding schools
- Supportive environments for young people?
- Legislation the way forward?
- Enabling healthy choices is challenging







## Next steps

- Link the school level data to student dietary habits
- Qualitative work
  - How students perceive and use their food environment
    - Maps
    - Focus groups



## Thank you...

- Schools and students that took part in data collection
- HBSC network of researchers
- Department of Health
- Department of Children and Youth Affairs
- Professor Candace Currie, International Coordinator, St. Andrews University
- Professor Oddrun Samdal, Data Bank Manager, University of Bergen
- And to you for listening....

