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#### Do Australian primary school environments affect children's playground physical activity levels?

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#### Do Australian primary school environments affect children's playground physical activity levels?

#### Keywords

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#### Disciplines

Arts and Humanities | Life Sciences | Medicine and Health Sciences | Social and Behavioral Sciences

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Do Australian primary school environments affect children's playground physical activity levels?



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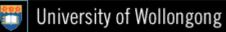


## The problem

- ¼ of Australian children are overweight/obese (NSW SPANS 2004)
- High BMI associated with low PA (Vincent et al 2003)
- Children's PA
  9 years = 3 hours/day
  15 years = 35-49 hins/day
  (Sallis et al 1999, Nader et al 2008)

- 60 min/day for children (Dept of Health and Ageing 2007)
- Enabling environments such as schools (WHO 2002)



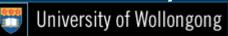


# Schools provide access to most children

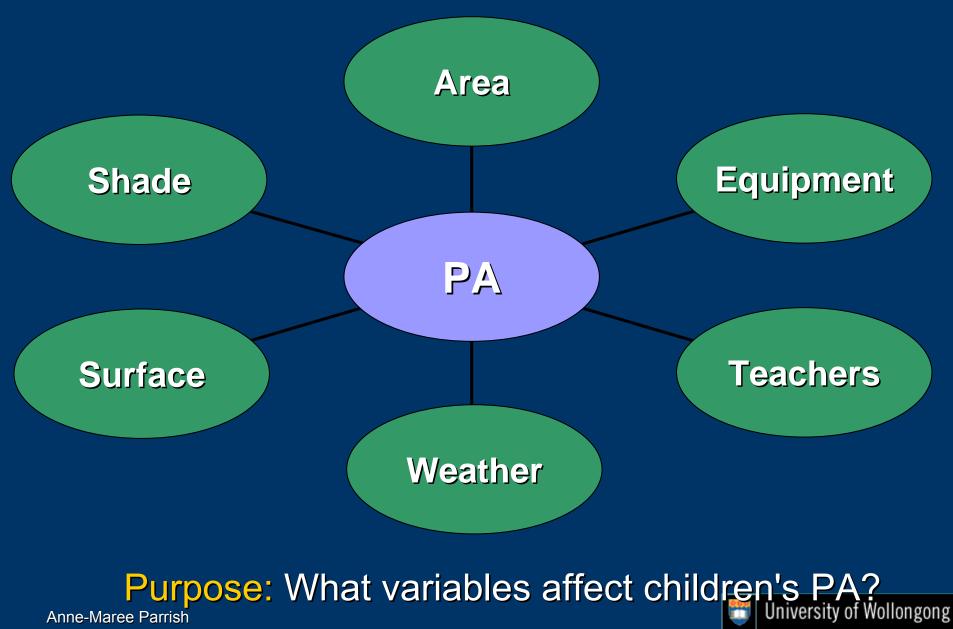


#### Break time contributes 70-80 mins of a child's day





### What we don't know



## What we did



#### 13 Illawarra public primary schools -3 days at each

CAST2 (Children's Activity Scanning Tool; Zask et al 2001)

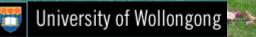




## **Environmental variables**

## Area: Playground, surface & shade

## Fixed equipment



#### CEEE-TE

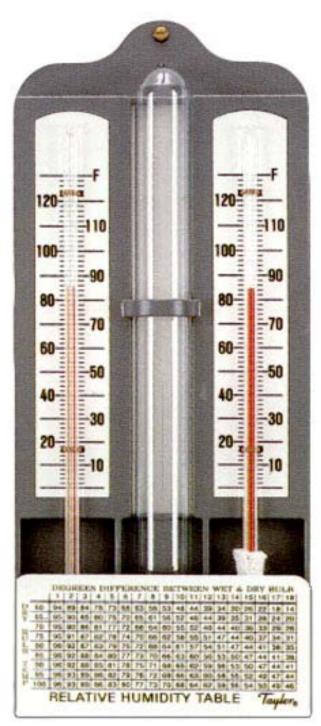
#### Fixed equipment: Painted ground targets

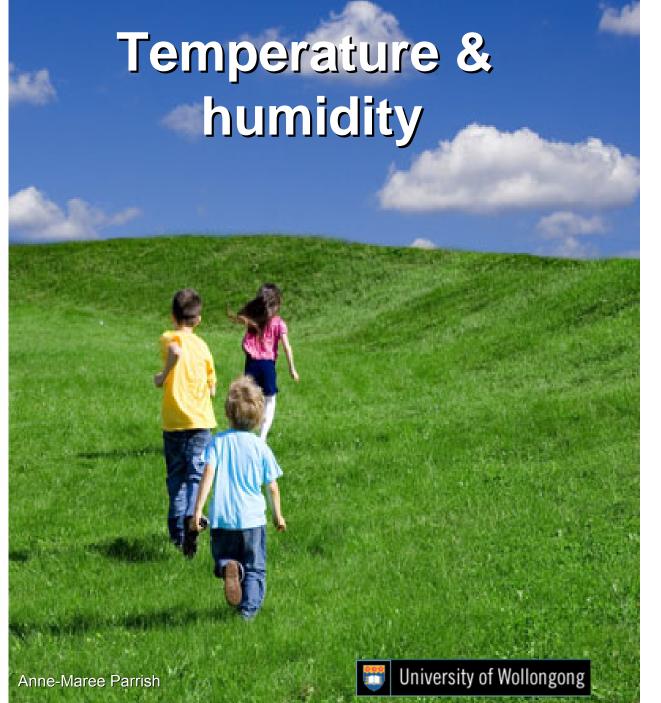


# Non-fixed equipment & access to it

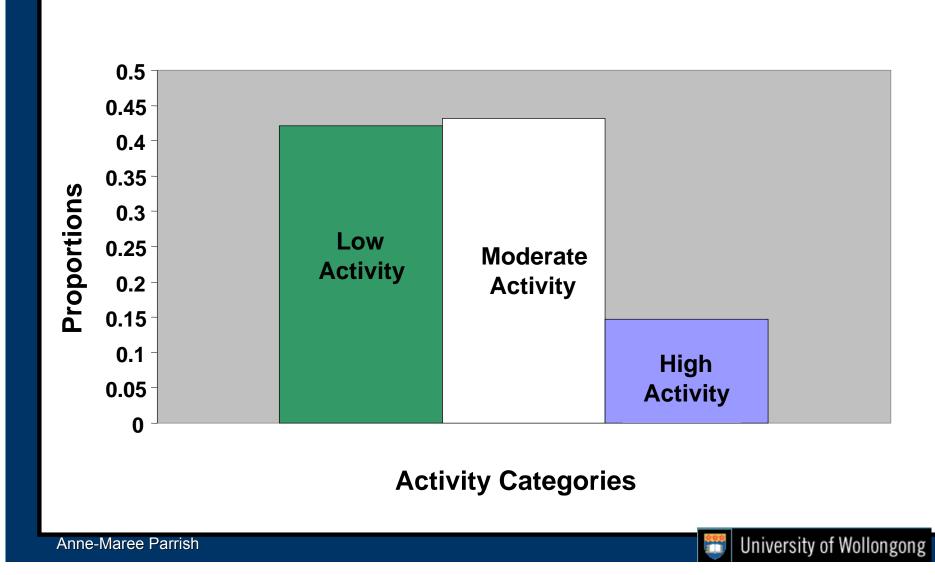
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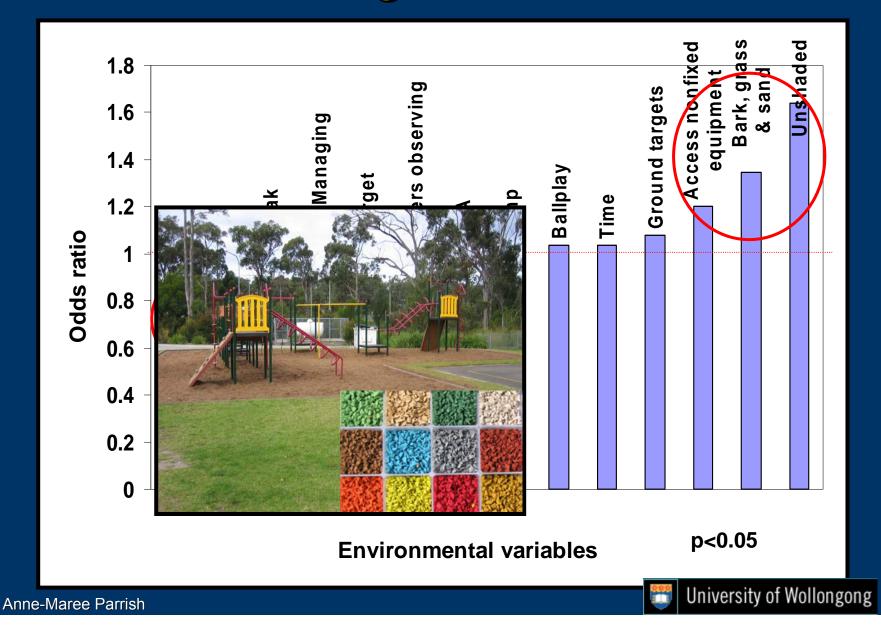




### **Observed physical activity**



#### Odds ratio- significant variables



## Non-significant findings

- teachers encouraging
- school area
- area for play
- shaded area
- covered play areas
- hard surfaces
- fixed equipment
- netball & basketball hoops
- humidity





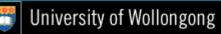
#### Schools can $\uparrow$ children's PA by:

- Ionger breaks
- soft play surfaces
- ball games
- painted ground targets
- non-fixed equipment
- sporting fields









# Schools can make a difference to children's activity



## Thank you

ICCObesity Schools Supervisors Observers Parrish family





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