

26th ICCP 18,19 June 2012 Tallinn, Estonia

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children's interaction with outdoor environment during free play





The present study builds on an ongoing research plan, and combines:

Ecological Perceptual Psychology
(Gibson, affordances theory),
Environmental Psychology
and Experiential Education
(Laevers, well-being and
involvement)



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Study Object

 Interaction between children and outdoor environment during free play







Research Questions

- In which areas of the kindergarten's outdoor space do children choose to play?
- 2. How are kindergarten's outdoor spaces organized and how do children perceive and use them?
- 3. Which are the levels of children's emotional well-being and involvement?



Methodology: Sampling

Kindergarten	Region
Α	Coimbra
В	Coimbra
С	Aveiro
D	Aveiro





Methodology: Sampling



- 16 children
 - 4 in each kindergarten
 - 2 girls
 - 2 boys
 - Age: 4 years 0 months
 to 4 years 12 months

Methodology: Procedures

- Research register in the National Commission for data protection.
- Parent consent
- Observation
 - February to May
 - Group 4 children 3 weeks
 - 9.00 to 12.00 a.m. in free play
- Register
 - Videos
 - Photographs
 - Field notes

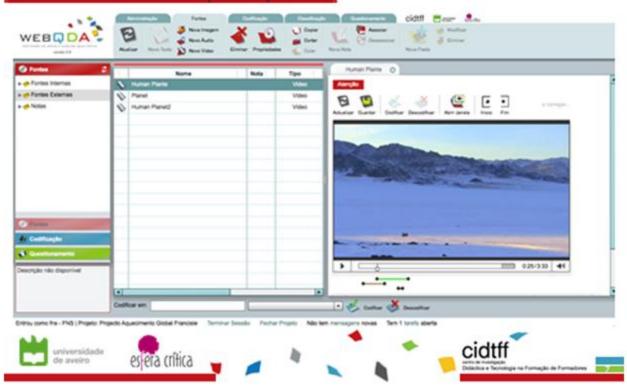




Methodology: Webqda



Structural Simplicity





Methodology: Categories

Social Behaviour

- onlooker
- solitary
- parallel
- associative
- cooperative
- dialogue with children or adults
- conflict
- transition
- others

Cognite Play

- functional
- exploration
- constructive
- dramatic (individual and social)
- games with rules
- others

Physical Activity

- crawl
- -run
- ·jump/skipping
- balance
- -fall
- -rolling
- -lie
- carrying something
- manipulate objects
- digging
- ·climbing...

Material

Natural – clay, stems, sticks, sand, soil, water, stones, leaves,...

Loose – buckets, hoops, shovels, balls, strings, boxes, tires,...

Equipment

Fixed - trees, bushes, climbing plants, climbing frame, den, net to climb, slides,...

Moving – tricycles, cars,...



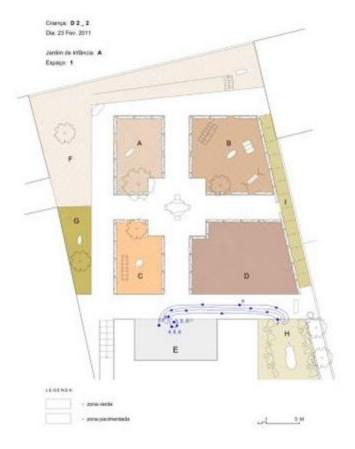
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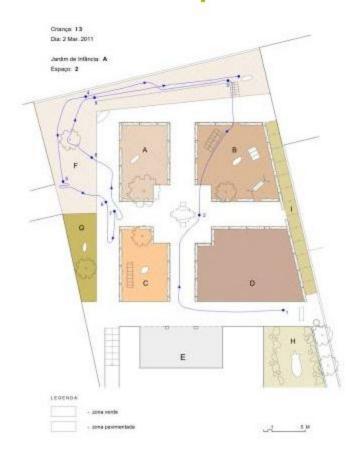
Methodology: Behaviour Mapping

- Direct observational method
- Affords:
 - the location of subjects and measuring their activity levels;
 - behaviour's observation and associated built environment components and attributes;
 - behaviour's assessment linked to detailed physical characteristics of outdoor areas (Moore & Cosco, 2010)
- Basis on the theories of behaviour setting and affordances
- Contributions:
 - to create outdoor environments more conductive to children's informal play and physical activity.

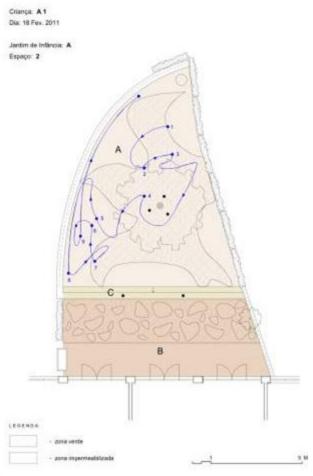


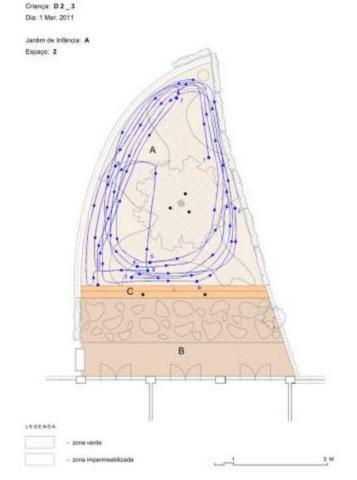
Results: Behaviour Maps





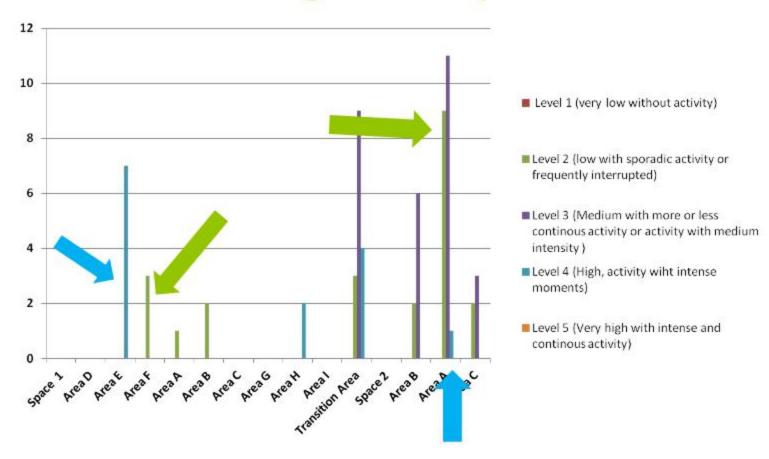
Results: Behaviour Maps







Results: Children's involvement and kindergarten's spaces







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