

Relationship between geographical variations in participation and in environment in children with CP

A Guyard Laboratoire TIMC THEMAS Université Joseph Fourier Grenoble



The 15th Emerging New Researchers in the Geography of Health and Impairment Conference

10-11 June 2010 -Paris - France

http://www.irdes.fr/Enrghi2010

enrghi2010@irdes.fr

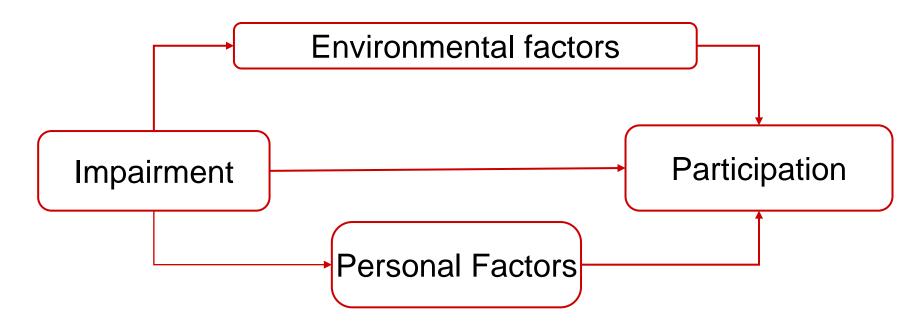
Contents

- SPARCLE
 - Social model of disability
 - n Project
 - n Aims
 - n Method
- Results
 - n Participation
 - n Environment
- Conclusion



Social Model of Disability

- Disability = interaction between the individual and their environment
- Participation = involvement in life situations





SPARCLE Project

 Study of PARticipation of Children with cerebral palsy Living in Europe

9 centres, 8 registers, 7 countries

United Kingdom (1, 3)

Sweden (2)

France (4, 8)

Ireland (5)

Denmark (6)

Italy (7)

Germany (9)

818 8–12-year-old CP children

July 2004- July 2005



Aims

- To evaluate variations by type and severity of impairment of children with CP
 - 1. Involvements in life situations (participation)
 - Physical environment, transport and social support
- To investigate geographical variations in both participation and environment
- Recommendation to EU and local policies



Participation: Life-H

- 62 items based on MHAVIE (Fougerolles and al)
- Daily life
 - n Meals
 - n Fitness
 - n Personal care
 - n Housing
 - Mobility
 - n Communication

- Social roles
 - n Responsabilities
 - n Relationship
 - **n** Community
 - n School
 - n Leisures
- 1. Eating meals, how does your child accomplish this? With/Without difficulty
- 17. Does your child select the type and amount of food he or she wants? Yes (=> With/Without difficulty) / No (=>Too difficult/other)



Environment: ECEQ

- European Child Environment
 Questionnaire: 60 items
 - n Physical, social and attitudinal environment
 - n At home, school, community + transport
- 1. Does your child have suitably enlarged rooms or extensions at home?

Not needed / Yes / No

33. Does your child receive emotional support from wider family and friends?

Mostly yes / Mostly no

Contextual factors

- Gender, age of the child
- Type of CP
- Level and type of impairment
- Pain felt by children
- Family structure : parents, sibling
- Type of school
- Qualification of parents
- Parents occupations
- Type of housing

Contents

- SPARCLE
 - Social model of disability
 - Project
 - n Aims
 - n Method
- Results
 - n Participation
 - n Environment
- Conclusion

Participation in children Determinants

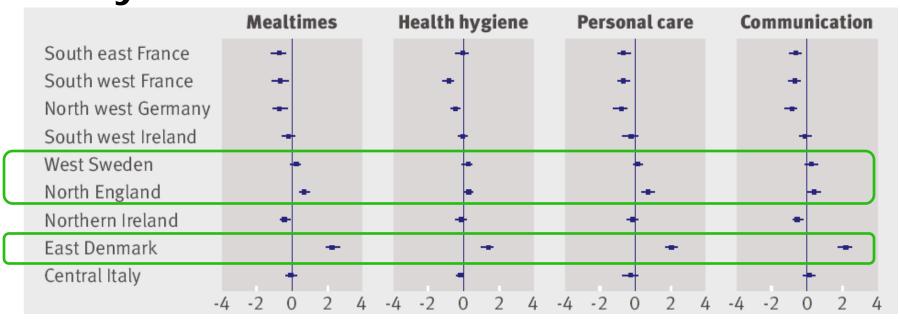
Highly associated with

- Malking ability and fine motor skills
- n Intellectual impairment
- n Communication difficulties
- n Epileptic seizures
- n Pain
 - Few related to visual or hearing impairment
 - No relation with
 - n Socioeconomical status
 - n CP type
 - n Schooling



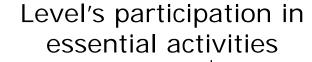
Participation in children Geographical variations

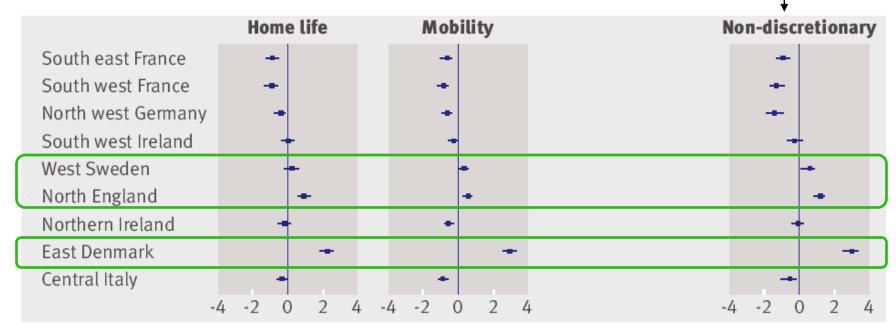
Daily activities



Participation in children Geographical variations

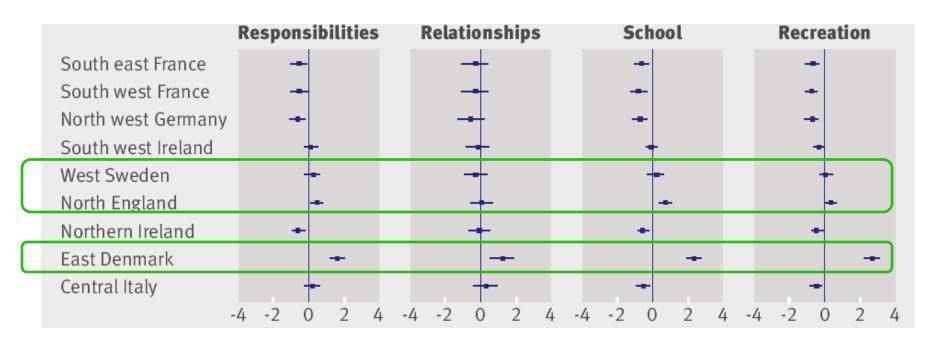






Participation in children Geographical variations

Social roles





Child's environmental access Determinants

	Home	School	ommunity	Transport	Home	ommunity	Family & friends	Teachers	lassmates
Child's impairments									
Walking ability									
Intellectual ability									
Communication									
Type of CP									
Socio-demographic characteristics									
Parental employment									
Gender									

Physical

environment

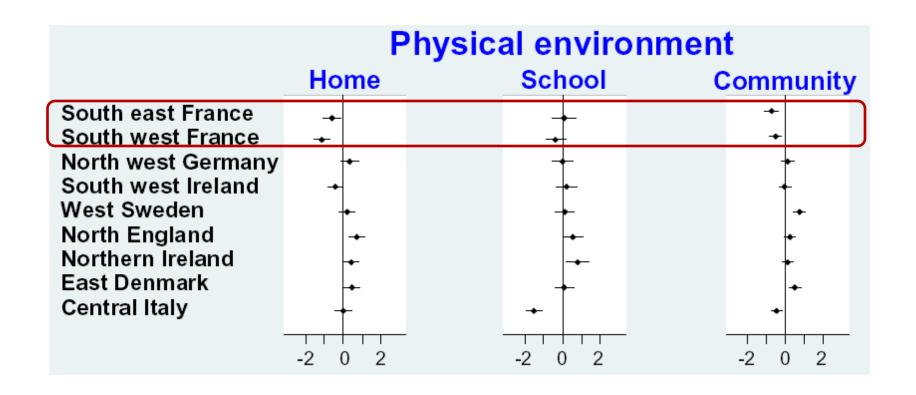
Social

support

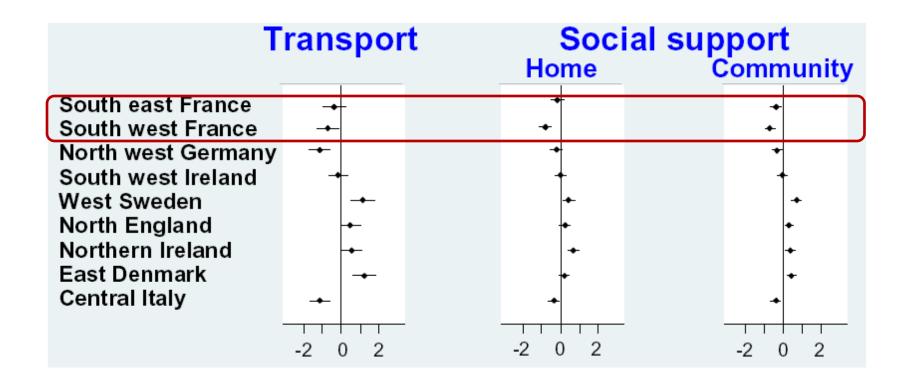
Attitudes



Child's environmental access Geographical variations

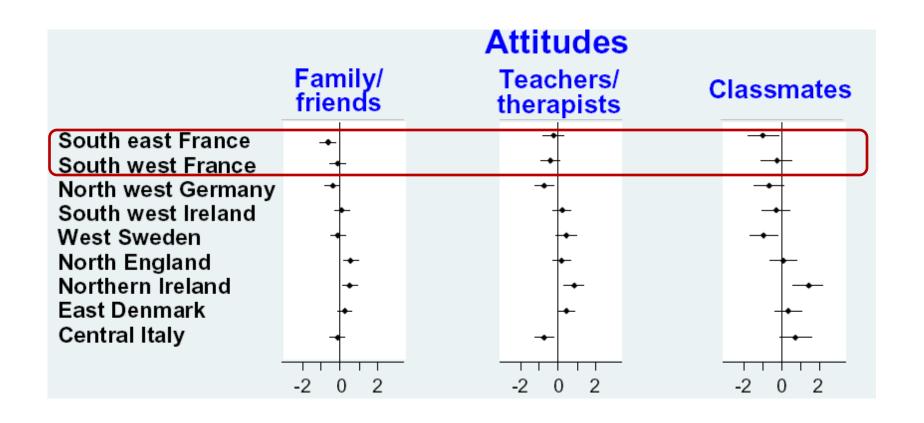


Child's environmental access Geographical variations





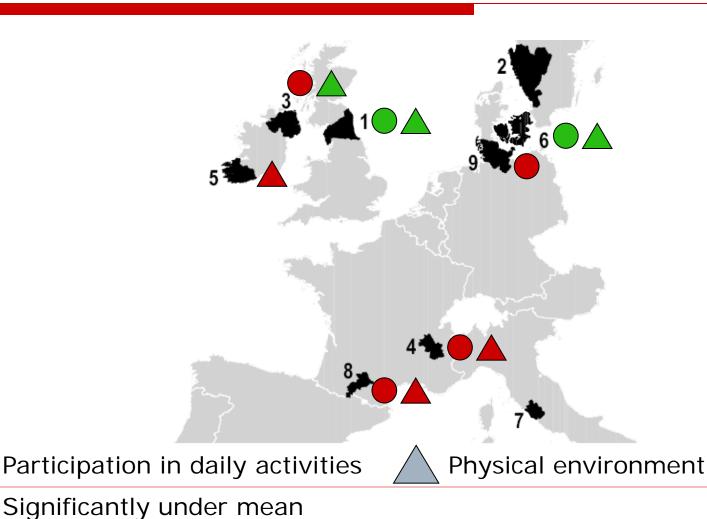
Child's environmental access Geographical variations





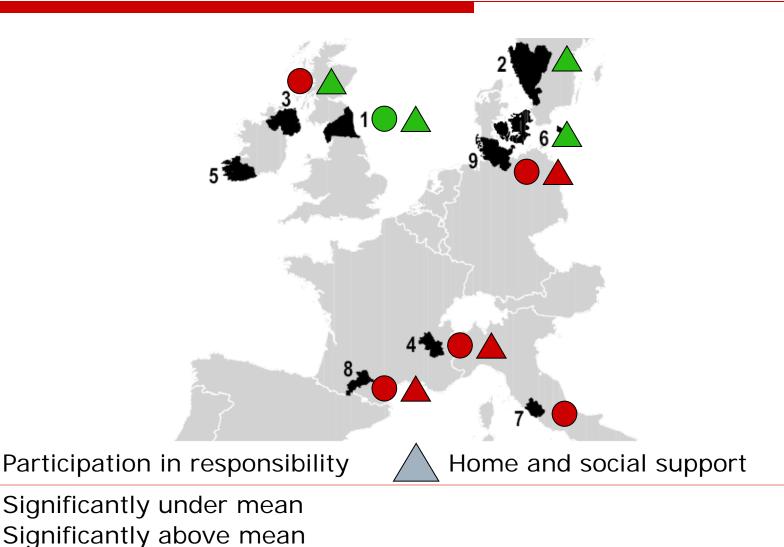
Daily activities & physical environment at home

Significantly above mean



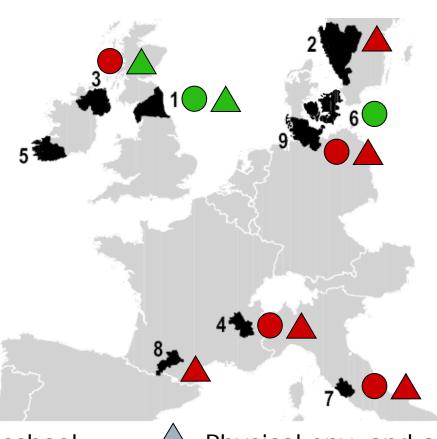


Responsibility & home environment and social support





Participation at school & physical and attitudinal environment at school







Physical env. and attitudes at school





Conclusion

- Participation & Environment varied by
 - Level of impairment
 - Region
- Need for modelling relationship between participation & environment