

## Participation & Environment

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# From Medical to Social Model

## *Medical Model*

## *Social Model*

Impairment  
or disability  
is the  
**PROBLEM**

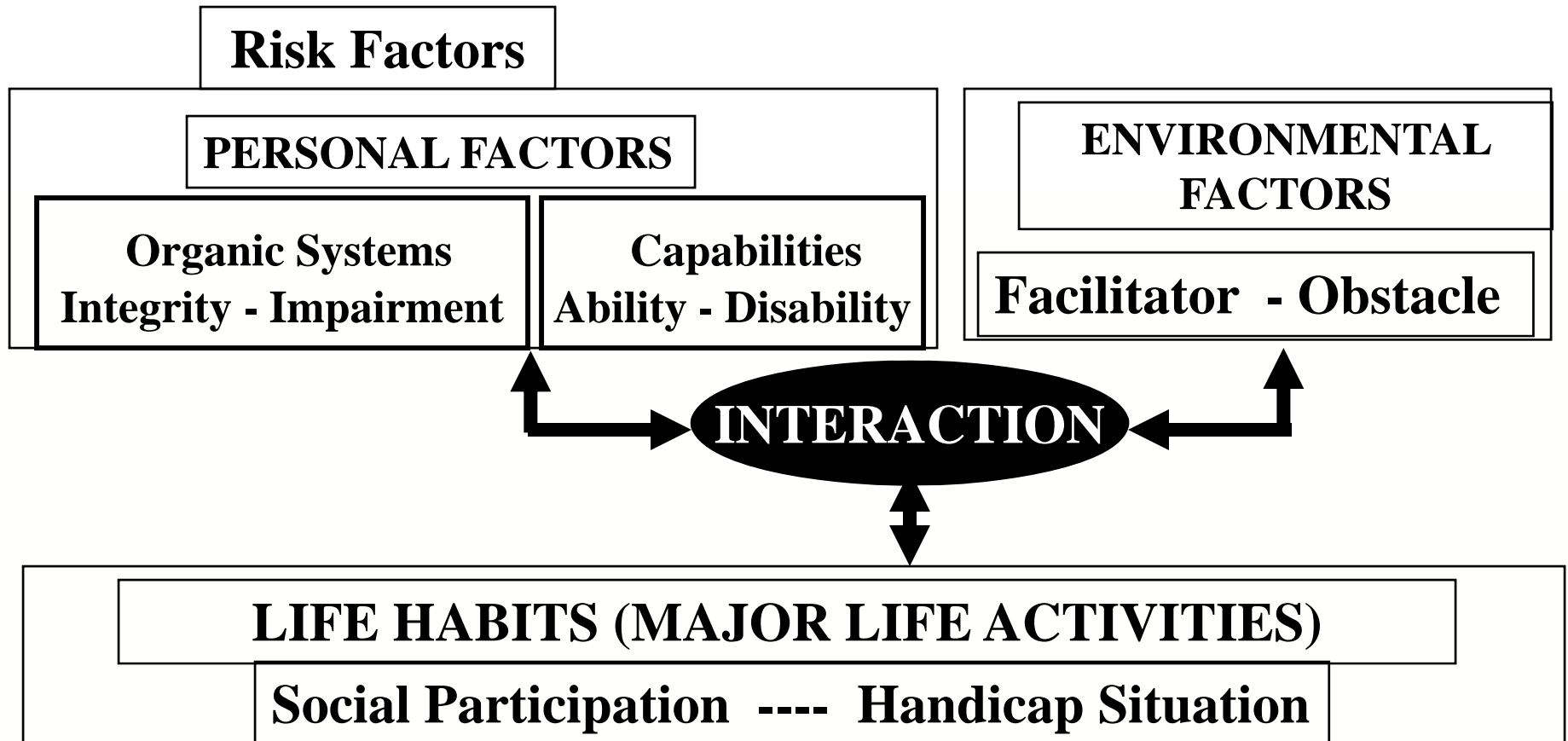
1980  
1990  
2000  
2010

Physical and Social  
barriers within the  
environment are the  
**PROBLEMS**

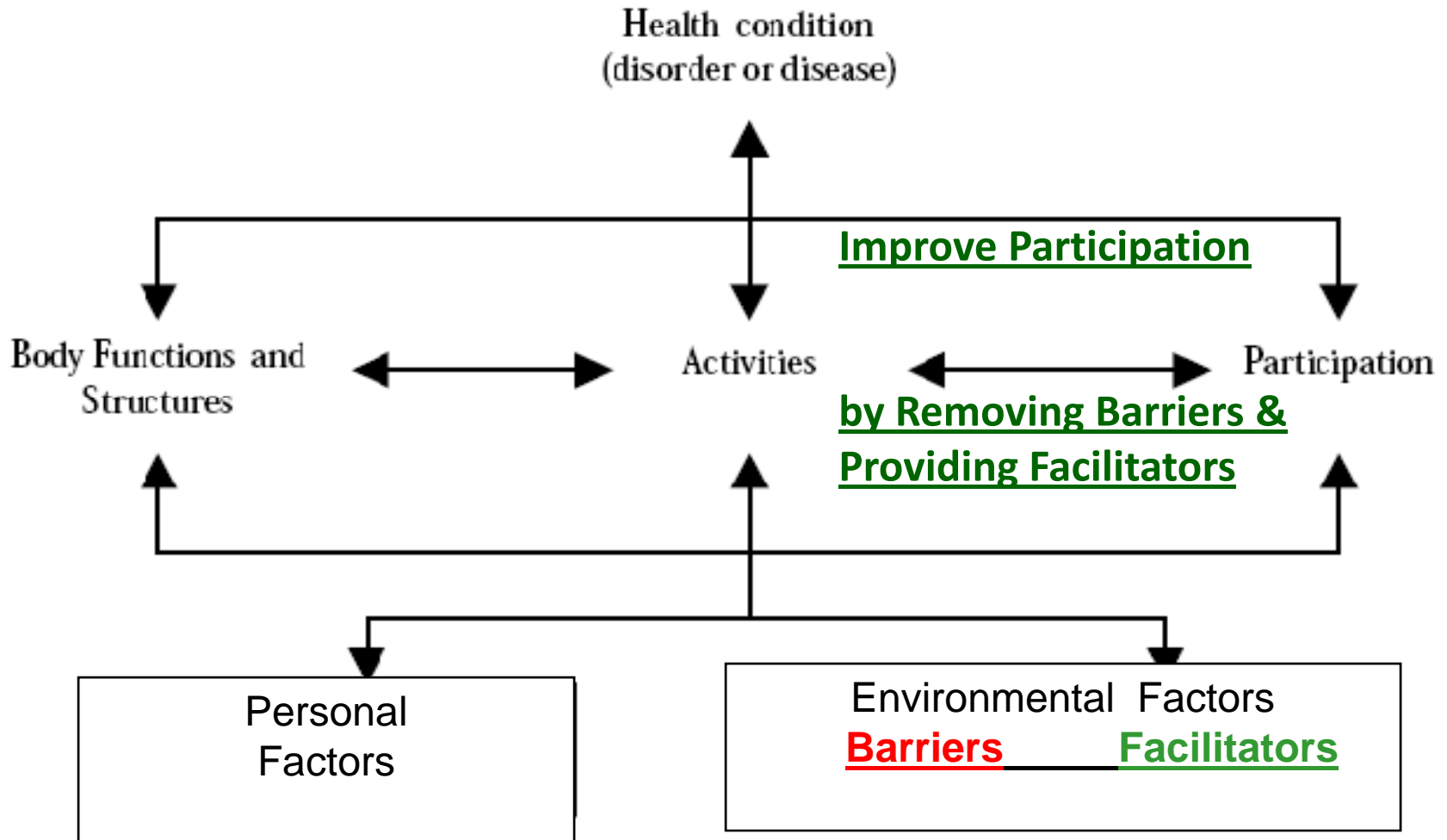
**People with disabilities are patients who are passive receivers of services aimed at curing the disabling condition**

**People with disabilities are consumer advocates who collaborate with others for services to break down barriers**

# Quebec Model: The Handicap Creation Process 1986 - Patrick Fougeyrollas, Ph.D.



# Classification ICF 2001



# ICF Challenge: Relating Participation & Environment

## **Current**

ICF Environment Chapter was based on environmental factors and features thought to have relevance to functioning, disability and health.

## **Needs**

Collect evidence to use to include or exclude E codes.  
Develop methods for assessing the influence of environmental features on participation.

## **Our approach**

Use structural equation modeling to relate participation and environment

# Participation

- Construct with many possible components
  - Temporal, Evaluative, Health Limited, others
- Measure of Participation in Major Life Activities  
**Survey PARTS/M**
  - Mobility impaired and limited
  - 20 activities
  - **Selected Leisure Activities**
    - **Movies**
    - **Sporting events**
    - **Concerts**

# Environment

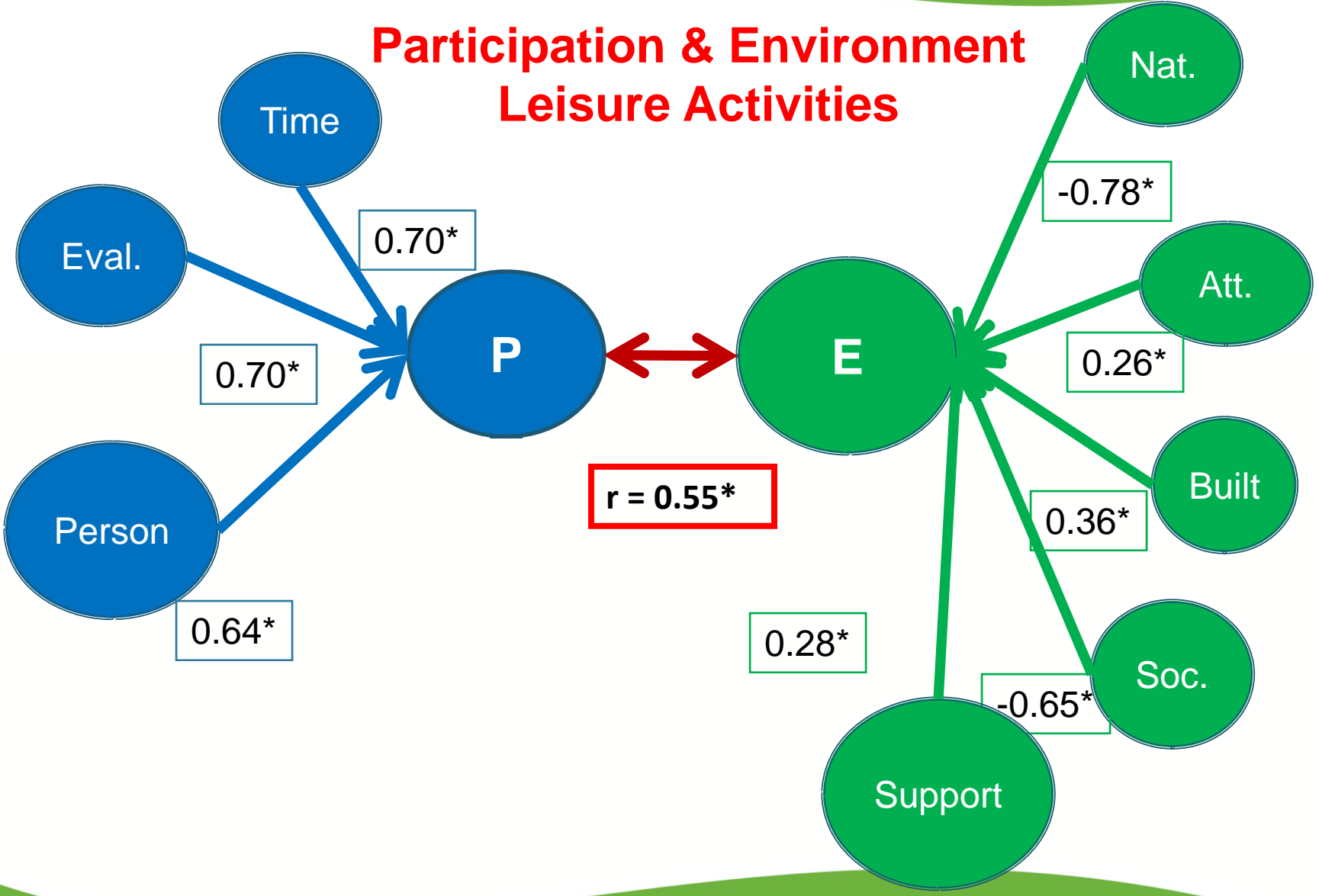
Guiding principle for selection of environmental factors is the influence of the feature on participation

Environments vary for different types of impairments and for different activities

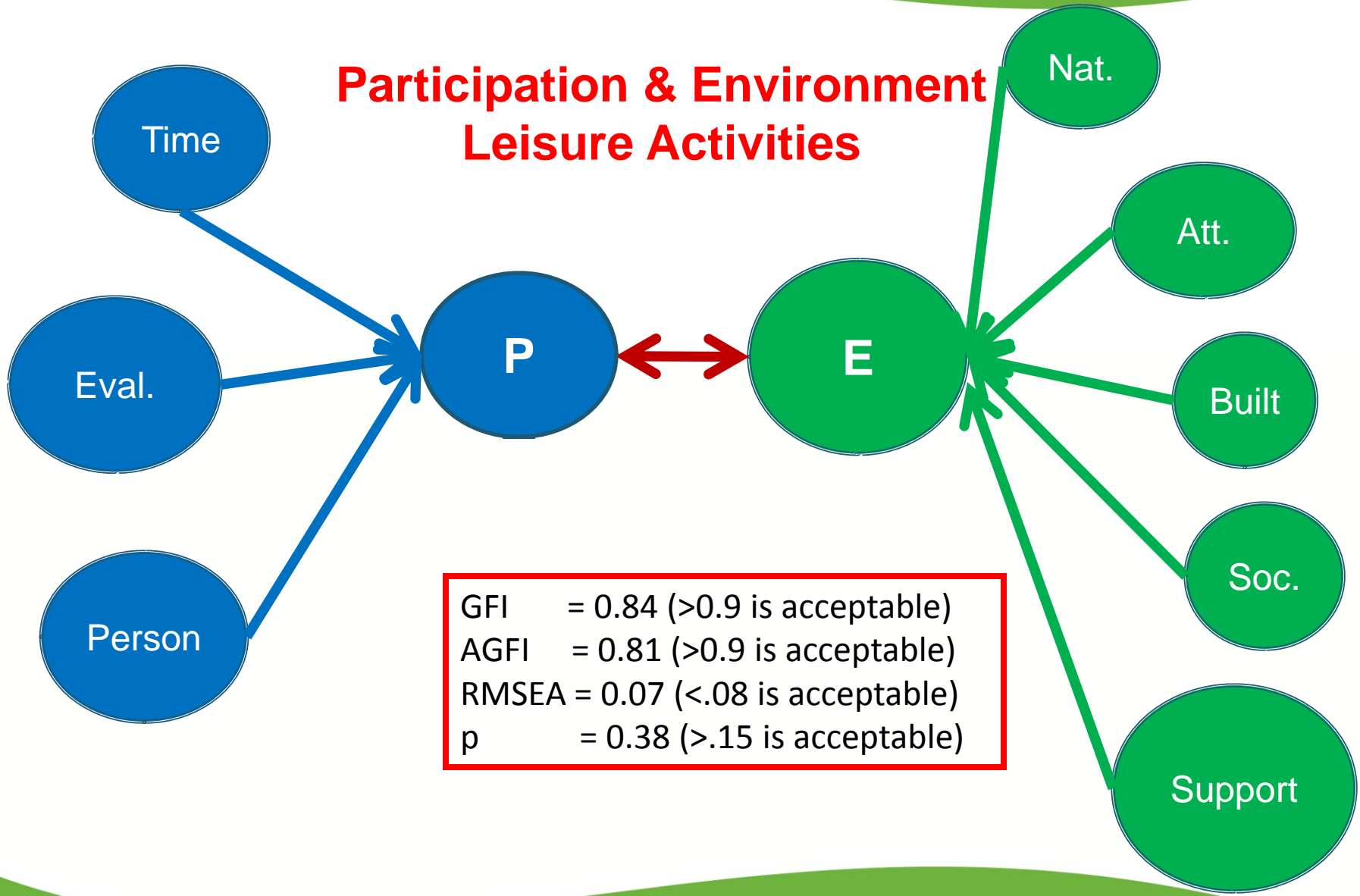
Measure Facilitators and Barriers to Participation  
**Survey - FABS**

- Home
- Community Features Built and Natural
- Community Site Access
- Community Transportation and restrooms
- Community Human Support

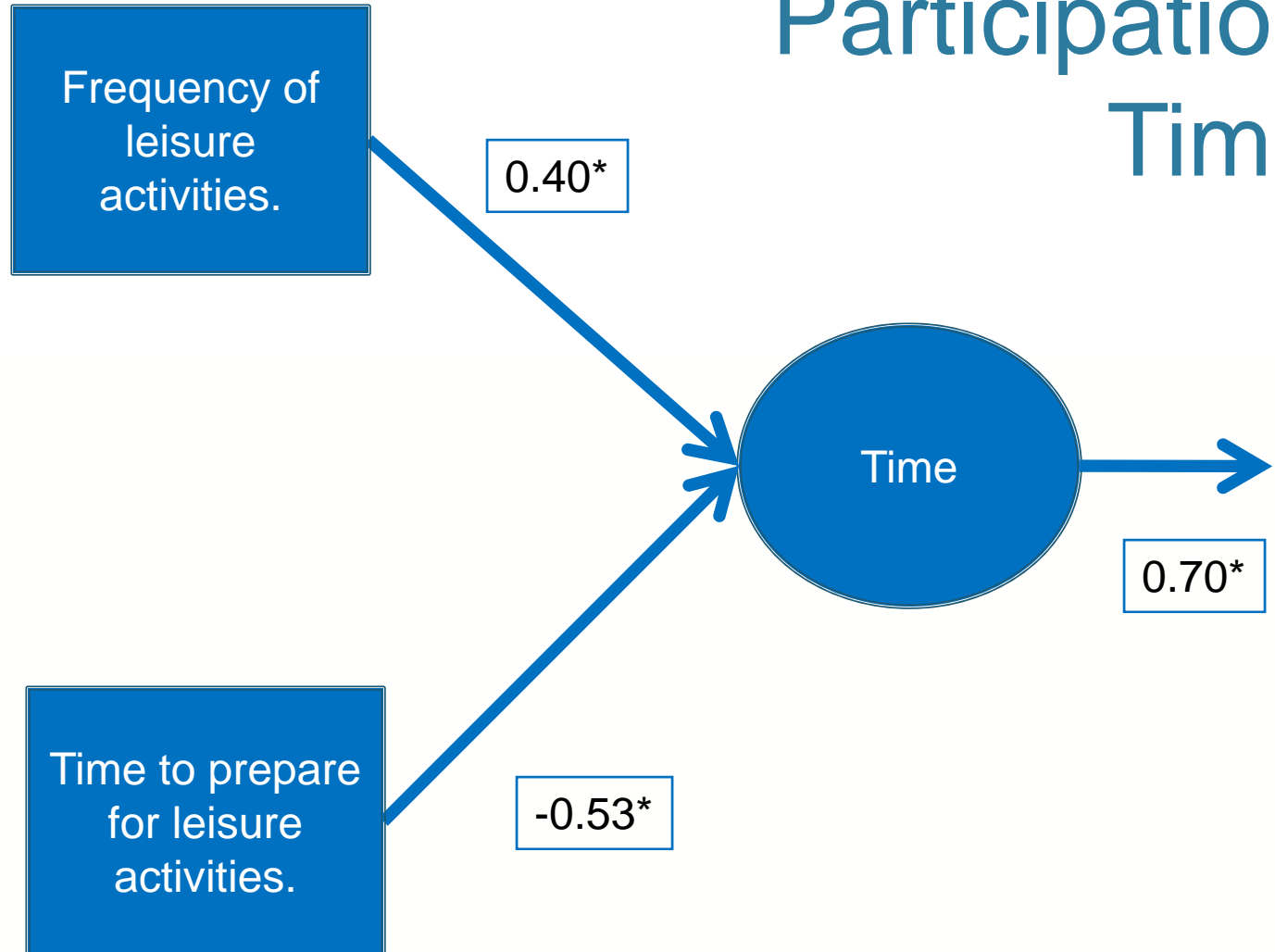
# Participation & Environment Leisure Activities



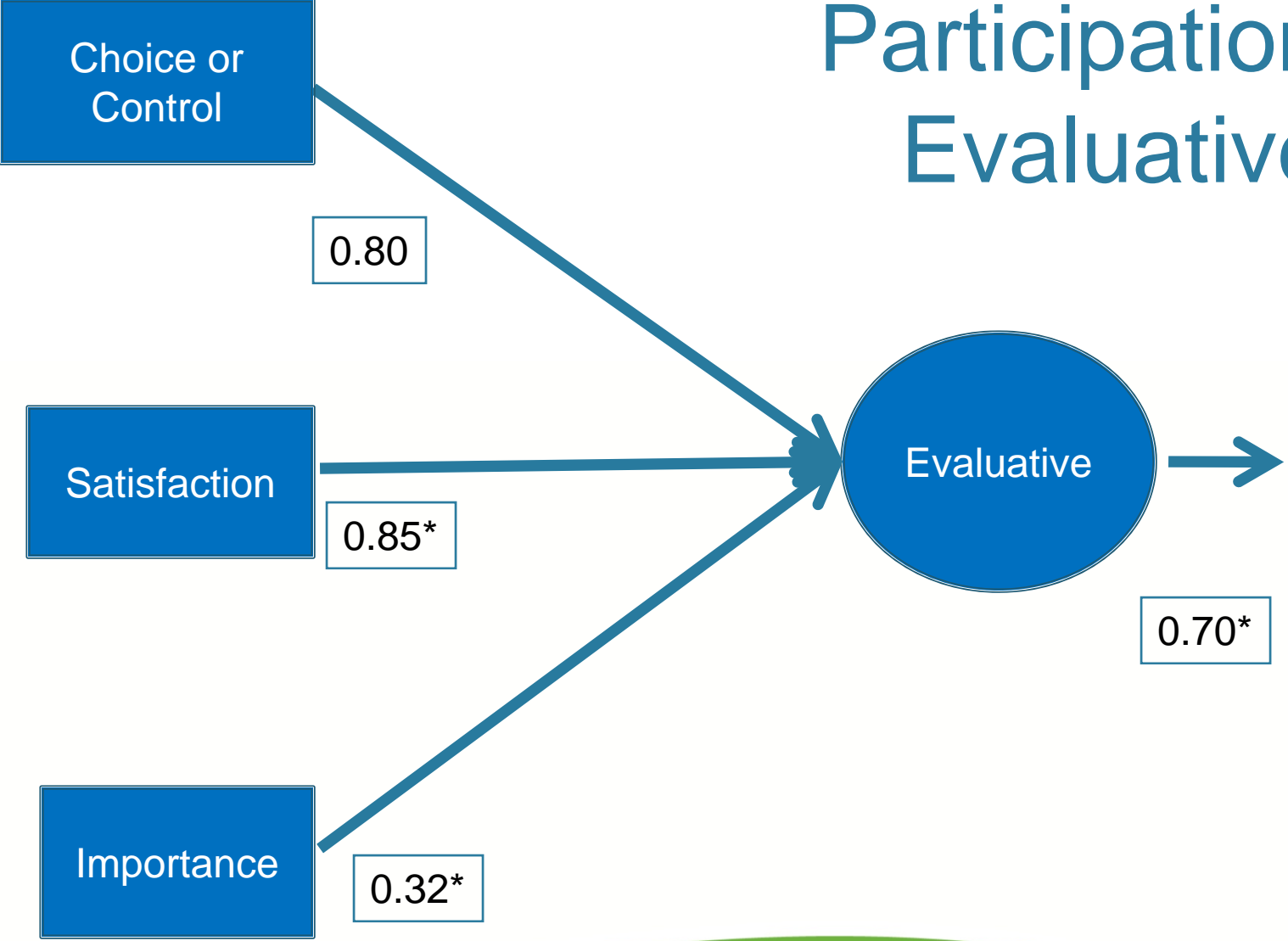
## Participation & Environment Leisure Activities



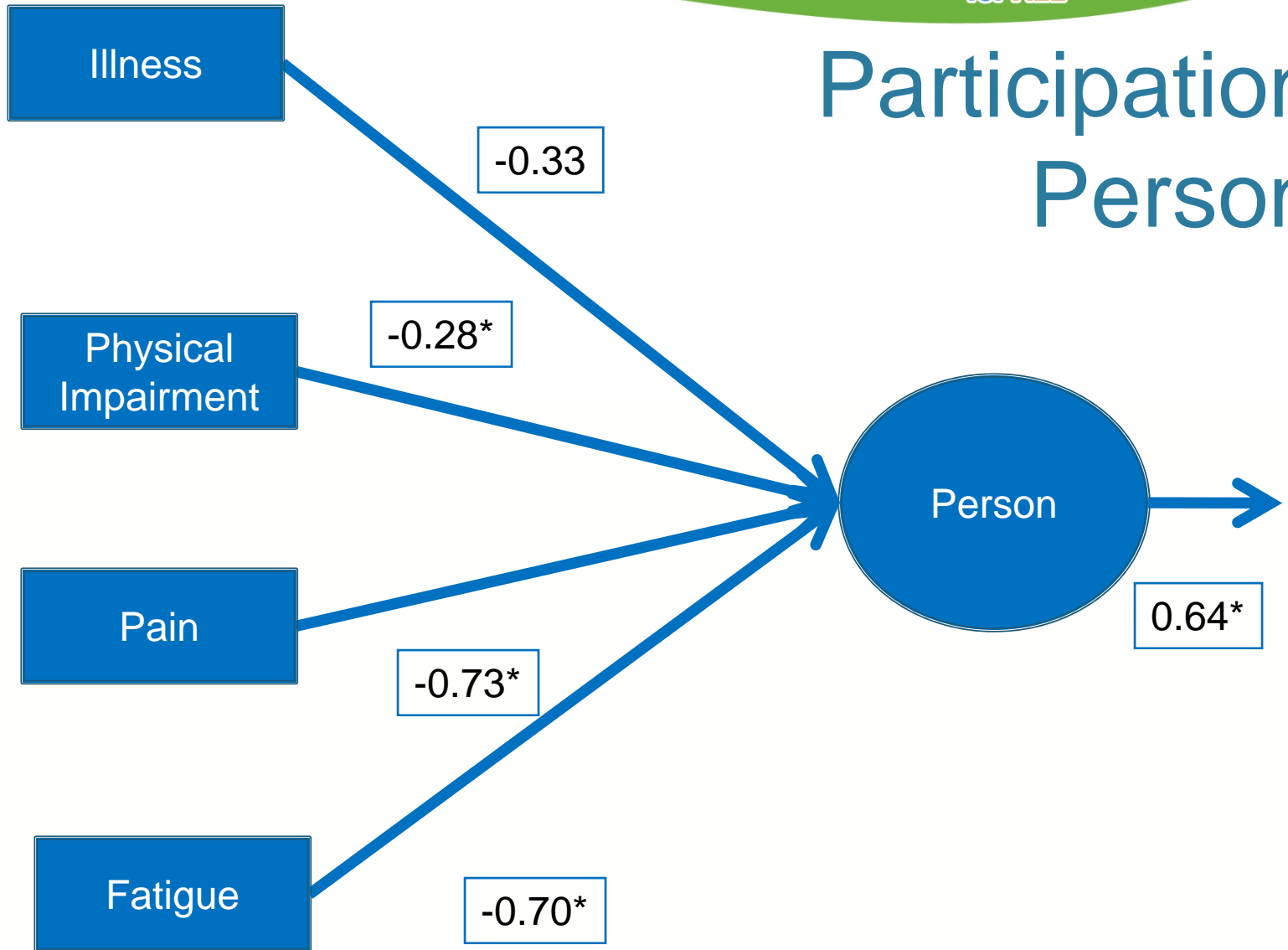
# Participation Time



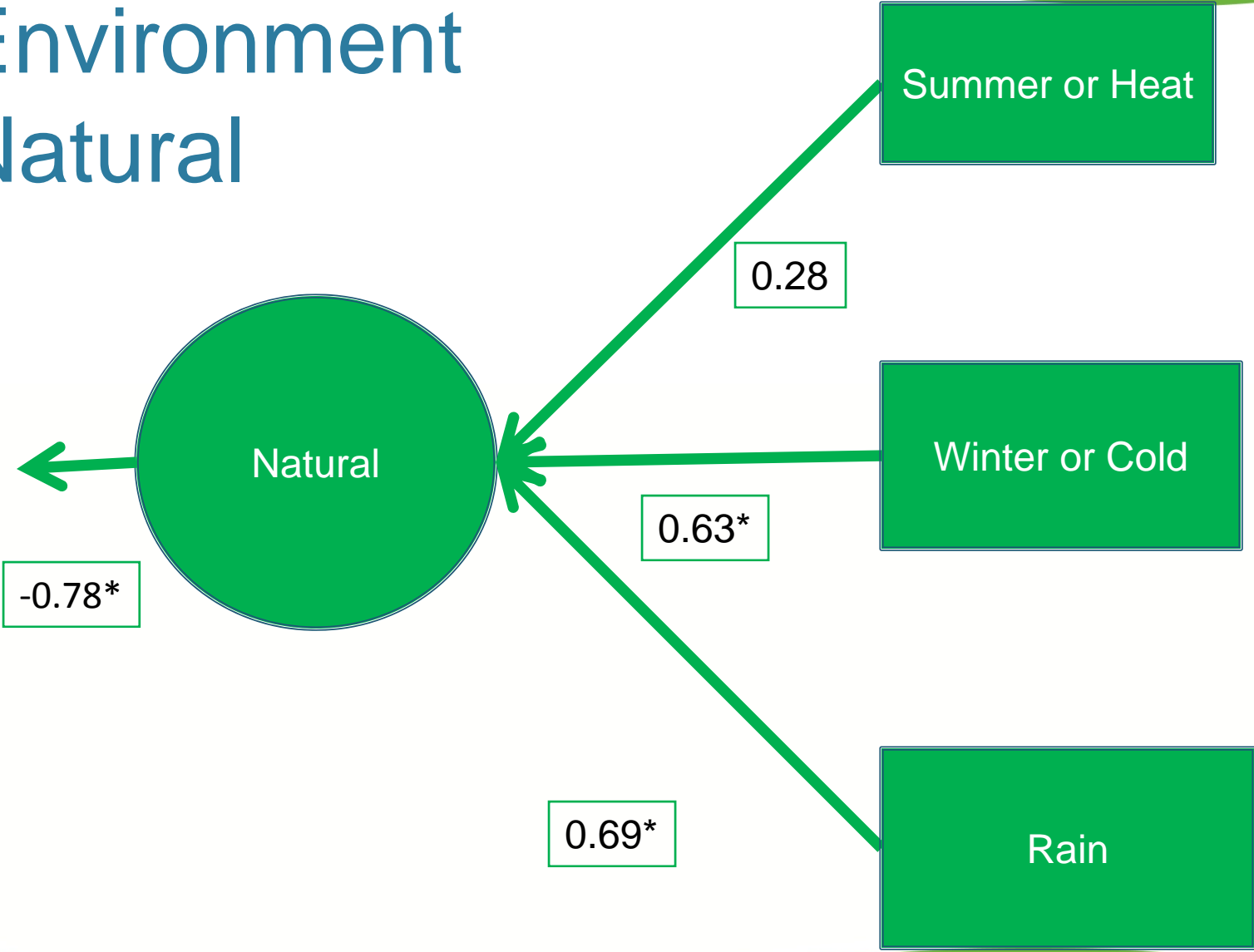
# Participation Evaluative



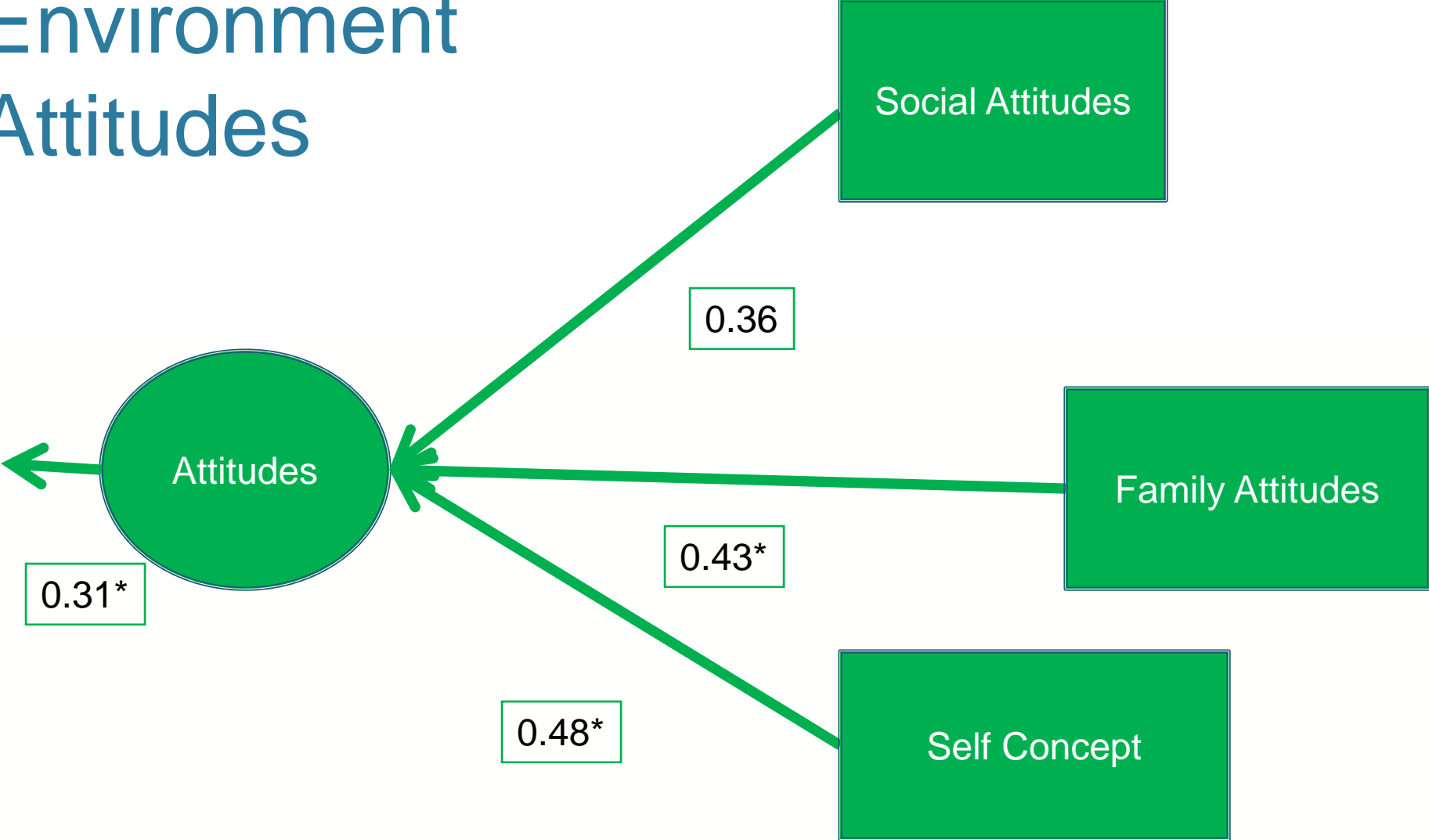
# Participation Person



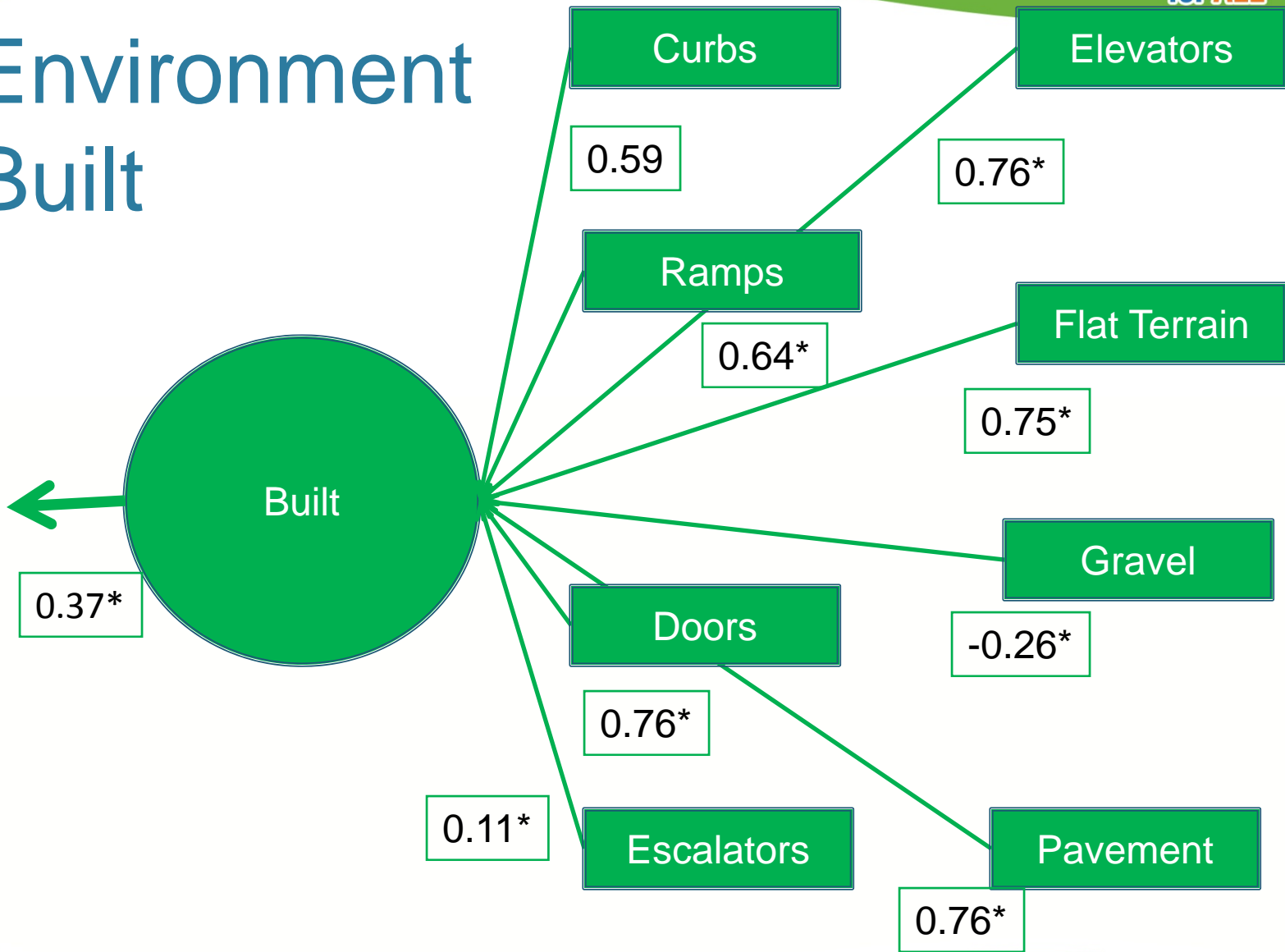
# Environment Natural



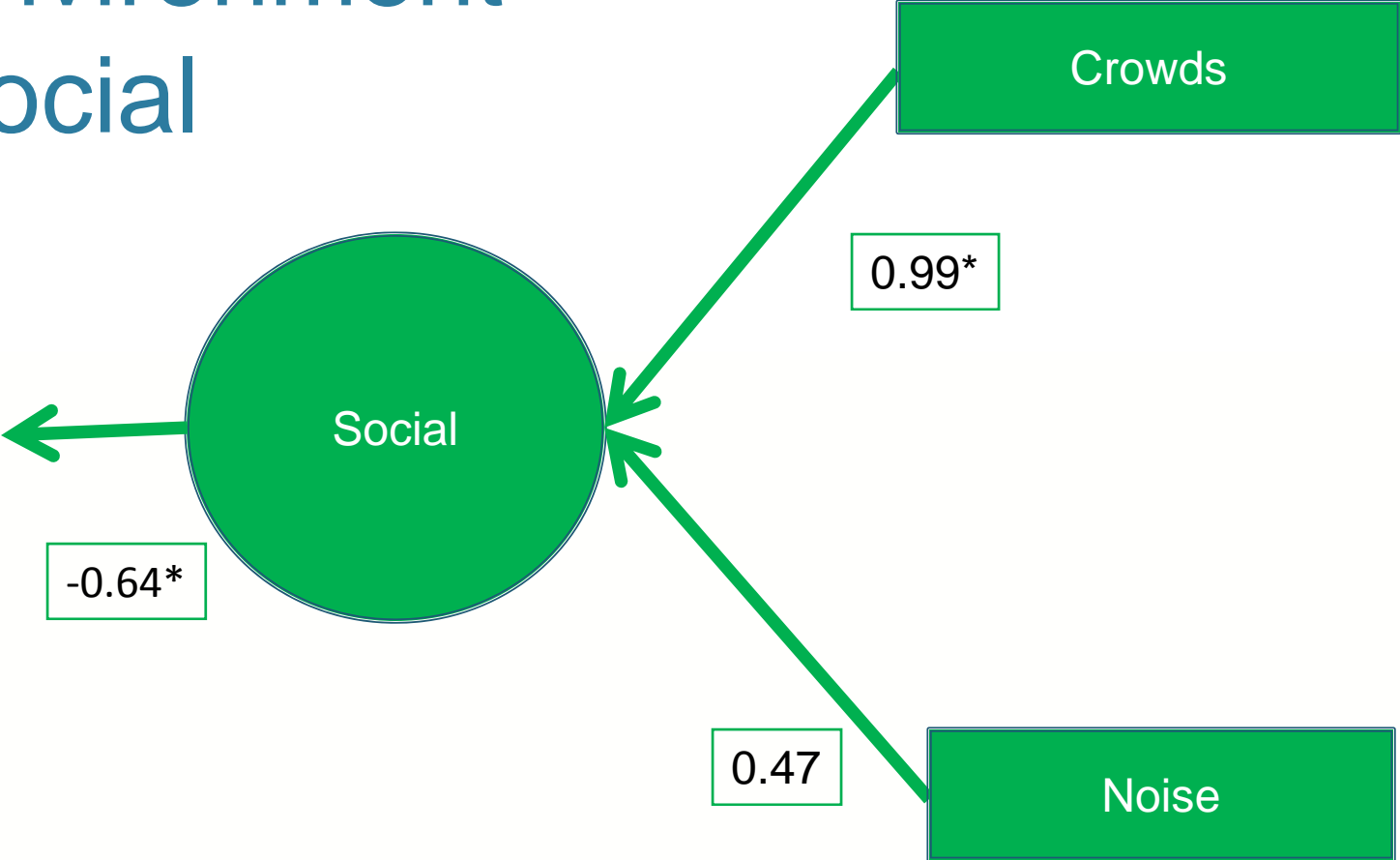
# Environment Attitudes



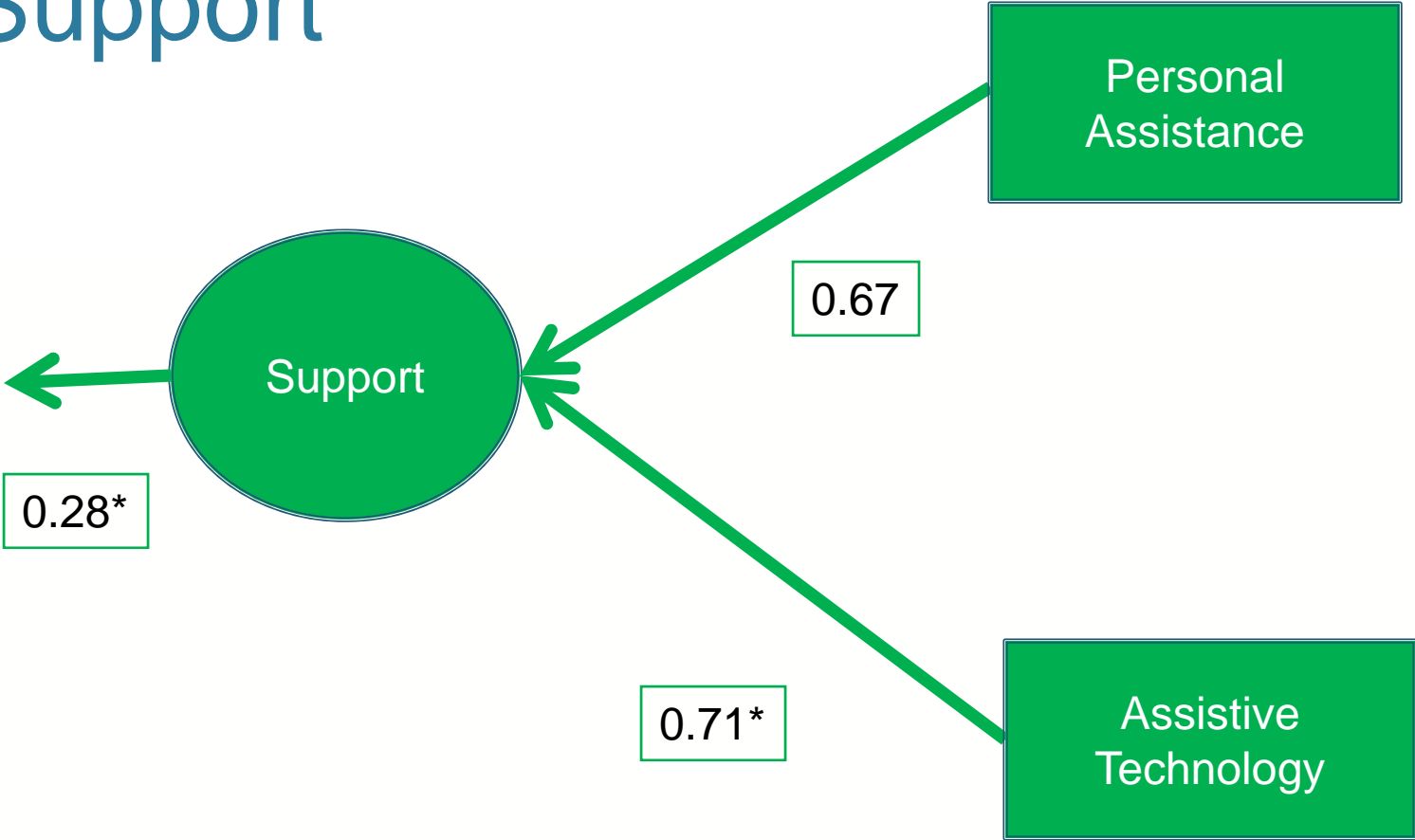
# Environment Built



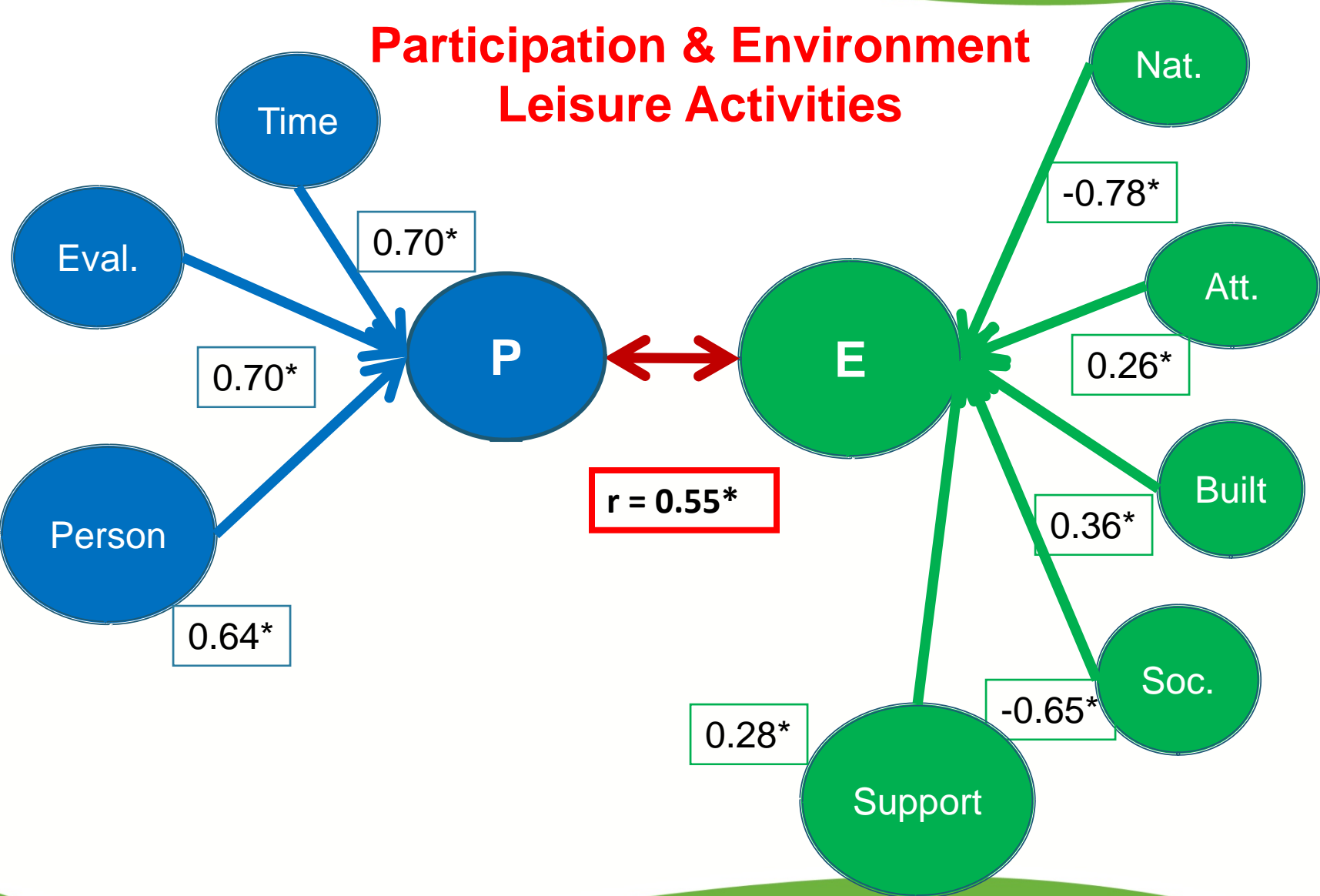
# Environment Social



# Environment Support



# Participation & Environment Leisure Activities



# Demographics/Limitations

- N = 604
- 5 Diagnostic Groups
  - CP, MS, Polio, SCI, Stroke.
- 7 Mobility Devices
  - None, cane, crutch, walker, scooter, manual and power wheelchair.
- Missing data
  - Replaced with imputed values.

# ICF Challenge: Relating Participation & Environment

## **Our approach**

1. Select components of the environment reported by different impairment groups as facilitators and barriers
2. Sort environments relevant to the selected activity
3. Determine influence of the environment on the selected activity by structural equation modeling
4. Try to match with current E code in ICF

## **Benefit of this approach**

1. Provides info on missing and duplicate codes
2. Provides basis for second level coding that gives influence on participation

# ICF Challenge: Summary Relating Participation & Environment

**Different components of P X E analyses for**

**Impairment groups**

**Different activities**

**Environments**

**Features**

**Influence**