TABLE 1.

OBJECTIVE METHOD of Information Collection				SUBJECTIVE METHOD of Information Collection			
INDIVIDUAL Unit of Analysis (Contextual Analysis)		COLLECTIVE Unit of Analysis		INDIVIDUAL Unit of Analysis		COLLECTIVE Unit of Analysis	
INDIVIDUAL Level Data Source	INSTITUTIONAL Level Data Source	INDIVIDUAL Level Data Source	INSTITUTIONAL Level Data Source	INDIVIDUAL Level Data Source	INSTITUTIONAL Level Data Source	INDIVIDUAL Level Data Source	INSTITUTIONAL Level Data Source
INDIVIDUAL MEASURES are obtained from individual records	GLOBAL MEASURES are obtained directly from institutional records or directly from observable information	AGGREGATED INDIVIDUAL MEASURES are institutional summaries of individual characteristics created from individual records	GLOBAL MEASURES are obtained directly from institutional records or directly from observable information	INDIVIDUAL MEASURES are obtained via questionnaire survey responses	Don't exist	AGGREGATED INDIVIDUAL MEASURES created from responses to questionnaire survey items about individual characteristics EMERGENT GROUP ATMOSPHERE MEASURES created from responses to questionnaire survey items about interactions between individuals within the institution (i.e. about collective processes)	Don't exist

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TABLE 2

COLLECTIVE MEASURES

ANALYTIC PROPERTIES - ALSO CALLED AGGREGATE TRAITS: DATA SOURCE-INDIVIDUAL LEVEL MEASURE TRANSFORMED TO COLLECTIVE MEASURE FOR COLLECTIVE LEVEL ANALYSIS
(Objective/Subjective Method of Measurement-Gathered from individuals via questionnaire survey or survey of institutional records)

% Profile of Racial Makeup

Expectations (Averages) of:

- Inmate Security (Custody) Level
- Salient Factor Score (Criminal History)
- Length of Time at Institution (Staff and Inmate)
- Time Until Expected Date of Release
- Age (Staff and Inmates)
- Education Level (Staff and Inmates)
- Physical and Perceptual Health Indicators (Staff and Inmates)
- Physical and Perceptual Levels of Stress (Staff and Inmates)
- Morale (Staff)

Expectations (Averages) Counts or Rates of:

- # Serious or Infectious Illnesses Per Month
- # Accidents Per Month by Area, e.g. Living, Industrial, Kitchen, etc. (Staff and Inmates)
- # Disciplinary Reports by Severity Level Per Month
- # Inmate/Inmate and Inmate/Staff Assaults Per Month
- # of Inmates Admitted to Disciplinary/Administrative Segregation (Admissions/Capacity) Per Month
- # of Visits Per Month
- # of Program Enrollments/Completions Per Month
- # of Escapes (or Attempts) Per Month
- # of Lawsuits Per Month
- # of Successful Lawsuits Per Month

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STRUCTURAL, PROPERTIES ALSO CALLED CONTEXTUAL OR COMPOSITIONAL TRAITS OR EMERGENT GROUP ATMOSPHERE: DATA SOURCE-INDIVIDUAL LEVEL MEASURE TRANSFORMED TO COLLECTIVE MEASURE FOR COLLECTIVE LEVEL ANALYSIS
(Subjective Method of Measurement-Gathered from inmates and staff via questionnaire survey)

Expected Perceptions (Average Assessments) of:

Openness and Effectiveness of Communication Channels between Staff and Management (Staff)

Effectiveness of Management style (staff)

Effectiveness of Management-Union Relations (Staff)

Openness and Effectiveness of Communication Channels between Staff and Inmates (Staff and Inmates)

Staff-Inmate Relations (Staff and Inmates)

Institutional Level of Violence (Staff and Inmates)

GLOBAL PROPERTIES: DATA SOURCE-COLLECTIVE LEVEL MEASURE
(Objective Method of Measurement-Generally gathered from institutional records)

Ratios of:

# of Correctional Officers to # of Inmates

# of Service Providers to # of Inmates

# of Managers to # of Inmates

# of Managers to # of Non-Managers

Institution Security Level

Age of Facility

Facility Size (Average or Count of Staff Per Month, Average or Count of Inmates Per Month (Mandays), Design Capacity)

Transiency (# of Inmates Admitted During the Last Year, # of Inmates Discharged During the Last Year, Staff Turnover During the Last Year)

# of Different Academic/Training Programs Offered During Previous Year (Count Each Course Offering)

Population Density (Square Feet Per Inmate, # of Inmates Per Cell or Dormitory)

Climate Survey Response Rate

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FIGURE 1.

MEASUREMENT MODEL

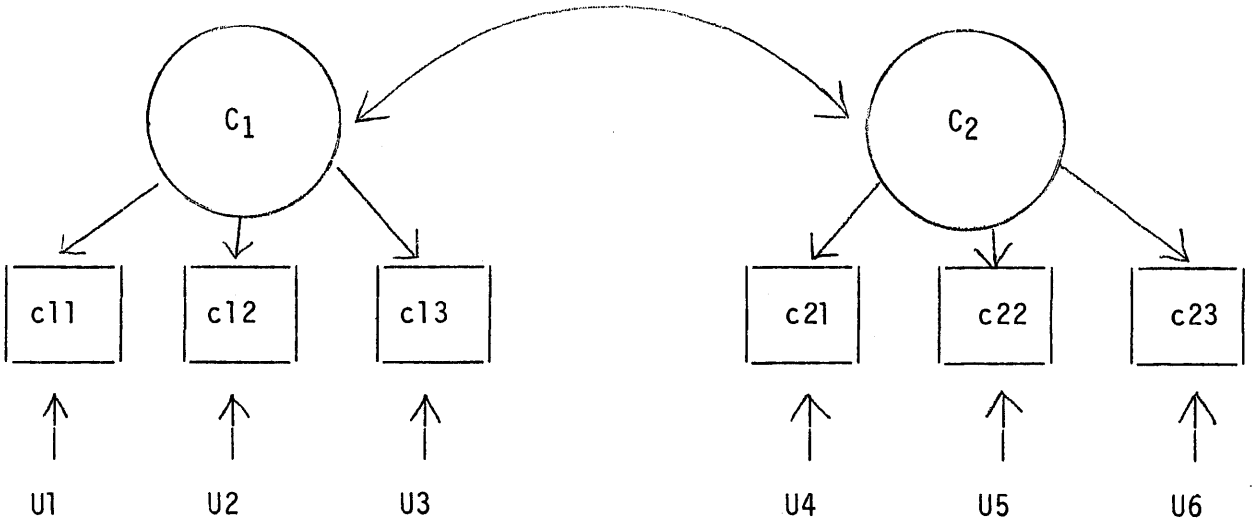

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FIGURE 2

CONVERGENT AND DISCRIMINANT VALIDITY MODEL

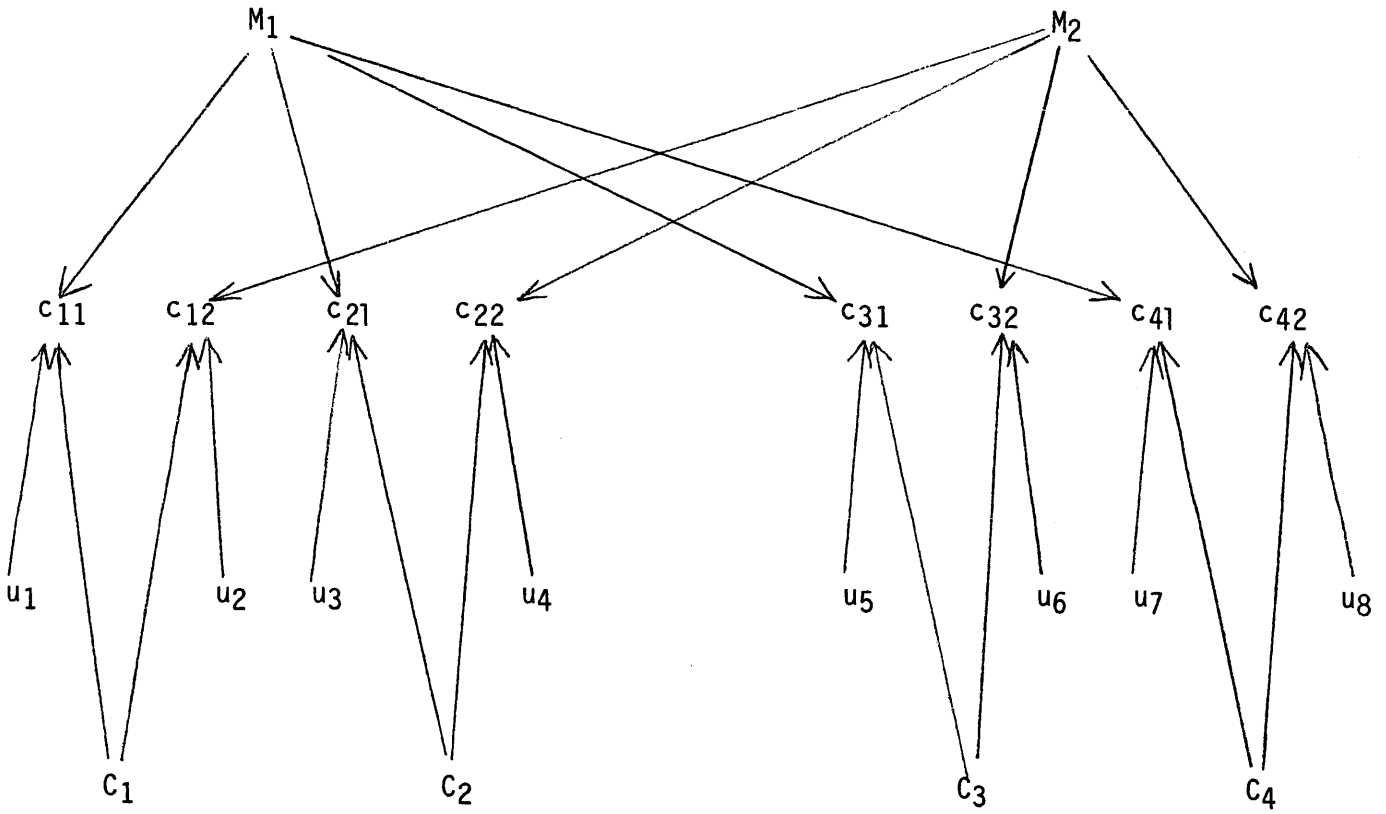

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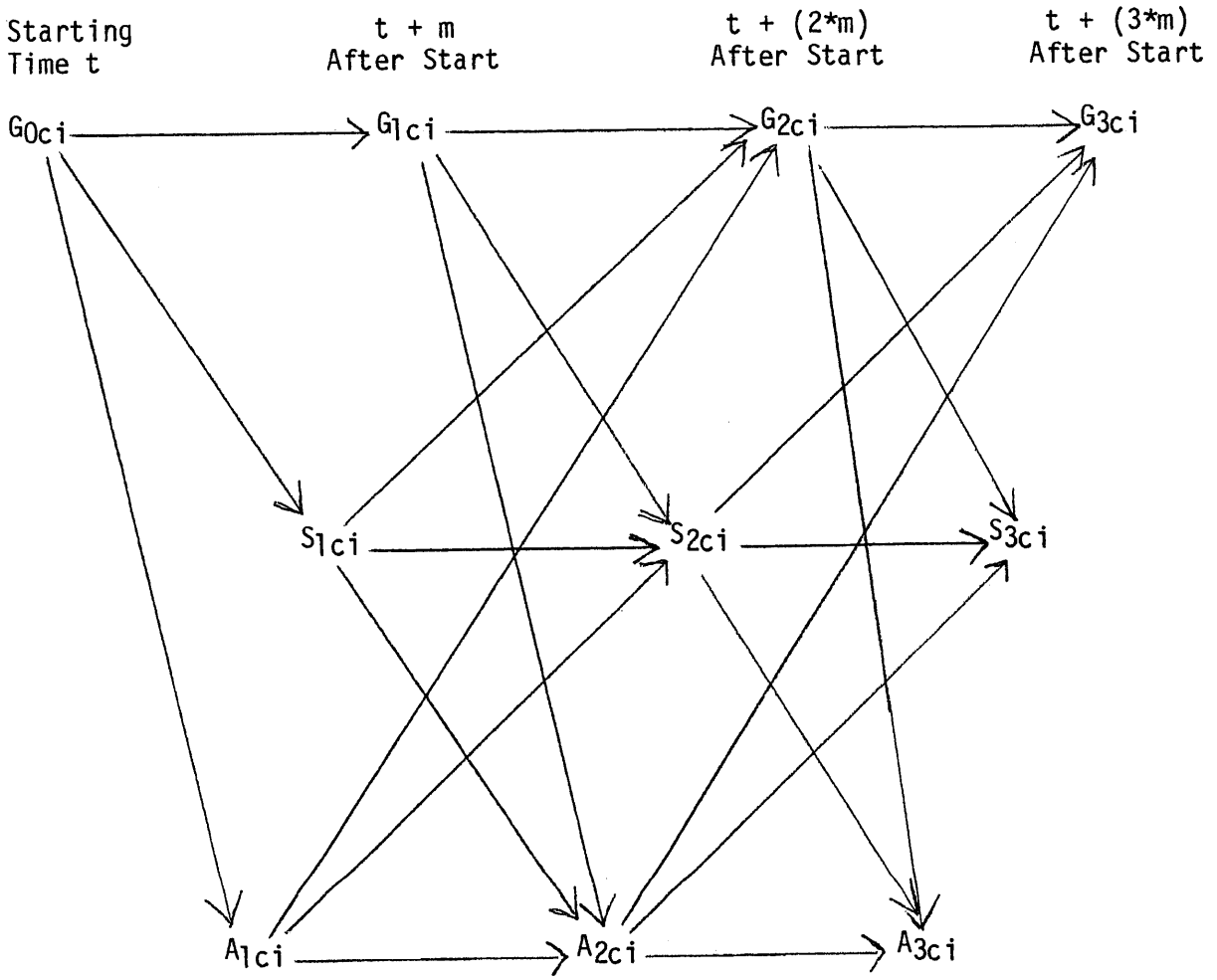
FIGURE 3
LONGITUDINAL DESIGN



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