



# A Framework for the Design of Inclusive Community-Based Early Intervention Programs

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**Michael J. Guralnick, Ph.D.**

*Director, Center on Human Development  
and Disability*

*Professor of Psychology and Pediatrics  
University of Washington  
Seattle, Washington USA*



CENTER ON HUMAN DEVELOPMENT & DISABILITY  
UNIVERSITY of WASHINGTON

# Early Intervention Issues to Consider



Diversity and Complexity of Vulnerable Groups

Conceptual Framework: Theory of Change

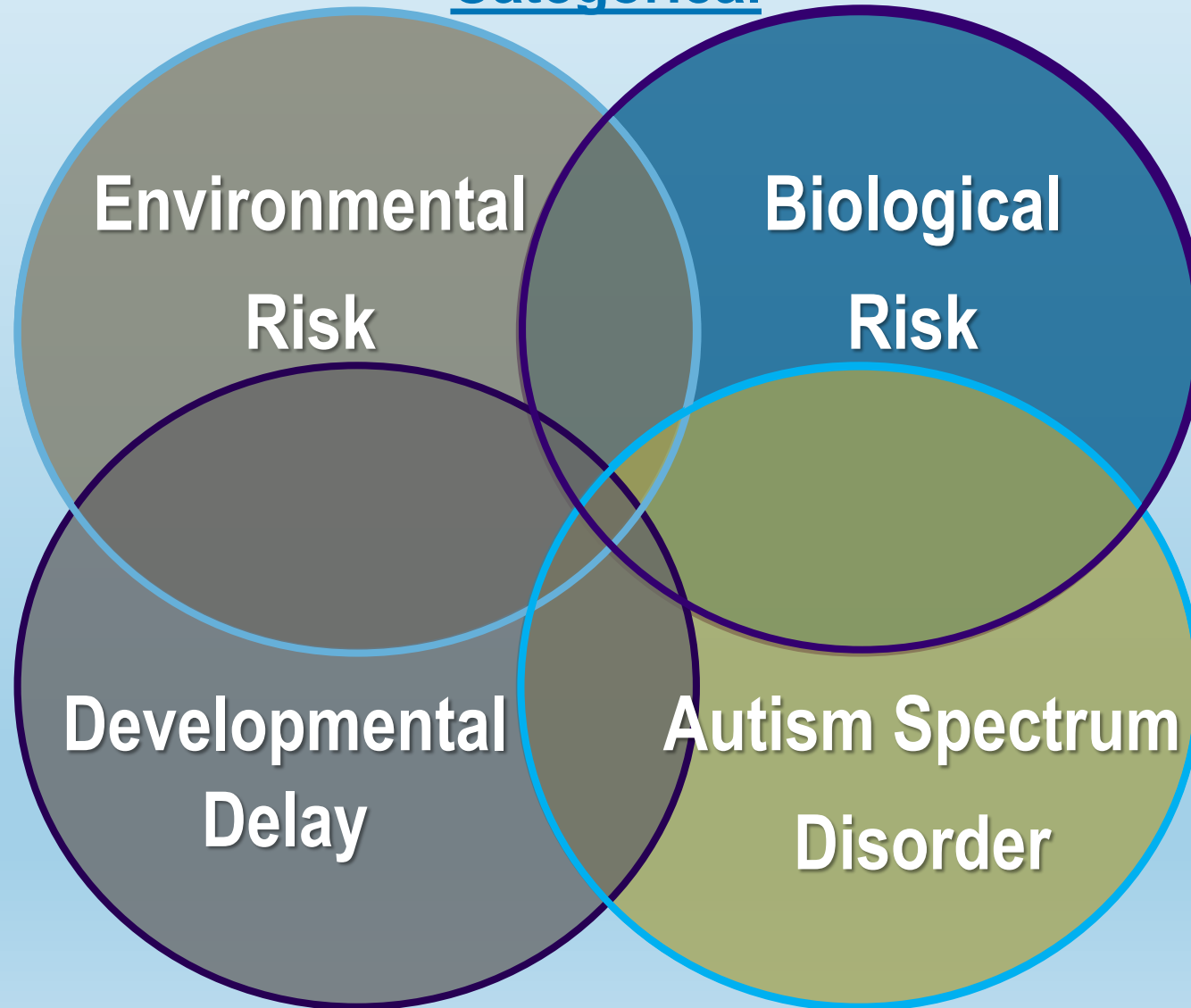
Evidence Framework: Intervention Science

Diversity and Complexity of Intervention Approaches

Community Implementation: Implementation Science

# Diversity and Complexity of Vulnerable Groups

Categorical



# Environmental Risk

- Financial instability (food insecurity)
- Parent mental health
- Stimulating environment (language)
- Parent-child relationship
- Material resources
- Parent self-efficacy
- Community resources

# Biological Risk

- Preterm birth
- Hypoxic ischemic encephalopathy
- Infection
- Birth trauma
- Known genetic risk (family risk)

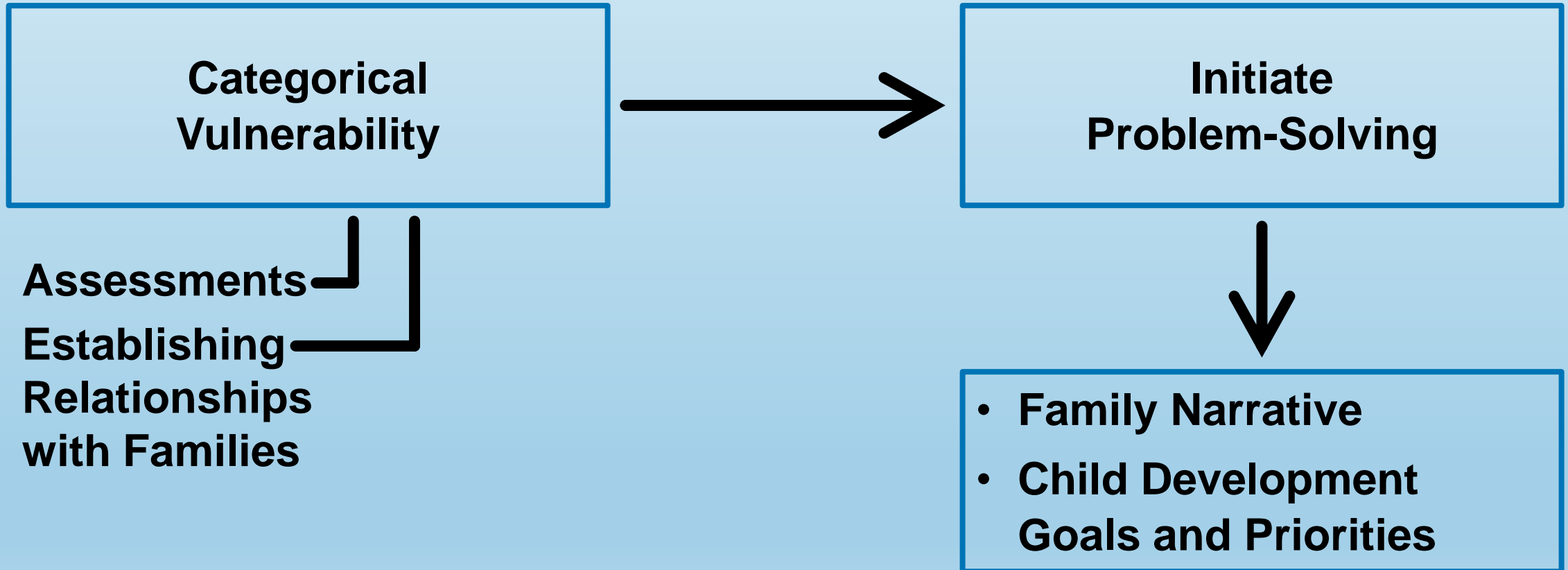
# Developmental Delay

- Cognitive
- Language
- Motor
- Social-emotional
- Sensory-perceptual

# Autism Spectrum Disorder

- Reciprocal social behavior
- Repetitive behavior/restricted interests
- Communication concerns/relationships

# The Early Intervention Process





# Initiating Problem Solving: Establish Child Development Goals

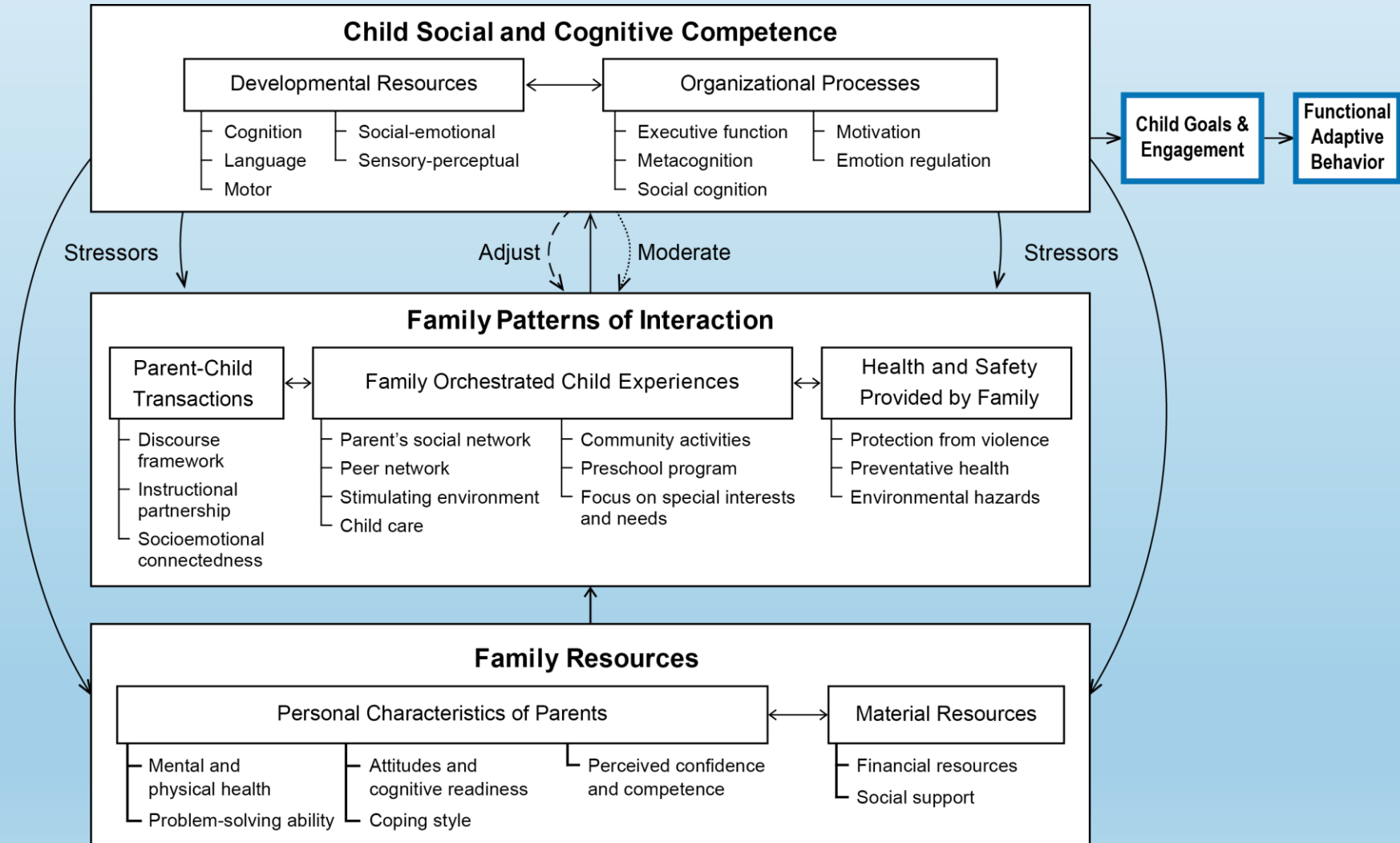
## Family Narrative

- Participating in family activities and routines
- Exploring the environment independently and gaining information
- Communicating for social purposes
- Playing independently and constructively
- Developing self-help skills
- Playing jointly with others and in a productive manner
- Communicating needs clearly
- Engaging in efforts with others to solve problems and acquire knowledge
- Responding to requests to start, stop or modify activities

—Guralnick 2020

Considerations: Child developmental level, behavioral patterns, special interests; other child characteristics affecting Family Patterns of Interaction

# Developmental Systems Approach: An Introduction



# Early Intervention Issues to Consider



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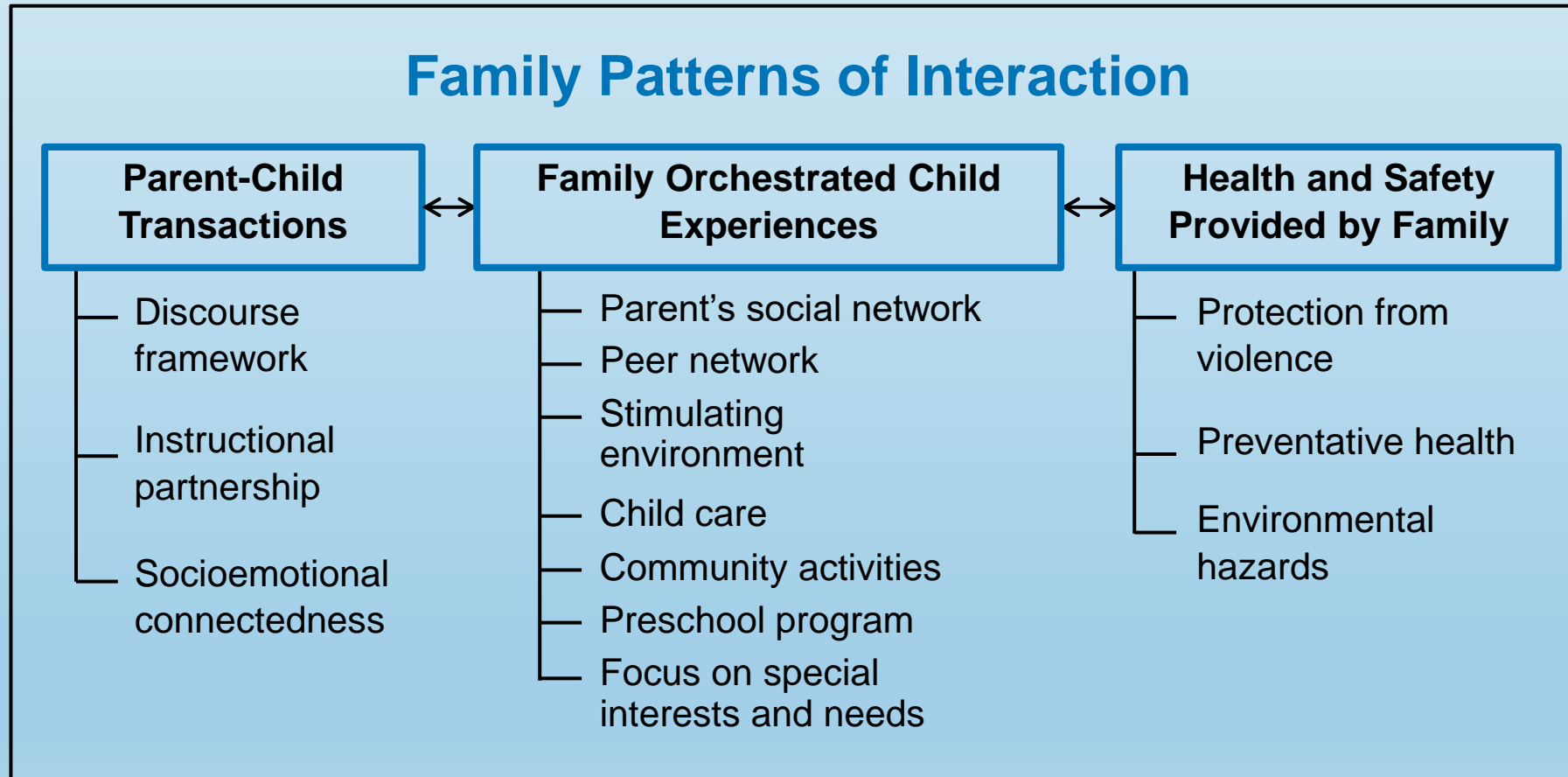
**Conceptual Framework: Theory of Change**

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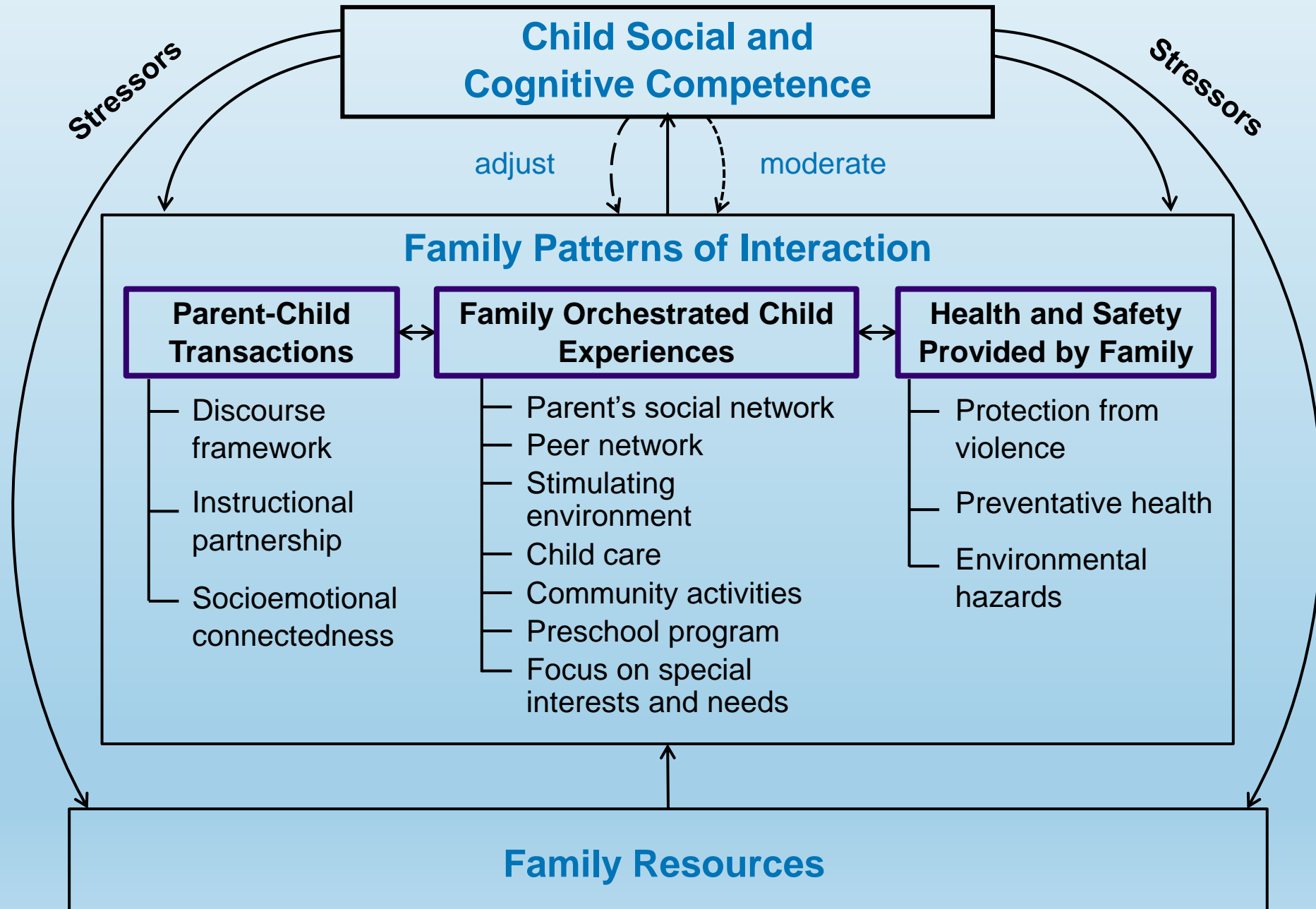
# Role of Early Intervention: Support High Quality Family Patterns of Interaction

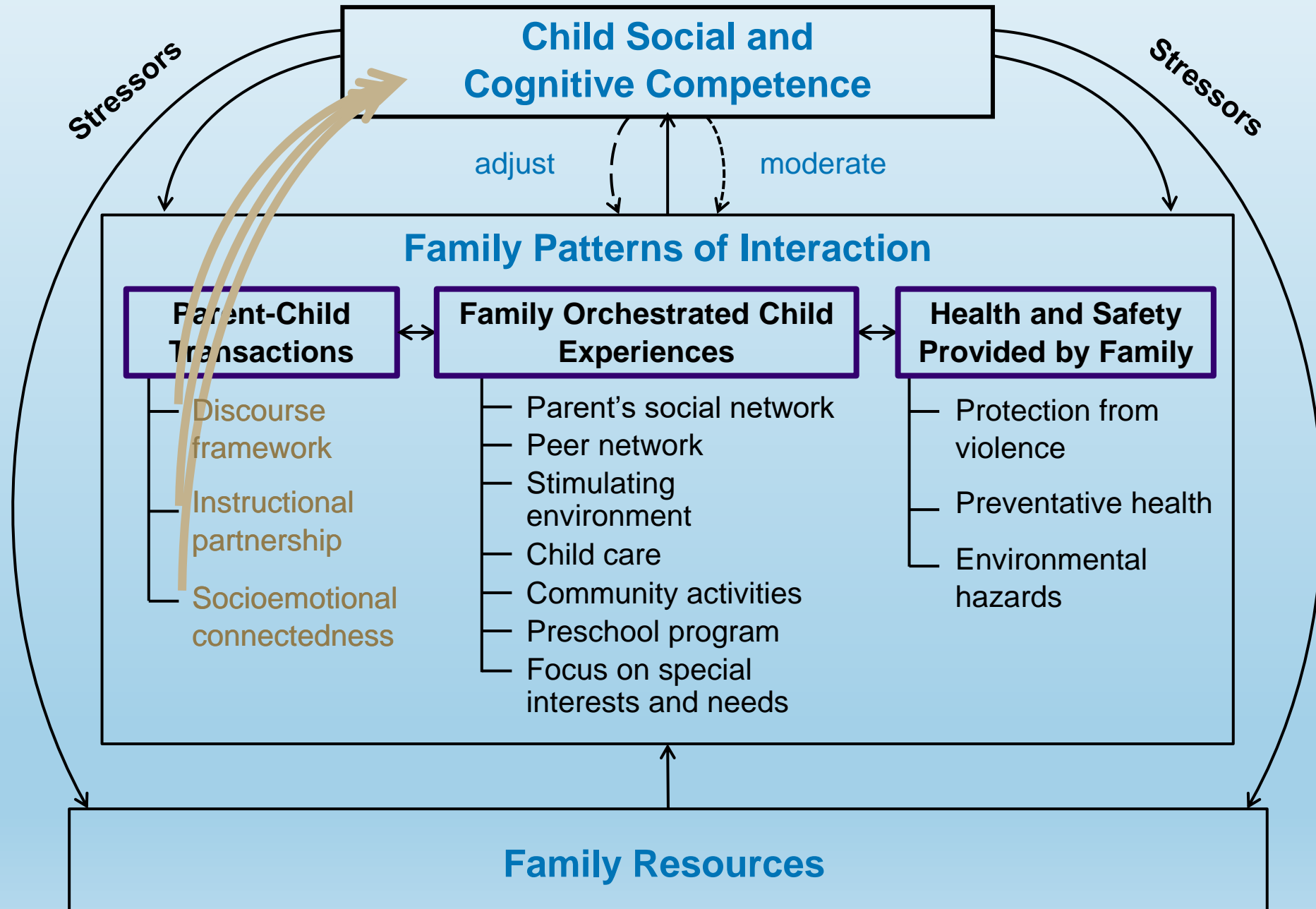


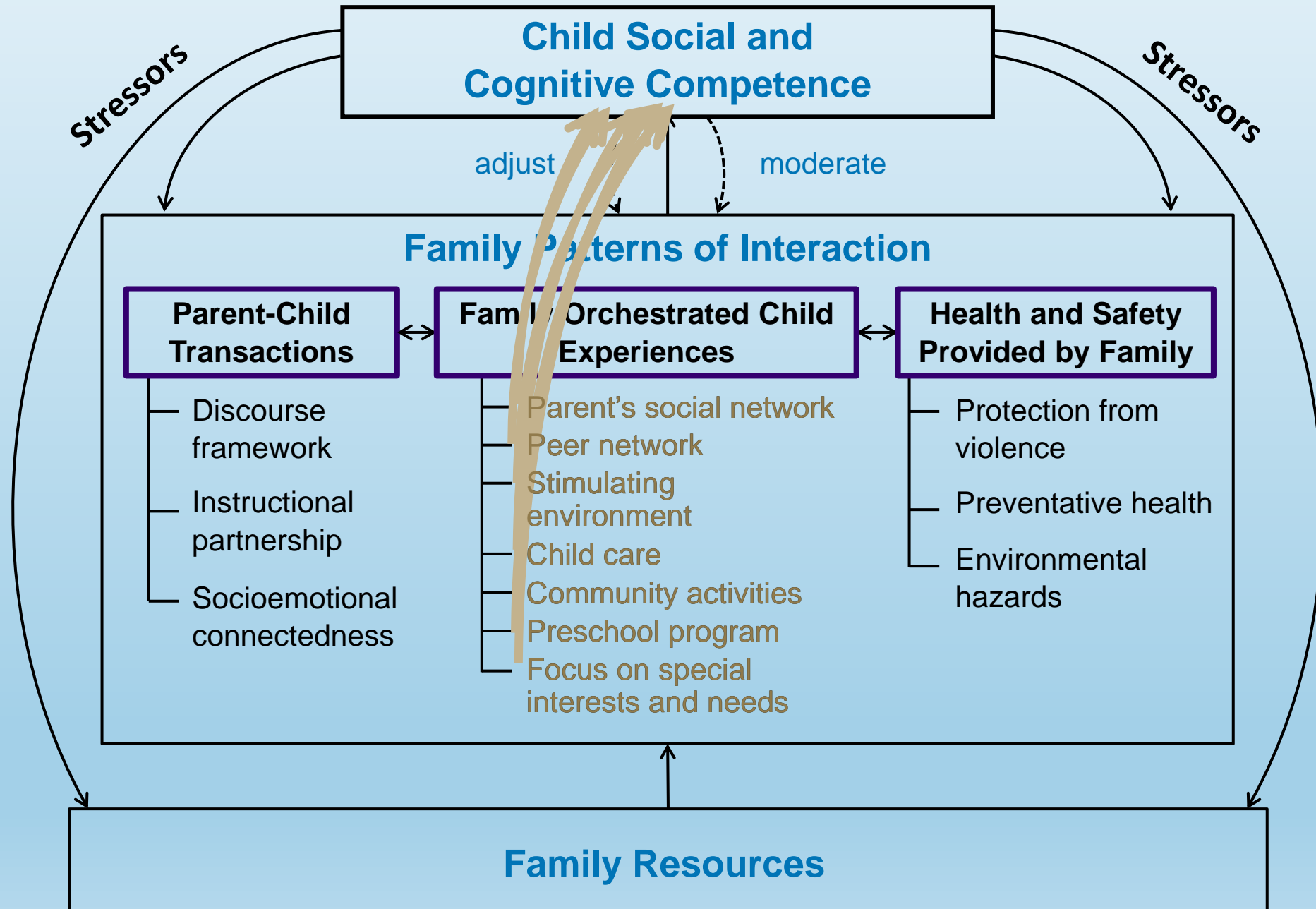
# Conceptual Framework: Theory of Change

## Developmental Mechanisms Promoting Child Development

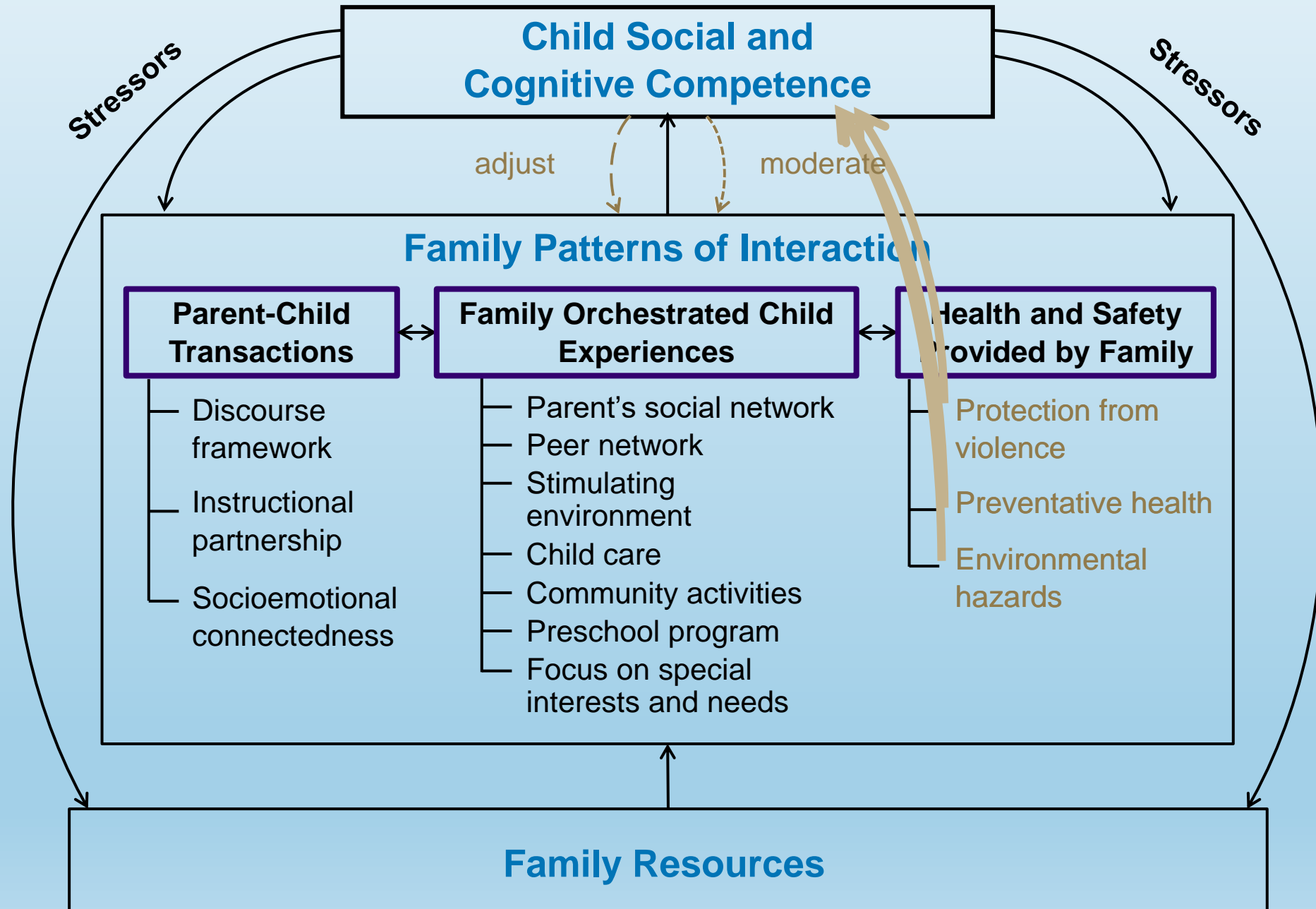
- Parent-child transactions
- Family orchestrated child experiences
- Child health and safety

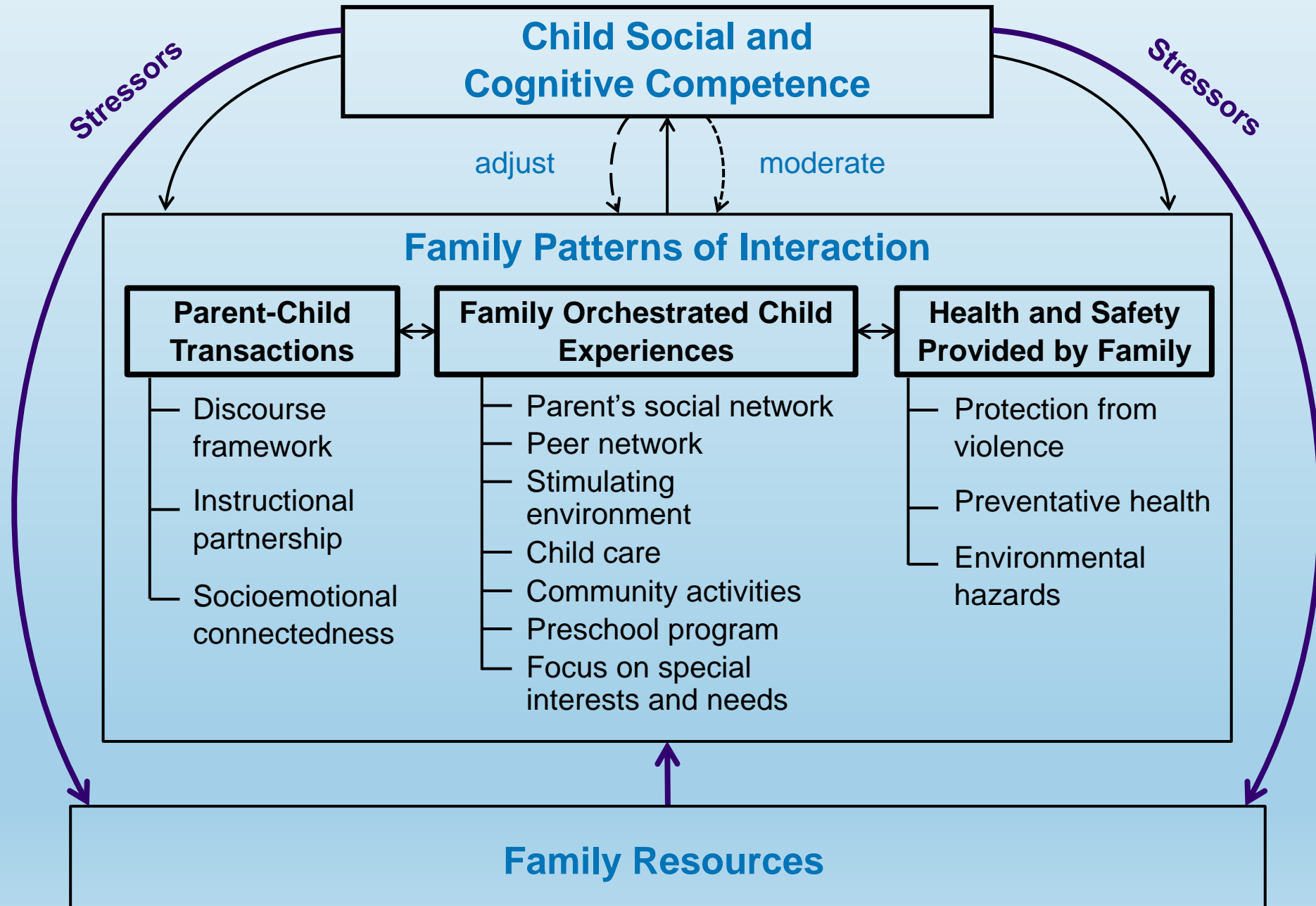




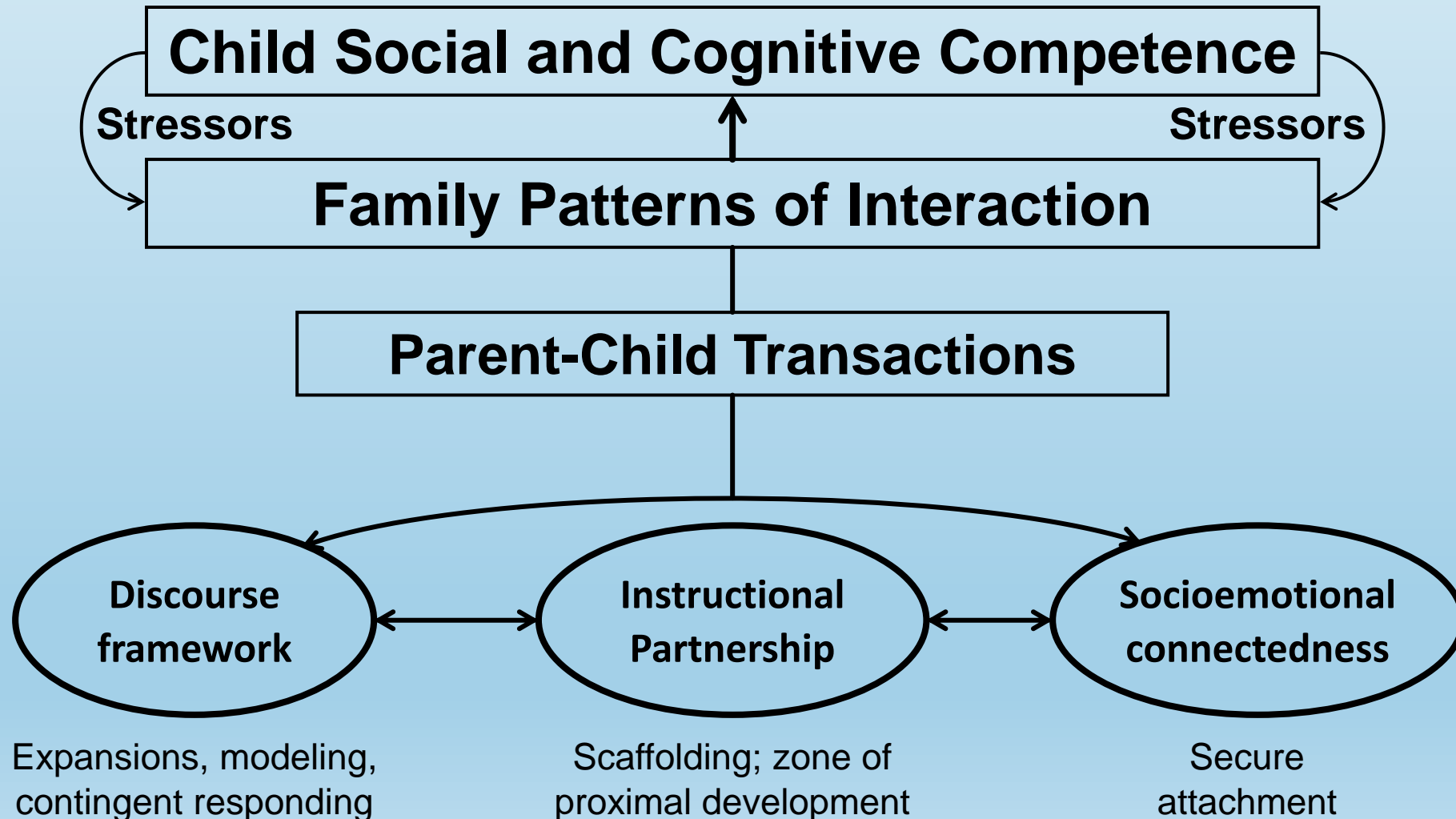








# Effects of Stressors



# Connection to Parent-Child Transactions: Stressors

Engaging caregivers as allies in the treatment of children does not mean an intervention meant “to correct bad parenting” or to somehow correct something that parents are not doing right. The causative disruption of the child-caregiver unit of development is the instantiation of the child’s genetic risk

—Klin et al, 2020,p. 1183

# Early Intervention Issues to Consider



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Conceptual Framework: Theory of Change

**Evidence Framework: Intervention Science**

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# Initiating Problem Solving: Establish Child Development Goals and Priorities

## Family Narrative

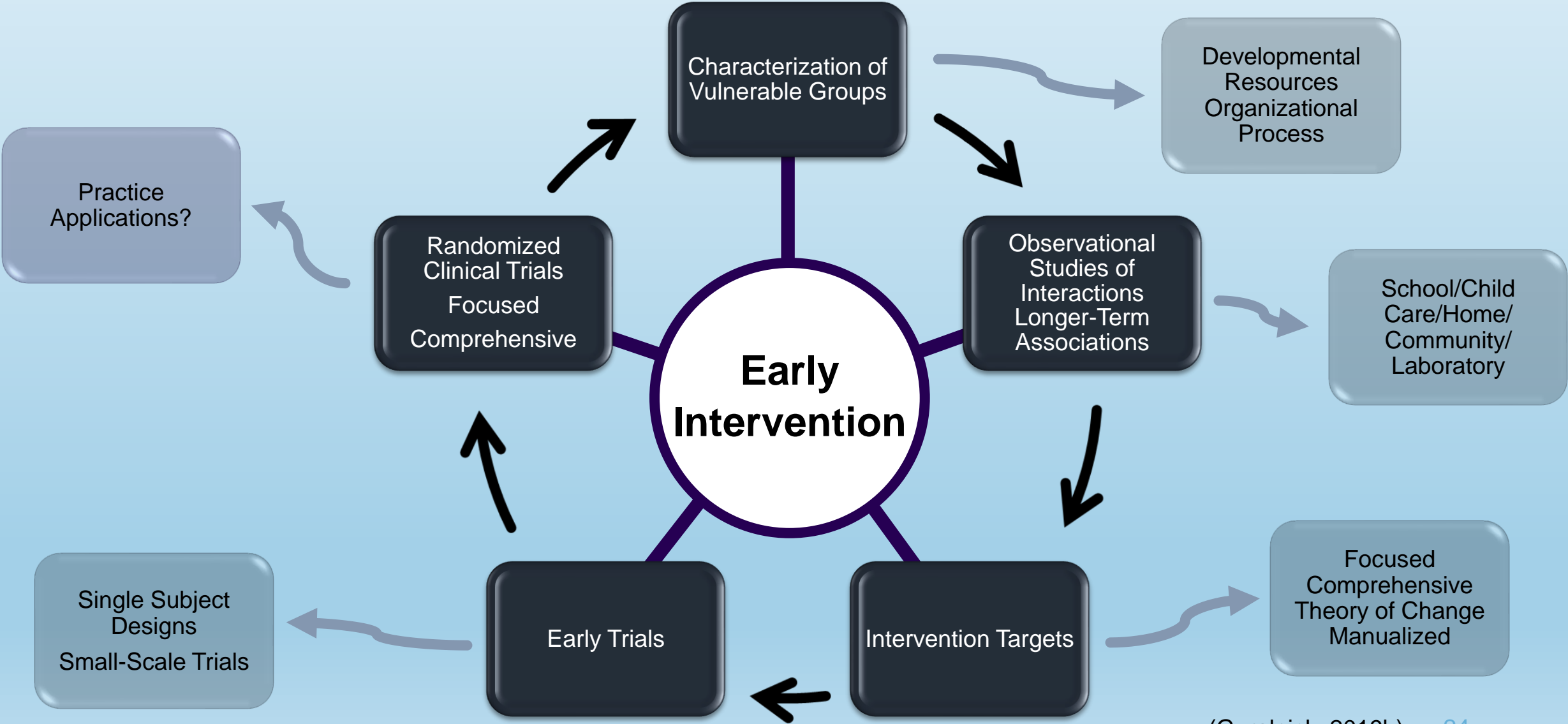
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—Guralnick 2020

# Considerations for Intervention Design

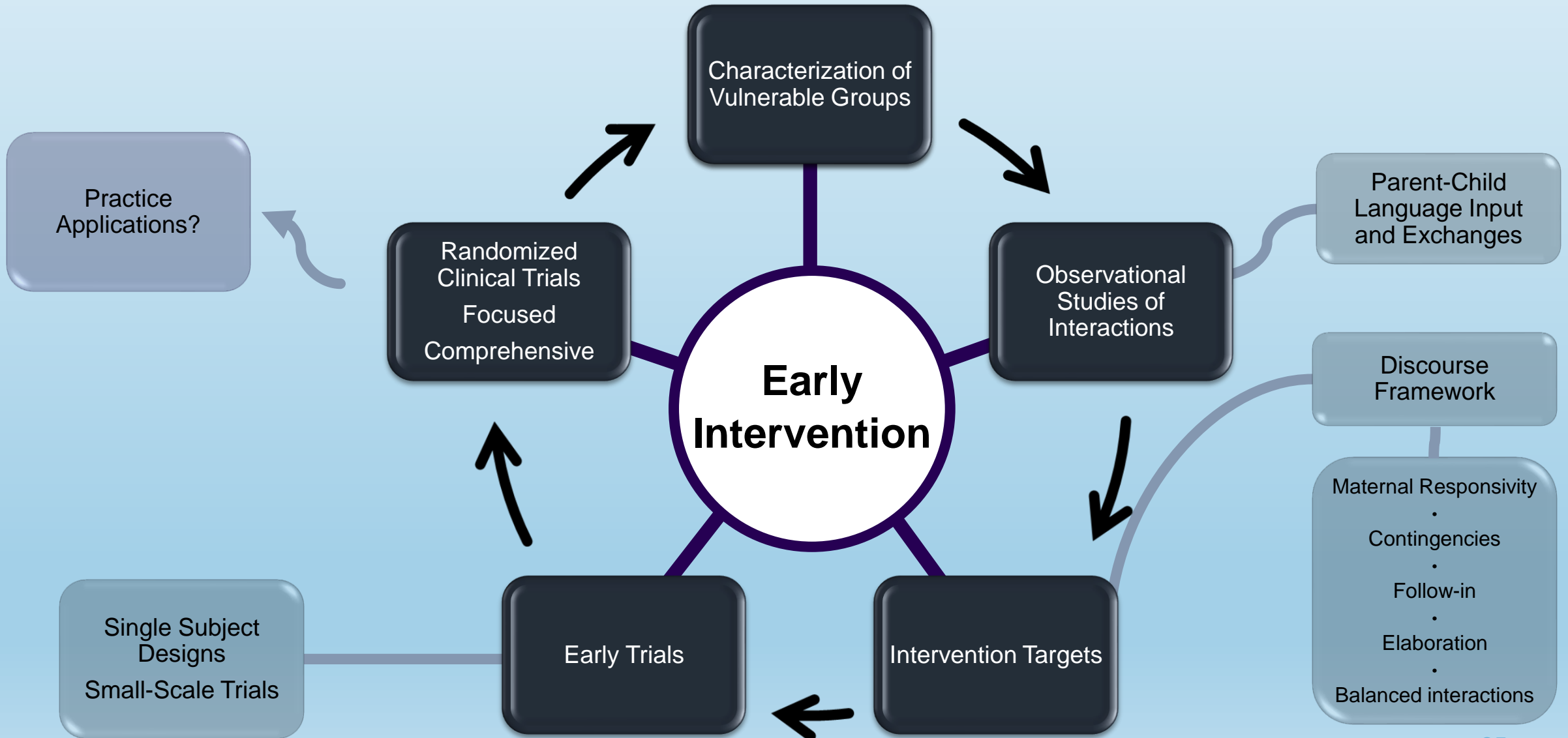
- Child developmental level
- Behavioral patterns
- Special interests
- Review family narrative and related information
- Identify specific objectives, activities, and contexts (relationship based)
- Objectives and activities are designed to enhance the quality of Family Patterns of Interaction
- Basis for IFSPs and IEPs: Child goals and priorities with focus on Family Patterns of Interaction

# Evidence Framework: Intervention Science



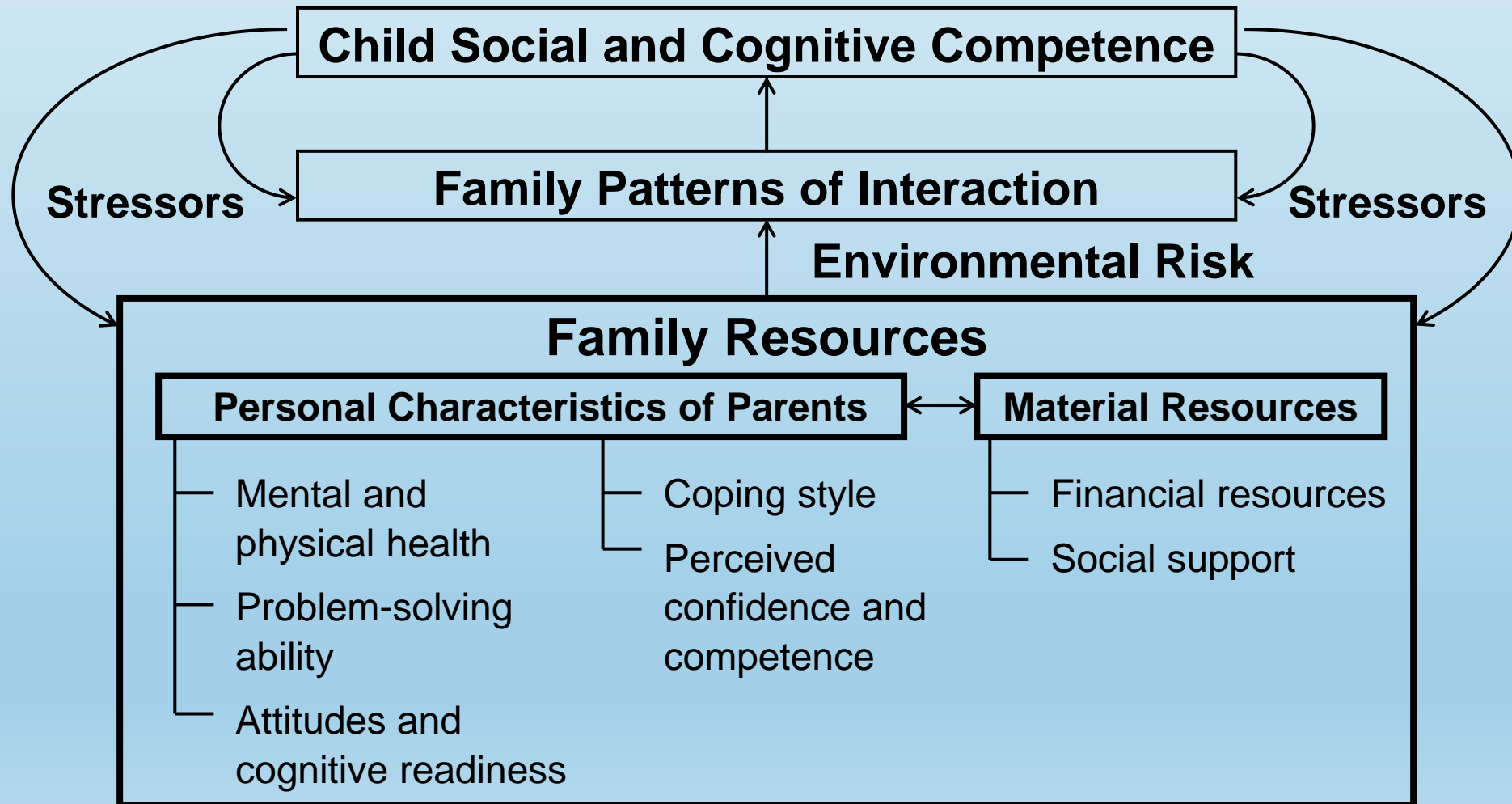


# The Translational Research Cycle

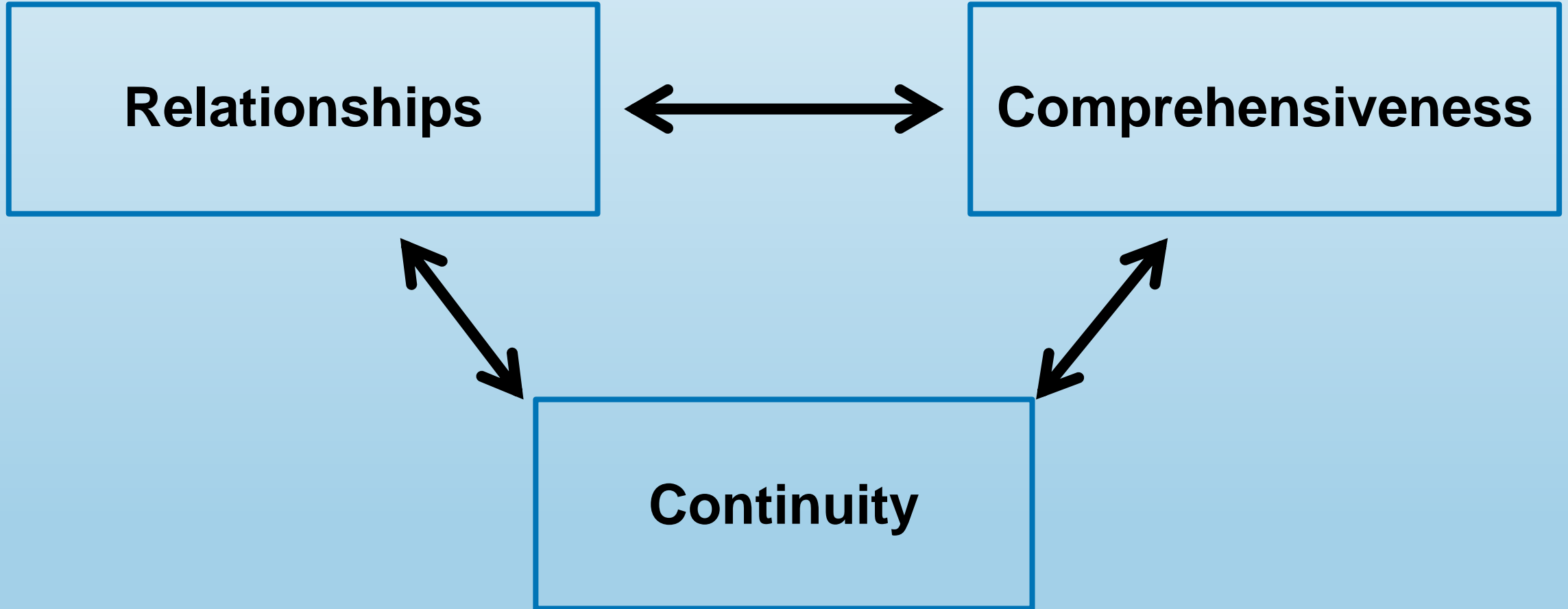


# Further Considerations

## Family Risk: Protective Factors and Stressors



# Principles



# Summary of Evidence Framework: Intervention Science

- Strong support for overall effectiveness
- Diverse Interventions for child goals based on Family Narrative: Varying degrees of confidence
- Issues of terminology, discipline, level of specificity, theory of change

**Potential for integration across categorical groups within a common framework**

# Early Intervention Issues to Consider



Diversity and Complexity of Vulnerable Groups

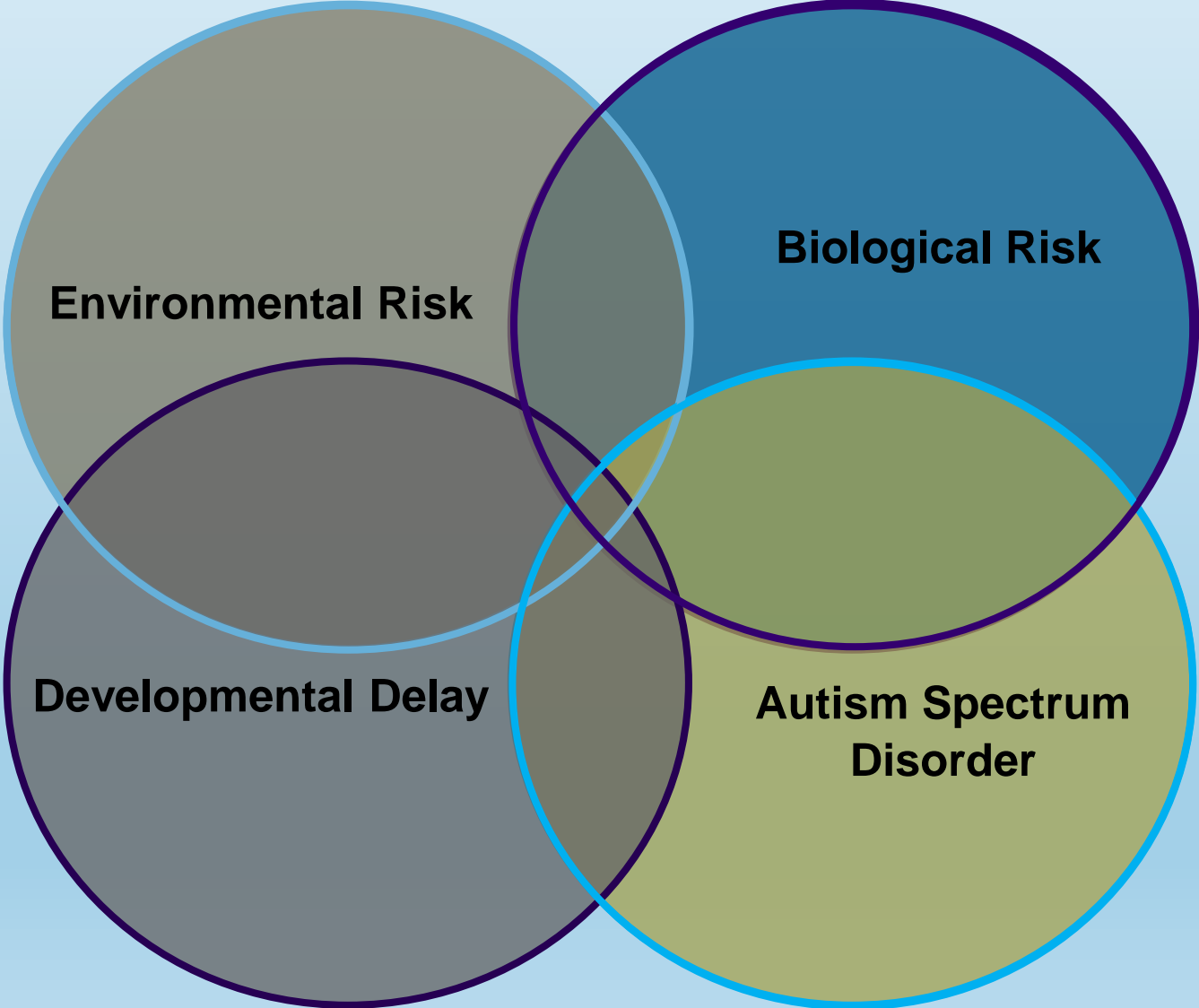
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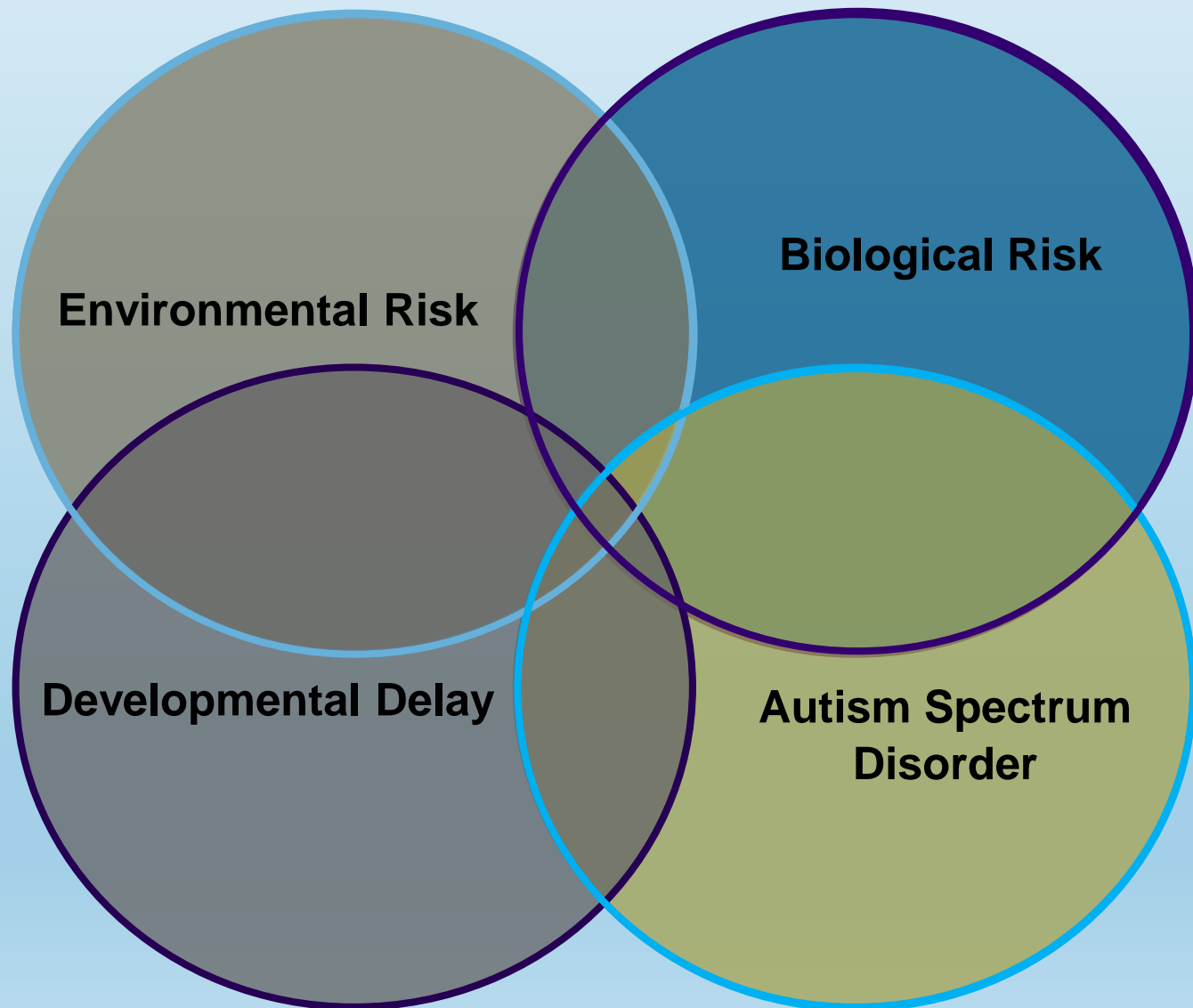
Evidence Framework: Intervention Science

**Diversity and Complexity of Intervention Approaches**

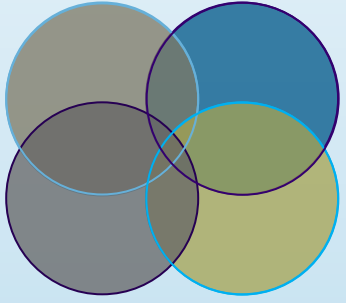
Community Implementation: Implementation Science

# Diversity and Complexity of Intervention Approaches





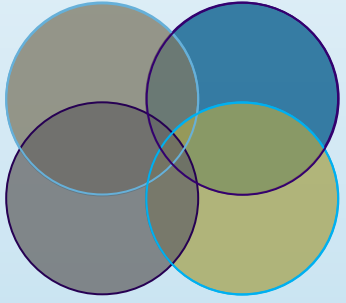
# Environmental Risk



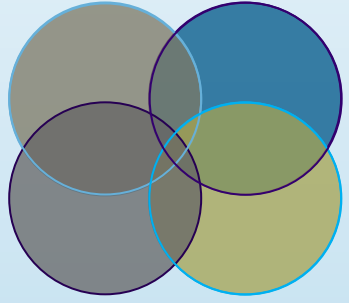
**PALS Program**  
**Carolina Curriculum**  
**My Baby & Me**  
**Nurse-Family Partnership**  
**Creative Curriculum**  
**Educare**  
**REDI**  
**Chicago School Readers Project**  
**Tools of the Mind**  
**Getting Ready**  
**Parents-as-Teachers**



# Environmental Risk



# Biological Risk



**Infant Health and Development**

**Neonatal Individualized  
Developmental Care**

**Massage Therapy**

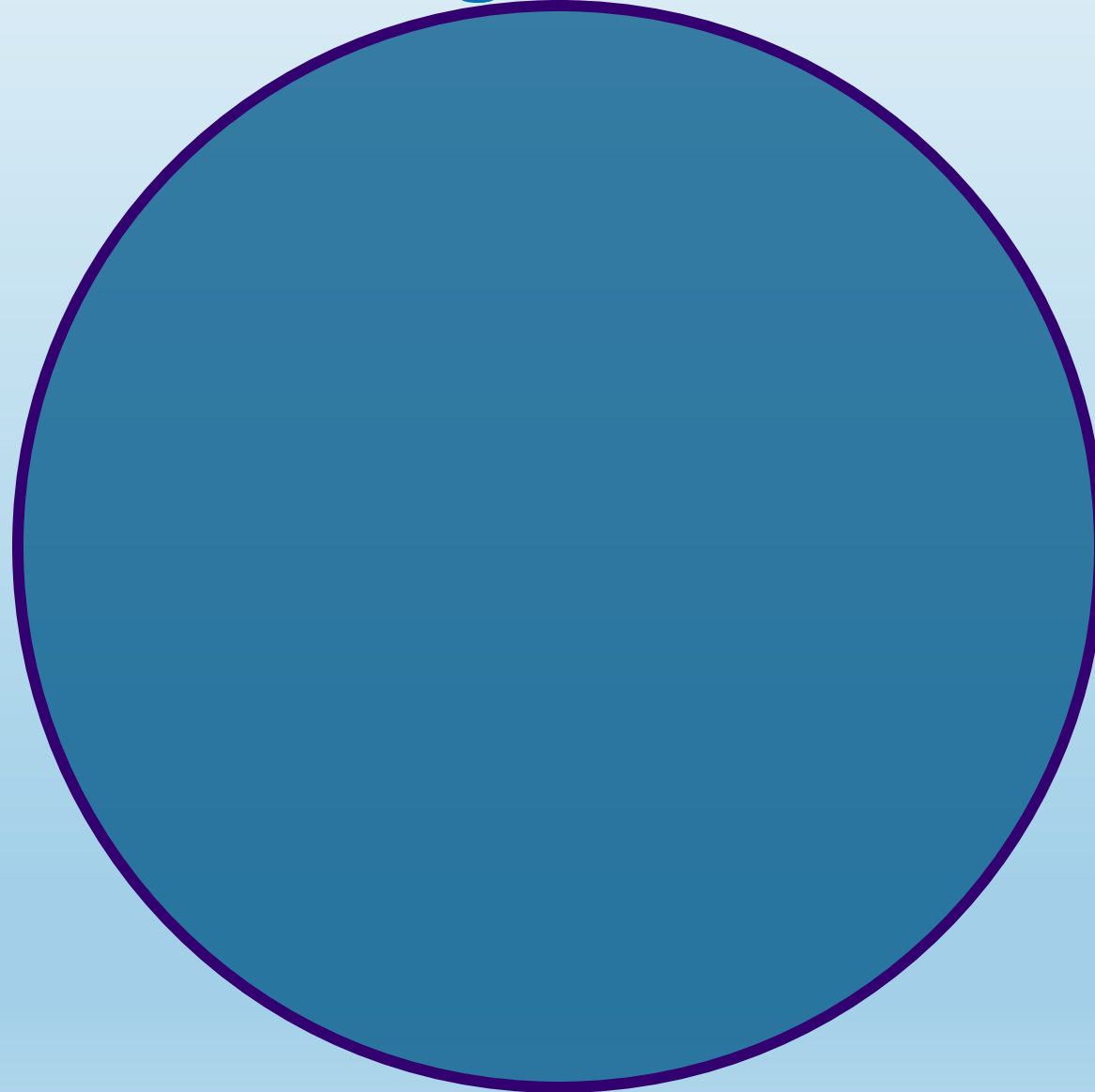
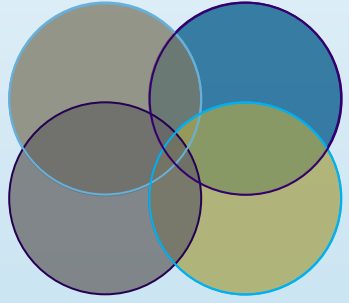
**Kangaroo Care**

**Mother-Infant Transaction Program**

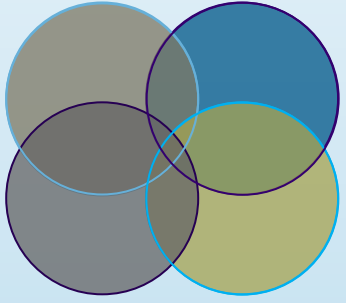
**Avon Premature Infant Project**

**PALS I & II**

# Biological Risk

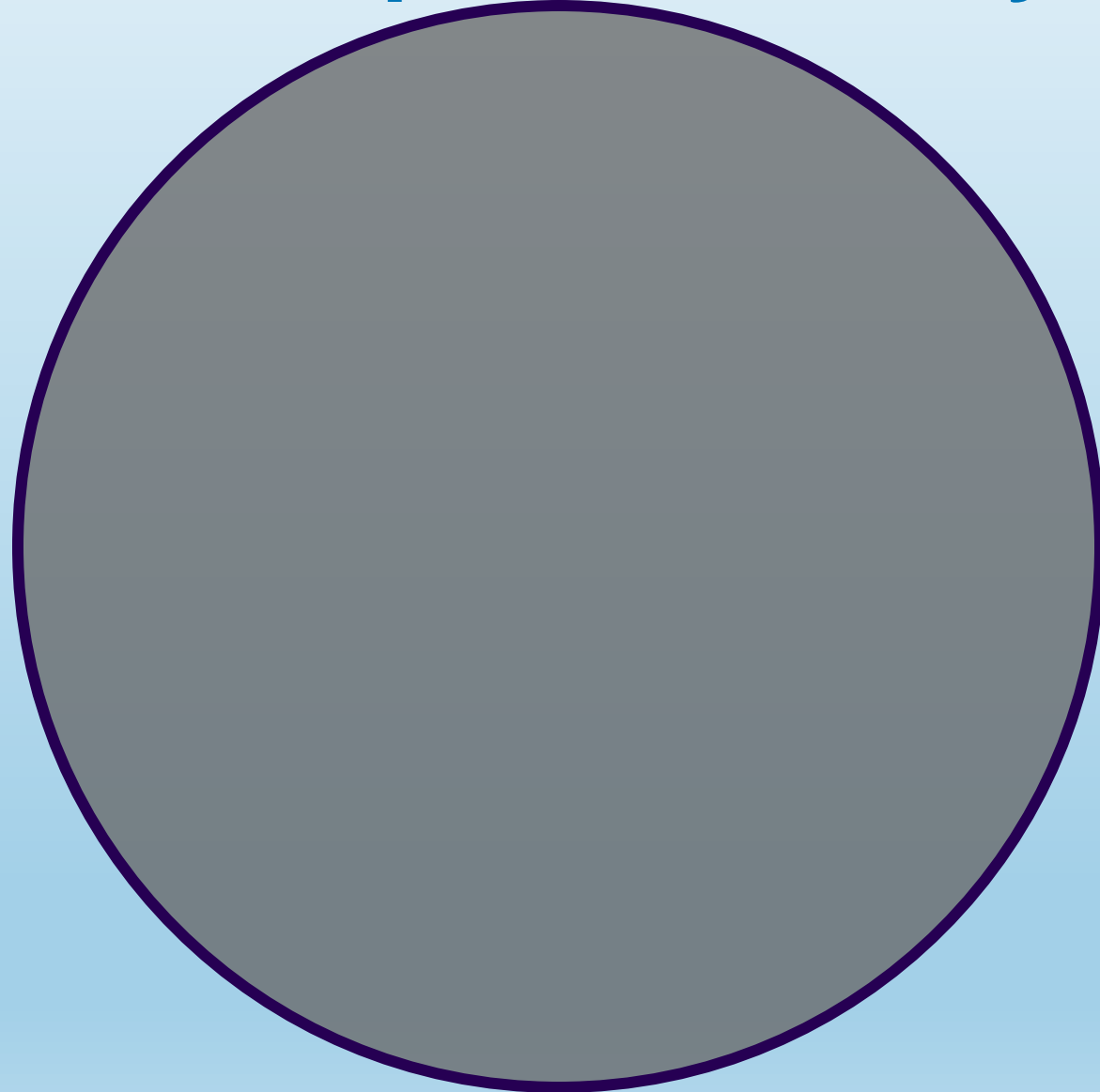
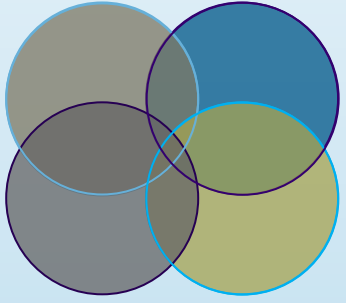


# Developmental Delay

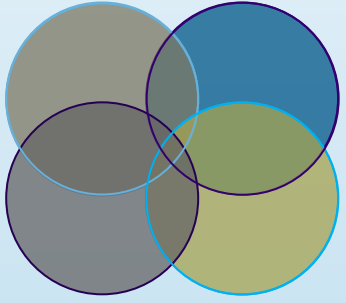


**Routines-Based Intervention**  
**Prelinguistic Milieu Therapy**  
**Enhanced Milieu Therapy**  
**Responsive Teaching**  
**Hanen Program**  
**AEPS**  
**Carolina Curriculum**

# Developmental Delay



# Autism Spectrum Disorder



**Play and Language for Autistic  
Youngsters**

**Preschool Autism Communication Trial**

**Pivotal Response Training**

**TEACCH**

**LEAP**

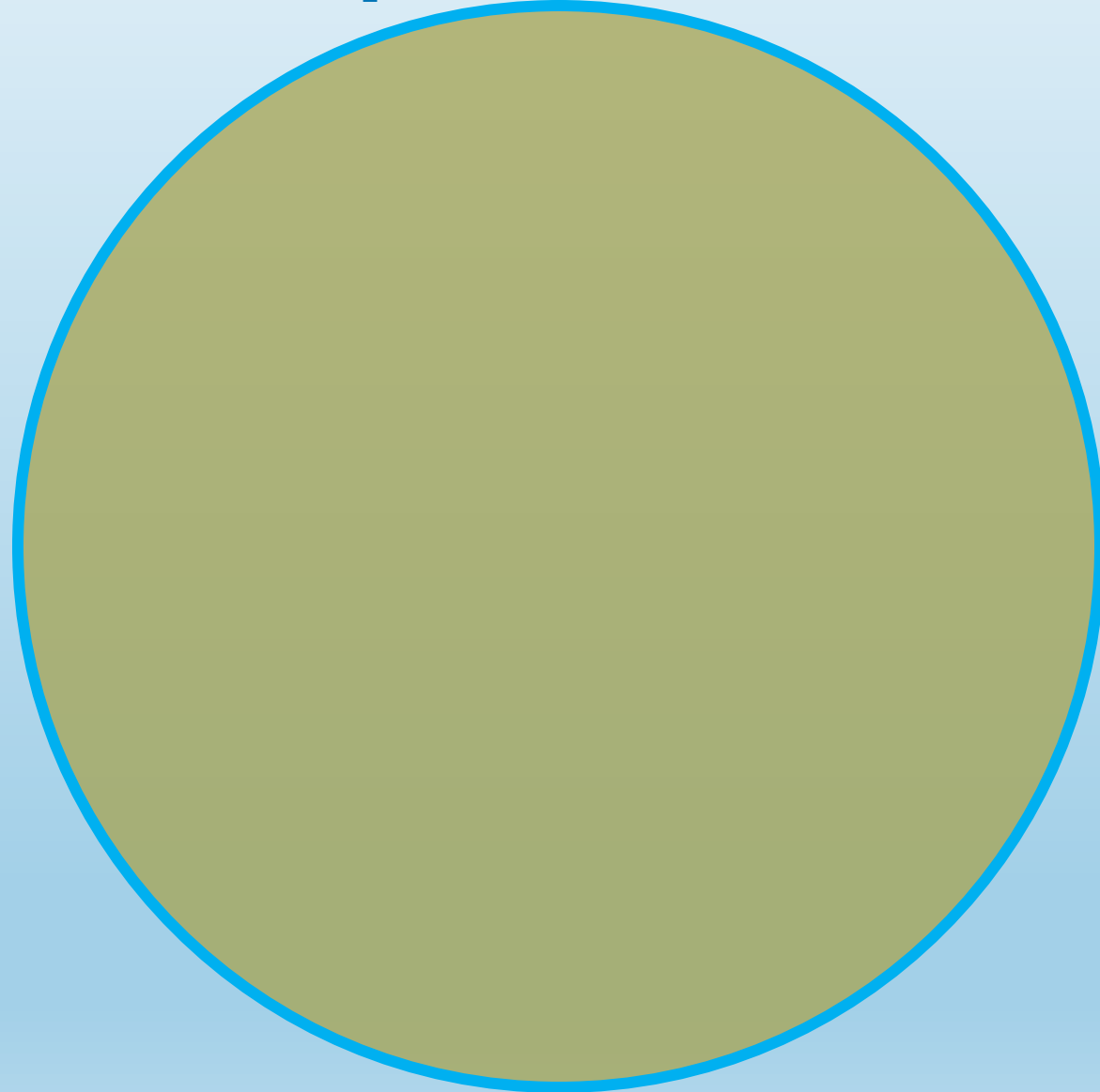
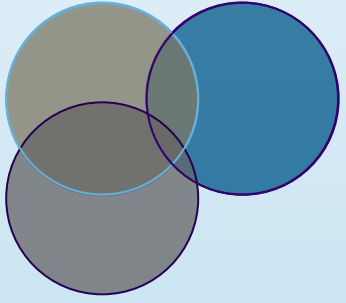
**Joint Attention, Symbolic Play,  
Engagement and Regulation**

**Early Start Denver Model**

**Applied Behavior Analysis**

**Picture Exchange Communication  
System**

# Autism Spectrum Disorder



# Evidence-Based Strategies

Play and Language for Autistic Youngsters

Joint Attention, Symbolic Play, Engagement and Regulation

Prelinguistic Milieu Therapy

Carolina Curriculum

Neonatal Individualized Developmental Care

PALS Program

Infant Health and Development

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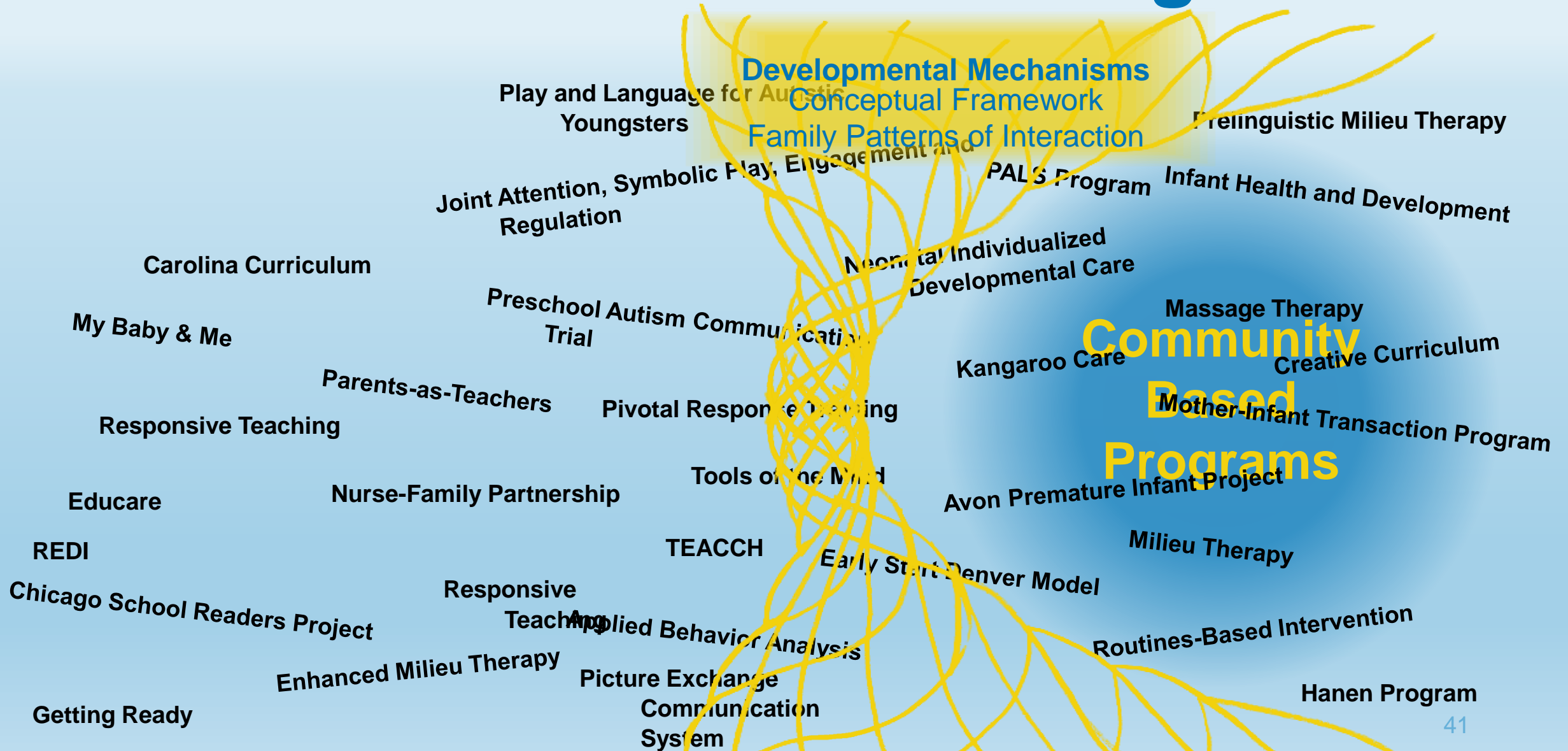
Routines-Based Intervention

Getting Ready

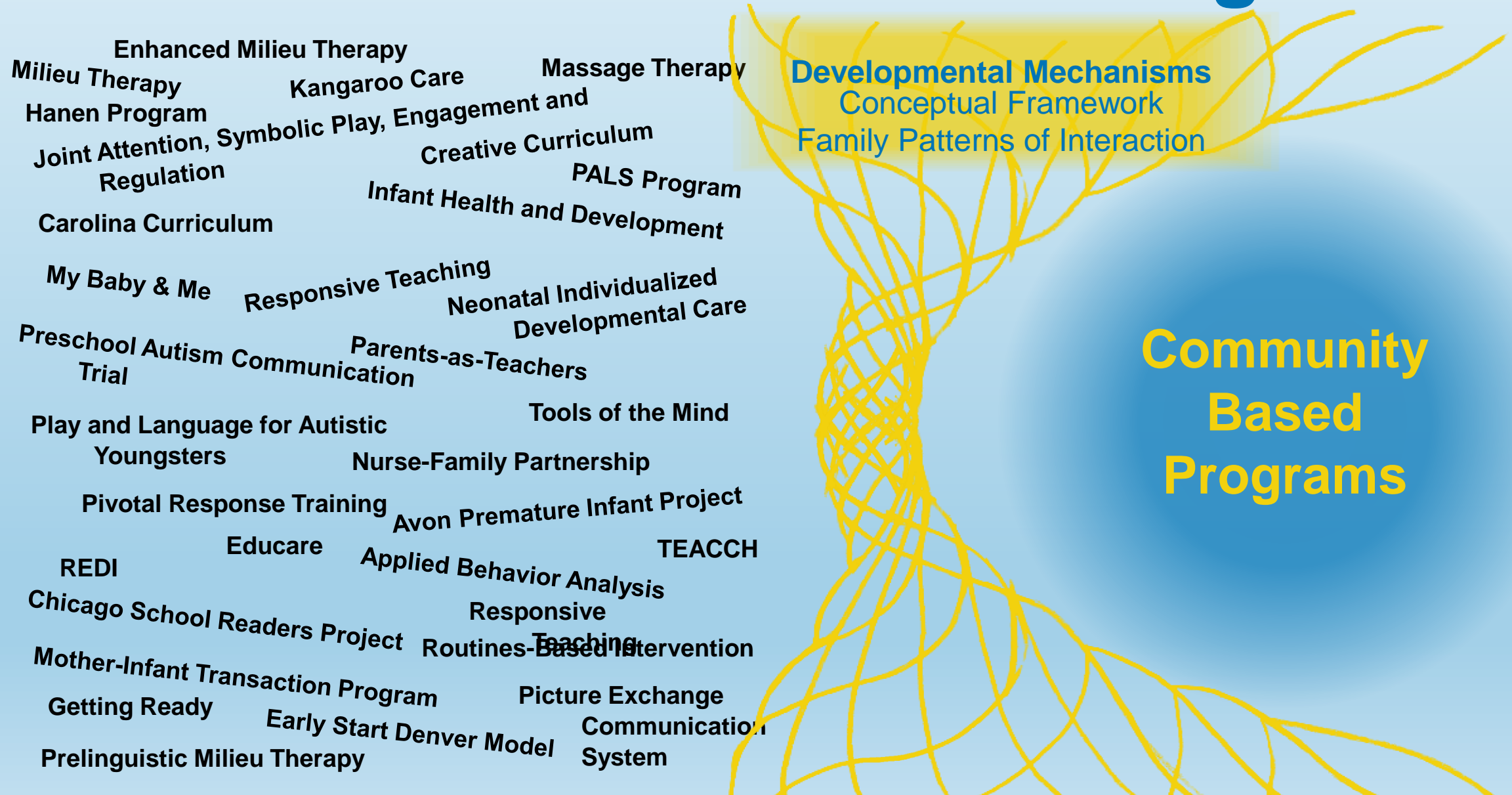
Hanen Program



# Evidence-Based Strategies



# Evidence-Based Strategies



# Evidence-Based Strategies

**Developmental Mechanisms**  
Conceptual Framework  
Family Patterns of Interaction

**Community  
Based  
Programs**

Enhanced Milieu Therapy  
Hanan Program  
Joint Attention, Symbolic Play, Engagement and Regulation  
Carolina Curriculum  
My Baby & Me  
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Play and Language for Autistic Youngsters



# Contributions of Categorical and Etiologic Information

- Evidence-based curricula and strategies
- Fine-tune problem-solving through developmental resources and organizational processes
- Consider etiologic-specific information
  - Level of the child
  - Level of Family Patterns of Interaction
  - Level of family resources
- Investment in support and advocacy groups

**Key Point:** Conceptual and evidence frameworks apply to **all** children and families

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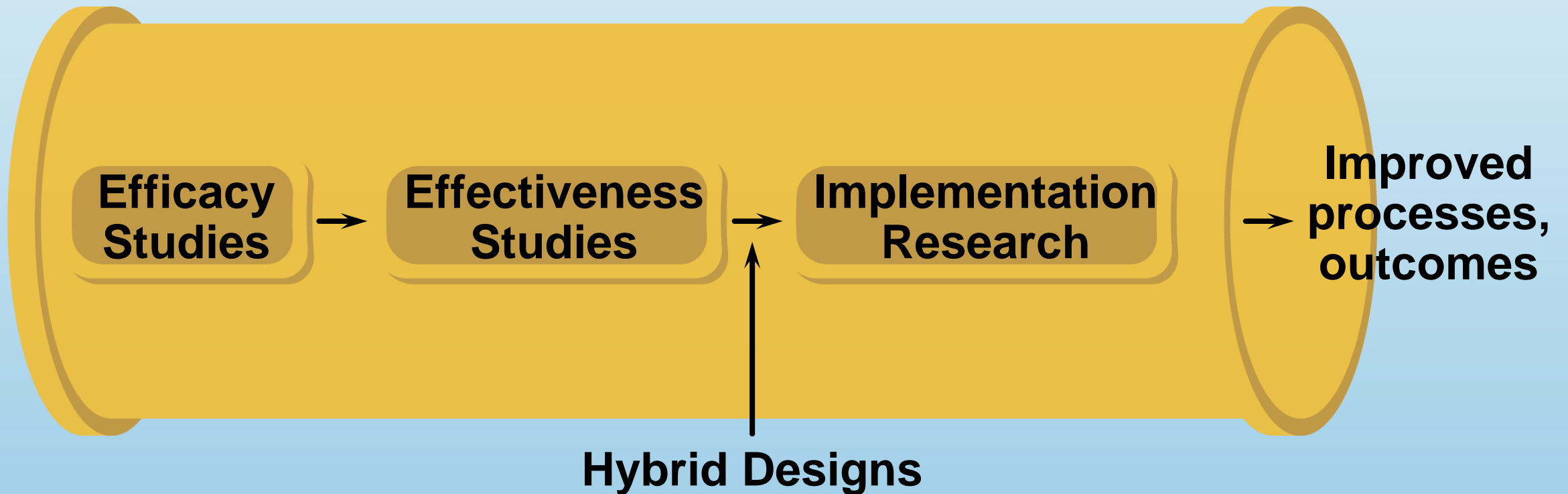
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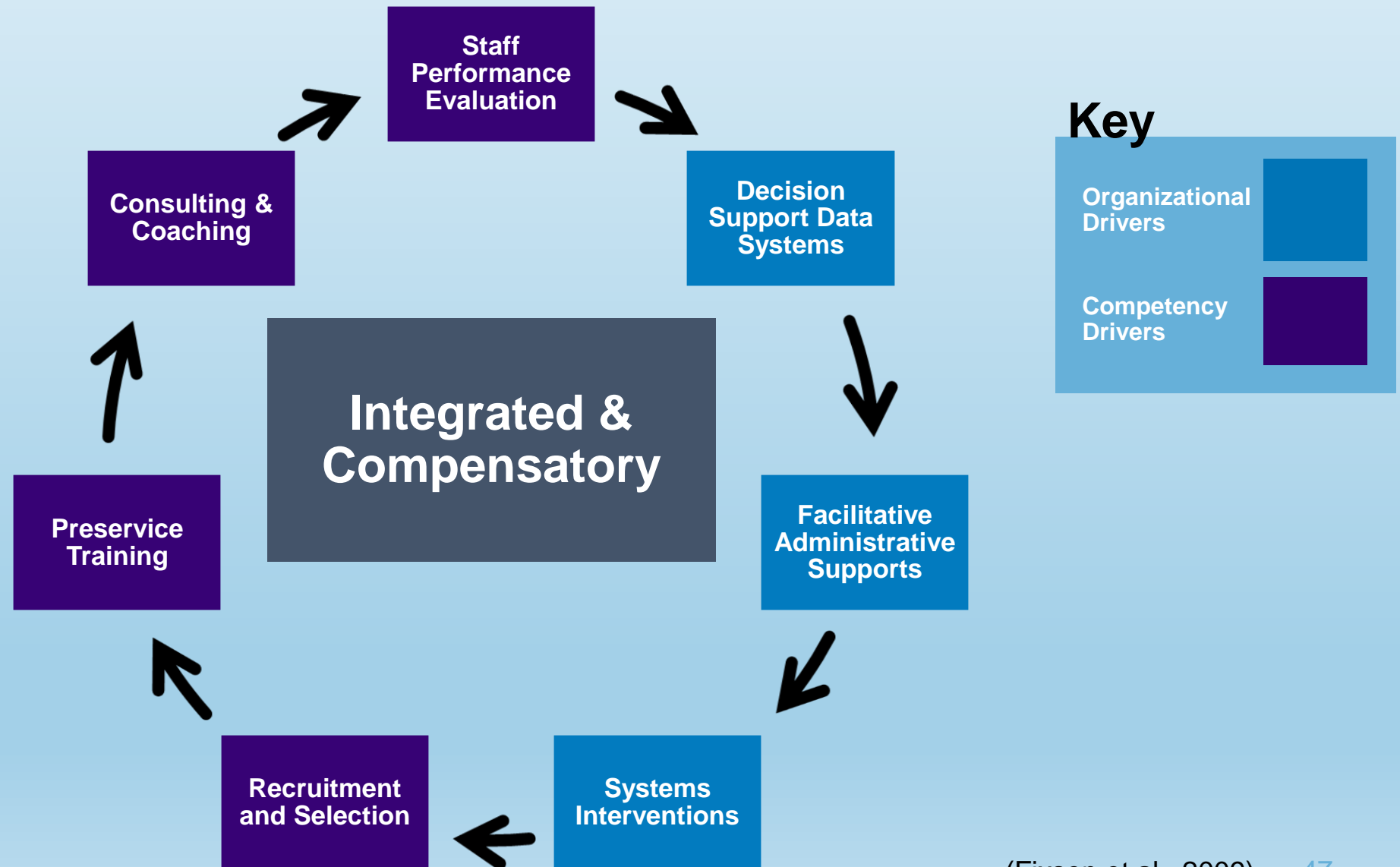
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# Community Implementation: Implementation Science

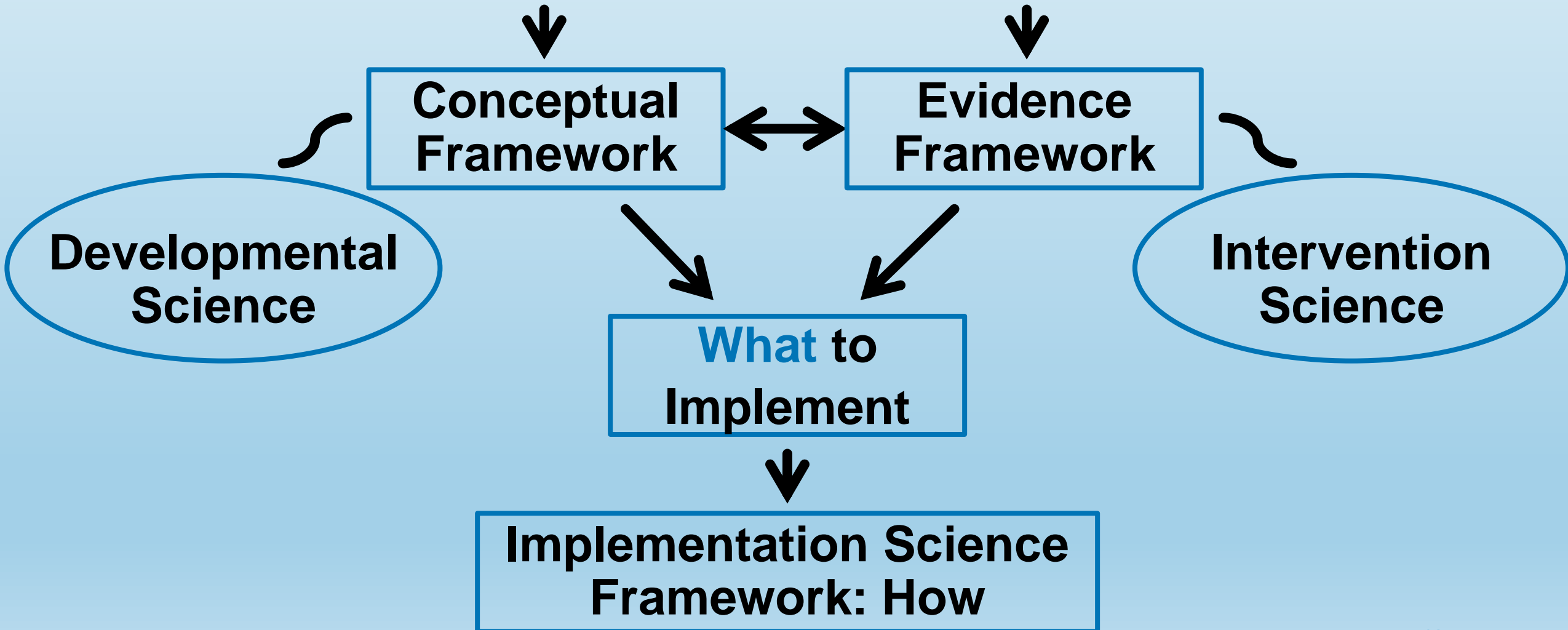


**Categorical Pipeline of Research to Enhance  
Community-Based Early Intervention Programs**

# Core Implementation Components

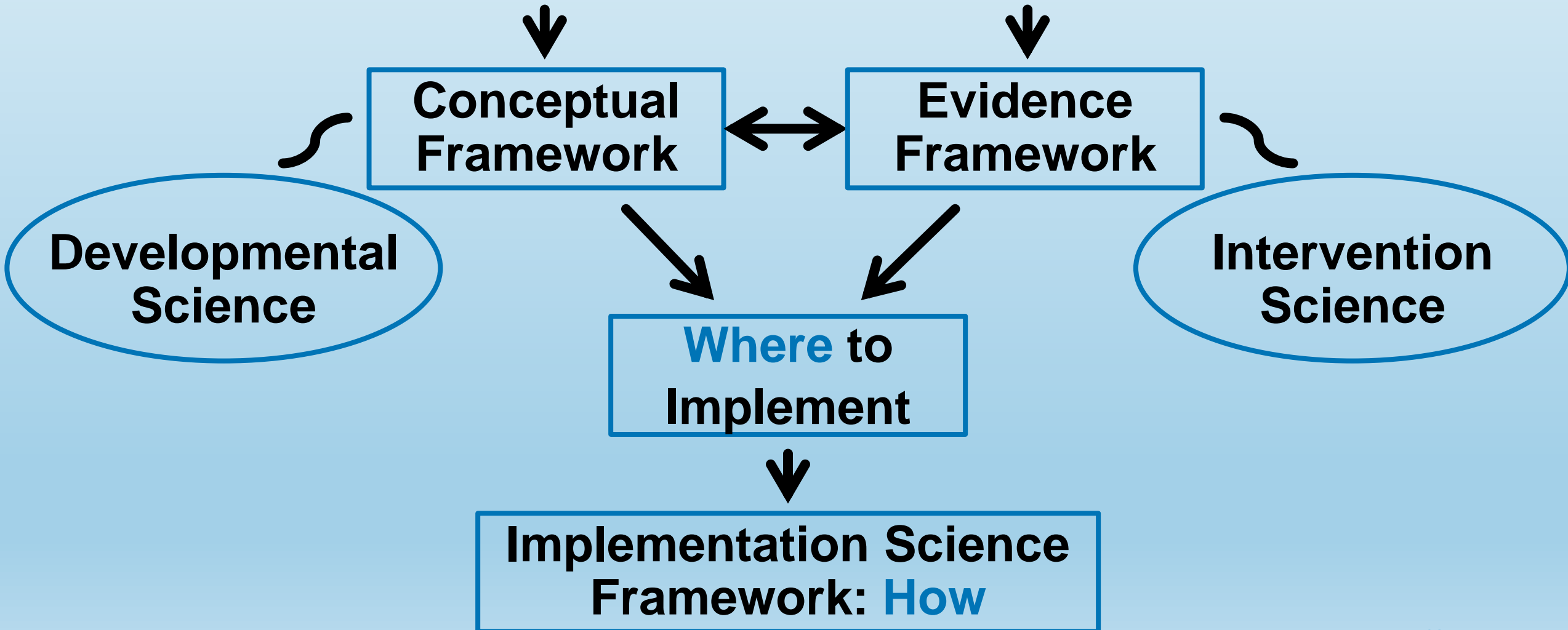


# Implementing A Comprehensive and Inclusive Community-Based System





# Implementing A Comprehensive and Inclusive Community-Based System



# Universal and Comprehensive Early Childhood System

Same developmental mechanisms: Irrespective of categorical or etiologic diagnosis

Recognizes contributions of categorical and etiologic diagnoses

- Draws on evidence-based curricula and strategies
- Fine-tunes problem-solving through developmental resources and organizational processes
- Provides overall anticipatory guidance
- Engages support networks and advocacy groups

Follows parent goals and expectations: Family Narrative

Supports inclusion, belonging, interdependence

Optimal Family Patterns of Interaction: Provides support for families to fulfill their aspirations and provide tools for children to carry out their interpersonal goals: The essence of Early Intervention

# Future of Comprehensive Early Childhood Systems

