

## Early Childhood Intervention and Professional Development.

### Bridging the gap between Research and Practice

Joana M Mas

#### Advancing comprehensive early childhood intervention

What parents, professionals, science, and national systems can tell us

Lisbon, 5 september

# Professional Development Project: Goal



To promote the adoption of three evidence-based practices (EBPs) by ECI practitioners through the **design, implementation, and evaluation** of a professional development program aimed at **building capacity** and **transferring** this knowledge into practitioner's daily practice.

# Professional Development Project



Family-Centered Practices

Authentic Child Assessment

Naturalistic Instruction

Adult Learning  
EBPractices

Mastery

Introduction & Demonstration

Feedback-Reflection

Practice-Self Assessment



**TRANSFER IN THE  
PROFESSIONAL CONTEXT**



# Professional Development Project: 3 Phases

01

## DESIGN

- Training Program
- Evaluation Protocol

1st Paper

02

## IMPLEMENTATION



- ECI + Training Team

3r Paper

03

## EVALUATION

- During the Training - Questionnaires
- End of T Program - Focus Groups

4th Paper

2n Paper

# Professional Development Project: Team

Research Team	Work Team	Experts
<p><b>Joana M Mas Mestre</b>, (FPCEE Blanquerna, URL, IP)</p> <p><b>Anna Balcells-Balcells</b>, (FPCEE Blanquerna, URL, IP)</p> <p><b>Natasha Baqués-Aguar</b>, (FPCEE Blanquerna, URL)</p> <p><b>Alba Ibáñez-García</b>, PhD (U. Cantabria)</p> <p><b>Simón García-Ventura</b>, PhD (U. Abat Oliba-CEU)</p>	<p><b>Almudena Monteagudo</b> (Cdiat F. Montañés, Valencia)</p> <p><b>Alex Arrillaga</b> (Recrea, Madrid)</p> <p><b>Diana Nieto</b> (Recrea, Madrid)</p> <p><b>Cristina Díaz</b> (Asprona, Albacete)</p> <p><b>Yolanda Salat</b> (L'Espiga, Vilafranca)</p> <p><b>Thais Rosal</b> (EDAI, Barcelona)</p> <p><b>Laia Soler</b> (EDAI, Barcelona)</p> <p><b>Anthoula Delimarou</b> (SINTE URL)</p>	<p><b>Carl J. Dunst</b> (<i>Orelana Hawks Puckett Institute</i>)</p> <p><b>Mary Beth Bruder</b> (<i>Center for Excellence in Developmental Disabilities Research, Education, and Service</i>)</p> <p><b>Ana M. Serrano</b> (Universidade de Minho, <i>Eurllyaid</i> President),</p> <p><b>Marilyn Espe-Shwerdwin</b> (<i>Eurllyaid</i> consultant)</p> <p><b>Climent Giné-Giné</b> (profesor emérito URL)</p>



This has been and it is possible thanks to...



We are so, so GRATEFUL!!

# Schedule for the symposium

- 1. The design of **Capacity-Building Professional Development program**.
- 2. The effects of in-service CB training on practitioners' use of EBP and self-efficacy beliefs.
- 3. The voices of the practitioners and trainers.
- 4. The contextual factors that are important to have in mind when an in-service CB-PD program is implemented. The voice of the coordinators.



# Professional Development and Evidence-Based Practices in ECI: design of Capacity-Building Professional Development program

**Anna Balcells-Balcells**  
Ramon Llull University  
Barcelona, Spain

**Diana Nieto - Sobrino**  
Equipo Recrea  
Madrid, Spain

**Almudena Monteagudo-Montés**  
Fundación Montañés  
Valencia, Spain

# Purpose of the Presentation

1. Define the **theoretical framework** that supports the project.
2. Describe the **capacity-building professional development (CB-PD) program**.
3. Present the **protocol and tools** developed to assess the impact of the professional development program.
4. Provide details of the **participating centers** and the implementation **timeline**.

# Theoretical framework

The early childhood intervention research has put in great efforts into **identifying Evidence-Based Practices (EBP)**.

**There is a difficulty in EBP adoption** amongst field practitioners (Dempsey & Keen, 2017; European Association on Early Childhood Intervention, 2015; Gracia et al., 2020; Vilaseca et al., 2018).

Professional development, and more specifically, **capacity-building professional development** has been demonstrated as effective to facilitate the transfer of such practices to practitioners' daily practice (Dunst et al., 2019; Dunst et al., 2021; Erickson et al., 2017).



# Purpose of the research



To promote the adoption of three evidence-based practices (EBPs) by ECI practitioners through the **design, implementation, and evaluation** of a professional development program aimed at **building capacity** and **transferring** this knowledge into practitioner's daily practice.

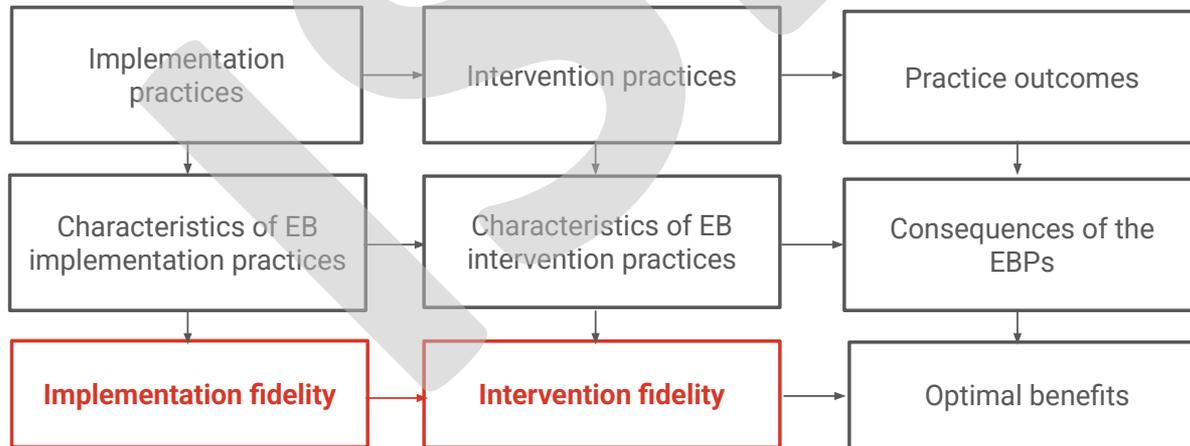
# Research objectives

- 01.** Analyze practitioners' evaluations of the CB-PD program, focusing on the three EBPs addressed and the **evaluation protocol and tools** developed to assess the transfer of these practices to practitioners' daily practice.
- 02.** Analyze the impact of participating in the CB-PD program on:
  - (a) practitioners' **self-efficacy beliefs** (competence and professional confidence), and
  - (b) the **social validity** they attribute to the EBPs in E (perceived importance and acceptance).
- 03.** Determine how **fidelity** in the use of the CB-PD program by trainers relates to **fidelity** in the use of EBPs by professionals in their work context.
- 04.** Examine the relationships between the variables:
  - (a) **fidelity** in the use of the **CB-PD program**,
  - (b) **fidelity** in the use of **EBPs** by practitioners' daily practice, and
  - (c) practitioners' **self-efficacy beliefs** and the **social validity** of the EBPs addressed in the program.

# Theoretical framework

**The science of implementation** focuses on understanding the processes, procedures, and conditions that promote the **transfer, adoption, and use** of **EBPs** by practitioners (e.g., ECI practitioners) in typical, everyday settings (Kelly & Perkins, 2012).

Framework for showing the relationships between the fidelity of evidence-based implementation and intervention practices and the outcomes and consequences of the practices (Dunst et al., 2013)



# Theoretical framework

**EBP in Early  
Childhood  
Intervention**

M1. Family-centered  
practices (FCP)

M2. Authentic Child  
Assessment (ACA)

M3. Naturalist  
intervention (NI)

**EBP in Adult  
learning**

Mastery

Feedback-  
Reflection

Introduction  
Demonstration

Practice-  
Self-reflection



TRANSFER TO THE PROFESSIONAL CONTEXT



# CB-PD program

Structure of the CB-PD program Module 1 (PCF), M2 (ACA) y M3 (IN) (16 weeks x module)

INTRODUCTION  
DEMONSTRATION



PRACTICE &  
SELF-REFLECTION



FEEDBACK &  
REFLECTION



GENERALITZATION



M0

1 in-site  
session  
5 h

Weeks 1 & 2

2 synchronous training  
sessions of 2 h

Weeks 3-12

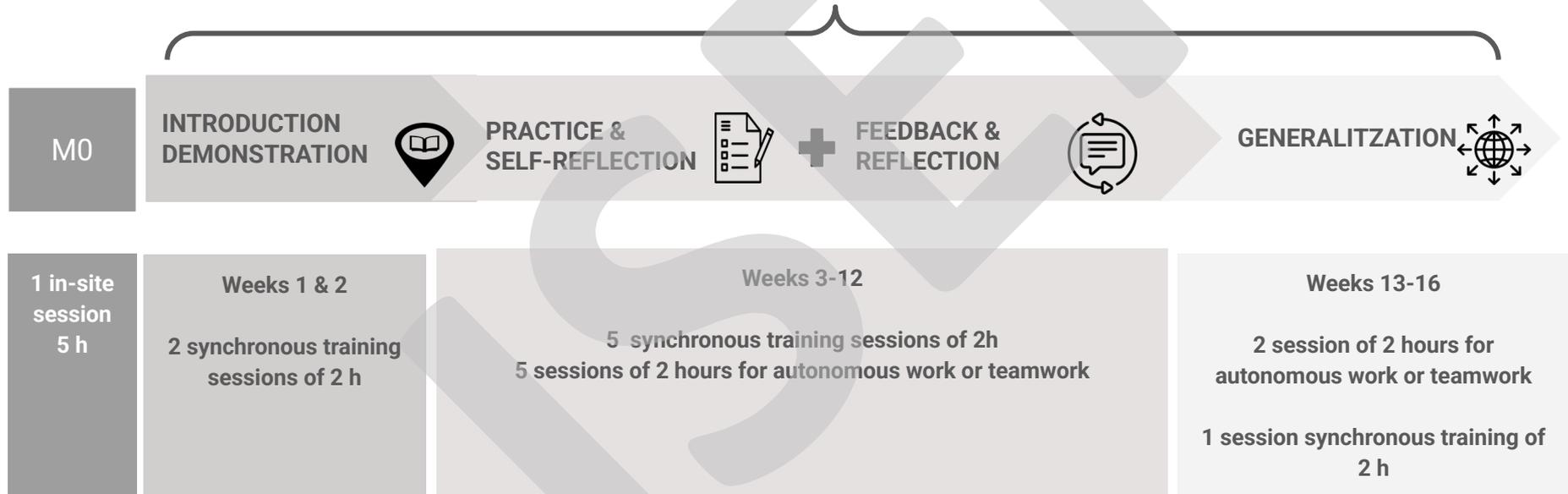
5 synchronous training sessions of 2h  
5 sessions of 2 hours for autonomous work or teamwork

Weeks 13-16

2 session of 2 hours for  
autonomous work or teamwork  
  
1 session synchronous training of  
2 h

# CB-PD program

Structure of the CB-PD program Module 1 (PCF), M2 (ACA) y M3 (IN) (16 weeks x module)



Early Childhood Personnel Center

# CB-PD program

## THEORETICAL & GUIDED EXPLANATION:

- Reflective practice
- Literary resources (**The Hero's Journey**)
- Group activities
- "TIPS" to recognise **PCF/ACA/NI**
- Guide for awareness and implementation
- **Tell a story**
- Examples real practices
- PPT guide **PCF/ACA/NI**
- Coaching
- Constructive/informative feedback

## DOCUMENTARY SUPPORT:

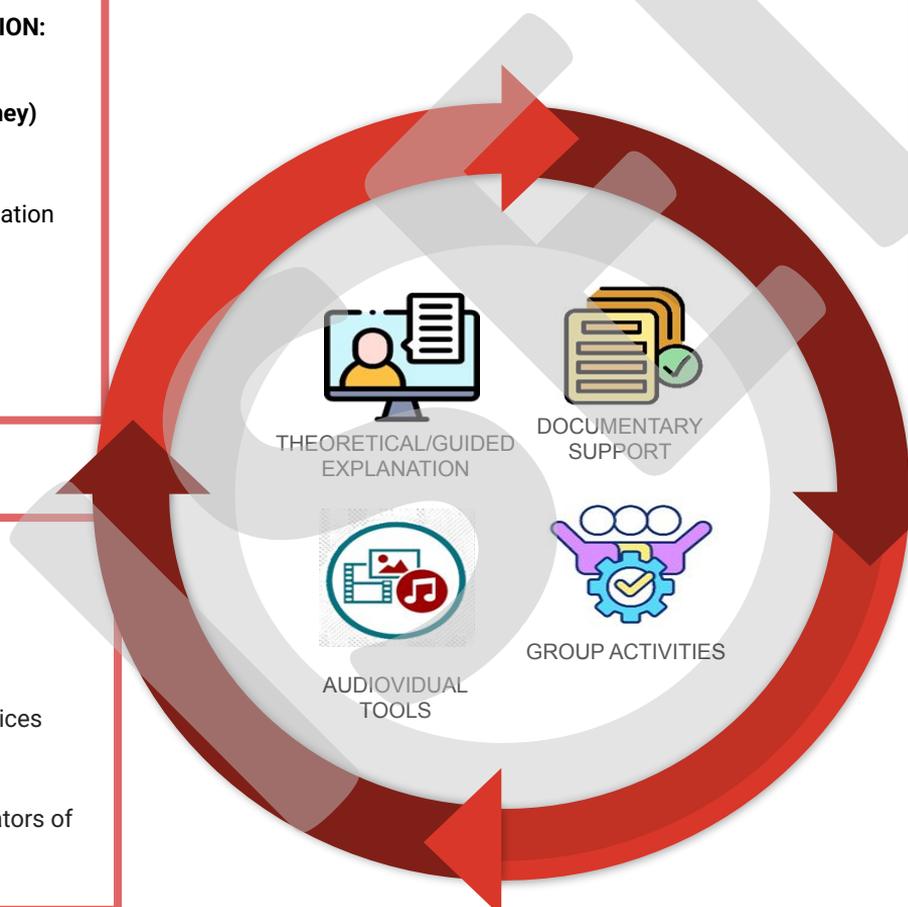
- PPT support **PCF/ACA/NI**
- Supplementary material
- Professional performance questionnaire (self-reflection)
- Table and templates
  - Template first impressions
  - Table indicators self-reflections
- Template for generalisation work
- Literature evidence and references

## AUDIOVISUAL TOOLS:

- SITE (web space)
- PPT (**PCF/ACA/NI**)
- Real-case-based training videos
- Videos of team processes and practices
- Audios (case conversations)
- Transcriptions of conversations
- Participants' video recordings (indicators of **PCF/ACA/NI**)
- Video generalisation participants

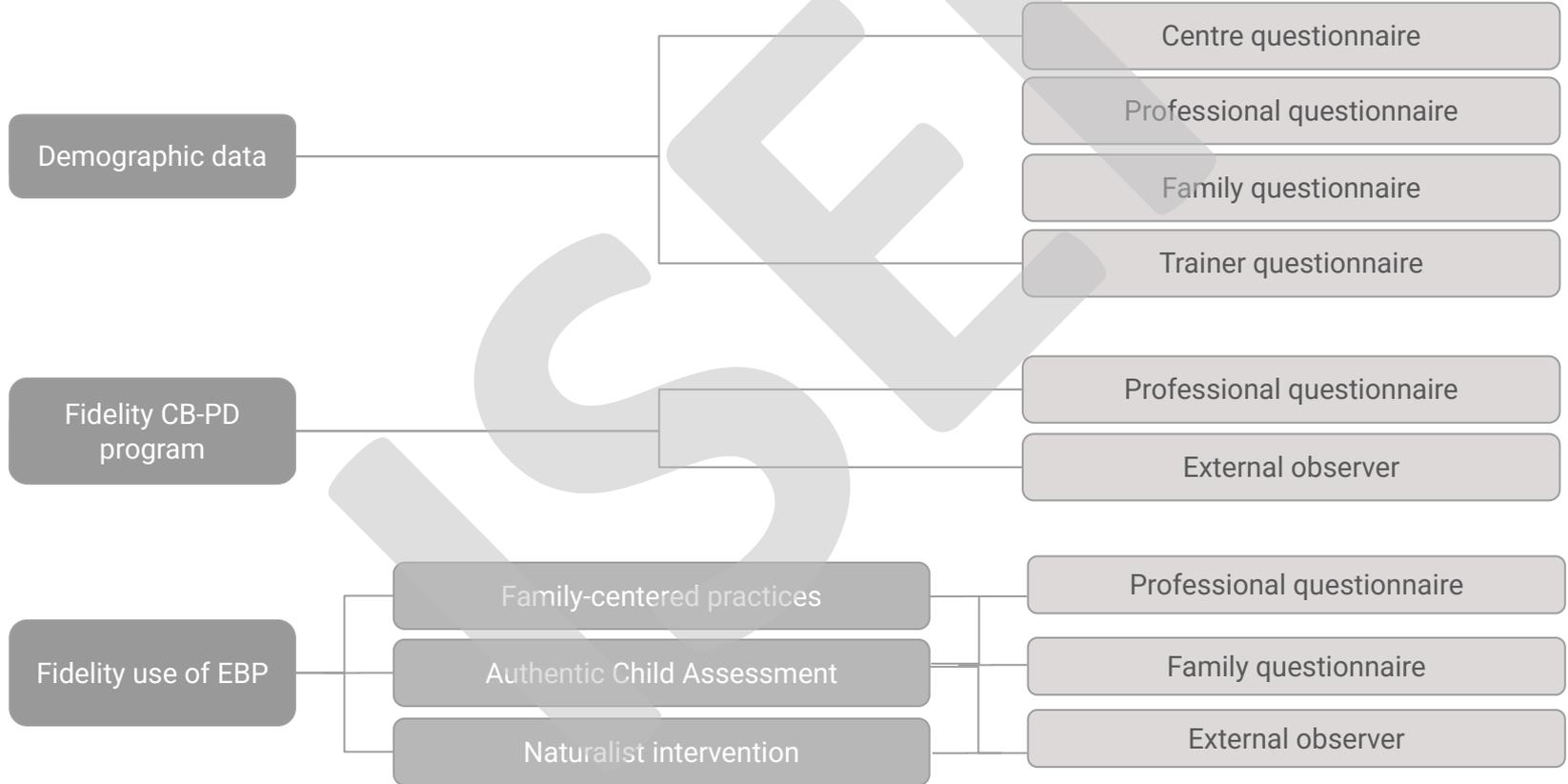
## GROUP ACTIVITIES:

- Reflective practices
- Representations/dramatisations
- Self-reflection indicators
- Inter-team debates
- Inter-team feedback videos
- Visualization and analysis of real-practice videos
- Group analysis of improvement opportunities of peers
- Role-playing
- Peer learning/support



# Research Protocol: Variables and tools

Variables and tools

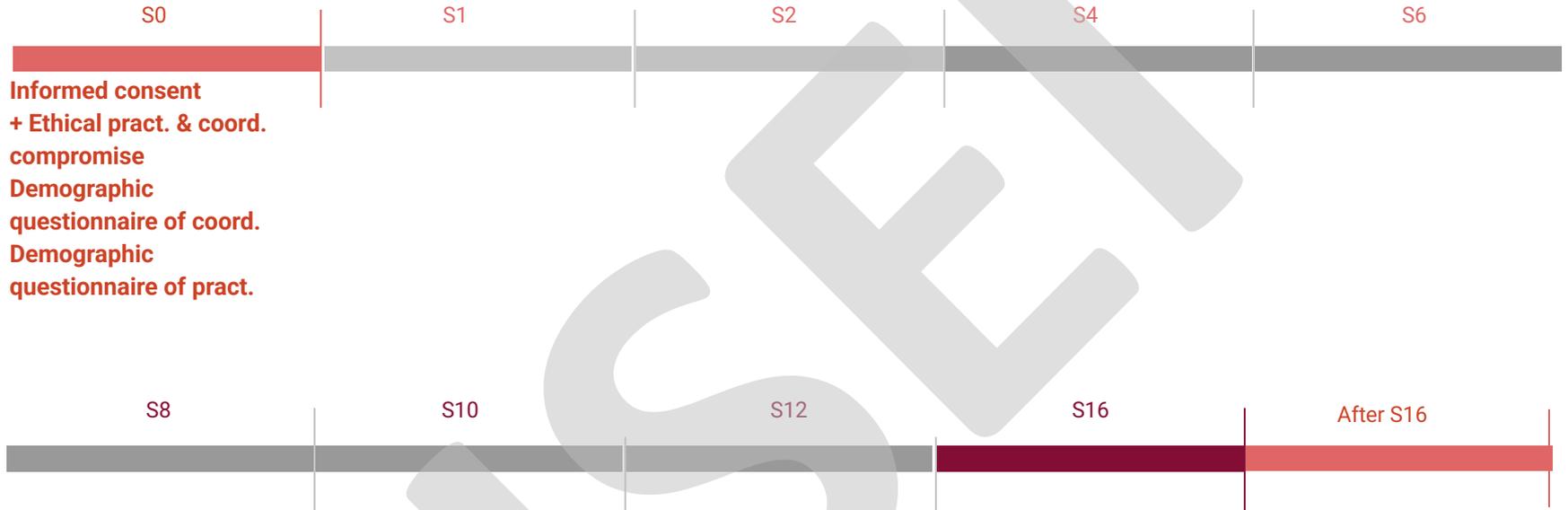


# Research Protocol: Variables and tools

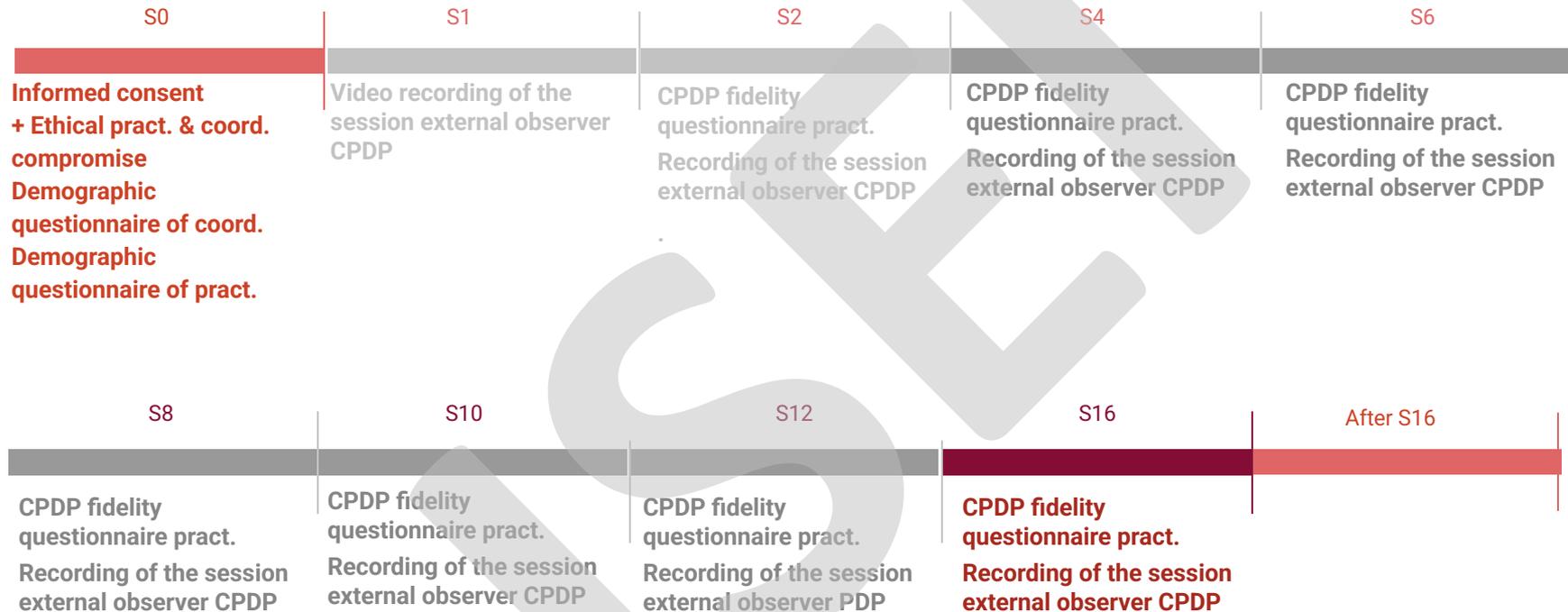
Variables and tools



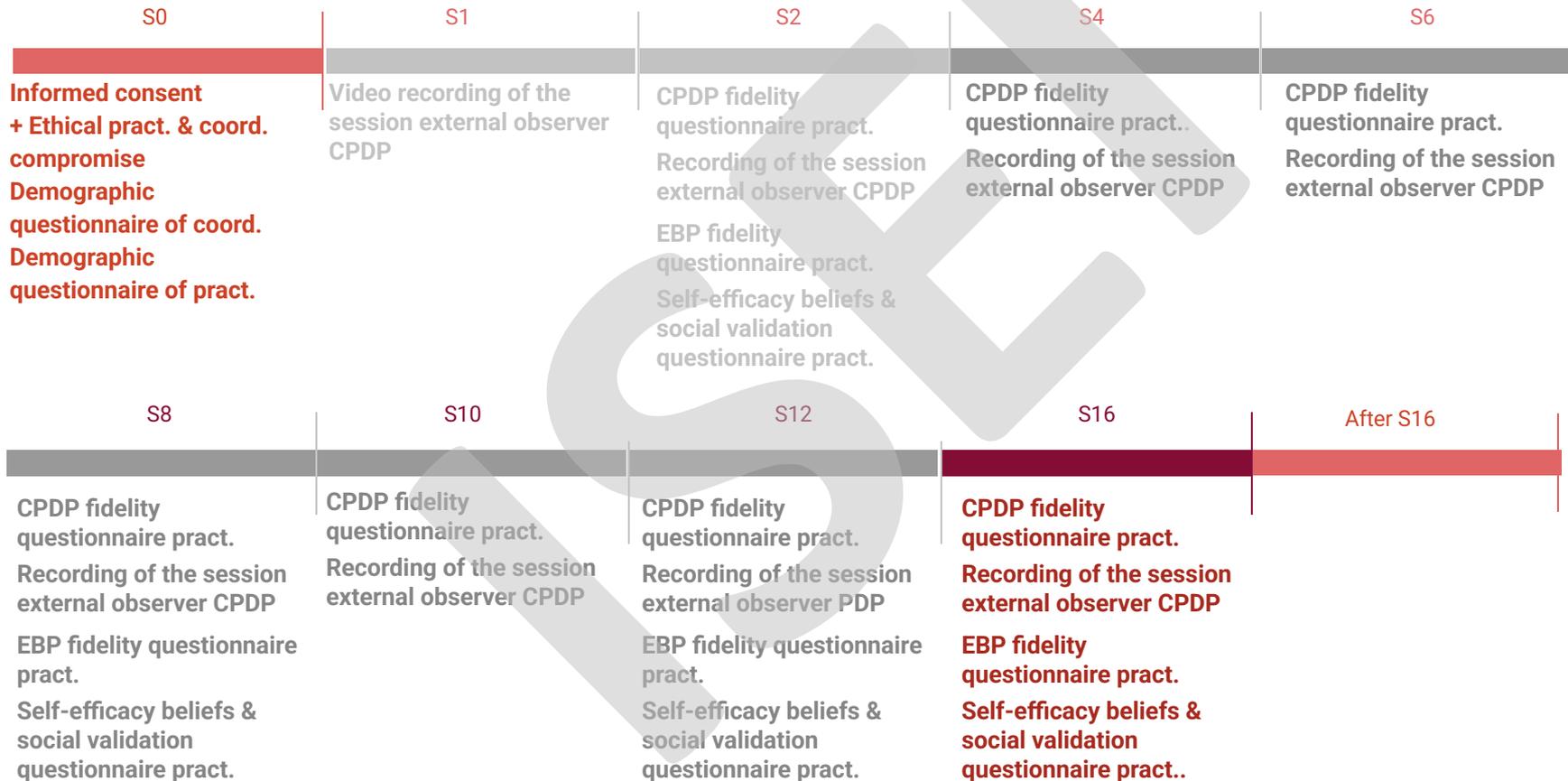
# Research Protocol: Procedure of collecting data



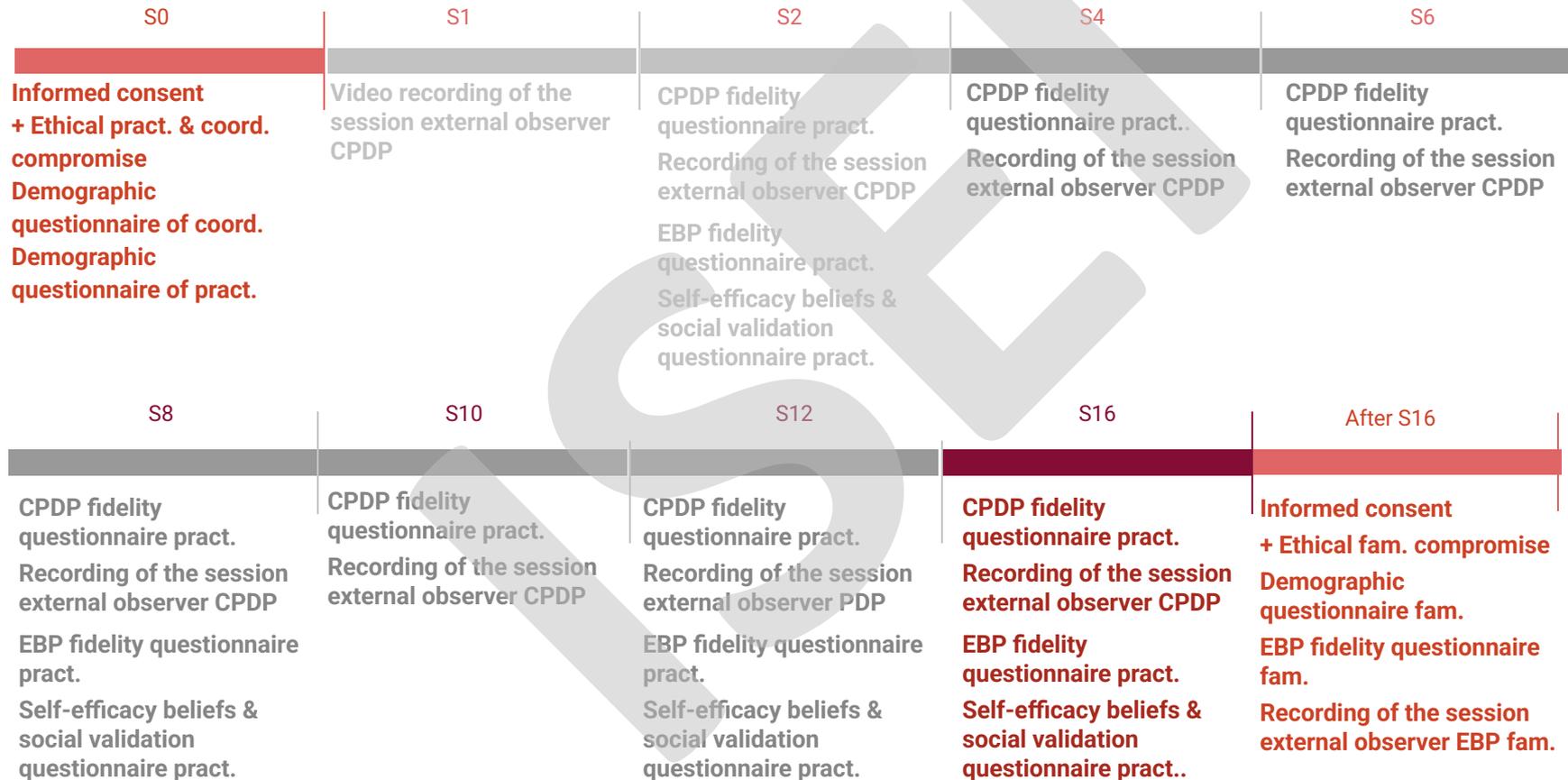
# Research Protocol: Procedure of collecting data



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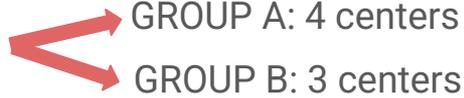
Discussion groups with the  
CDIATs' **practioners**  
participants



Discussion groups with the  
CDIATs' **coordinator**  
participants

# Implementation

7 ECI centers



Data collection from:

- All ECI practitioners
- Families
- Training team

avapace  
asociación valenciana de ayuda a la parálisis cerebral

DOWN  
Toledo

Esment  
Amadip Esment Fundació

aspana  
ASOCIACIÓN PROFESIONALES CON DISCAPACIDAD

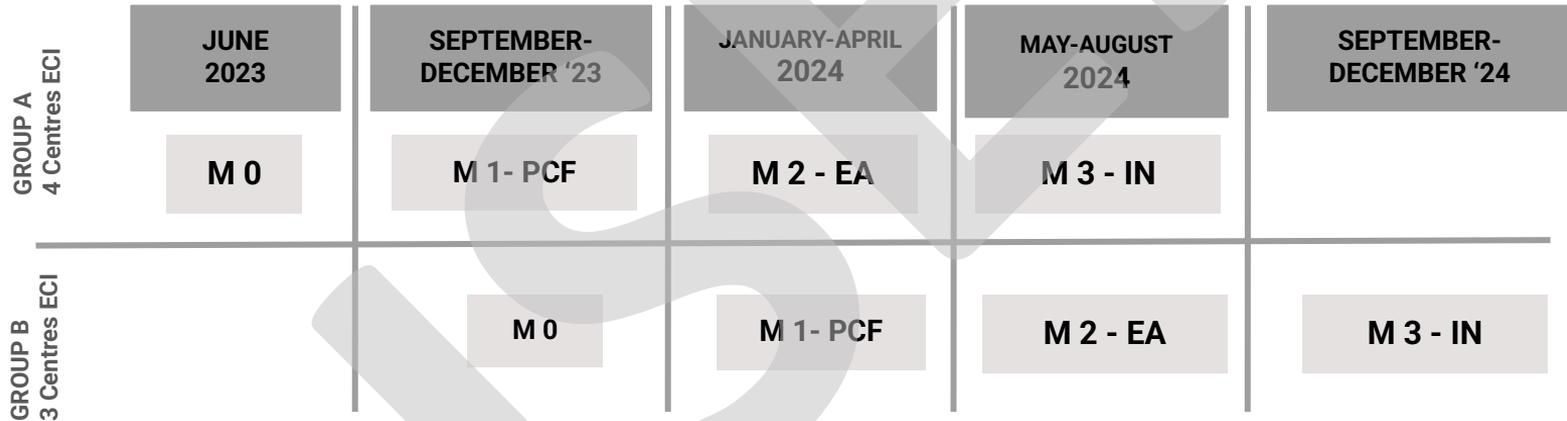
includes  
Almendralejo

ASPRODIQ  
COMUNITAT DE L'ORRI

ADIS LAN  
Asociación de personas con discapacidad de Lanzarote

# Implementation

The implementation timeline of the 3 modules of the CB-DP program



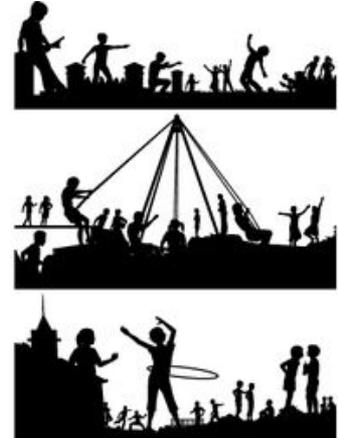
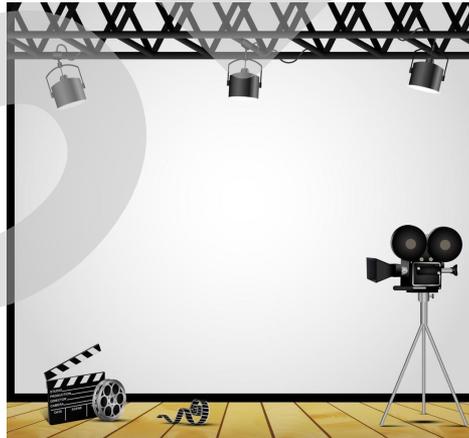
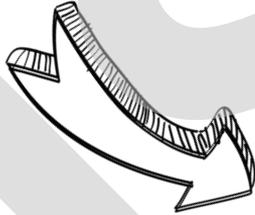
# Considerations

The **programs of CB-DP** has been designed with the aim to facilitate the understanding between the **processes, procedures and conditions** that entail the implementation of the three EBP so that every team can apply and adjust it to their own practice.

Family-centered  
practices

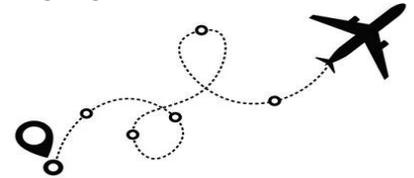
Authentic child  
assessment

Naturalist intervention



# Schedule for the symposium

- 1. The design of Capacity-Building Professional Development program.
- 2. **The effects of in-service CB training on practitioners' use of EBP and self-efficacy beliefs.**
- 3. The voices of the practitioners and trainers.
- 4. The contextual factors that are important to have in mind when an in-service CB-PD program is implemented. The voice of the coordinators.



# Effects of Capacity-Building Professional Development on Practitioners' Self-Efficacy Beliefs and Reported Use of Family-Centered Practices

**Carl J. Dunst**  
Orelena Hawks Puckett Institute  
Asheville, North Carolina, USA

**Joana M. Mas**  
Ramon Llull University  
Barcelona, Spain

**Simon Garcia-Ventura**  
University Abat Oliba  
Barcelona, Spain

# Purpose of the Presentation

- Describe the procedure for evaluating the effects of the capacity-building professional development practices on the early childhood intervention practitioners' self-efficacy beliefs and reported use of family-centered practices
- Describe preliminary results from a path analysis of (a) factors influencing early childhood intervention practitioners' judgments of professional development specialist fidelity of use of capacity-building professional development practices and (b) the effects of fidelity of professional development specialists' use of professional development practices on practitioners' self-efficacy beliefs and reported use of family-centered practices

# Purpose of the Presentation

Participant Characteristics	N	Mean	SD	Range
Gender (Percent Female)	35	91	-	-
Age (Years)	35	36.00	6.03	24-48
Years of Education	35	15.06	2.57	12-18
Years of ECI Experience	35	7.27	5.79	3-26

# Practitioner Study Measures

Measures	No. of Items	Item Examples
Practitioner readiness to learn family-centered practices	3	I am willing to find the time to participate in family-centered practices professional development
Practitioner social validity judgments	6	Working in partnership with families is important to me
Professional development (PD) specialist fidelity of use of the capacity-building PD practices	14	Professional development specialist engages practitioners in “real life” learning opportunities
Practitioner confidence and competence self-efficacy beliefs	6	I am able to promote parents’ use of family strengths to improve parent-child interactions
Practitioner reported use of family-centered practices	12	I provide parents with complete and unbiased information for them to make informed decisions

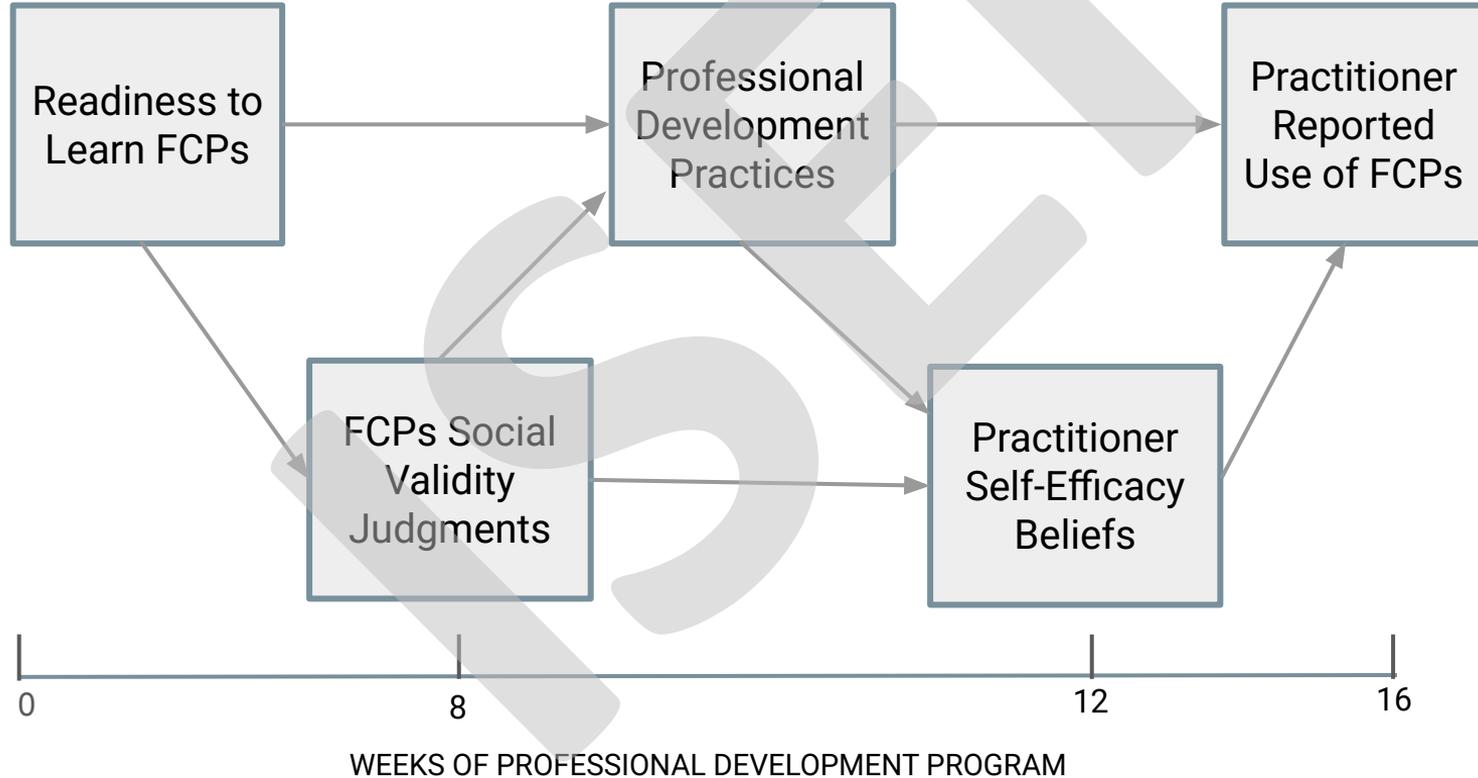
# Hypotheses

- Practitioner readiness to learn family-centered practices and their social validity judgments of the importance and acceptability of family-centered practices will be related to practitioners' ratings of professional development specialists' fidelity of use of capacity-building professional development practices
- Social validity judgments of family-centered practices and professional development specialists' use of capacity-building professional development practices will be related to practitioners' self-efficacy beliefs
- Professional development specialists' use of capacity-building professional development practices and practitioners' self-efficacy beliefs will be related to practitioners' reported use of family-centered practices

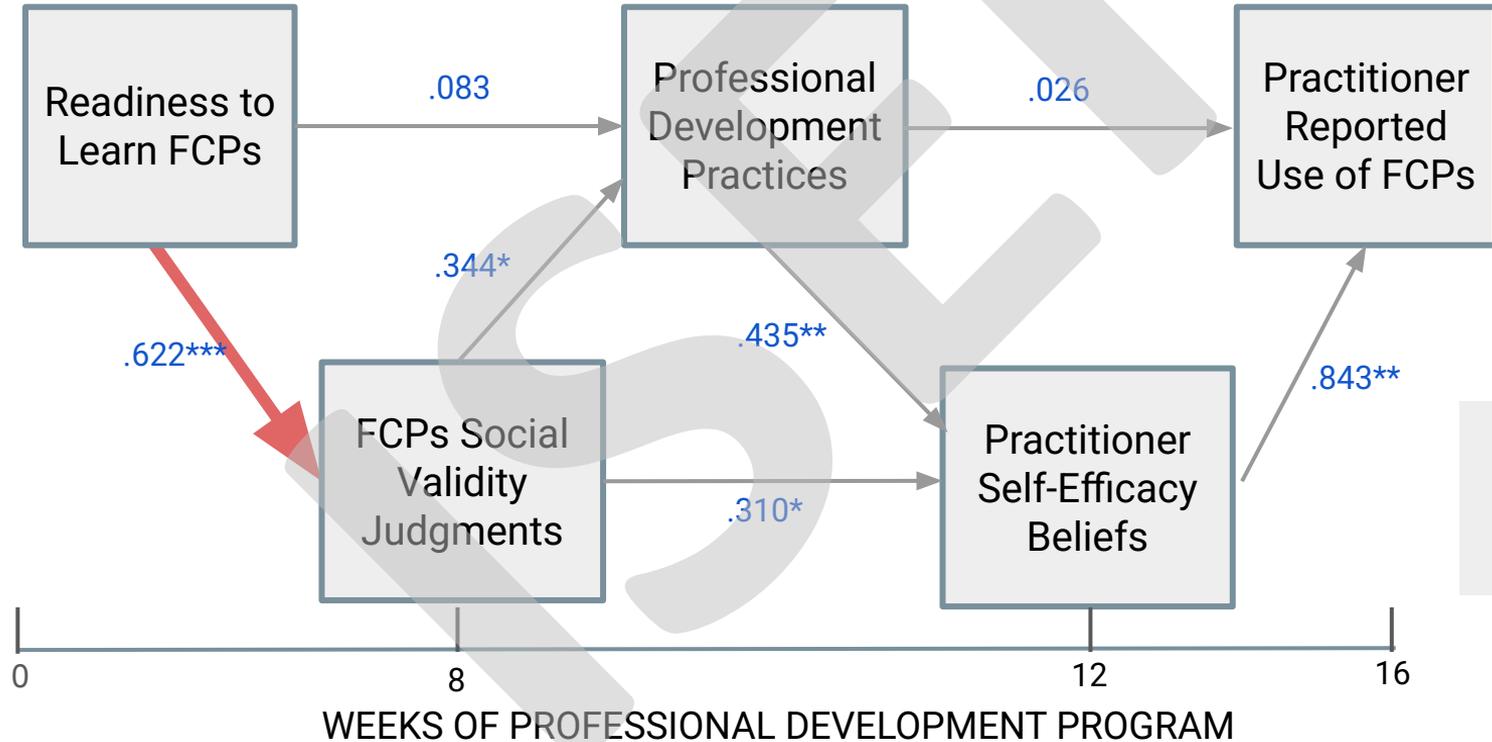
# Method of Analysis

- Exploratory path analysis was used to determine if the hypothesized relationships between the study measures were consistent with the pattern of results among the study measures
- Path analysis is a methodological procedure for tracing the relationships between antecedent (predictor) measures and the expected consequences (outcomes) of those measures

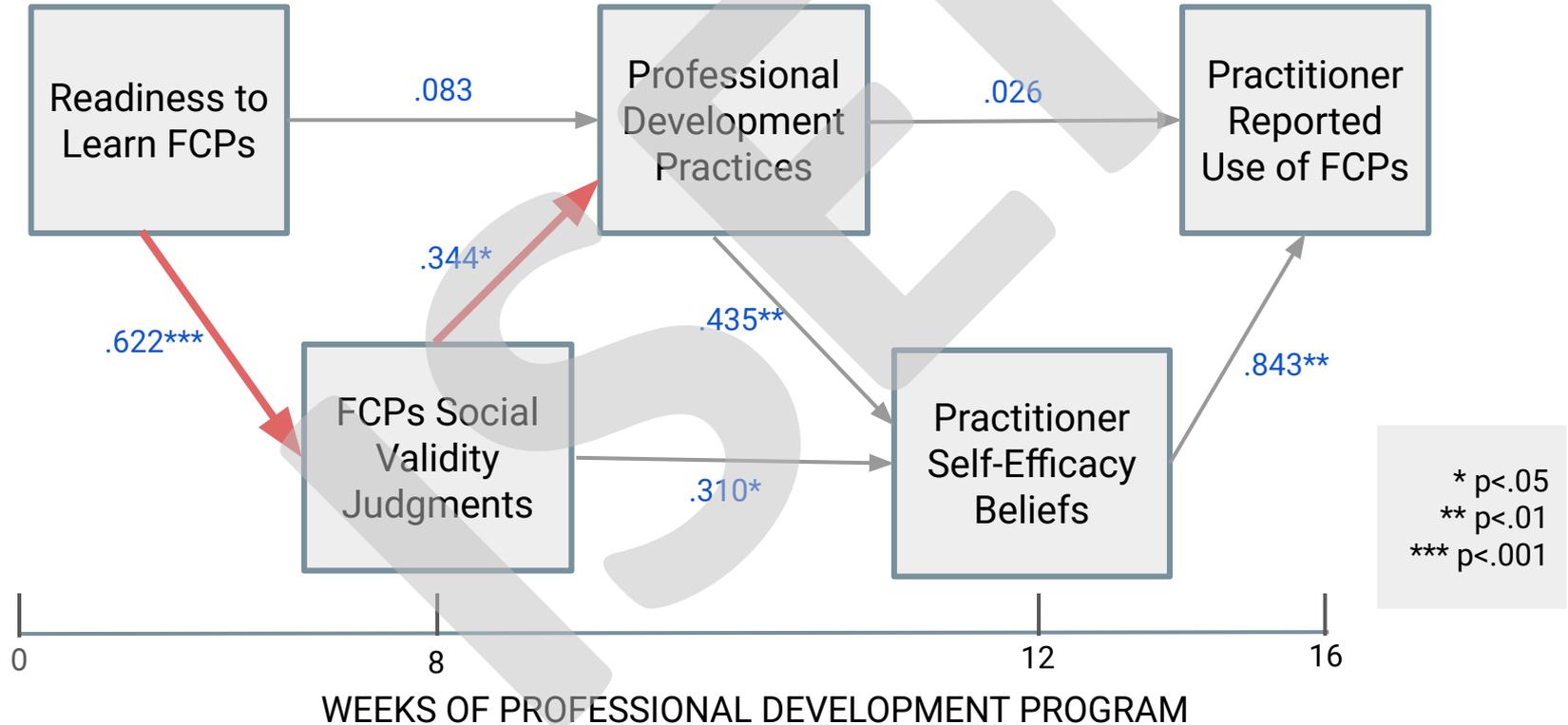
# Exploratory Path Analysis Model



## Path Coefficient for the Relationship Between Readiness to Learn and Practitioners' Social Validity Judgments



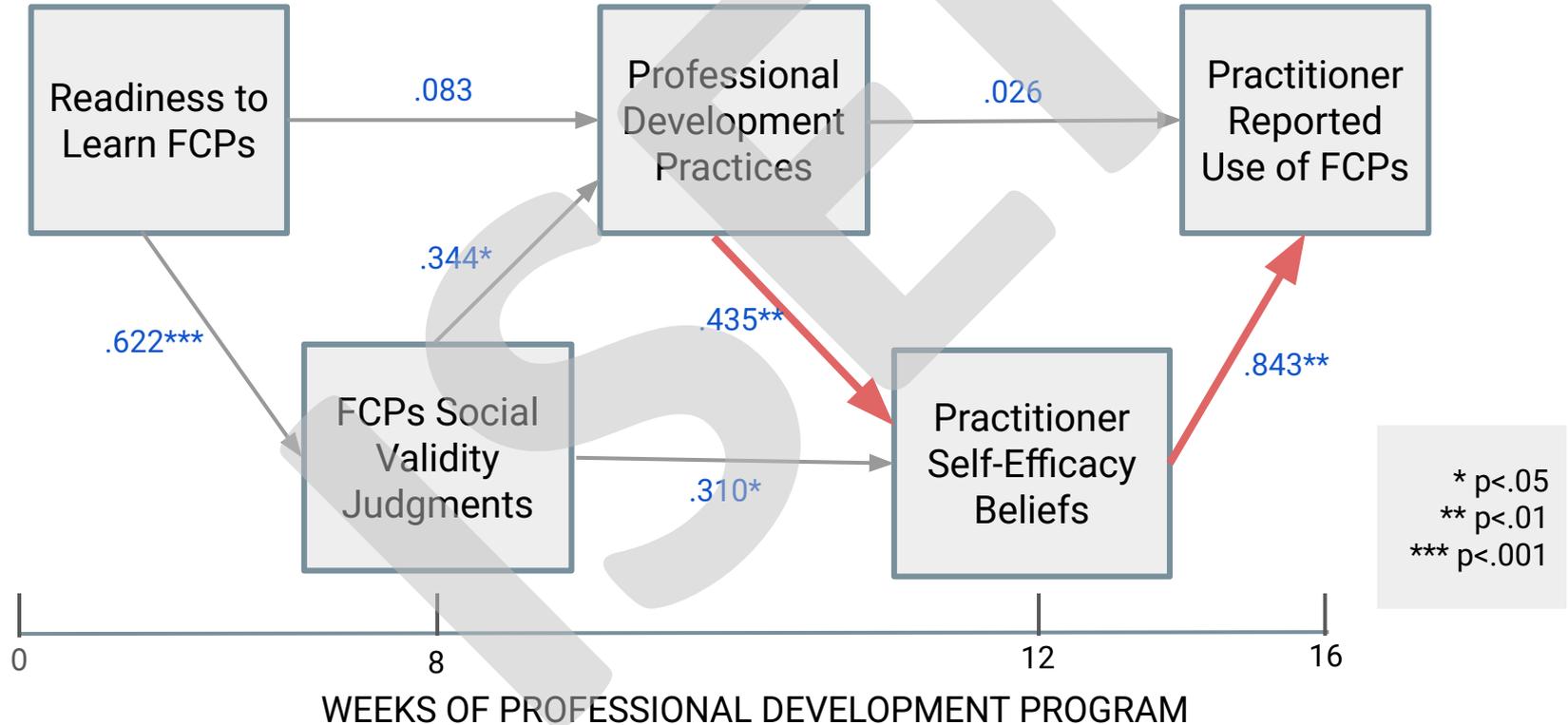
## Path Coefficients for the Relationships Between Practitioner Readiness to Learn, Practitioner Social Validity Judgments, and the Professional Development Practices



## Path Coefficients for the Relationships Between Practitioner Readiness to Learn, Practitioner Social Validity Judgments, and the Professional Development Practices



## Path Coefficients for the Relationships Between Practitioner Readiness to Learn, Practitioner Social Validity Judgments, and the Professional Development Practices



## Path Coefficients for the Relationships Between Practitioner Readiness to Learn, Practitioner Social Validity Judgments, and the Professional Development Practices



# Summary of the Direct Effect Results

- Practitioners' readiness to learn family-centered practices is **directly** related to the practitioners' judgments of the importance and acceptability of family-centered practices
- Practitioners' social validity judgements of family-centered practices are **directly** related to both (a) professional development specialists' reported use of the capacity-building professional development practices (fidelity) and (b) practitioners' family-centered practices self-efficacy beliefs
- Practitioners' family-centered practices self-efficacy beliefs are **directly** related to the practitioners' reported use of family-centered practices

# Summary of the Indirect (Mediated) Effect Results

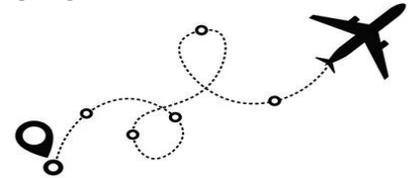
- Practitioners' readiness to learn family-centered practices is **indirectly** related to the capacity-building professional development practices **mediated** by both the practitioners' social validity judgments of the importance and acceptability of family-centered practices
- Practitioners' social validity judgements of family-centered practices is **indirectly** related to practitioners' self-efficacy beliefs **mediated** by the use of capacity-building professional development practices
- Professional development specialists' use of the capacity-building professional development practices is **indirectly** related to the practitioners' reported use of family-centered practices **mediated** by practitioners' self-efficacy beliefs

# Take Away Findings

- The effects of capacity-building professional development practices on practitioners' adoption and use of family-centered practices is related to how professional development specialists deliver professional development and practitioners' beliefs about and preparedness to learn family-centered practices
- You can offer early childhood intervention practitioners the opportunity to learn to use family-centered practices, but you cannot force them to learn to use family-centered practices unless they consider the practices worth their time and effort (readiness to learn)

# Schedule for the symposium

- 1. The design of Capacity-Building Professional Development program.
- 2. The effects of in-service CB training on practitioners' use of EBP and self-efficacy beliefs.
- **3. The voices of the practitioners and trainers.**
- 4. The contextual factors that are important to have in mind when an in-service CB-PD program is implemented. The voice of the coordinators.



# Analysis of Capacity-Building Professional Development program: The voices of the practitioners and trainers.

# Who we are: more than two voices

RIGHTS



SUPPORT



OPPORTUNITIES



Canary Islands



INCLUSION



Anuska González Umpiérrez  
Director of the early intervention center  
Adislan, Lanzarote, Spain

Cristina Díaz Sánchez  
Project member (trainer)  
Clariane, Spain

# Purpose of the Presentation



1. To **explore the perception** of participation in the professional development program from the point of view of the participants (Practitioners) and the trainers.
1. To obtain a **deep understanding of their experience.**

# Methods of analysis

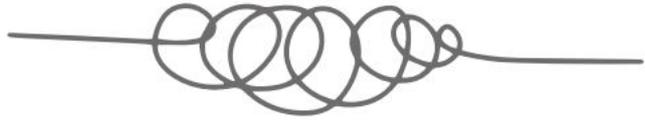
The perceptions of Practitioners and trainers are collected through reflective questions focused on:

- The relevant aspects and their impact.
- The identification of challenges and opportunities.

**-Closing session of the program.**  
**-Focus groups**  
**-Reflection spaces**

*Story telling methodology*

# Early Childhood Intervention and Professional Development. Bridging the gap between Research and Practice (ECI-PD)



**Learning based on relationships and self-reflection:**

- open mind
- open heart
- open will

**Practitioner**

**Family**



**Trainers**

# Table of contents

## WE ARE THE SAME, BUT WE ARE DIFFERENT: THE PRATITIONERS METAMORPHOSIS

1. The Chrysalis
2. The beginning of the transformation
3. The turning point
4. Re-Discovering essence
5. Team transformation
6. Family impact
7. The butterfly's fly



“ When a caterpillar begins its metamorphosis into a chrysalis, it doesn't do so because it doesn't know who it is - it does so because it senses who it might become ”



**The chrysalis**



# The chrysalis

## OUR INITIAL THOUGHTS:



**Would we have the real time  
needed to commit ?**

**Did we have the resources ?**

**Were we prepared to expose  
ourselves ?**

# The chrysalis



UNIVERSITAT  
**RAMON  
LLULL**

ADIS  
**LAN**   
Asociación de personas con  
discapacidad de Lanzarote



# The chrysalis

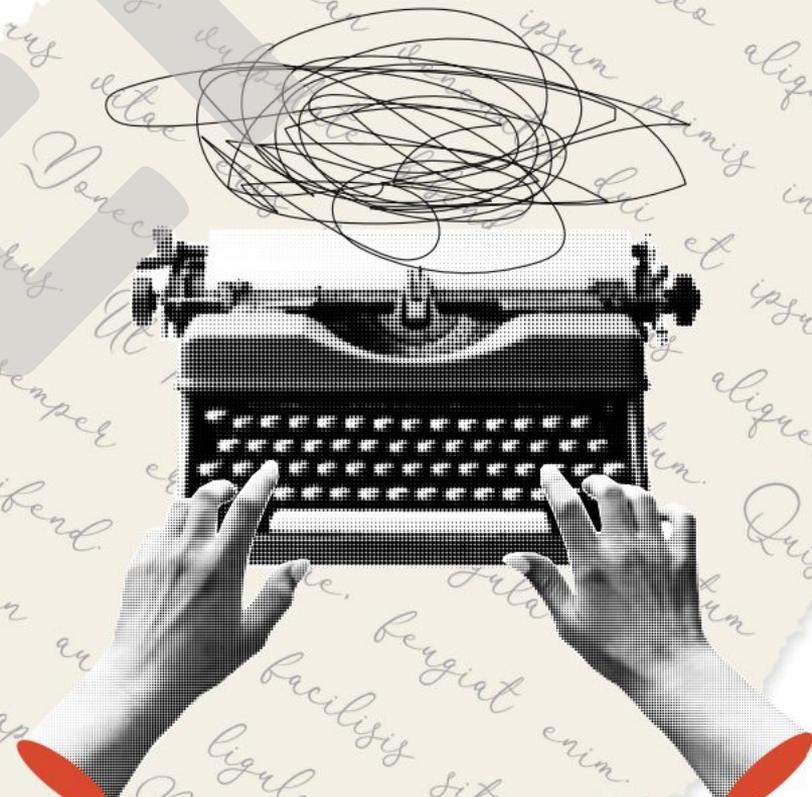


# The in-person meeting

- Key concepts
- Working session on the history of early intervention services and their Practitioners
- Identification of strengths and challenges



**The face-to-face meeting is an opportunity to establish a connexion point .**



# The beginning of the transformation



**Family-centered practices**

# Family-centered practices

## WHAT WE EXPERIENCED:



**Coherency**

**Presence**



**Consistency**

**Perspective**



**True selves**

**Internal shift**



**Deep process**

**Detachment exercise**



# **The turning point**

## **Authentic Child Assessment Practices**



# Authentic Child Assessment Practices

## WHAT ENABLED THIS CHANGE?

A **flexible methodology** that adapted to our team

**Permission to pause, question or take a step back** when needed

**Varied practices:** recordings, role play, studying external examples

**Respectful approach**



## The turning point

**From the trainers' perspective, there is also a change:**

- Listening more deeply to the needs of professionals.
- Releasing control over online sessions.
- Co-creating learning

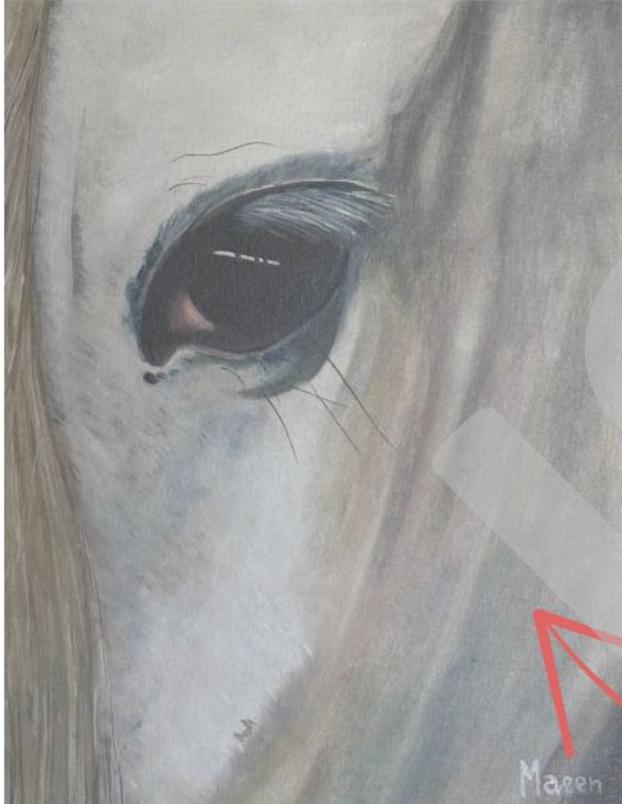


**Re-Discovering essence**

**Naturalistic Intervention**



# Naturalistic Intervention



**OPENNESS**

**AWARENESS**

**CALM**

**FLEXIBILITY**

**PRESENCE**

**SENSITIVITY**

**CURIOSITY**

**TRUST**

**CONNECTION**

**FLOW**

**SOFT EYES**

A close-up photograph of a person's hands holding a small amount of sand. The hands are positioned in the upper left quadrant of the frame. The background is a soft-focus beach scene at sunset or sunrise, with the ocean and a sandy shore visible. A large, semi-transparent watermark with the letters 'SEI' is overlaid diagonally across the center of the image.

Joint planning of meetings improves Practitioners' self-perception of competence and social validation:

- Increases variety in the use of illustration-demonstration strategies.
- It increases Practitioners' participation time during meetings.
- It reduces trainers' intervention time.
- Professionals practice peer feedback during and between meetings.

The background of the slide is a dense, repeating pattern of pink butterflies. Each butterfly is rendered in a soft, pastel pink color with dark green outlines and veins. They are scattered across the entire frame, creating a textured and vibrant backdrop. In the center, there is a semi-transparent white rectangular box containing the main text.

# **Summary of Results**

# **Team transformation**

# Team transformation

“ WE ARE THE SAME, BUT  
WE ARE DIFFERENT ”



We **believe** in ourselves and in our purpose

We base our decisions on **technical expertise** and flexibility

We consciously **adjust our interventions**

We know **we are a team**

**Every moment matters**

In the **natural** lies the essential

# Family impact



# Family impact

**"I feel I´m the real expert on my child"**

**"We feel deeply empowered"**

**"It´s not about what he can´t do  
it´s what we can help him achieve"**

**"This changed us as a family"**

**"I feel calmer and stronger, because I know"**



# The butterfly's fly



# What made this programme a success?

Be **adapted to each team's pace and context**



Include **diverse methods:** recordings, role play, external case studies...



Value what's already working well

Provide **safe spaces** for reflection and joint learning



Feature at least an **initial in-person session**, ideally a closing gathering too, to build trust



Promote a guiding presence, not a directive one



**The butterfly's fly**



ISEI

Contextual factors to have in mind  
when implementing an in service CB PD program.  
The voice of the coordinators.

Alejandro Arrillaga  
Villanueva International  
University  
Madrid, Spain

Alba Ibáñez-García  
University of Cantabria  
Santander, Spain

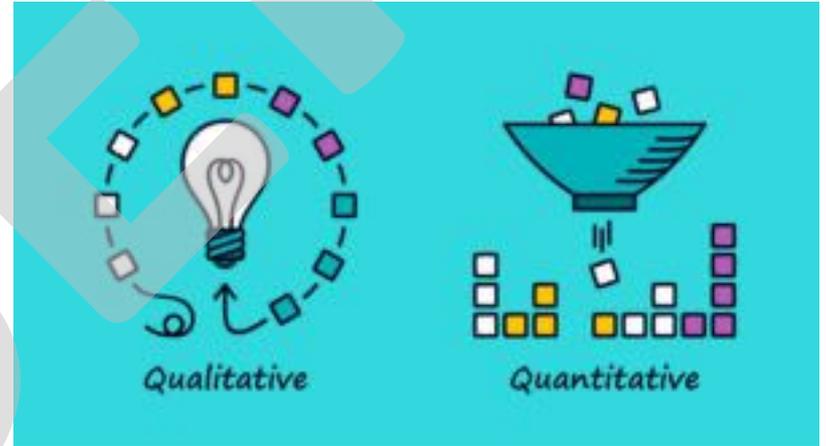
Anthoula Delimarou  
Ramon Llull University  
Barcelona, Spain

# Purposes of the Presentation 4

1. Justify the importance of evaluating the design of a professional development training program.
2. Describe the qualitative method for evaluating such a design.
3. Based on a discussion group with participating coordinators, explore the contextual factors that are important to have in mind when an in-service CB-PD program is implemented.

# Why evaluating professional development training program? Why use qualitative method for it?

The **evaluation of professional development programmes is essential**, to ensure that the skills acquired during training are effectively reflected in the professional team's practice and have the expected social impact.



Although quantitative methods can provide an overview of some variables, they fail to **capture the richness of individual experiences**.

# What qualitative method was chosen for our study?

## Focus group → Thematic Analysis

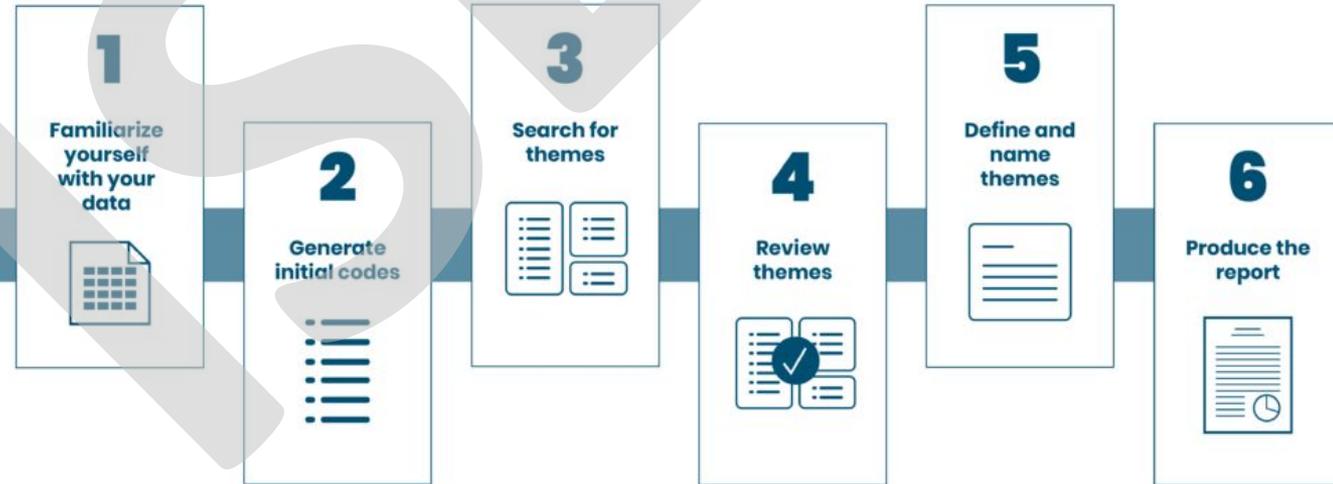
(Braun & Clarke, 2006, 2022)



### PARTICIPANTS:

- 7 services' coordinators
- Gender: 100% Females

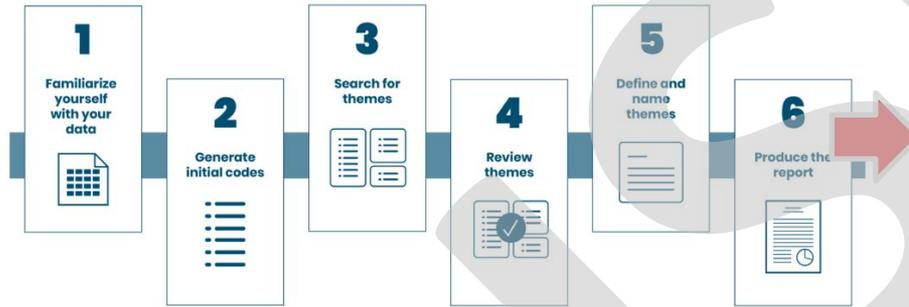
## Phases of thematic analysis



# What qualitative method was chosen for our study?

## Thematic Analysis

### Phases of thematic analysis



*1- Emotional and professional impact of the programme on participants*

*2- Adapting training design to learning needs and pace*

*3- Methodological strategies and teaching resources: strengths and areas for improvement*

*4- Changes in professional practice resulting from training*

*5- Diversity of backgrounds and levels of involvement in the training process*

***6- Contextual factors that influence programme participation and sustainability***

# Why Contextual Factors Matter?

## Thematic Analysis

(Braun y Clarke, 2006, 2022)

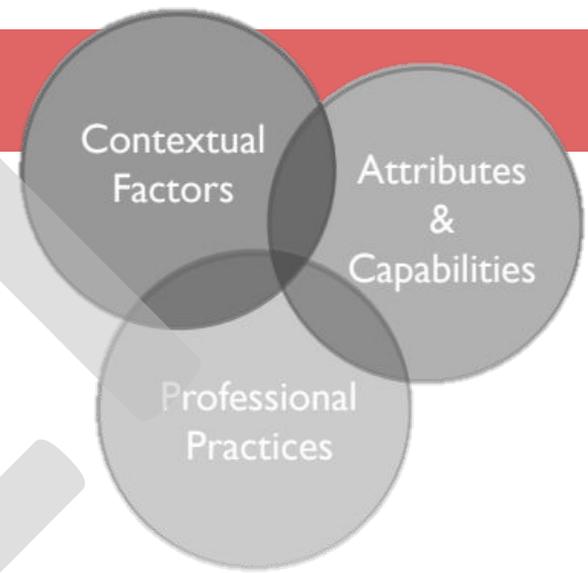
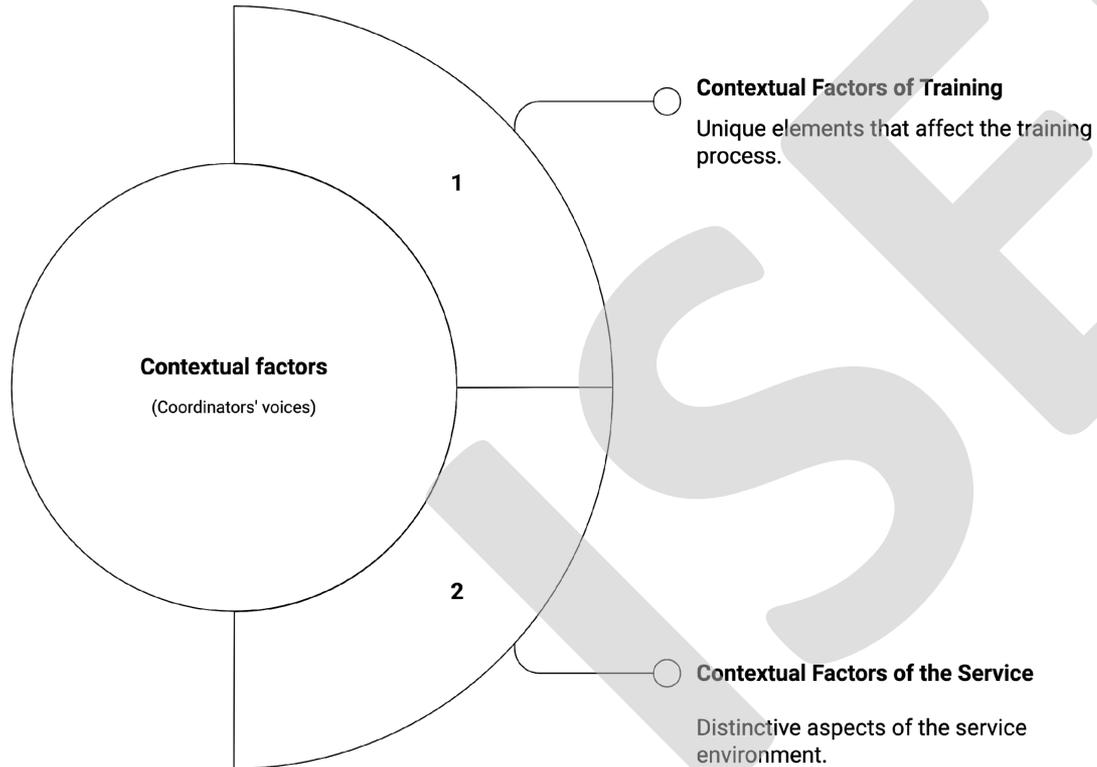


Figure 2.1: Quality teaching domains

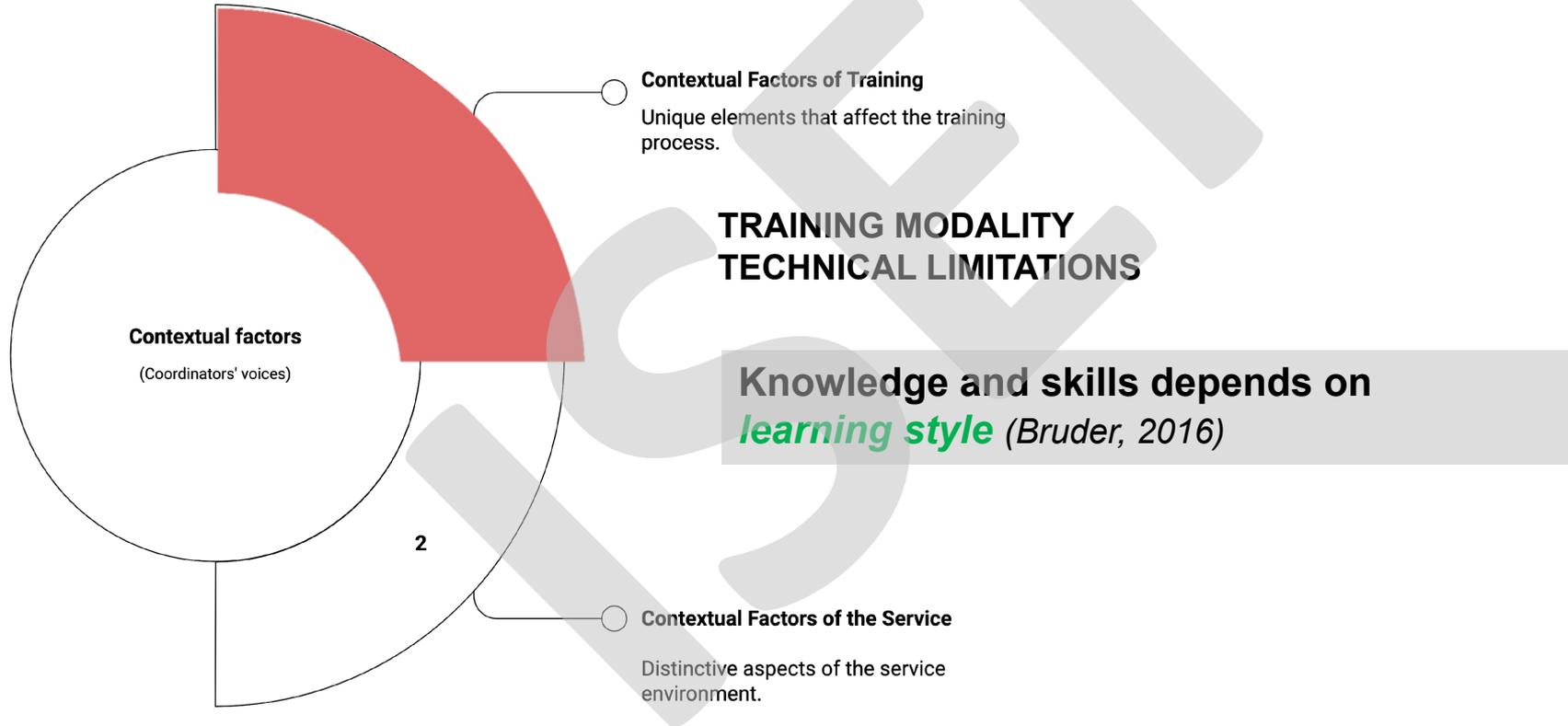
Gemmink et al., (2021)

Contextual factors are **external and internal conditions** surrounding the training environment that **influence educational processes and outcomes**.

# Results



# Results



## TRAINING MODALITY

**‘...the first session was impressive because it was face-to-face...’**

‘...you missed that first session and, as my colleague says, we did miss having more face-to-face sessions...’

## TECHNICAL LIMITATIONS

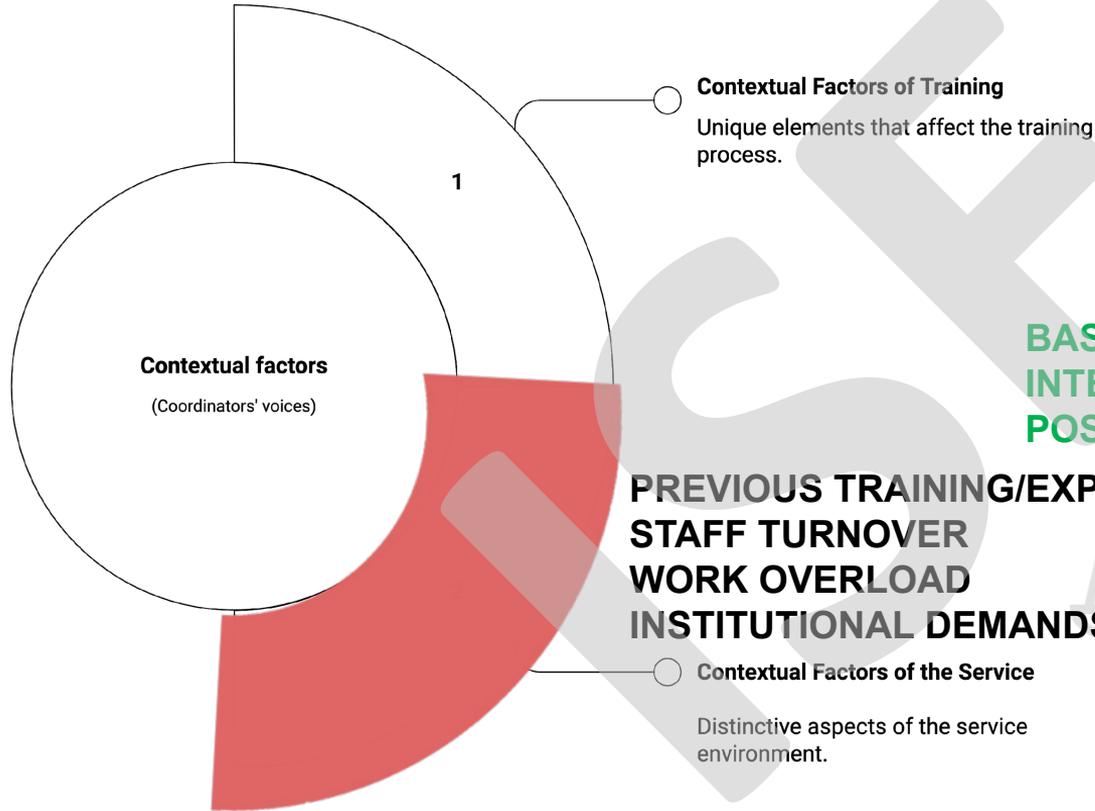
**‘...we have had connection issues, we needed to find different spaces to try to be heard properly...’**



## Face-to-face Session 0



# Results



**BASIC MATERIAL FOR NEW PROFESSIONALS**  
**INTER-CENTRE SPACES FOR REFLECTION**  
**POST-TRAINING FOLLOW-UP**

## PREVIOUS TRAINING/EXPERIENCE

‘...it's a training course that requires prior knowledge and experience to truly take maximum advantage from it...’

**‘...I think it has been much more fruitful for colleagues who already have a few years of experience...’**

**Knowledge and skills depends on**  
*learning background* (Bruder, 2016)

# Knowledge and skills depends on *formal learning opportunities*

(Bruder, 2016)

## STAFF TURNOVER

‘...of the 14 colleagues we have, I think about five changed last year...’

‘...we had various personnel changes within the team, so new arrivals, departures...’

## WORK OVERLOAD

‘...it's going to take hours away from our coordination meeting, we're going to have to replace them with training...’

‘...as team coordinator, (this training) has given me a lot of work...’

‘...in between, we had the charter service contracts, so sometimes our minds were on other things...’

## INSTITUTIONAL DEMANDS

‘...we started discussions with charity/NGO manager to change our style of doing the things...’

**Knowledge and skills depends on *a framework for delivering intervention* (Bruder, 2016)**

**BASIC MATERIAL FOR NEW PROFESSIONALS**

**WHITHIN CENTRE SPACES FOR REFLECTION**

**POST-TRAINING FOLLOW-UP**



“It does not matter how slowly you go as long as you do not stop”

Confucio (551 B.C- 479 B.C.)

# Here we are for whatever you need!!!

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ALL WE SHARE, ALL WE LEARN

