

The i-PiCS Project



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Line of Research

The Parent-implemented Communication Strategies (**PiCS**) Project



The Internet-based Parent-implemented Communication Strategies (**i-PiCS**) Project

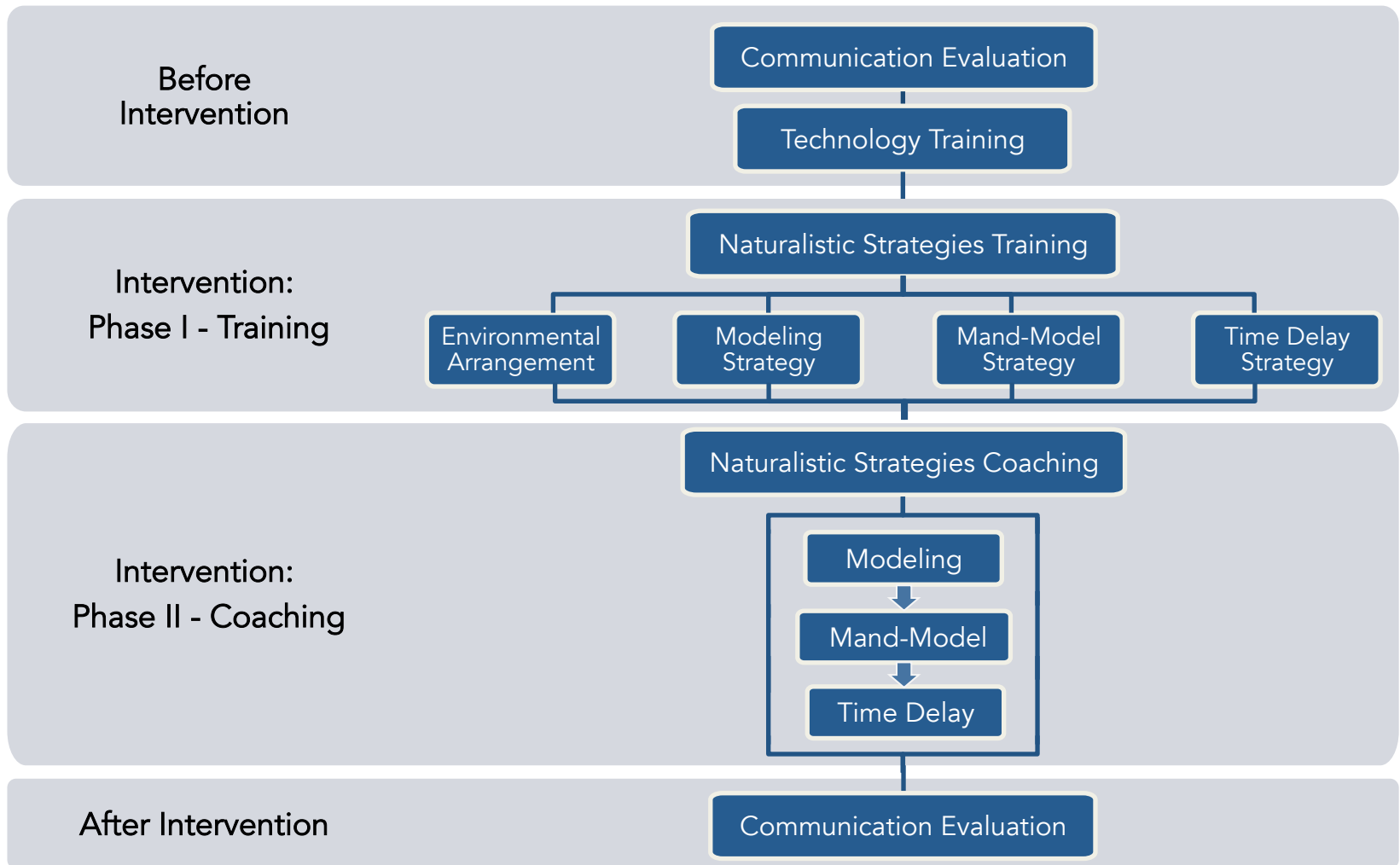


The **i-PiCS 2.0** Project



The i-PiCS Program

The Internet-based Parent-implemented Communication Strategies Program



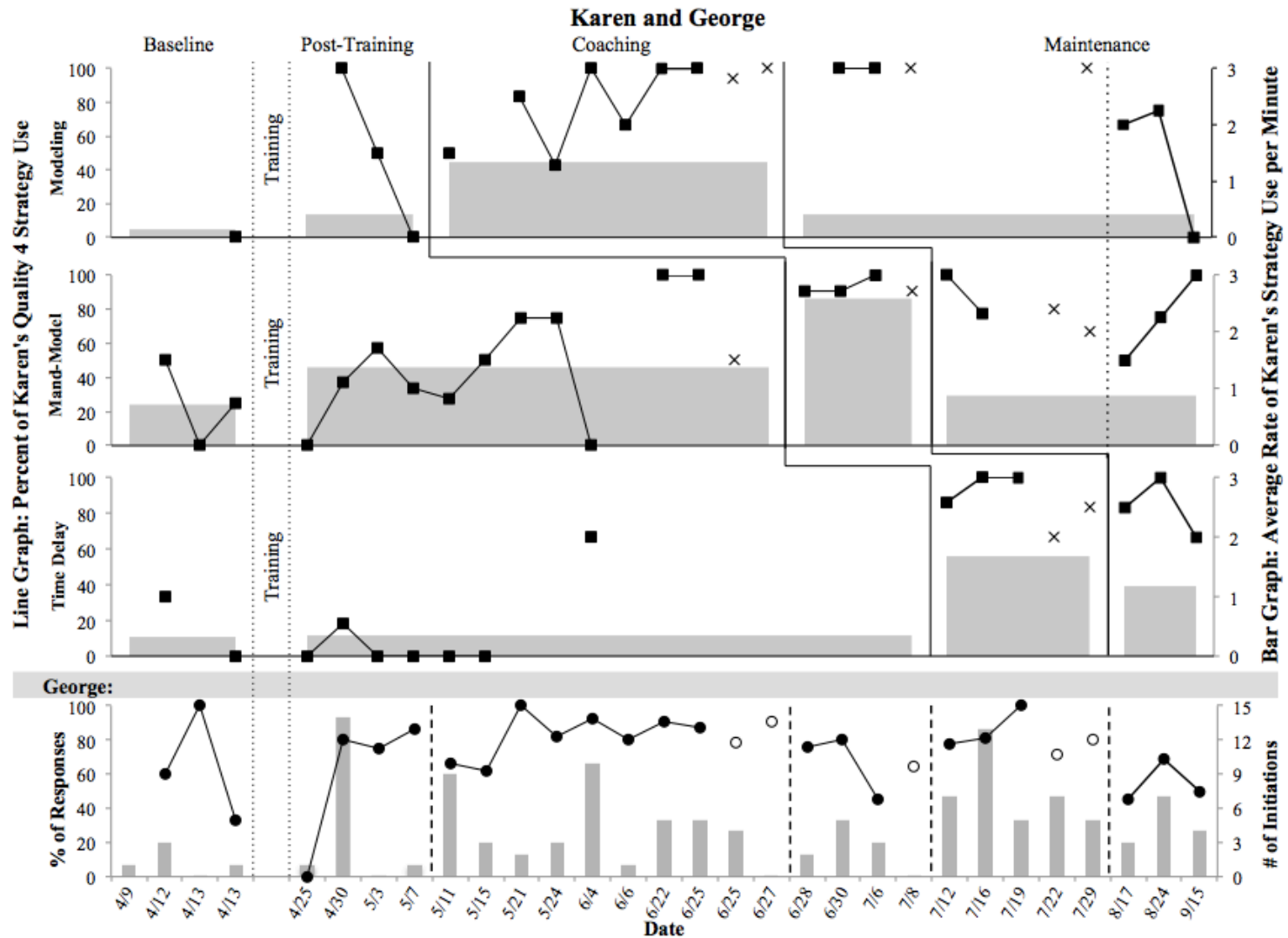
Participants

Pilot study of the i-PiCS program (Meadan et al., 2016)

- Three families
 - Located throughout Illinois
 - Children with autism spectrum disorder (ASD)
 - 2 boys and 1 girl
 - Under the age of 5
 - Less than 10 functional words at beginning of study
 - Parents
 - 3 mothers

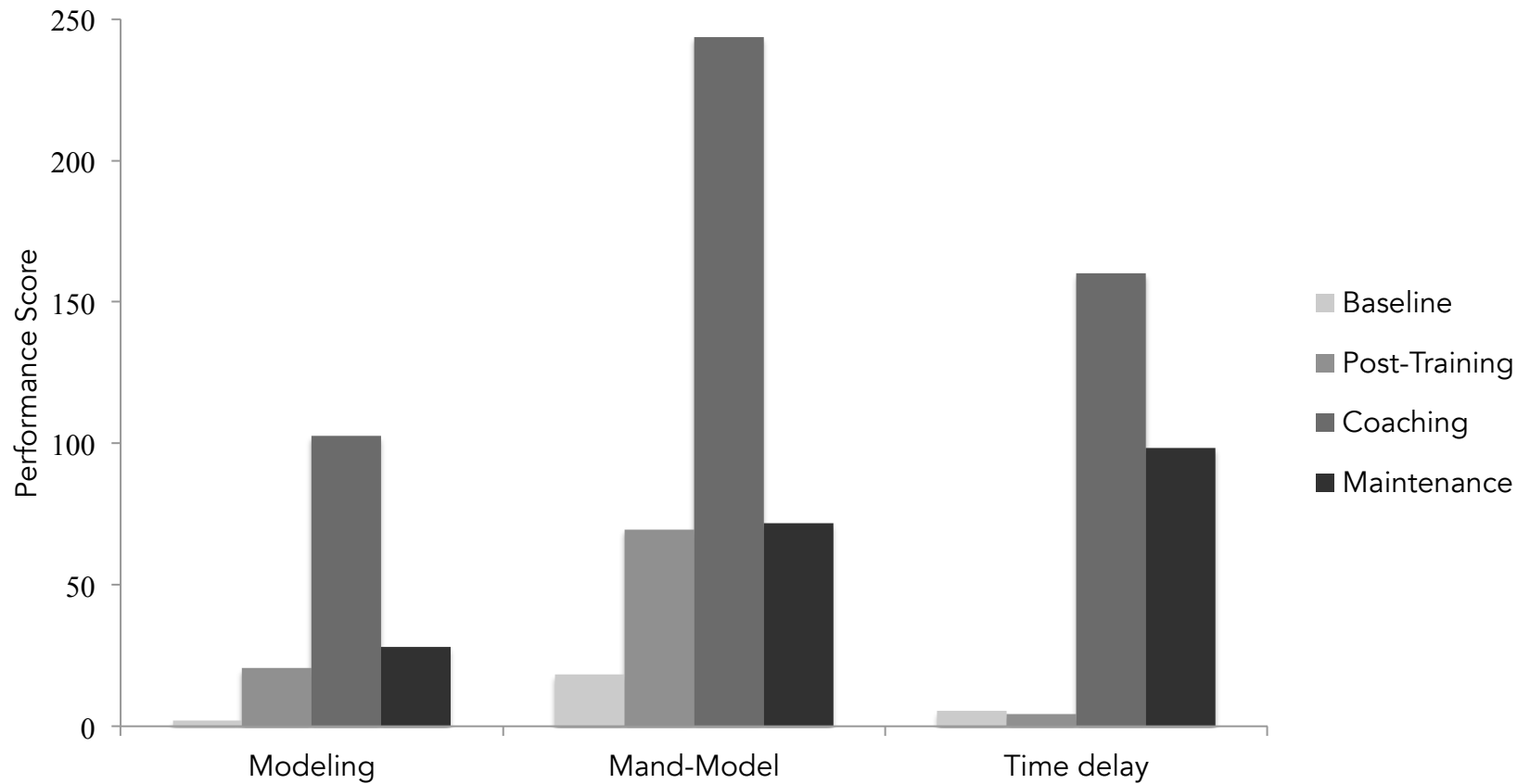


Results



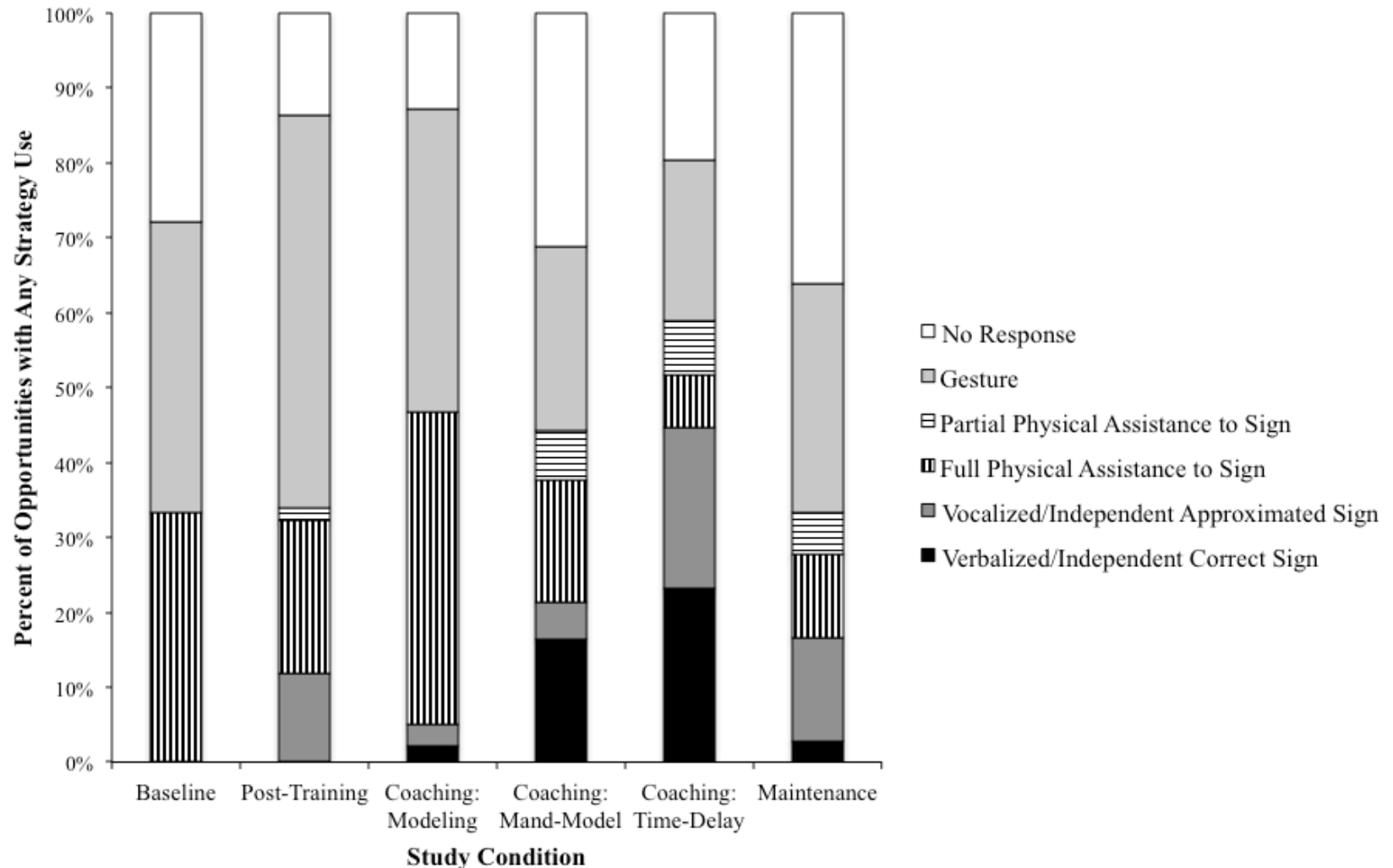
Results

Karen's Performance Scores



Secondary Analysis

Topography of George's Responses to All of Karen's Strategy Use



i-PiCS 2.0

- **Training** – Online self-directed self-paced modules hosted on **Blackboard** course management platform
- **Coaching** – Provided synchronously using **Polycom® RealPresence**
 - RealPresence is a secure videoconference platform that provides standards-based embedded encryption of video, audio, and data to comport with **HIPAA compliance**.



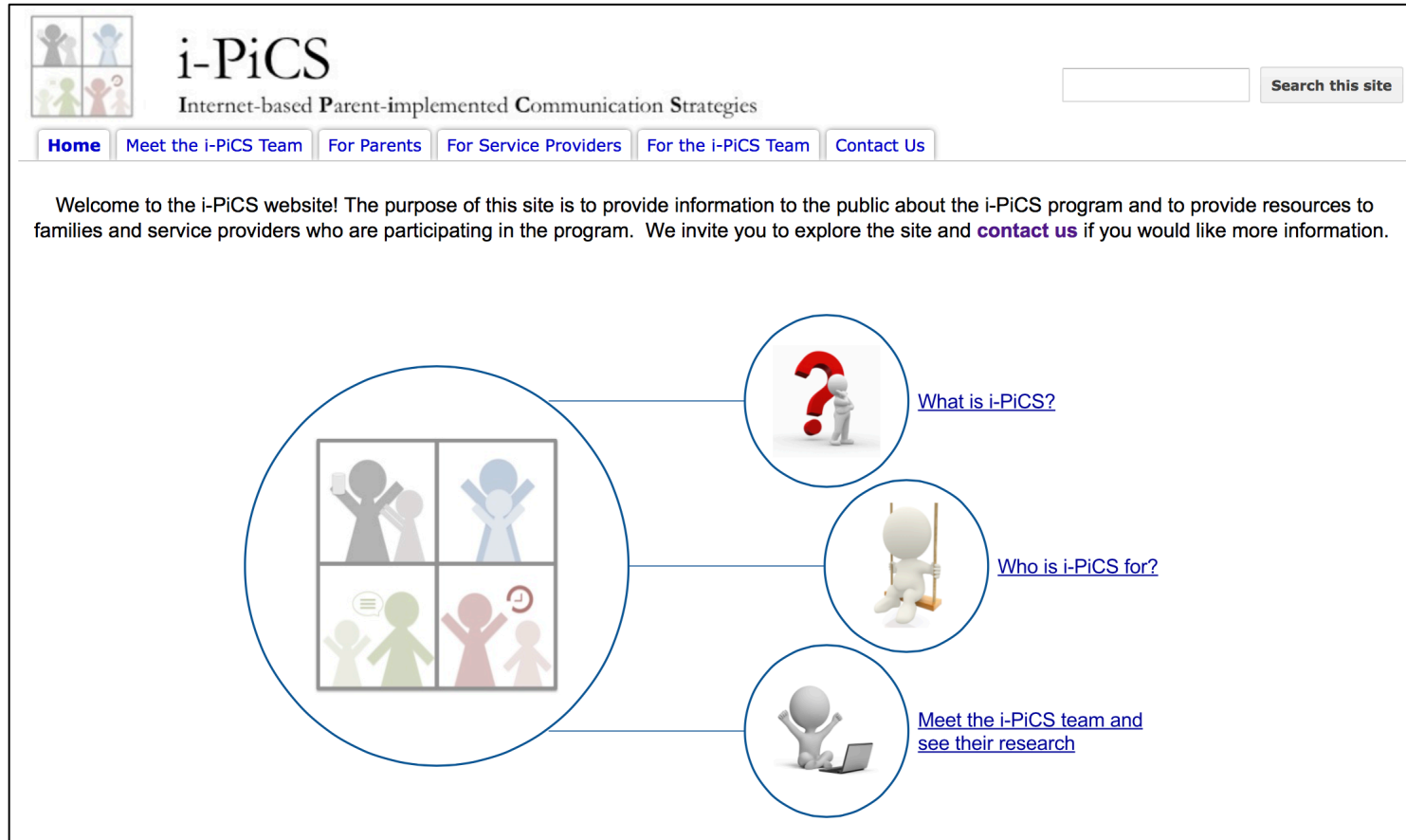
i-PiCS 2.0 Technologies

- Google Site
 - Access to i-PiCS information and resources
- Google Forms
 - Collecting and organizing data
- Compass 2g Blackboard
 - Online training modules
- Polyom RealPresence
 - Video conferencing
 - Screen sharing & Screen Recording
 - Parent-child interaction observations
- Box application
 - Reciprocal material and video sharing
 - File storage



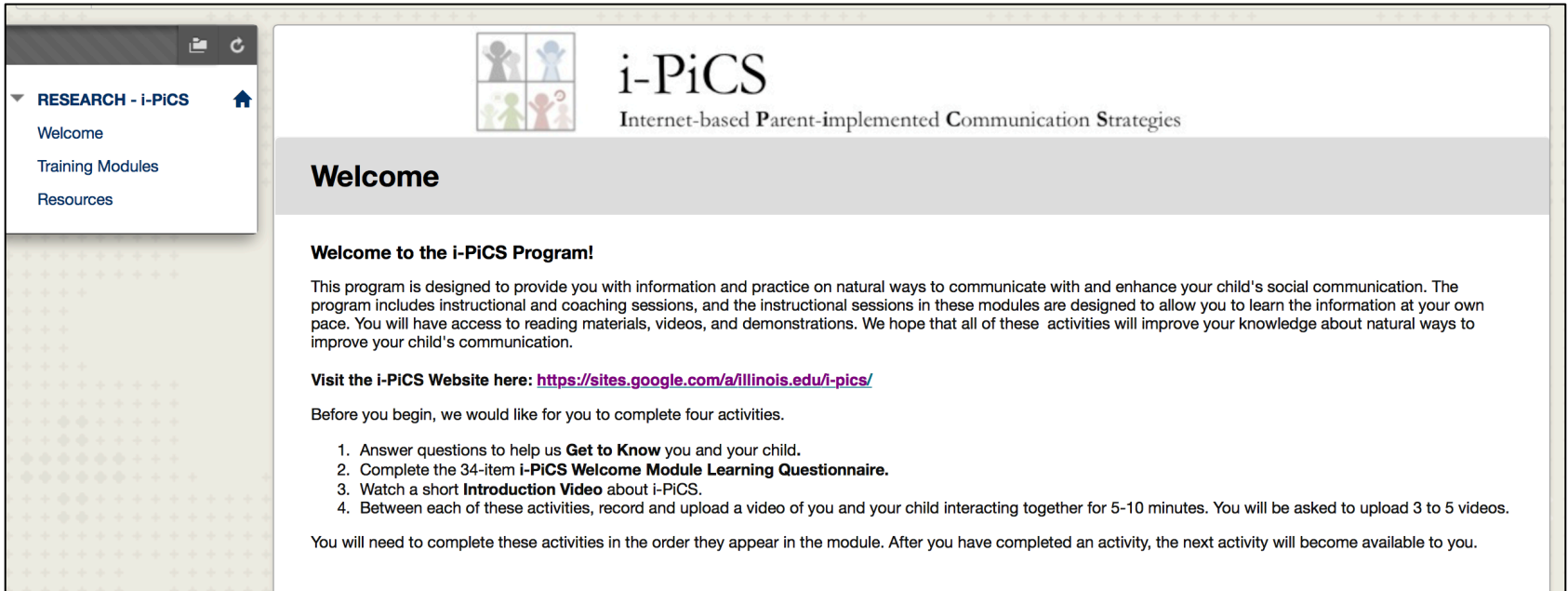
i-PiCS 2.0 Technologies

Google Website



i-PiCS 2.0 Technologies

Compass 2g Blackboard



RESEARCH - i-PiCS

- Welcome
- Training Modules
- Resources

i-PiCS
Internet-based Parent-implemented Communication Strategies

Welcome

Welcome to the i-PiCS Program!

This program is designed to provide you with information and practice on natural ways to communicate with and enhance your child's social communication. The program includes instructional and coaching sessions, and the instructional sessions in these modules are designed to allow you to learn the information at your own pace. You will have access to reading materials, videos, and demonstrations. We hope that all of these activities will improve your knowledge about natural ways to improve your child's communication.

Visit the i-PiCS Website here: <https://sites.google.com/a/illinois.edu/i-pics/>

Before you begin, we would like for you to complete four activities.

1. Answer questions to help us **Get to Know** you and your child.
2. Complete the 34-item **i-PiCS Welcome Module Learning Questionnaire**.
3. Watch a short **Introduction Video** about i-PiCS.
4. Between each of these activities, record and upload a video of you and your child interacting together for 5-10 minutes. You will be asked to upload 3 to 5 videos.

You will need to complete these activities in the order they appear in the module. After you have completed an activity, the next activity will become available to you.



i-PiCS 2.0 Technologies

Polycom RealPresence

The screenshot shows a video conference interface. On the left, a small window shows three participants. The main window shows a woman in a striped shirt. A browser window in the foreground displays the i-PiCS program overview.

The i-PiCS Program
The Internet-based Parent-implemented Communication Strategies Project

Here is an overview of the steps in the i-PiCS program:

```
graph TD
    subgraph Before_You_Begin [Before You Begin]
        CE1[Communication Evaluation] --> TT[Technology Training]
    end
    subgraph Phase_I_Training [Phase I: Training]
        NST[Naturalistic Strategies Training] --> EA[Environmental Arrangement]
        NST --> M1[Modeling]
        NST --> MM1[Mand-Model]
        NST --> TD1[Time Delay]
    end
    subgraph Phase_II_Coaching [Phase II: Coaching]
        NSTC[Naturalistic Strategies Coaching] --> M2[Modeling]
        NSTC --> MM2[Mand-Model]
        NSTC --> TD2[Time Delay]
    end
    subgraph After [After]
        CEMS[Communication Evaluation and Maintenance Support]
    end
    TT --> NST
    NST --> NSTC
    NSTC --> CEMS
```



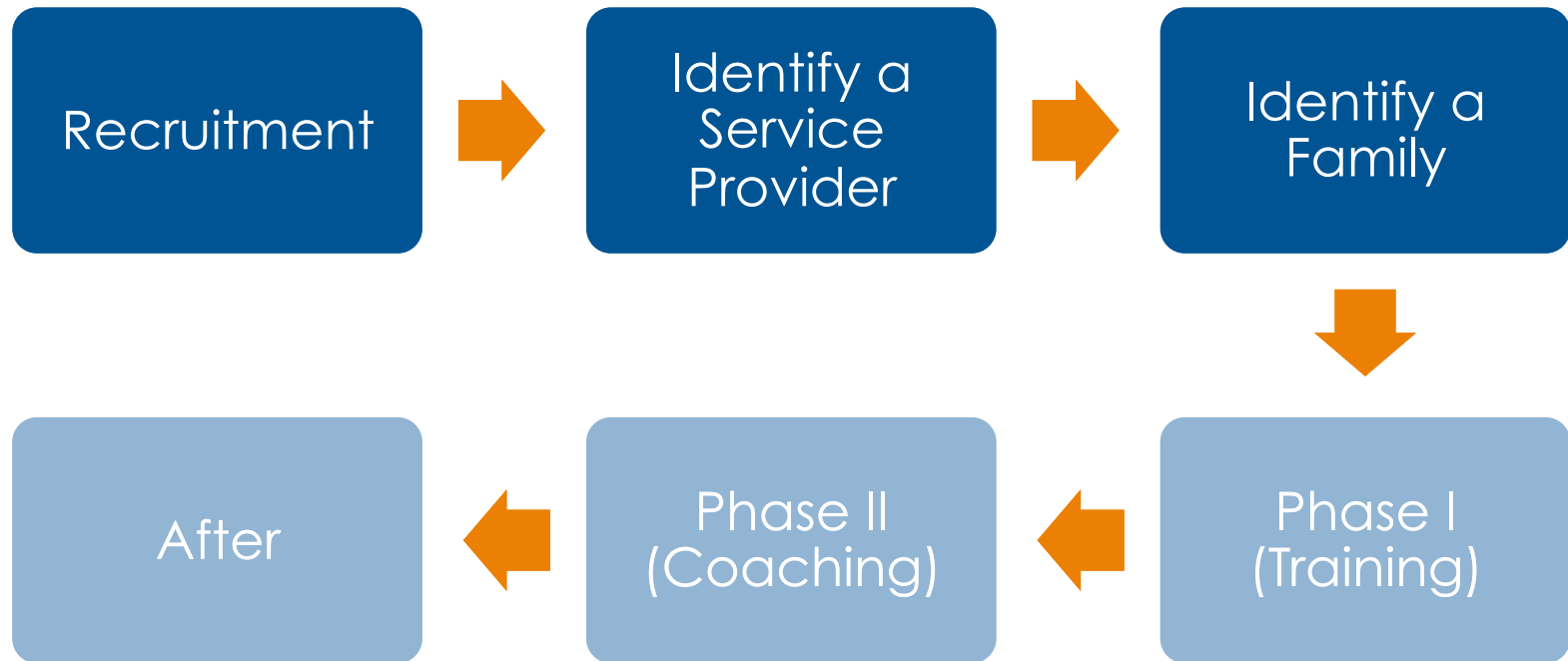
Participants

Pilot study of the i-PiCS 2.0 program

- Three Service Providers (SLPs)
 - Located in Utah
 - With three prospective families
 - Child
 - Under the age of 5
 - Less than 10 functional words at beginning of study
 - Parents
 - Internet connection
 - Tablet/webcam/smartphone



Current Stage



Thank You!

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