

The 1kD Playpod Project

The first 1000 days...

The first 1000 days of a child's life are the most important days of life. During this sensitive period the brain is making ~1 million new connections per second and reaching 80% of its adult size and architecture (Mualem et al., 2024). Until now, most assessment and insights tools focused only on the child, rather than the child's interaction with their caregiver and the environment around them. Our technology can provide accurate (96%), culture-fair, fully automated insights into a child's cognitive and emotional development based on a parent-child play session. This scalable AI-based technology permits earlier and more precise neurodevelopmental risk detection and yields actionable insights for intervention.

AI-powered insights to advance early childhood development

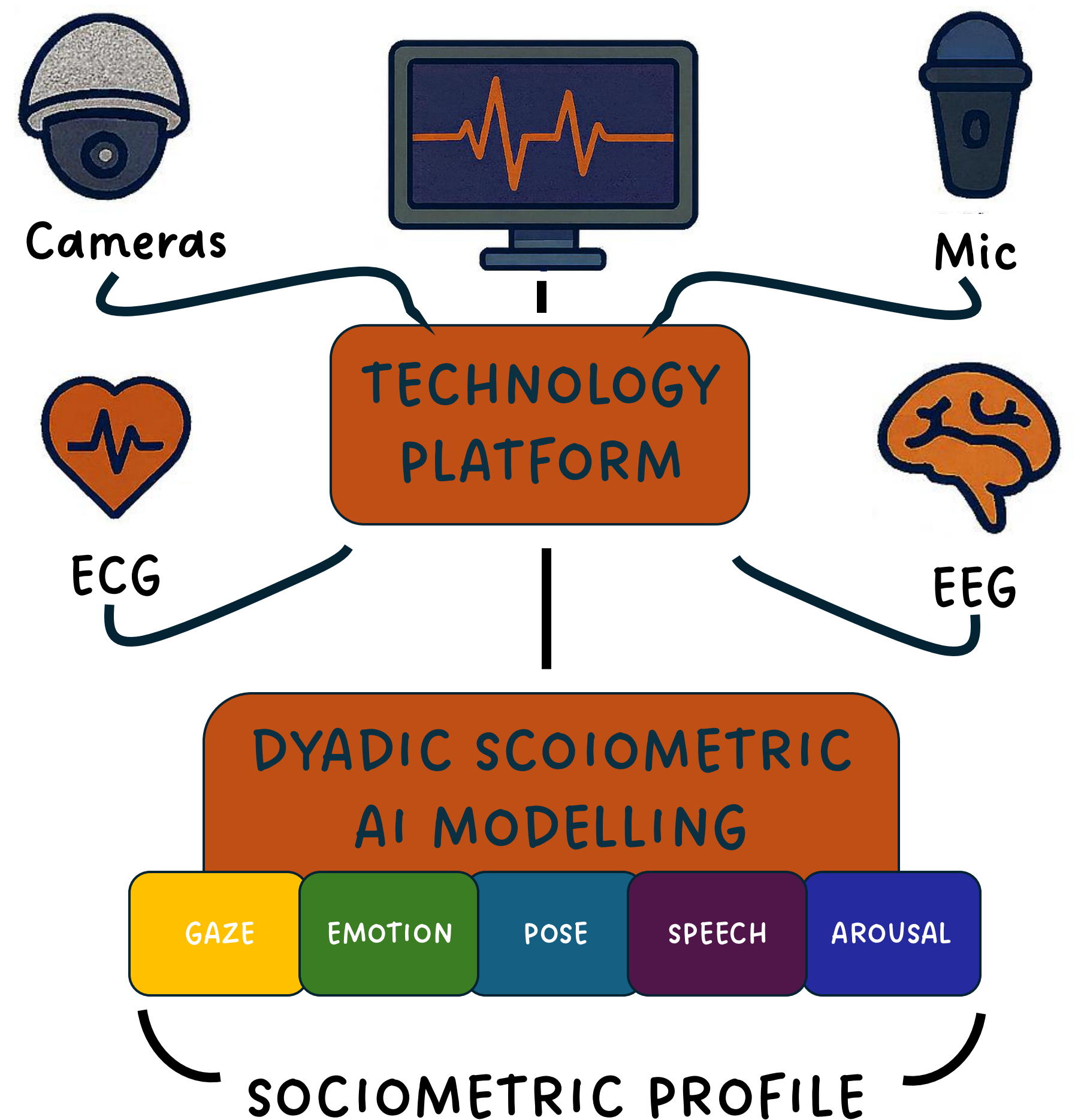
In this exhibit, we show how AI can generate developmental insights based on profiles of emotion, gaze, posture, conversation, and ECG signals during a brief play session.

AI Playrooms to learn about your child



During Preplay you will receive a short introduction to suggested play activities and be fitted with an ECG device to measure your heart rate. Once you enter the playpod, you can play freely with your child for about 5 minutes. You will see how we would analyse the data and what a typical insights report might look like along with suggested home activities.

Multimodal sensors and AI technology



Play with your child improves development

Playing with your children can have positive lasting impacts on the development of your child. The 1kD Playpod Project is arriving at a new way to understand you and your baby. Our AI model has been trained on hundreds of cross-cultural infant-mother dyads with hundreds of thousands of training data points, advancing early childhood developmental.

