







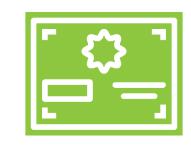
Global standard for measuring talk in early childhood



300+ research partners **50+** LENA program communities



80+ peer-reviewed articles



19 patents, 4 pending



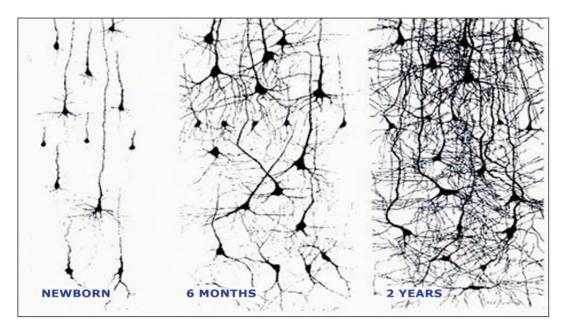
Early language leads to opportunity





Early brain development

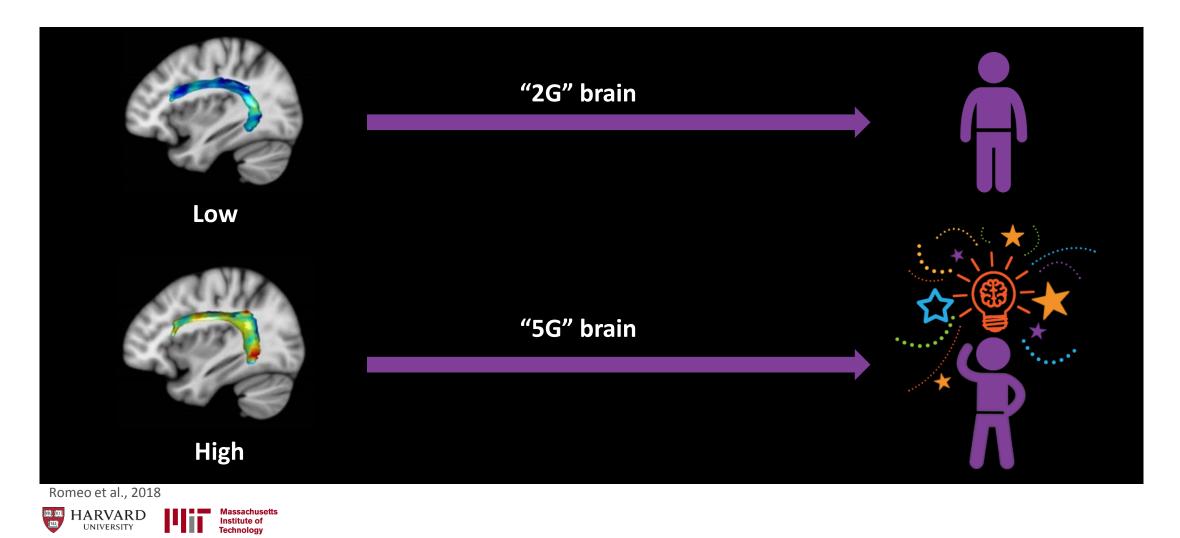
- A baby's brain grows to 80% of adult size in the first 3 years.
- Builds over one million neural connections/sec.
- Processes speech at 1/5 speed of adults



Synaptic growth in the brain over time Source: Dr. Kimberly Noble



A tale of two brains:

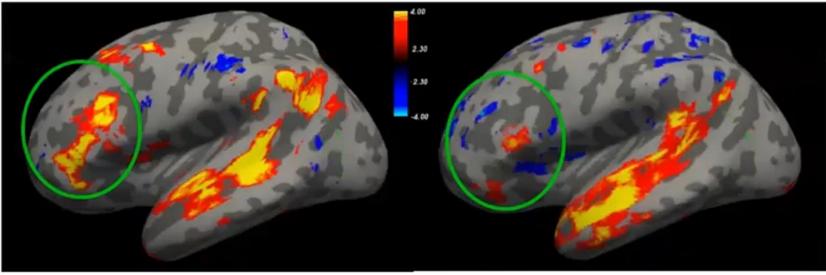




It's Conversational Turns that matter

fMRIs from two female children (Families' Backgrounds: high-school education + \$50K total family income)

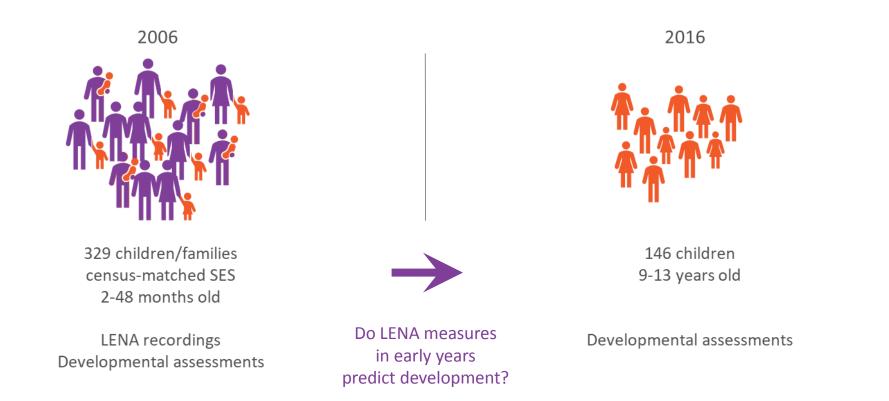
1,220 turns per day Verbal score = 121 580 turns per day Verbal score = 90



Romeo et al., Psychological Science, 2018



LENA 10-year longitudinal study



Yes, and turns are the most powerful predictor!

Gilkerson et al., J. Pediatrics 2018

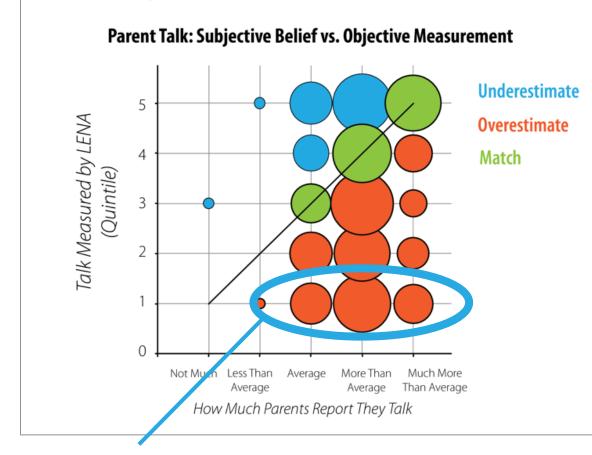


Why can't we just talk more?





We talk less than we think we do



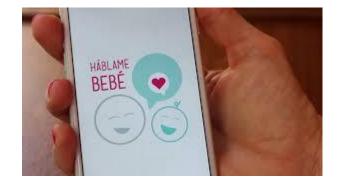
Those of us that talk the least overestimate the most

Richards, et al., JEI (2017)

December 12, 2017



Isn't there an app for that?













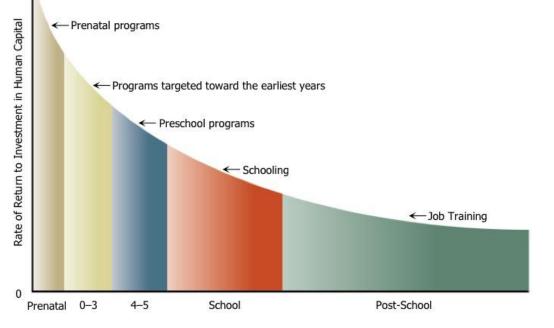
The Opportunity We Face



December 12, 2017

EARLY CHILDHOOD DEVELOPMENT IS A SMART INVESTMENT

The earlier the investment, the greater the return





Three "truths"

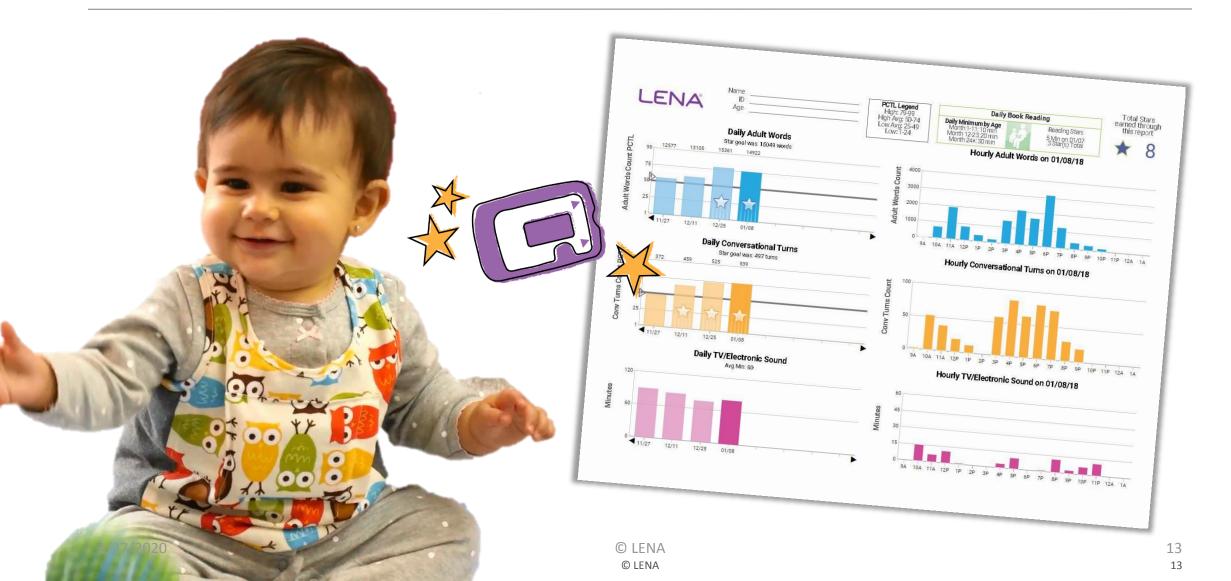
- Early talk is the key. 1.
- 2. Parents and caregivers are the secret sauce.
- 3. You can't improve what you don't measure.





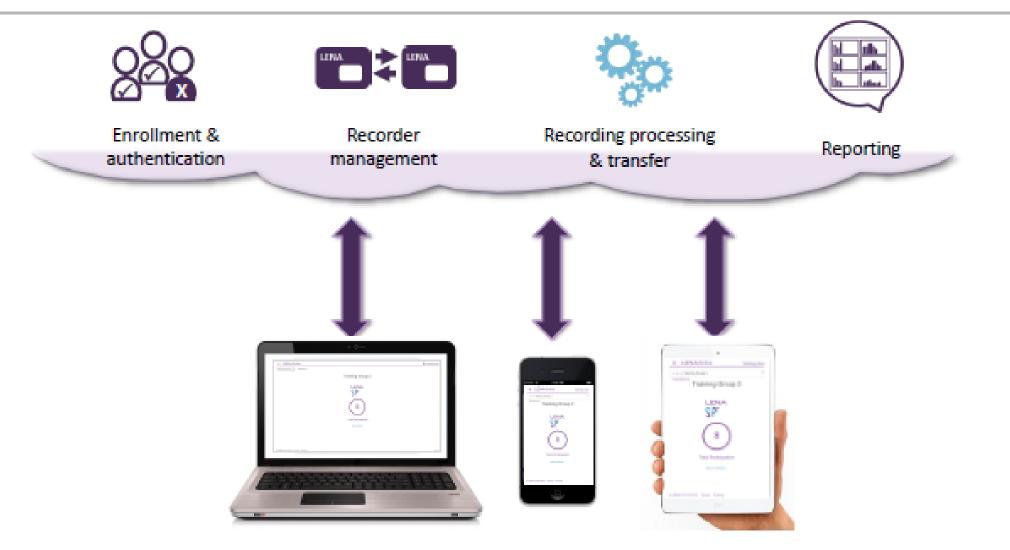


"Talk pedometer" technology



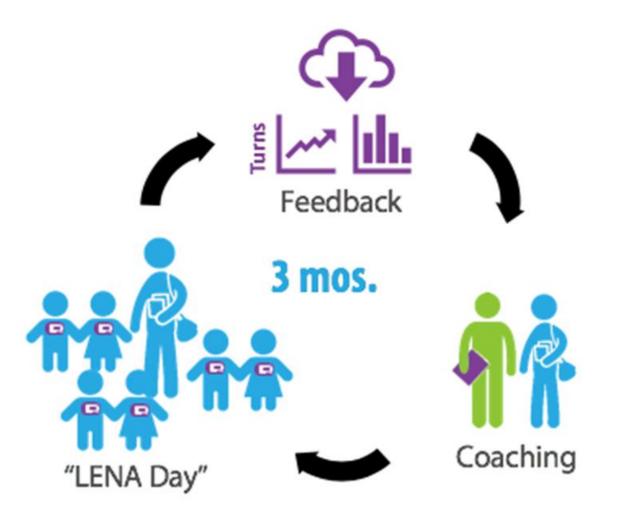


Online Functions





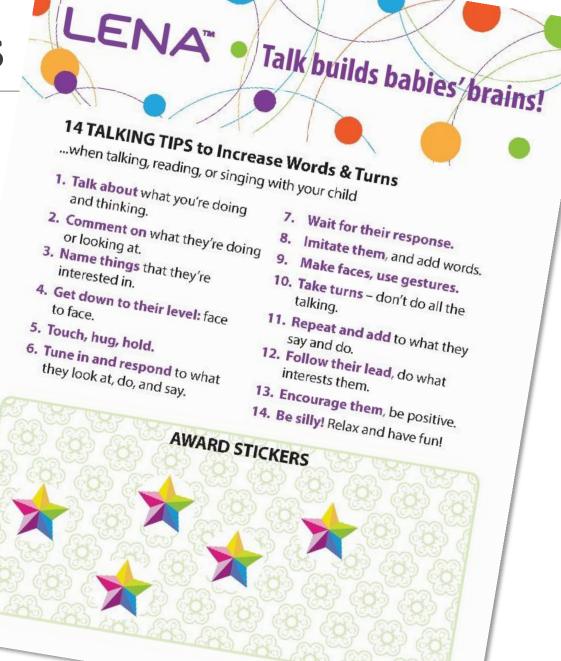
LENA Feedback



LENA

The 14 Talking Tips

- 14 easily-learned behaviors
- Used while talking, singing, reading with the child





LENA's Programs

LENA START

Parent-group classes to strengthen community.



Professional development for early childhood educators.



Early-language focus for any home-visiting program.

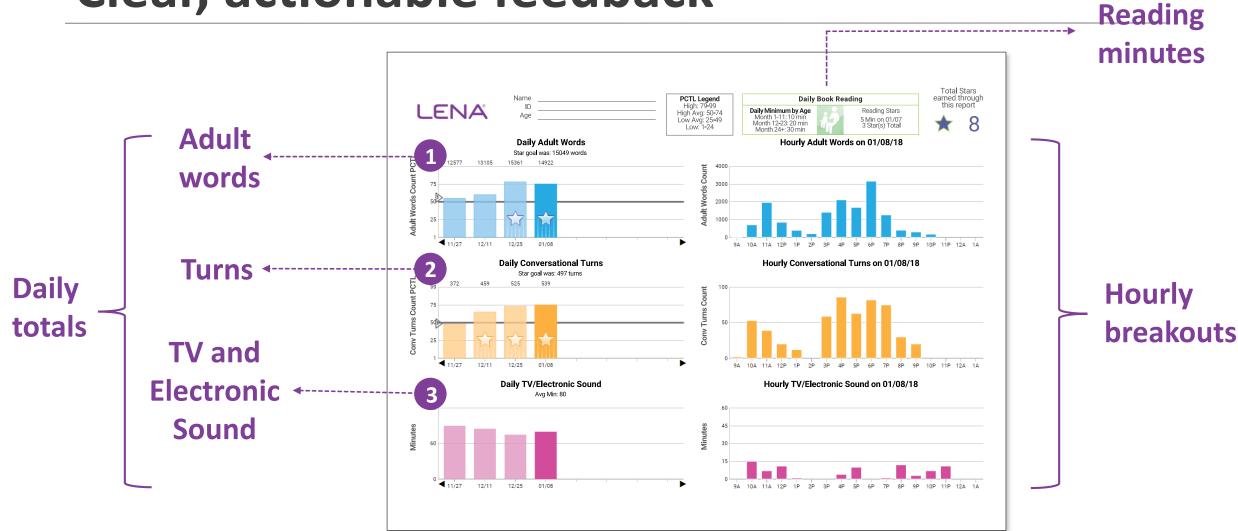


In-depth data for language professionals.

1/27/2020 December 12, 2017



Clear, actionable feedback





LENA LENA START GROULENA Days

Feedback

LENA

Reports

Weeks

Group

Sessions



Who uses LENA in a developing context?

A number of researchers use LENA around the world- from India and Tonga to South Africa, Senegal and Gambia.





UNIVERSITE1T

STELLENBOSCH

UNIVERSITY

Looking at childcaregiver interactions and the relationship with health of parent and child Stanford University/Anne Fernald- working in Senegal about maternal beliefs and child development based on caregiver-child interactions

The aim of the project is to establish brain functionfor-age curves of infants in both these settings, in order to gain an insight into the effects that malnutrition, social or environmental difficulties and increased risk of disease





Questions? www.lena.org jsimmons@lena.org



