

# How Big Data Transforms Early Childhood Education and Improves the Intelligence of Teaching Aids

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# YOUNGZONE

YoungZone Corp (NEOBEAR) is an educational technology company headquartered in Shanghai, China. The company's focus is geared towards intelligence technology in early childhood education. Since 2013, our company has released a variety of highly successful AR (Augmented Reality) technology products based on interactive entertainment, and received over **US\$50 million** investments from well-known Chinese and American investors, including Qualcomm, GGV, New Horizon and ZTE funds.

## Our Investors



**Qualcomm**  
ventures

**ZTEVC**  
Partner To Success

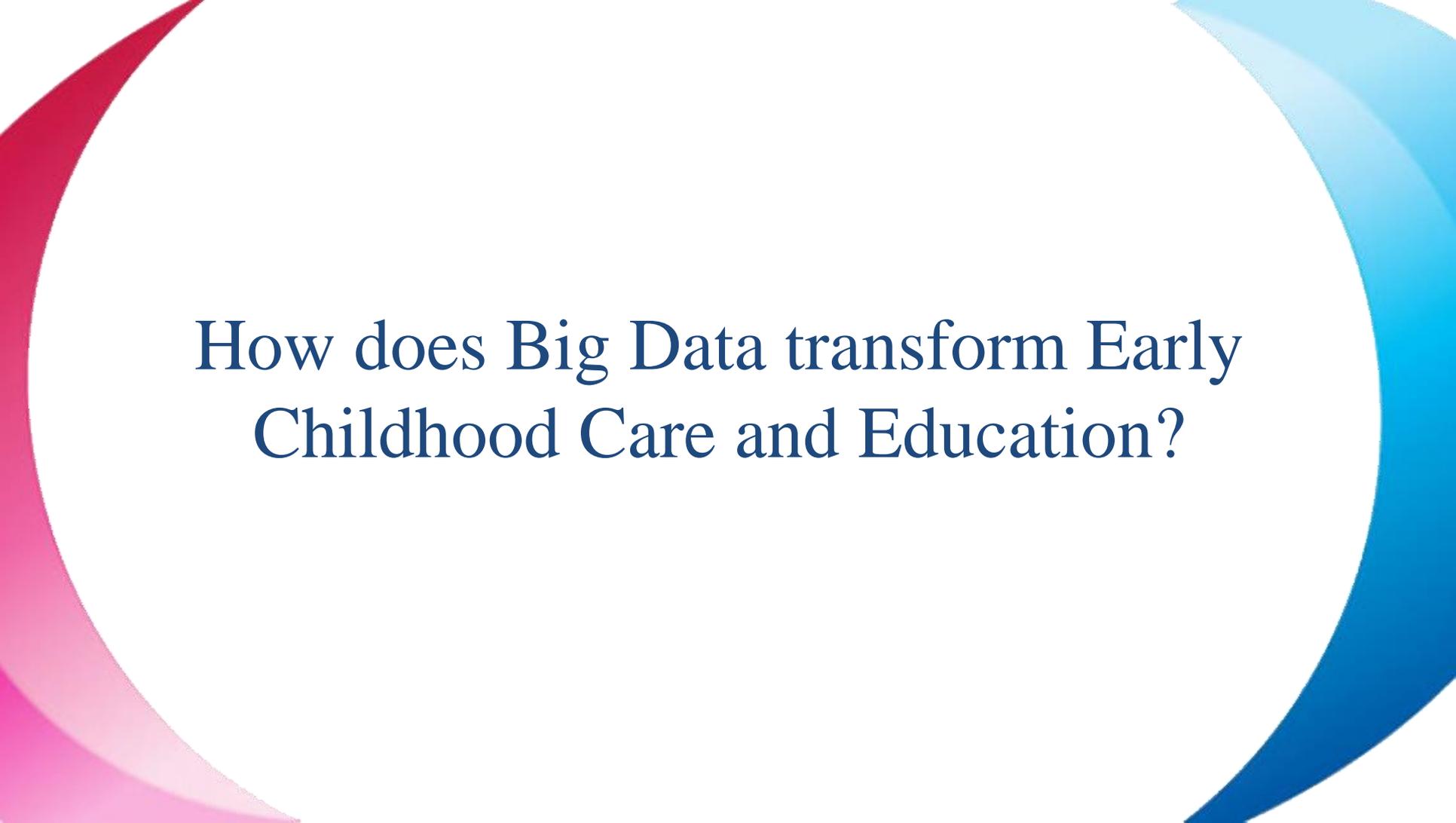
 **GGV** CAPITAL

**NEW HORIZON**

  
一村资本  
V-Capital

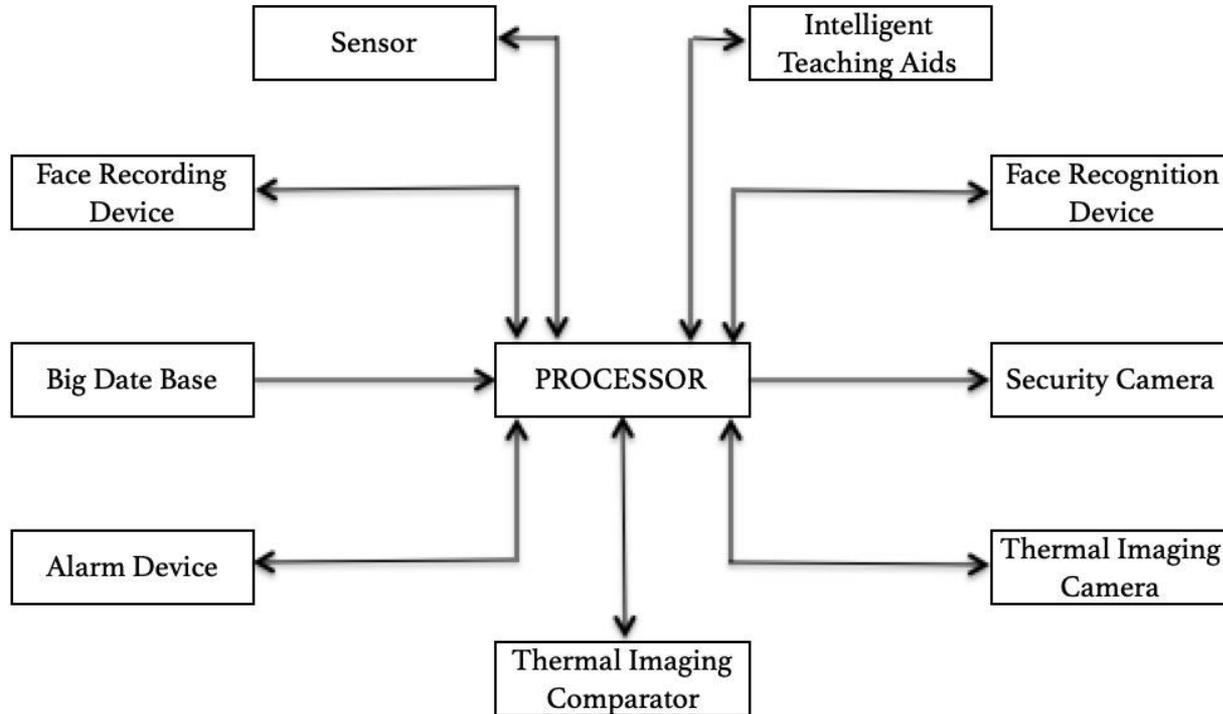
 海通证券

 六禾创投

A decorative graphic consisting of two large, overlapping circular segments. The left segment is red with a gradient from dark red to light pink. The right segment is blue with a gradient from light blue to dark blue. The two segments meet at the top and bottom, leaving a white circular area in the center where the text is located.

# How does Big Data transform Early Childhood Care and Education?

# Imagine a Perfect Classroom with Big Data Applications



Monitored a rising body temperature!

Tody

Luke has been playing with building blocks for hours. It seems that he hasn't been to the toilet. He should be reminded.

Luke



Alice is arguing with Ranne. They've been having a lot of trouble for days.

Alice

Which book is Sean reading today?  
He has read this book the 9th time. He likes to read in the corner, and doesn't like to communicate with other children except Alice.

Sean

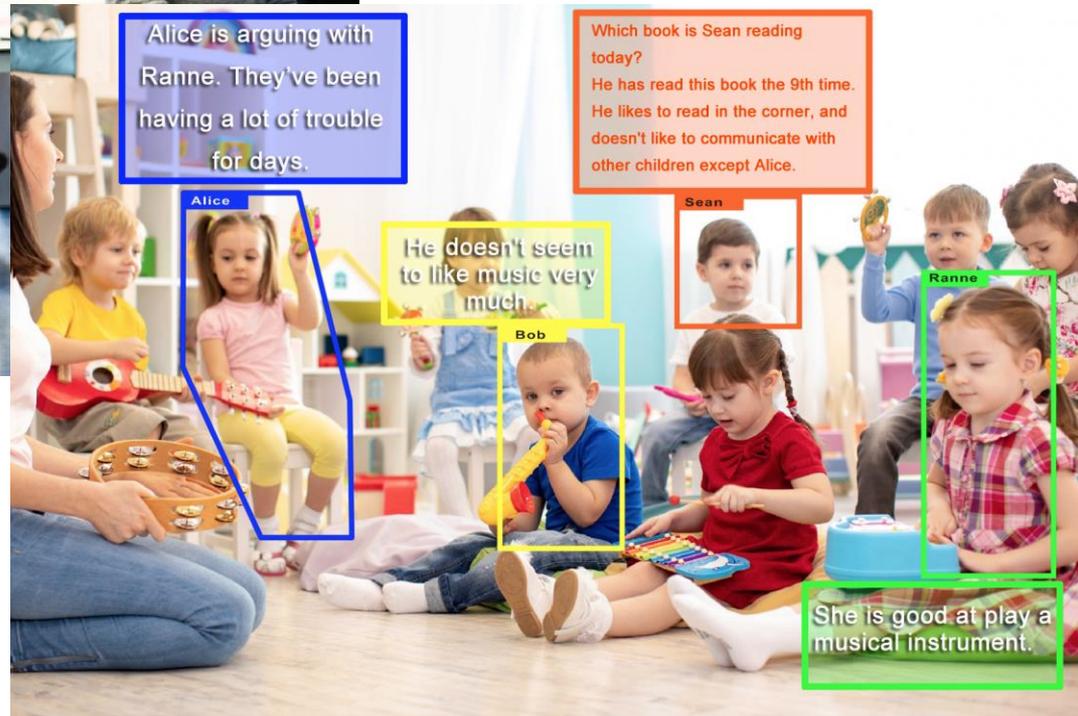
He doesn't seem to like music very much.

Bob

Ranne

She is good at play a musical instrument.

## Early Childhood Classroom with Intelligent Technology

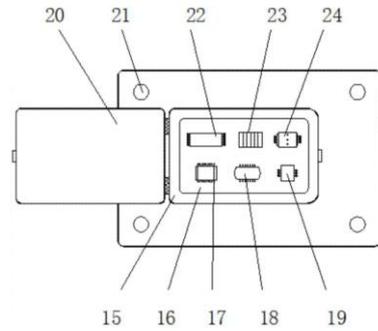




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# Intelligent Tableware

Managing Healthy Growth by Big Data



# Intelligent Water Bottle & Its Big Data Usage



**Product Iteration  
(Hardware & Software)  
Service Optimization**



# How does Big Data transform Early Childhood Education?



Intelligent  
Teaching Aids  
for Children





# Intelligent Education Scene - K12



# 100 Years ago



# Now





Children's AI robots  
and various other digital  
intelligent products  
are getting popular.





Montessori's innovative thinking created educational methods and teaching aids. Her followers have been using it for more than 100 years.

If Maria Montessori returned to the world and saw the age of intelligent technology, would she be willing to redesign her teaching aids?





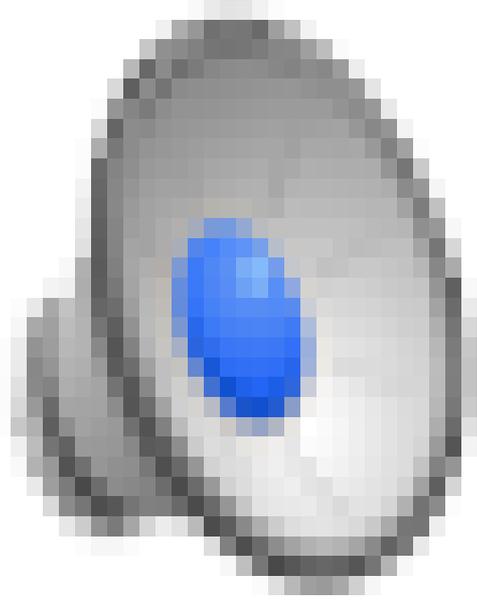
United Nations  
Educational, Scientific and  
Cultural Organization



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# WHO IS NEOBEAR?









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# NEOBEAR

Since 2012

Research and Development of Intelligent  
Teaching Aids

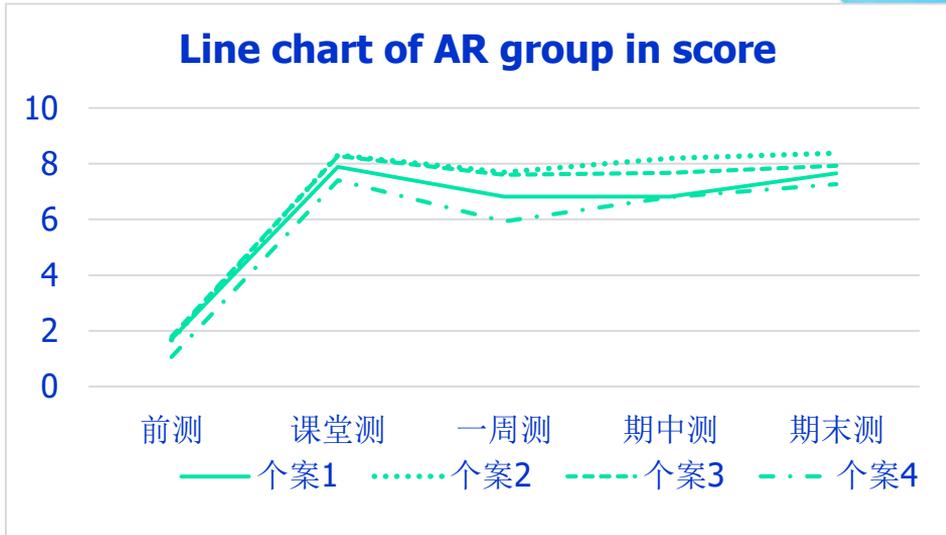
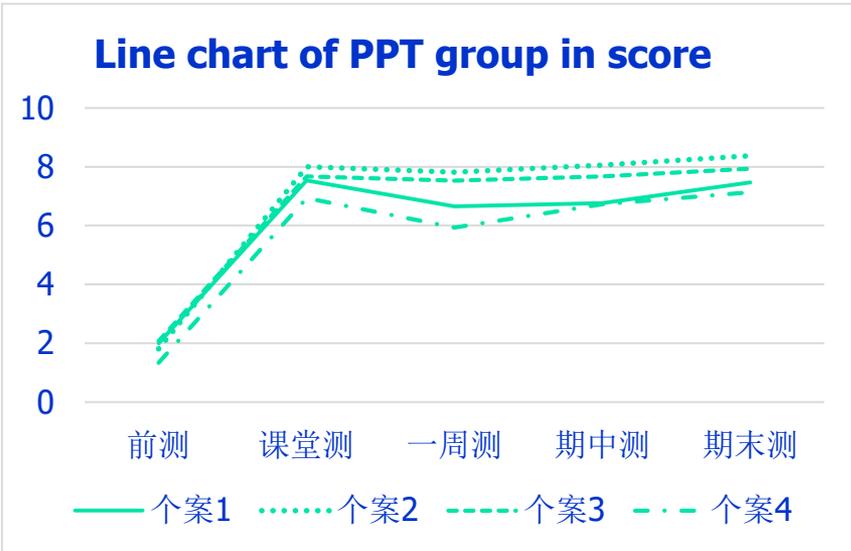
Mainly Using Image Recognition Technology  
and AR Technology

AI Artificial Intelligence is the Next Key  
Direction





# The Research of AR Intelligent Teaching Aid - By East China Normal University



The research of Professor Zeng Fanlin of East China Normal University and his student Wei Zhen (2018) showed:  
AR demonstration teaching has better real-time effect than that of traditional multimedia(PPT), while there is no difference of long-term maintenance effect in scores.



# AR Learning Cards

Watch as animals run, swim, climb, soar, and many more actions right in the comfort of your own home!





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# AR Coloring Book

Paint the most attractive and famous spots in the world with colors of your choice and “your world” will come alive.





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# AR Globe

Using augmented reality technology bring the world into your living room. With a simple click, you can travel all around the globe, discover each and every corner of the world!





### Country Information

Includes globally national information.



### Famous Tourist Sites

You could visit worldwide well-know tourist sites.



### Traditional Garments

Learn traditional garments globally.



### Special Cuisine

You would know delicious cuisine around the world.



### Natural Phenomena

Witness the amazing natural phenomenon on the earth. Such as thunders, volcanos etc.



### Topography

Learn worldwide topographical knowledge.



### Wildlife

You could interact with animals globally



### Climate Ocean Currents

Introduction the location and influence of the climate Ocean currents.



### Defend the Earth

Interesting game.



### The Magnificent Earth

Let's enjoy the fun of beautiful earth.



### Space Science and Technology

Take a tour through the universe and view what is in outer space.



### Famous Landmarks

Come to visit famous landmarks around the world.



### Notable Citizens

You would know those famous people who contributed to the civilization development.



# Six Themes & Twenty Modes



AR Technology  
Helps Children Explore the World Better





# AR Magnifier NEO

The only and most unique tool, helps children explore and discover the world with the fun of new technology.



2016  
Successful  
Design



2016  
Red Star  
Design Award



2015  
A Design  
Award



2015  
iF Design  
Award



2017  
CES Innovation  
Awards





# How to Apply Big Data Better in Teaching Aid Intelligence



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 **小熊尼奥**  
**趣游学**

# Big Data Technology in Personal Evaluation and Reporting System



**STEM  
Education  
Course**

## Behavioral Data

-  Q & A Data
-  Concentration Data
-  Game/Interaction Data
-  Art/Craft Snap Data

## Abstract Data

- Mastery of Knowledge
- Interest Level
- Application Ability
- Creativity Ability

## Evaluation

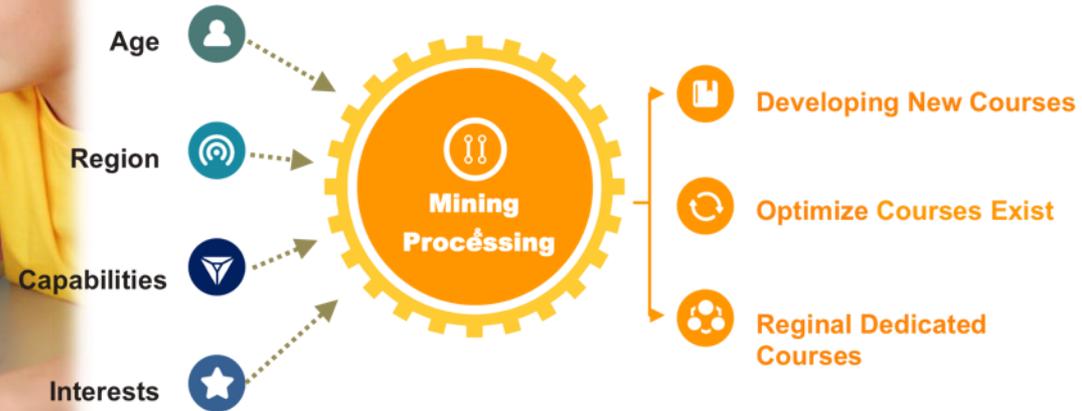
- Study Report
- Capabilities Growth Curve Report
- Interests Report

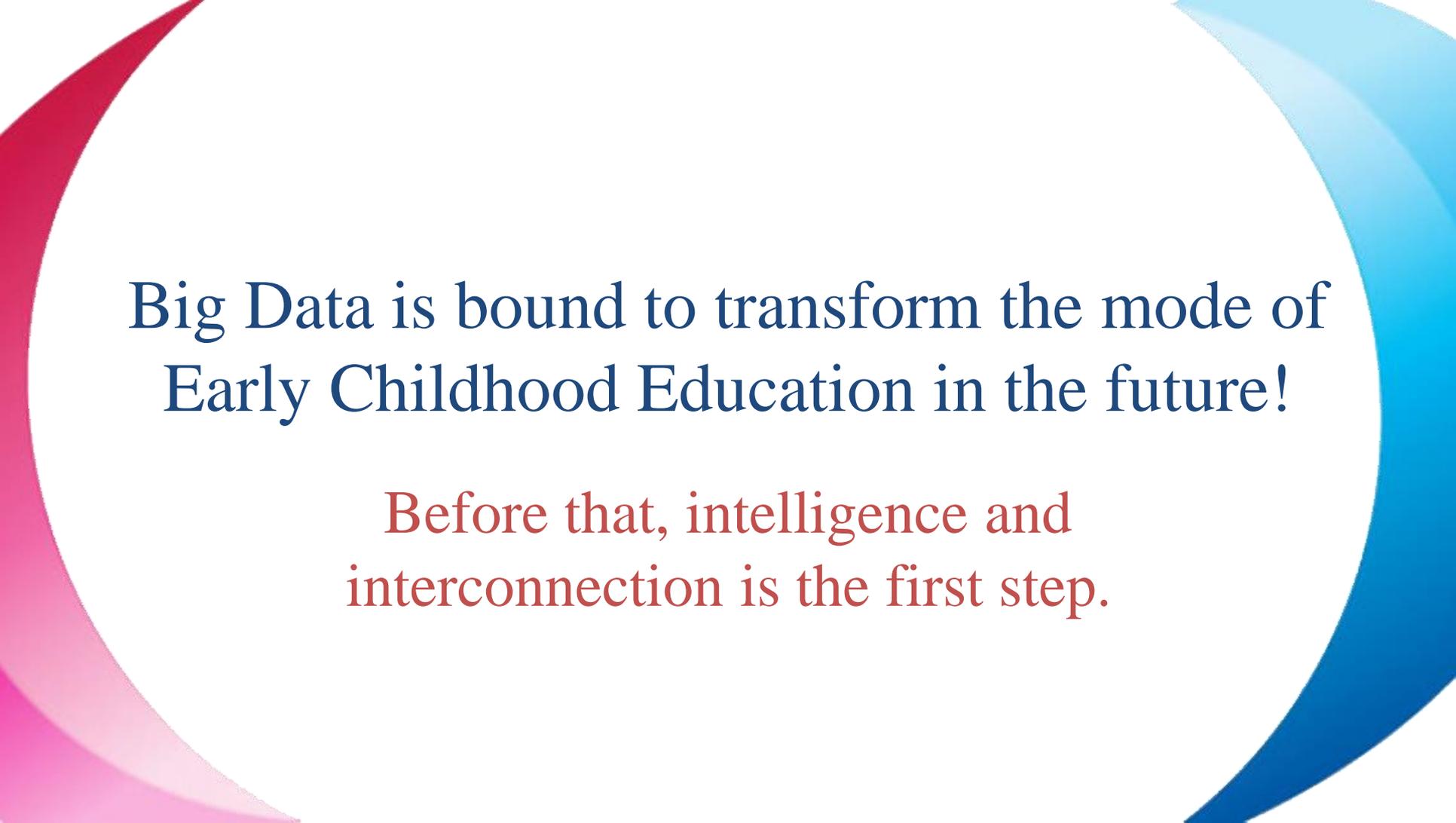
**Parents  
and  
Teachers**





## Big Data Technology in Product Polish





Big Data is bound to transform the mode of  
Early Childhood Education in the future!

Before that, intelligence and  
interconnection is the first step.