

Ethnography Supports Changes to Student-Centered Instruction

TQR 4th Annual Conference

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January 18, 2013



US Education is changing

**No Child
Left Behind**

**Race to the Top
(RTTT)**

**Race to the Top:
Annual Professional
Performance Review**

Federal Programs

State Teacher Evaluations

Advancing Technology



Schools have to adapt

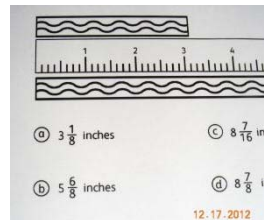
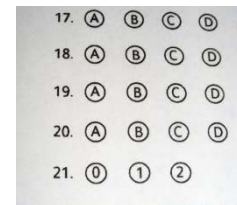
Standards



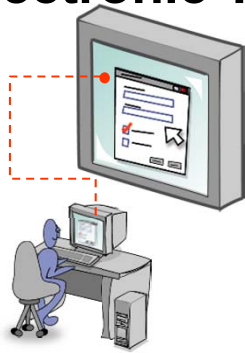
Common Core
State Standards

Partnership for
Assessment of Readiness for
College & Careers

Assessments



Electronic Testing

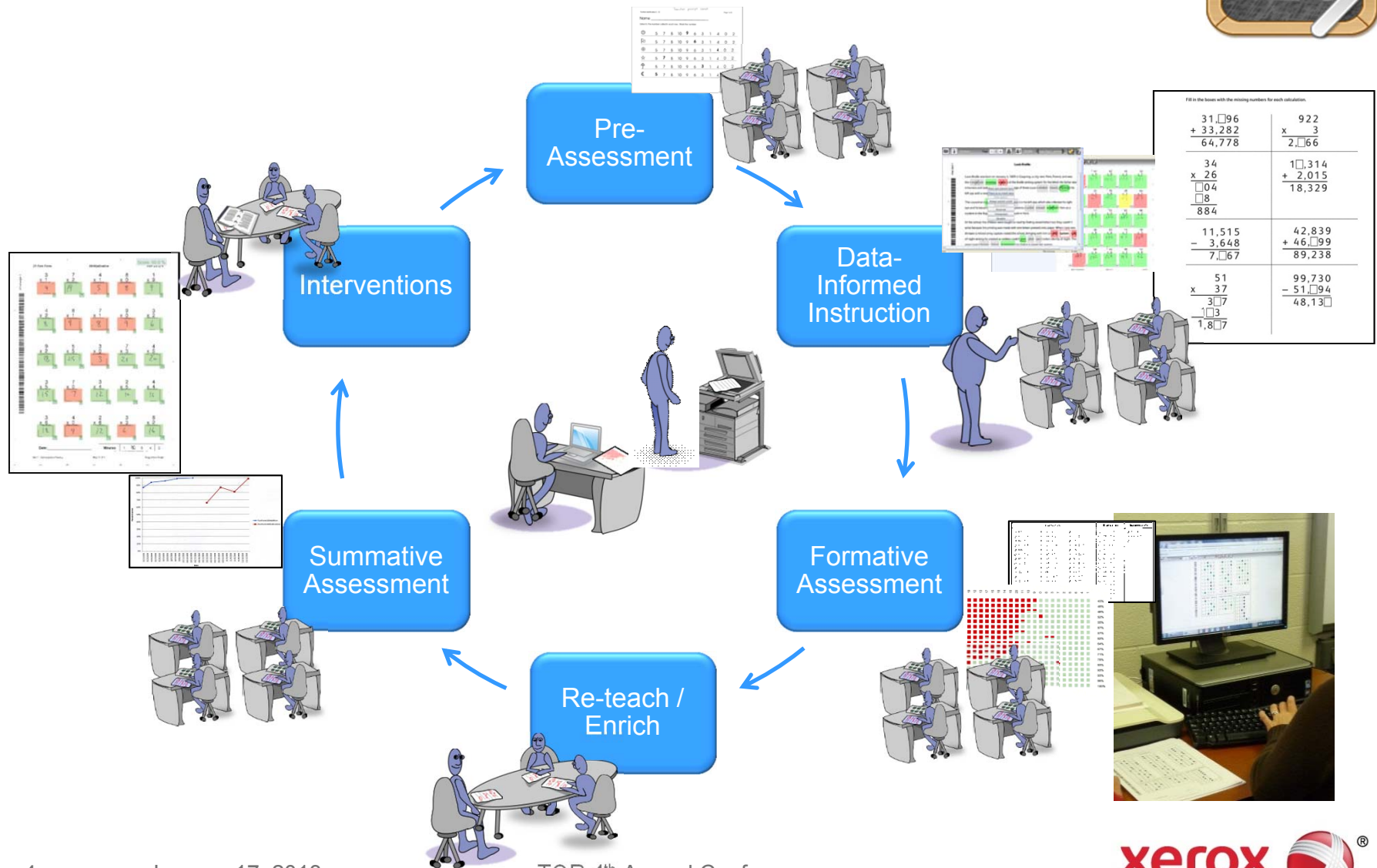


NWEA

Acuity

Yearly Progress Pro
(YPP)

Xerox Educational Assessment Management System supports adaptive learning



Aiding the teacher behind the assessment

ELA-Letter Naming and Sound--Teacher

Capital Letter	Lowercase Letter	Sound
A	a	A
B	b	B
C	c	C
D	d	D
E	e	E
F	f	F
G	g	G
H	h	H
I	i	I
J	j	J
K	k	K
L	l	L
M	m	M
N	n	N
O	o	O
P	p	P
Q	q	Q
R	r	R
S	s	S
T	t	T
U	u	U
V	v	V
W	w	W
X	x	X
Y	y	Y
Z	z	Z

ELA-Letter Naming and Sound--Teacher (25) Page 1 of 1 Level K.1

Math--Page 1

Write the word that matches the picture.

 cat  pig

Write the number.

13 thirteen

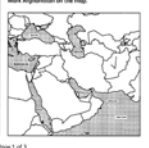
Shade 3/5 of the pie.



Mark 1/3 on the number line.



Mark 1/3 on the map.



Math--Page 1 Page 1 of 1 Level K.1

Math--Factor Pairs

Circle all of the factor pairs for the given number.

Score: 33%

16: 3/4, 2/5, 1/15, 3/5, 4/4, 1/16, 2/8, 3/6, 2/9, 2/7

28: 4/6, 1/28, 4/8, 3/9, 2/15, 5/6, 4/7, 6/14, 5/5, 3/7

19: 5/5, 2/10, 1/18, 4/4, 3/7, 2/9, 1/19, 3/6, 4/5, 2/8

24: 2/13, 2/12, 3/7, 3/8, 4/5, 1/24, 4/6, 5/5, 4/7, 3/9

36: 2/12, 6/7, 3/12, 1/35, 4/9, 2/18, 4/8, 6/6, 3/13, 1/36

56: 1/56, 6/9, 7/8, 2/29, 4/14, 7/9, 2/28, 1/57, 3/22, 5/11

Math--Factor Pairs Page 1 of 1 Level 4.1A

Underline the circle or metaphor in the sentence below. Then mark a line to indicate if the phrase is a simile or metaphor.

The belly was like an octopus, grabbing at all the stuffed animals on the shelf. ☒ Simile ☐ Metaphor

Read each phrase. Match it to the non-literal meaning on the left, and then to the literal meaning on the right.

Non-literal	Phrase	Literal
being loving and kind	Her sticky fingers got her in trouble.	having fingers covered with glue
being in trouble	He has a heart of gold.	sitting in a tub of hot water
taking things that do not belong	I'm in hot water now!	someone's head is in the sky
daydreaming, not paying attention	Don't keep your head in the clouds all day.	having a heart made out of solid gold

Math--Page 1 Page 2 of 3 Level K.1

Math--Page 2

What is the best estimate for 5×4 ?

☐ 500 ☒ 200 ☐ 250 ☐ 240

Which of the following is always true?

☐ odd + odd = odd ☐ even + even = even ☐ odd + even = odd ☐ even + odd = even

Solve 8×25 .

☐ 100 ☐ 200 ☐ 20 ☐ 2,000

Short Answer

11. Rachel has 7 shelves that hold 12 books each. How many books does she have in all? Show your work.

$$\begin{array}{r} 12 \\ \times 7 \\ \hline 84 \end{array}$$

Answer: 84

12. Find the product of 2 and 4. List the first 5 multiples of your answer.

Answers: 8, 16, 24, 32, 40

Math--Page 2 Page 3 of 3 Level K.1



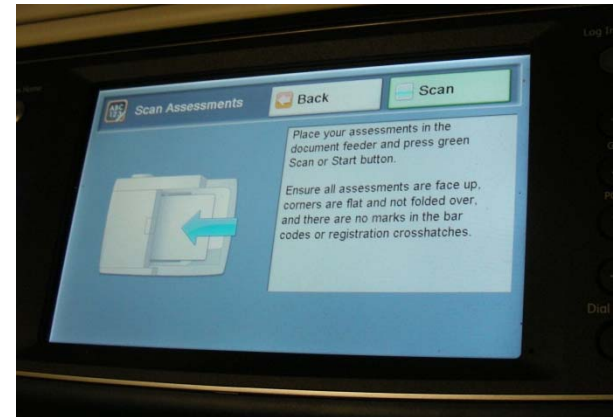
Studying the Pilot



Work Practice Study

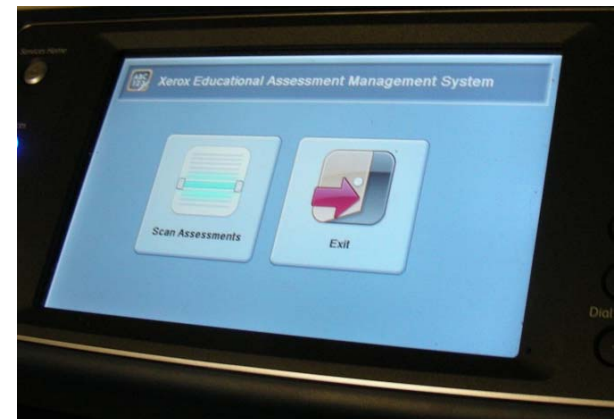
Alpha Test: 2011-12 school year

- Technology pilot in 4 elementary schools, ~100 teachers, ~1,200 students.
- Focus on assessment work process, user experience and administration data needs



Beta Test: 2012-13 school year

- Additional schools, commercialization focus
- Identifying process changes and improvements



Site Challenges

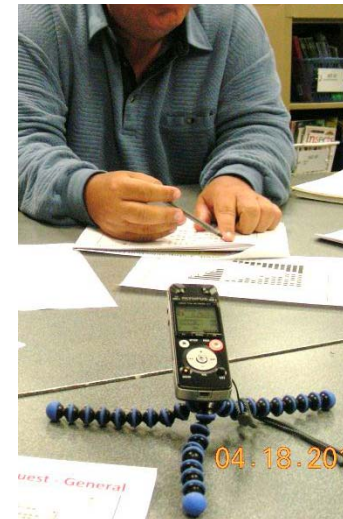
No video allowed in classrooms

Relied on observation, audio and notes

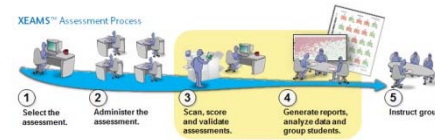
Team coordination

Participants confused by multiple Xerox contacts

Repeated information transfer

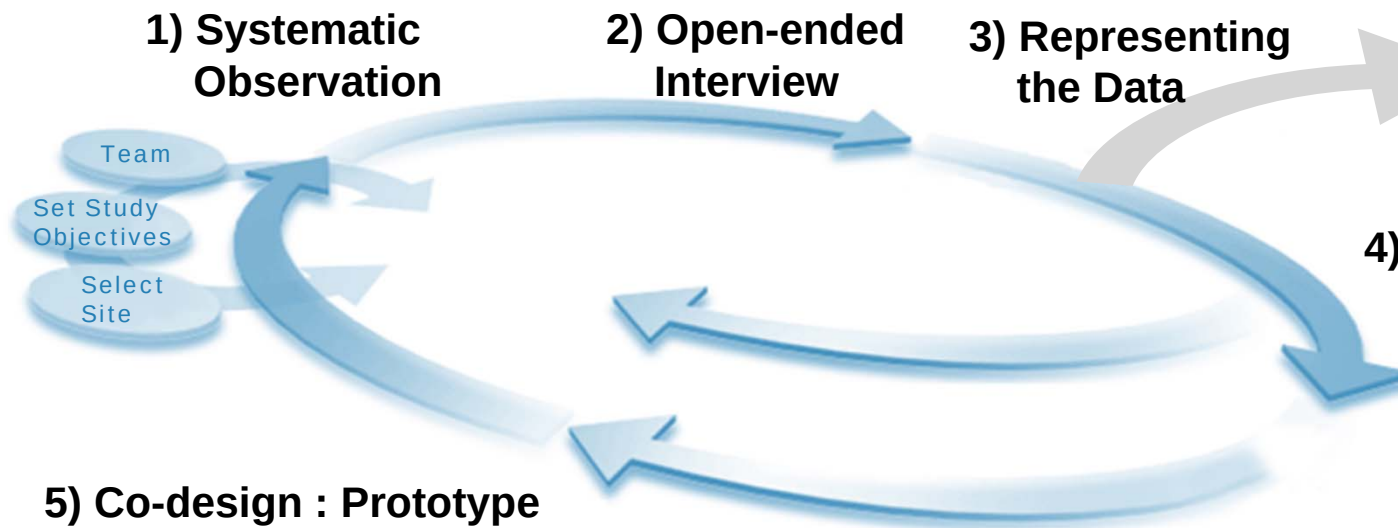


Ethnography Process & Methods



Create user Videotape Library and Database

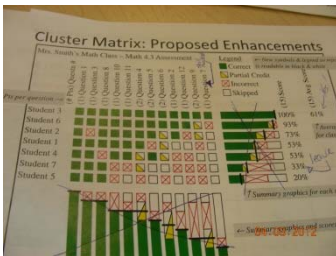
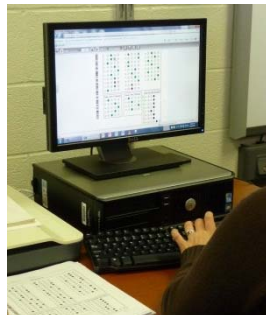
- Video records
- Transcripts
- Site maps
- Mock-ups
- Scenarios of use



4) Data Analysis



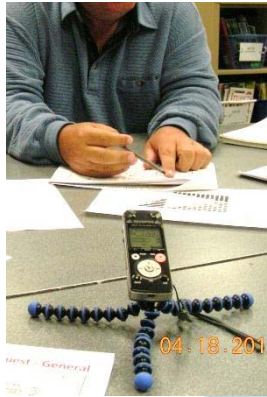
5) Co-design : Prototype



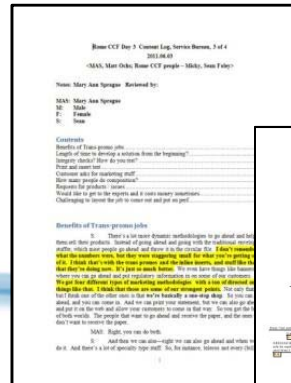
5) Co-design : Analytic



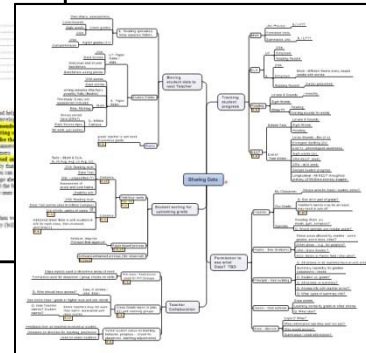
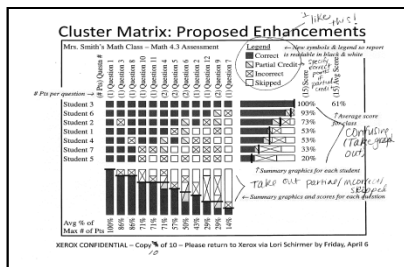
Ethnographic Technology



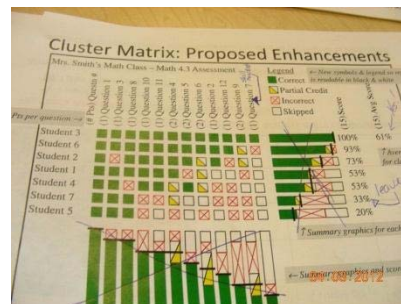
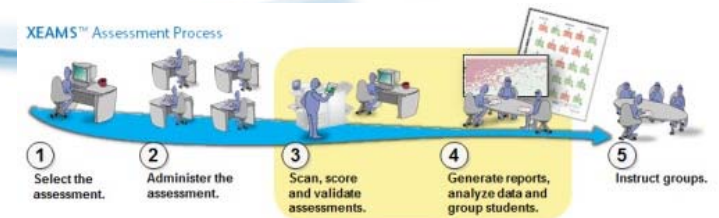
Observation & Recording



Transcription Data Analysis



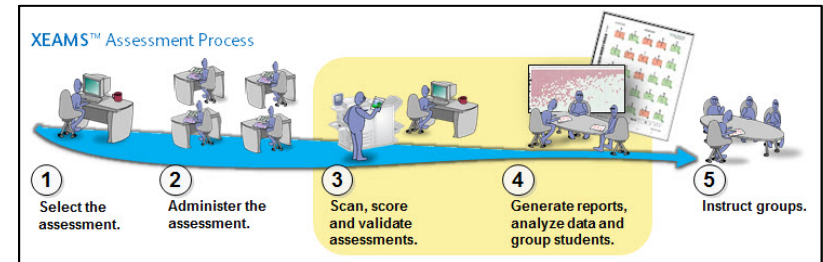
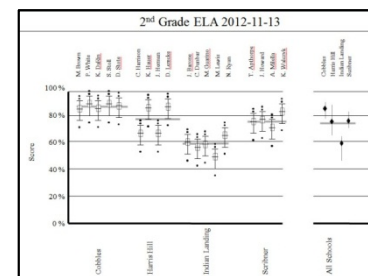
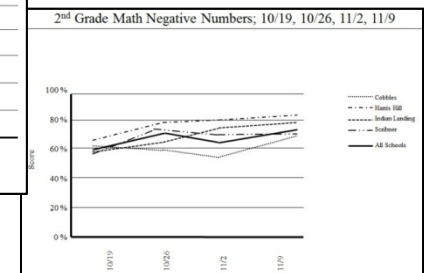
Brainstorming Co-development



Representations

Outcomes

- **Improving integration with teacher processes**
  - Making the assessment process seamless
- **Flexibility for forming learning groups**
  - Providing data needed for regrouping
- **Administration roles and requirements added**
  - New data analytics for school and district personnel



Insights

- Different timelines accelerated feedback
  - Limited teacher and administrator availability
  - Ethnographers shared findings with pilot team, & participants iteratively
- Utilized pilot support team experiences
- Identified new development areas and opportunities
- Ethnographic process still works without technology

Questions?

Thank you

