

Personal Digital Assistant Assessment Technology for Early Literacy, Preschool, and Mathematics

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EXHIBIT F Education PowerPoint consists of 26 slides Complete document provided.

A copy of the complete document is available through the Research Library (775/684-6827) or e-mail <a href="mailto:library@lcb.state.nv.us">library@lcb.state.nv.us</a>).

Meeting Date 5-10-06

# **Purpose of Presentation**

- Mention the context for our work
- Introduce the mCLASS System for Pre-K to Grade 3 mobile observational assessment in literacy and math: show some success stories
- Discuss Wireless Generation's current work with schools and districts in Nevada and around the U.S.

### Context for our work – the bad news

- 20 years of flat NAEP scores in reading and math
- In early literacy, once a child is off-track, every year they fall further behind – with obvious problems for third grade subject-area instruction
- An epidemic of Special Education over-referrals are consigning children to failure, when all they needed was to learn to read

# Context for our work – the good news

- No Child Left Behind has superintendents and principals focused on achievement, for all students
- Scientifically Based Reading Research has laid out the stepping stones to literacy (the 5 big ideas), and Reading First implementations are proving them out; similar work is well along in early math
- IDEA re-authorization is enabling Response to Intervention – a prevention model to reduce Special Education over-referrals

### **What Does Wireless Generation Do?**

- We enable every stakeholder in K-3 education student, teacher, coach, principal, administrator, superintendent, and parent – to use real-time data about student progress to improve reading and math achievement and to reduce special education referrals.
- We save teachers time returning instructional days to the classroom
- We support change management in early literacy, early math, and Rtl programs

### **How Does it Work?**



- Handheld assessment of key skill indicators, with national norms
  - Benchmarking three times per year
  - Progress Monitoring for struggling students
- Web-based reporting informs individual, class, and grade-level instruction
- Advanced analysis gives insight into implementation fidelity and effectiveness
- Professional Services team assists with analysis, coaching, and change management

### **Handheld Assessment**



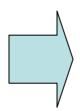


- **CLASS** DIBELS
- **CLASS** TPRI
- **CLASS** PALS
- **CLASS** Reading 30
- CLASS CIRCLE
- **CLASS** Math

# Web-Based Reporting (printable too)

- A simple "hot sync" at an internet-connected computer consolidates and coordinates student data
- All participants (principals, teachers, specialists) can collaborate on a daily and weekly basis
- Reports serve as a fulcrum for planning and learning







# Class Summary Kindergarten

DIBELS

Printer Friendly

Class Summary (Middle Benchmark)

Class: Kindergarten

Beginning Benchmark Middle Benchmark

nchmark End Benchmark

Progress Monitoring

### Kindergarten: Middle Benchmark

	ISF	LNF	PSF	NWF	WUF
	Goal: 25	Goal: 27	Goal: 18	Goal: 13	
NAME	SCORE STATUS PCTIL	E SCORE STATUS PCTILE	SCORE STATUS PCTILE	SCORE STATUS PCTILE	SCORE STATUS PCTILE
INTENSIVE					
Boyd, Aaron	4 DEFICIT 8	<b>18 SOMERISK</b> 16	HIGH RISK 1	() (HIGH RISK) 23	<b>69 N/A</b> 82
<u> Yanburen, Chuck</u>	4 DEFICIT 8	8 HIGH RISK 0	<b>4 (HIGH RISK)</b> 16	O HIGH RISK 23	<b>49 N/A</b> 40
STRATEGIC					
Busby, Brian	19 EMERGING 38	<b>46 LOWRISK</b> 84	9 SOME RISK 26	<b>19</b> LOW RISK 54	<b>46 N/A</b> 28
<u>Farris, Dan</u>	10 EMERGING 17	18 SOMERISK 16	10 <b>SOME RISK</b> 39	(HIGH RISK) 23	<b>26</b> N/A 0
<u>Twardzicki, Eric</u>	19 EMERGING 38	<b>37 LOWRISK</b> 62	16 SOME RISK 49	O (HIGH RISK) 23	<b>51 N/A</b> 59
BENCHMARK					
<u>Choi, Alan</u>	27 ESTABLISHED 49	<b>35 LOWRISK</b> 55	17 SOME RISK 55	<b>13 LOWRISK</b> 40	<b>52 N/A</b> 63
<u>Marty, David</u>	32 ESTABLISHED 72	<b>36 LOWRISK</b> 57	<b>20 LOWRISK</b> 62	<b>25</b> LOW RISK 68	<b>64 N/A</b> 70
<u>Mayer, Adam</u>	<b>31</b> ESTABLISHED 69	<b>33 LOWRISK</b> 48	<b>26 LOWRISK</b> 78	<b>24 LOWRISK</b> 65	<b>66 N/A</b> 74
Smith, Justin	<b>28</b> ESTABLISHED 55	<b>44 LOWRISK</b> 78	<b>20 LOWRISK</b> 62	<b>28 LOWRISK</b> 84	<b>73 N/A</b> 90
<u>Turnball, Ryan</u>	<b>59</b> ESTABLISHED 84	<b>43 LOWRISK</b> 73	<b>35 LOWRISK</b> 92	<b>52 LOWRISK</b> 92	<b>44 N/A</b> 20
NOT COMPLETED					

# **Student Monitoring**



Class Summary > Student Summary > Student Monitoring

Printer Friendly

Student:

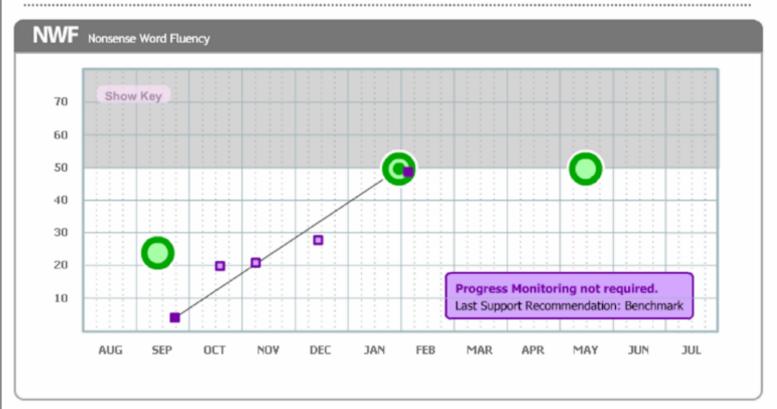
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Measure:

NWF 🚩

Monitored this period:NWF

#### **Progress Monitoring Graph**



#### **Progress Monitoring History**

NWF Nonsense Word Fluency

### Probe Detail



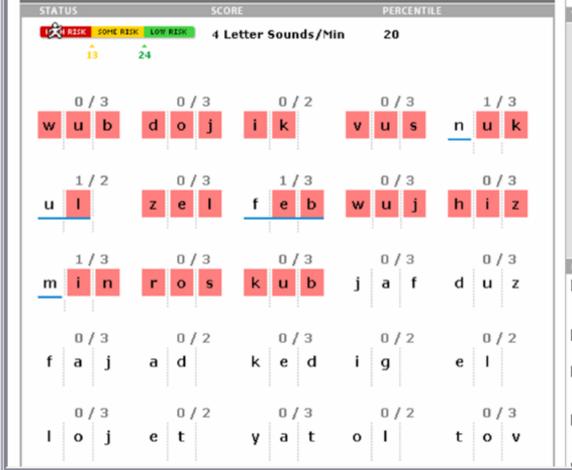
Class Summary > Student Summary > Probe Details

Printer Friendly

NWF Nonsense Word Fluency

Measure: NWF ➤ Date: 1st Grade Beginning Benchmark: 09.22.2005 ➤

# 1st Grade Beginning Benchmark: 99,22,200



# RESPONSE PATTERNS Stage 1: Has isolated lettersound correspondences but lacks a systematic strategy for attacking unknown words Stage 2: Produces correct consonant sounds; incorrect vowel sounds ☐ Stage 3: Produces most sounds correctly sound-bysound, but does not recode into complete word ☐ Stage 4: Produces sounds

correctly sound-by-sound and then recodes into complete word (e.g., /m/ /o/ /t/ "mot")

# Probe Detail



Class Summary > Student Summary > Probe Details

Printer Friendly

Measure: NWF V Date: Progress Monitoring: 10.18.2005

v

Progress Monitoring: 10.18.2005



NWF Nonsei	nse Word Fluency				ASSESSOR
STATUS	sco	RE	PERCENTI	LE	TEST NOTES
	20	Letter Sounds/	Min -1		
2 / 2 u m	2/3 j a c	z o j	0 C	3 / 3 k o m	
3 / 3 k i c	2/3 r a j	3 / 3 I o n	z e b	0 / 2 i g	
0/3 m e s	0/3 j u k	0 / 2 e t	0/3 n o j	0/3 v i n	RESPONSE PATTERNS  Stage 1: Has is
0/3 j i c	0/3 w u j	0 / 2 o m	0/3 h u l	m i d	sound correspond lacks a systema attacking unknow Stage 2: Productions on a system wowel sounds
0/3 b e s	0/3 p e k	m o z	0 / 2 u m	u t	Stage 3: Production sounds correctly sound, but does into complete was Stage 4: Productions output to the stage of the sound-correctly sound-
0/3	0/3	0/3	0/3	0/3	then recodes in word (e.g., /m/

- isolated letterondences but natic strategy for nown words
- uces correct inds; incorrect
- uces most tly sound-byes not recode word
- uces sounds d-by-sound and into complete //o//t/"mot")

## Probe Detail



Class Summary > Student Summary > Probe Details

Printer Friendly

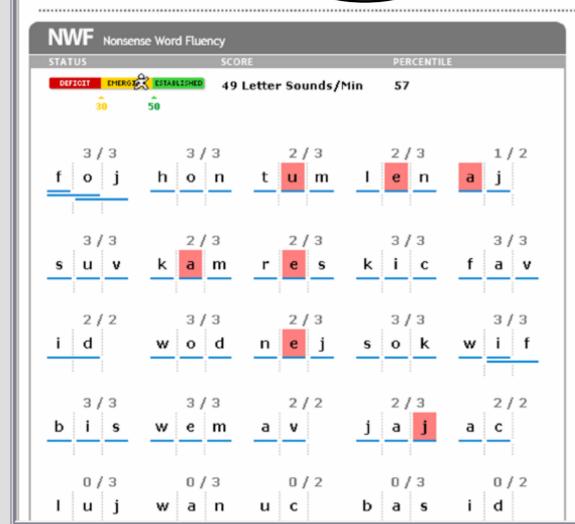
NWF V Date:

1st Grade Middle Benchmark: 02.03.2006



#### 1st Grade Middle Benchmark: 02.03.200





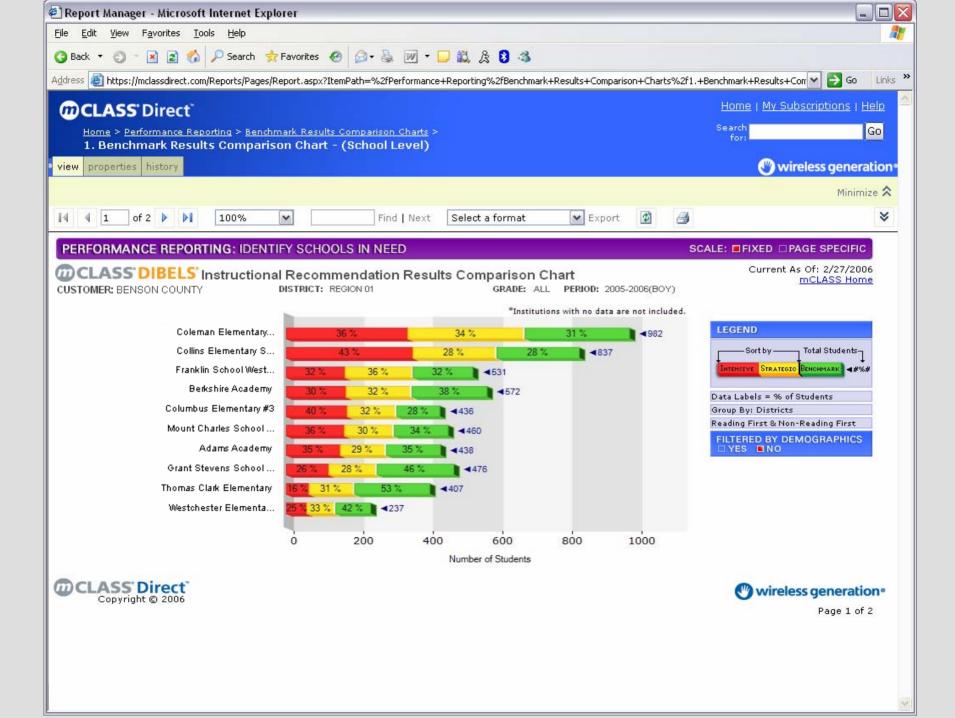
TEST NOTES

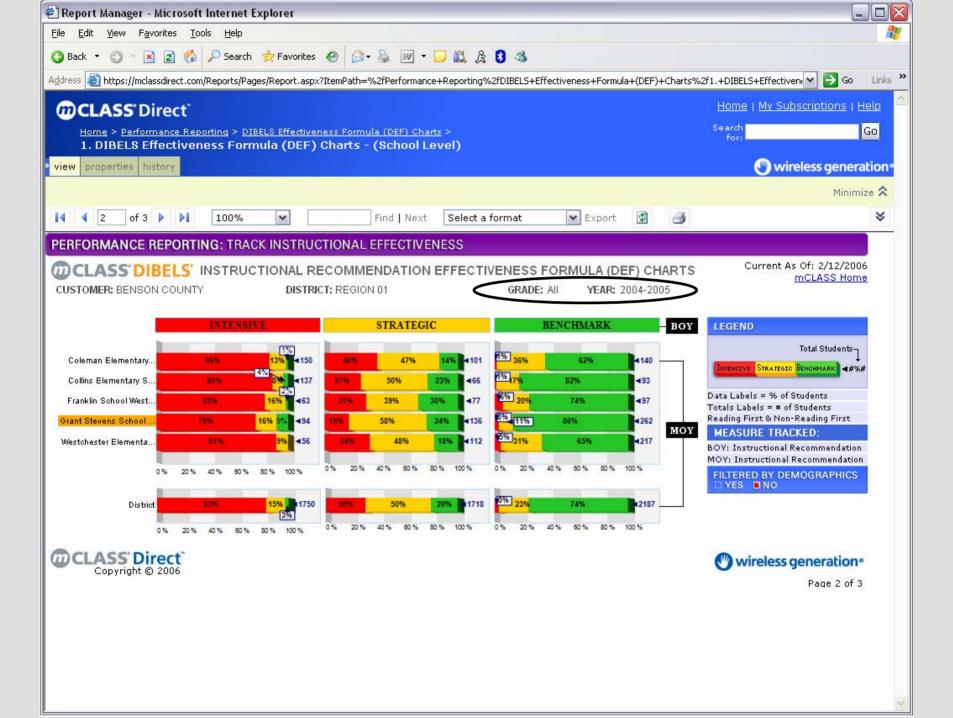
#### RESPONSE PATTERNS

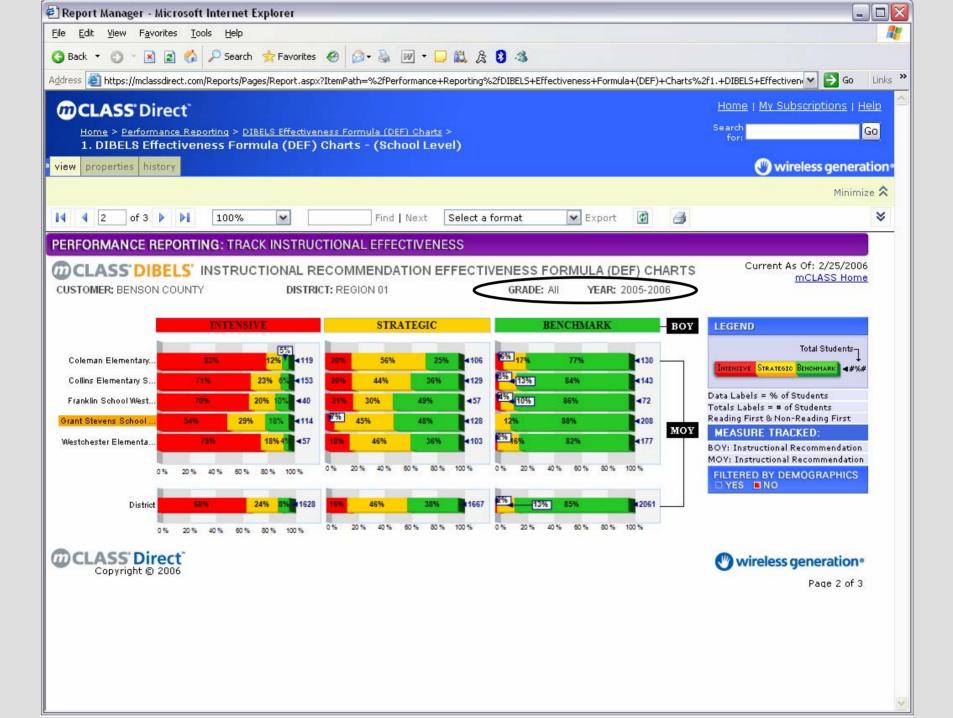
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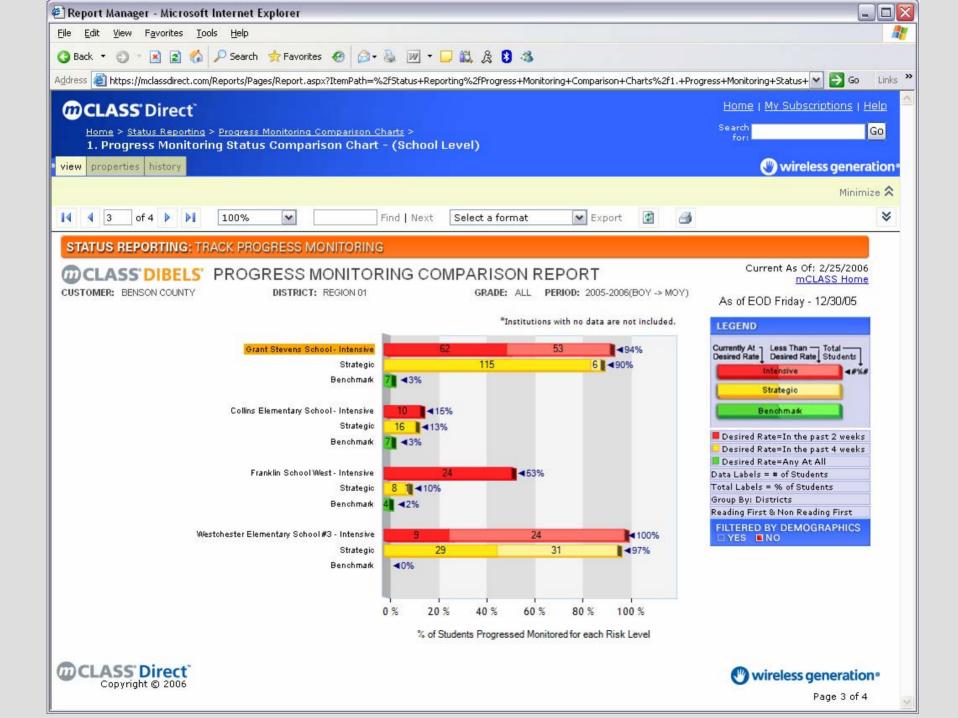
# **Advanced Analysis – mCLASS:Direct**

 Real-time aggregation allows collaboration up and down the organization – a "dashboard," with drilldown and slice-and-dice … and with interpretation









## **Professional Services**

- Advanced, customized data analysis and reporting
- Program planning
- In-person presentations and workshops
- On-site coaching and mentoring

- Serving 15,600 students in 31 schools this year 30 schools are using DIBELS and PALS, as part of the Reading First program
- Reaching an additional 16,850 students and 40 schools next year, often as part of SB 404
- In Clark County School District:
  - Starting Math in 5 schools this fall
  - Providing an Rtl model for 8 schools this fall (tentative)

# Nationally ...

- Serving 16 state Reading First programs
- Serving 1,700,000 students in 49 states

# **Key Implications**

- "Catch them before they fall" we no longer have to wait for children to fail to intervene and help them reach grade level by grade 3
- "Real-time improvement" we can react to student learning, and individualize instruction, on a daily and weekly basis, guided by meaningful cutpoints
- "It's about all children" RtI, using tools like ours, helps Special Ed and General Ed focus together on achievement for all students