

**Improving Student Performance During
Times of Declining Resources:
Addressing Efficiency and Effectiveness**

October 2, 2009



Dr. Willard R. Daggett

International Center for Leadership in Education

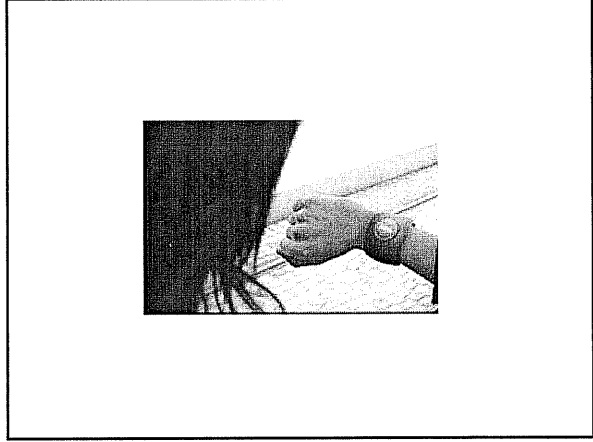
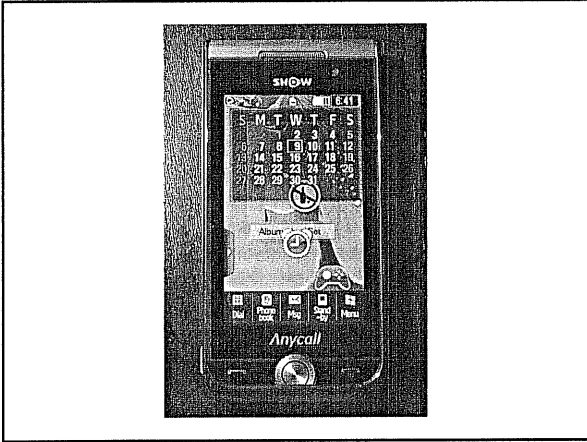
International Center Finding

- Nation's top performing
- Nation's most rapidly improving

WHY - WHAT - HOW

Challenges

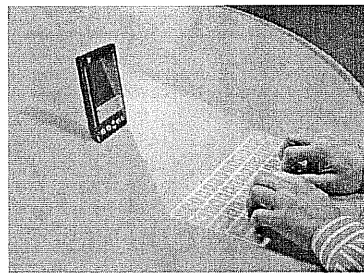
1. **Technology**



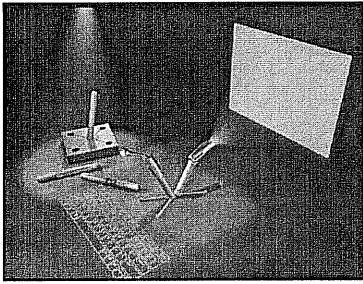
SPOT

- Integrated Projection
- Projection Keyboard

Projection Keyboard



Projection Keyboard and Projector



Challenges

1. Globalization

DEATH OF DISTANCE

Wal Mart

- Largest Corporation
- 8 times Size of Microsoft
- 2 % of GDP
- 1.4 Million Employees
- More Employees than:
 - GM, Ford, G.E. and IBM Combined

Source: The Post-American World

“China today exports in a single day more than exported in all of 1978.”

Source: The Rise of India and China . . .

Savings Rate

1. India -- 25%
2. Japan -- 28%
3. Korea -- 30%
4. China -- 50%
5. United States -- (-4%)

U.S. – 2nd Half of 20th Century

- Only Superpower
- Highest per Capita Income
- 1st in Economic Growth
- 5% of Population > 24% of Consumption

Source: National Academy of Science

Chinese Science

Elementary Schools	6 Years Integrated Science
Biology / Chemistry	Grade 7
Biology / Physics	Grade 8
Physics / Chemistry	Grade 9
Integrated Science	Grades 10 - 12

Source: Ed Week 6/6/07

Challenges

- 1. Globalization**
- 2. Technology**

Institute for 21st Century Leadership

- ACTE**
- ICLE**
- CCSSO**
- USDOE**

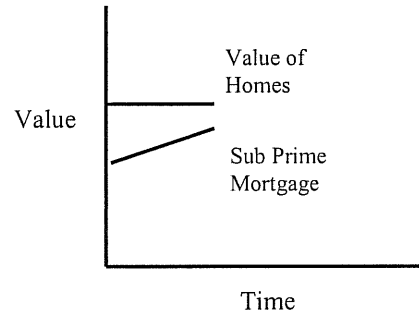
Maintain 20th Century Schools/Colleges

vs

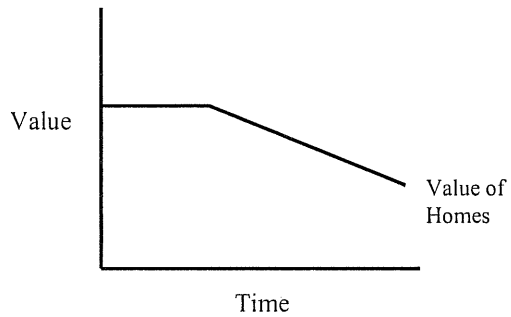
**Develop 21st Century Skills
in
21st Century Learners**

The Cliff

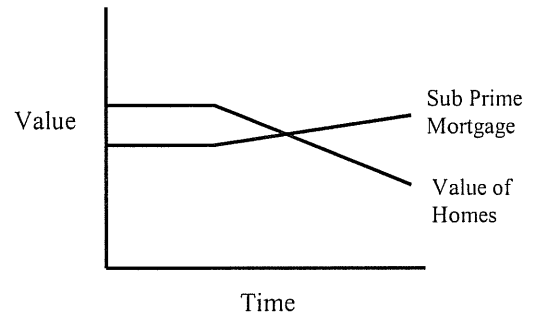
Sub-Prime Mortgage Crisis

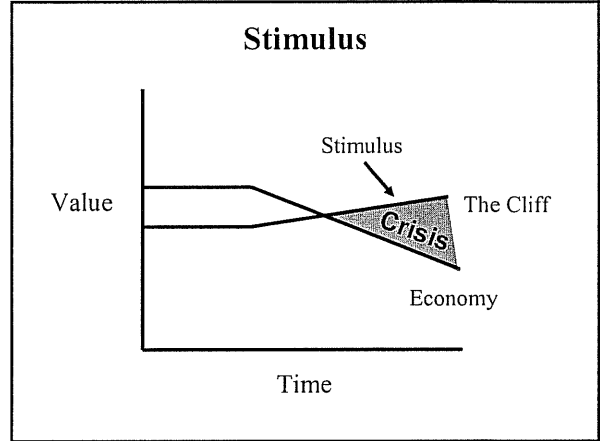
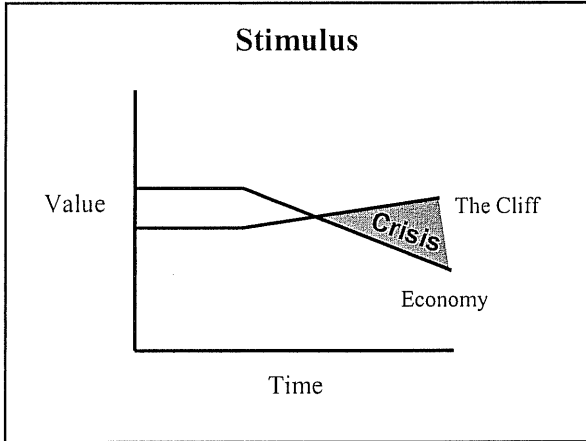


Sub Prime Mortgage Crisis

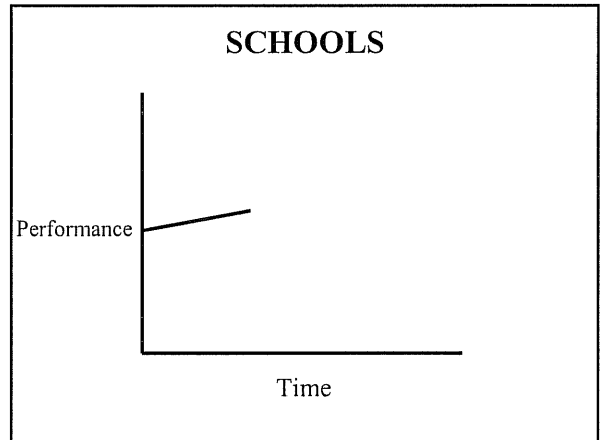


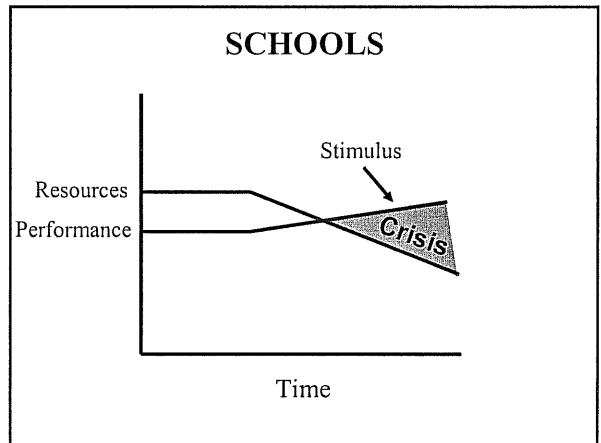
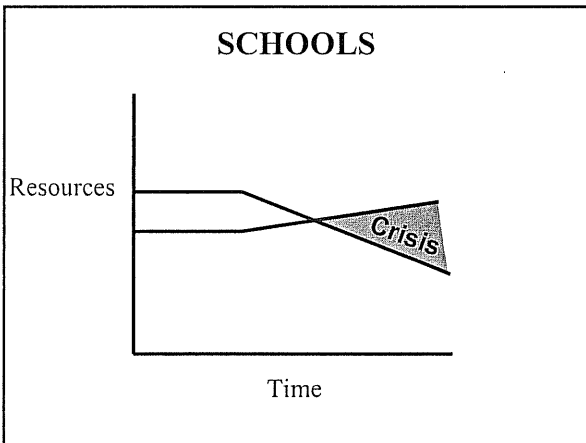
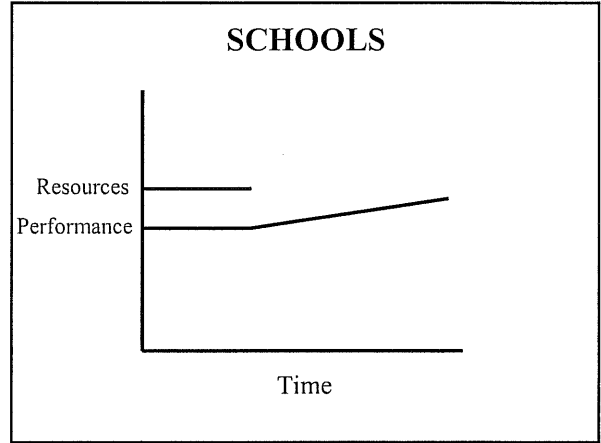
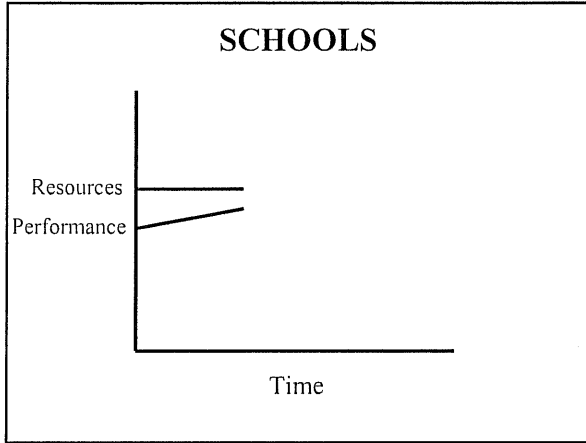
Sub Prime Mortgage Crisis





- Other Sectors of the Economy**
1. Auto
 2. Real Estate
 3. Airlines





STIMULUS

Short term funding should be used to stimulate long term improvement

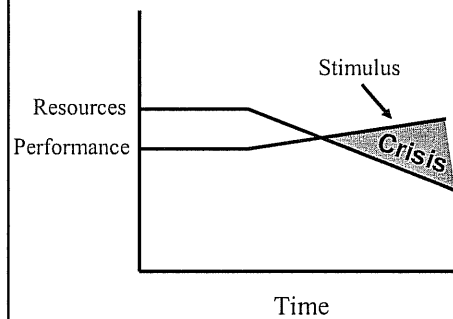
NOT to maintain what exist

Secretary Duncan

“ The first question, I promise you, will be what did you do with the stabilization money to drive reform and improve achievement? If there isn't a good answer to that, they might as well just tear up the form.”

TIME OUT

CANNOT BE BUSINESS AS USUAL



Lag in Budget Reductions

- 2001 – Economic downturn ended
 - State budget reduction in 2002 - \$14B
 - State budget reduction in 2003 - \$12B
- 2009 – Economic downturn has not yet ended
 - State budget reduction in 2009- \$31.6B
- 2010 – 35 states have already predicted additional cuts

Global Society

Who will stay and who will leave

WHY - WHAT - HOW

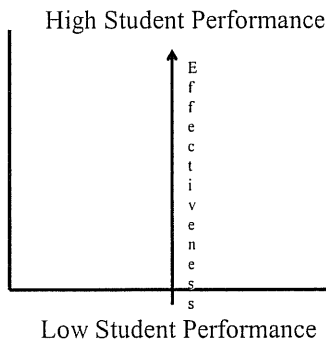
Effective and Efficient Framework

Bases of ICLE Position

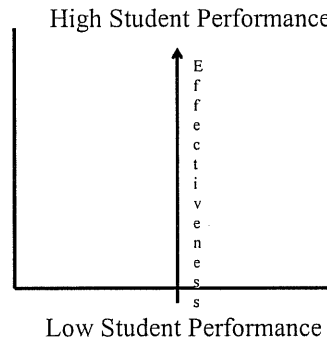
- International Center with Nation's most Successful Schools
- Funding Student Learning – Report

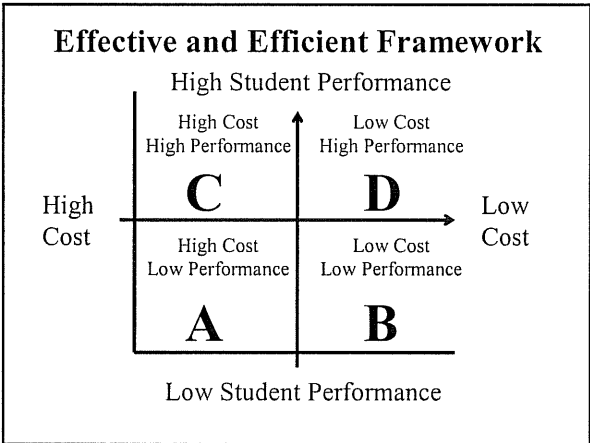
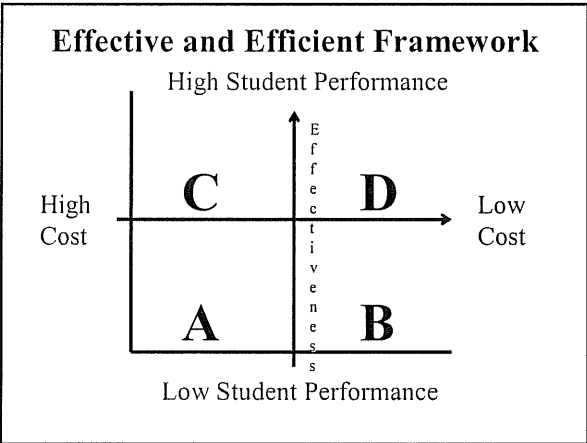
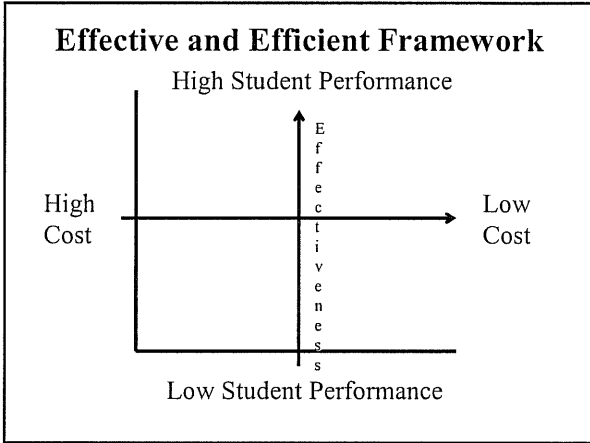
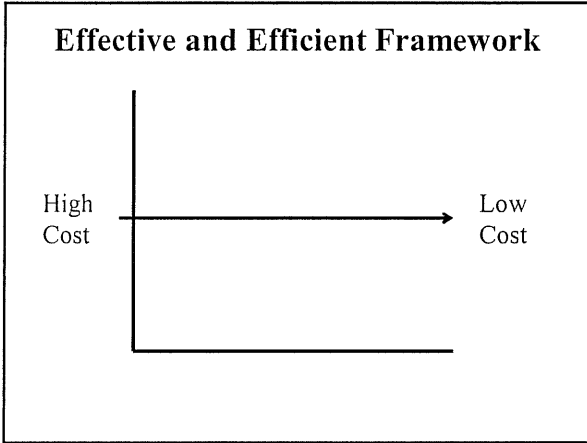
Framework Vs. Index

Effective and Efficient Framework



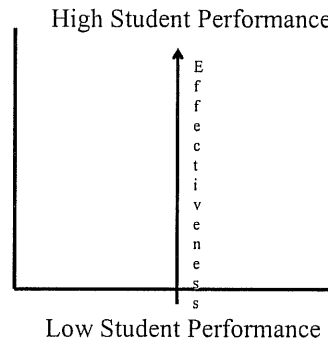
Effective and Efficient Framework





WHY - WHAT - HOW

Effective and Efficient Framework



Application Model

1. Knowledge in one discipline
2. Application within discipline
3. Application across disciplines
4. Application to real-world predictable situations
5. Application to real-world unpredictable situations

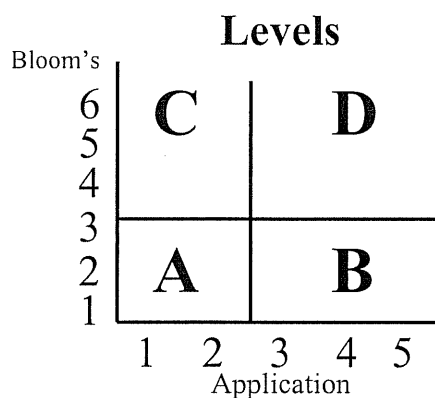
Rigor/Relevance For All Students

Knowledge Taxonomy

1. Awareness
2. Comprehension
3. Application
4. Analysis
5. Synthesis
6. Evaluation

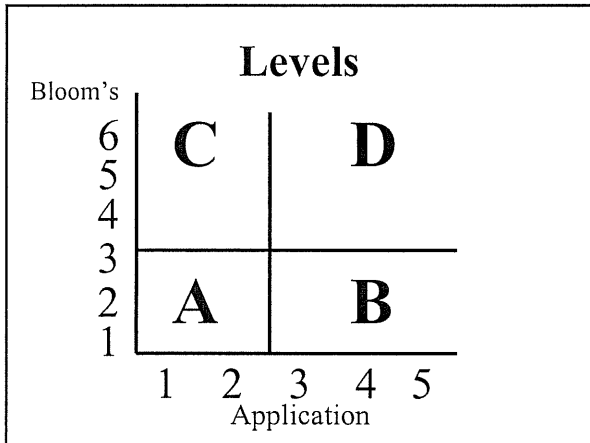
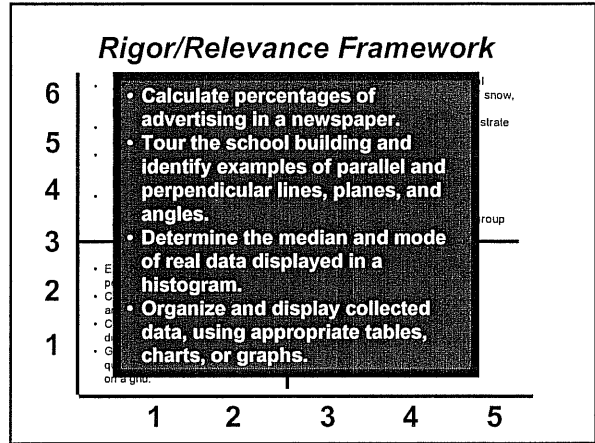
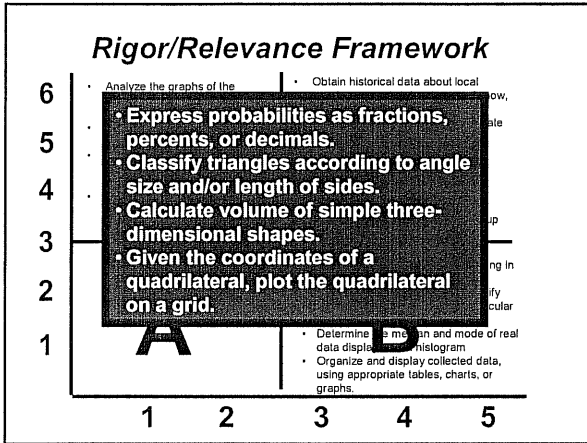
Application Model

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Rigor/Relevance Framework

6	<ul style="list-style-type: none"> Analyze the graphs of the perimeters and areas of squares having different-length sides. Determine the largest rectangular area for a fixed perimeter. Identify coordinates for ordered pairs that satisfy an algebraic relation or function. Determine and justify the similarity or congruence for two geometric shapes. 	<ul style="list-style-type: none"> Obtain historical data about local weather to predict the chance of snow, rain, or sun during year. Test consumer products and illustrate the data graphically. Plan a large school event and calculate requirements (food, decorations, etc.) you need to organize and hold this event. Make a scale drawing of the classroom on grid paper, each group using a different scale.
5		
4		
3		
2	<ul style="list-style-type: none"> Express probabilities as fractions, percents, or decimals. Classify triangles according to angle size or length of sides. Calculate volume of simple three-dimensional figures. Given the coordinates of a quadrilateral, plot the quadrilateral on a grid. 	<ul style="list-style-type: none"> Calculate percentages of advertising in a newspaper. Tour the school building and identify examples of parallel and perpendicular lines, planes, and angles. Determine the mean and mode of real data displayed in a histogram. Organize and display collected data, using appropriate tables, charts, or graphs.
1		
	1 2	3 4 5



18th Annual Model Schools Conference
 Monday, June 14 – Thursday, June 17, 2010
 Orlando

www.ModelSchoolsConference.com

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