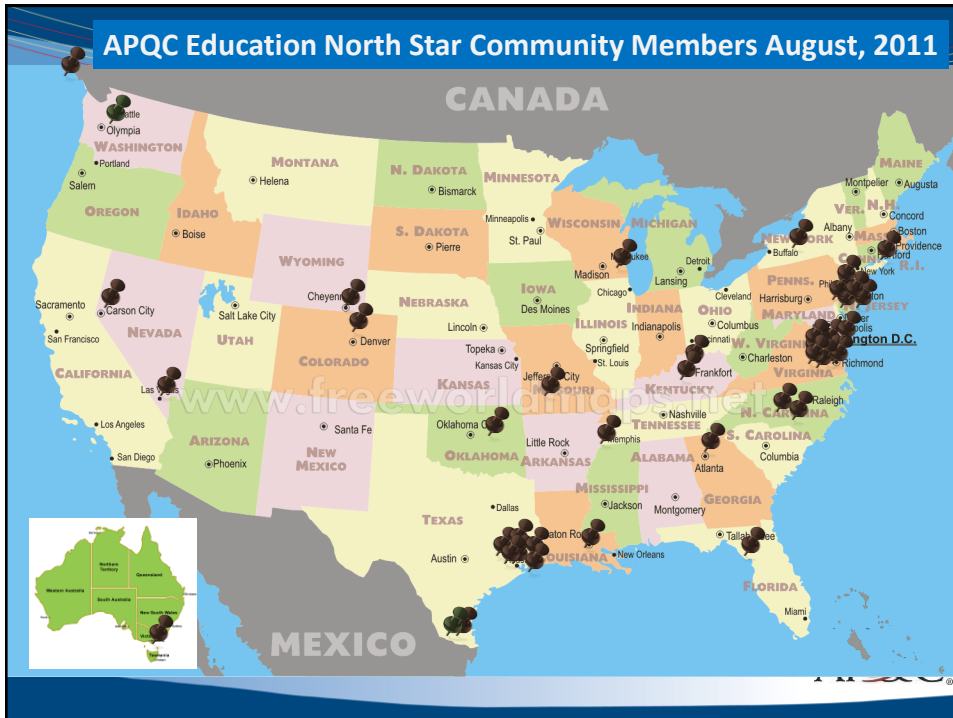


## North Star Results Snapshot

**Total Savings: \$50M+**

Automated After-Hours Computer Shutdown	Cost savings of 13m kilowatt hours worth <b>\$1.6m</b>
Print Shop Process Changes	Cost savings of <b>\$1.1m</b> and <b>39,600</b> instructional hours
Transportation Process Redesign	Cost Savings of <b>\$104,000</b> first year
Dropout Rate	Decrease <b>from 6.5% to 3.8%</b>
Out of School Suspensions	Reduced by <b>50%</b>
School Improvement Process Design	District has met AYP <b>3 of the last 4 years</b>

### APQC Education North Star Community Members August, 2011



## What is DMAIC and why do we use it?



- A five phased approach for teams to:
  - understand the process and the customer
  - determine performance issues
  - analyze for root causes
  - create powerful solutions
  - translate the opportunity and sustain the gains

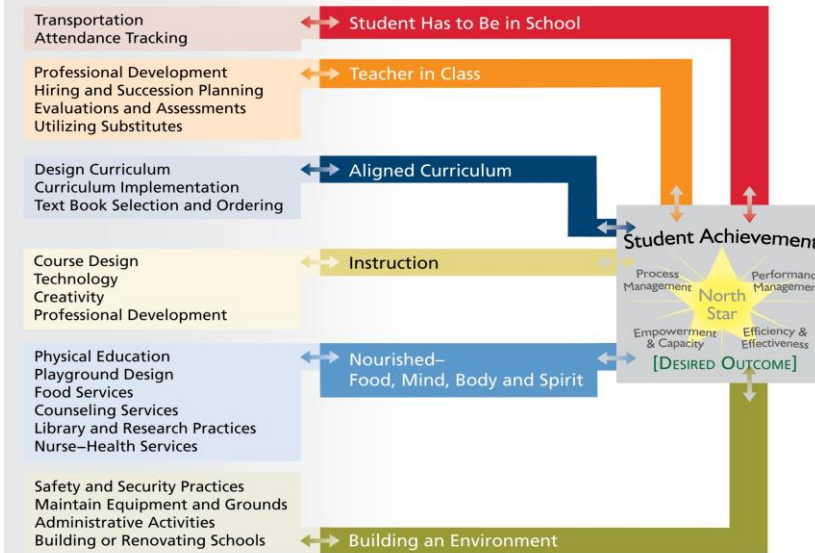
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## All Processes Lead to Student Achievement

### PROCESSES TO CREATE AND SUSTAIN



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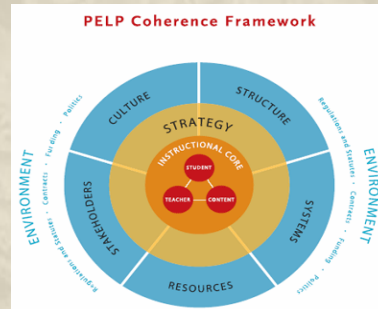
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# BOONE COUNTY SCHOOLS NORTH STAR PROJECT

## BACKGROUND/HISTORY:

- ❖ *Executive Leadership Program*
- ❖ *Systemic Changes at the Schools*
- ❖ *Systemic Changes at the District*



Culture	Stakeholders	Resources	Systems	Structure
Quality district	Students	Finances	Board of Education	SBDM
All can learn	Staff	Contract	Evaluation/promotion	School autonomy
Always can do better	Parents	DIP/Strategic Plan	Principal leadership	District leadership
Stay on the cutting edge	BCEA & BCCEA	Pupil/teacher ratio	Itinerant support staff	T&L Committee
	Governmental agencies	Technology	Assessment & Accountability	District Committees
	Community members & organizations	Student services/alternative programs	Data driven decision making	School level groups
	Business & industry			Cluster level groups

## WHY APQC?



## PROJECTS SELECTED:

- ❖ Maintenance – Work order completion
- ❖ Transportation – Efficient routes
- ❖ Fixed assets – Audit information
- ❖ Position control – On-the-spot information
- ❖ Preschool – enrollment process



POSITIVES FROM THE TRAINING



POSITIVES FROM THE TRAINING

**NEXT STEPS:**

- ❖ Monthly progress reports to Implementation Sponsor
- ❖ Additional training day in January to update and refine
- ❖ Presentation to the Board of Education in the spring

Ohio County School District  
North Star Projects  
January, 2012

## Selected Projects

- Transportation-(expenses, routes, replacement cycle, etc.)
- Technology-equipment
- Maintenance-tracking expenses, preventive maintenance
- Food Service-expenses, revenue, quality of food

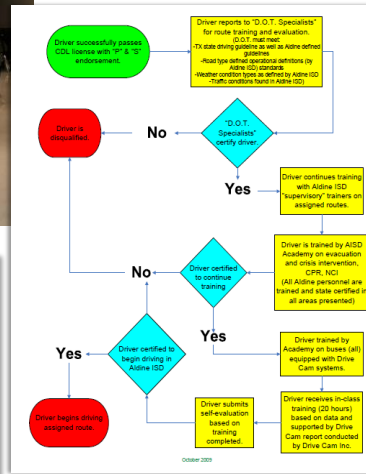
## Case Studies

## Aldine ISD – Transportation Process Improvement



**Project results:**

- Savings of over \$104k in one year
- At-fault accidents cut in half
- Decrease in lost instructional hours for students

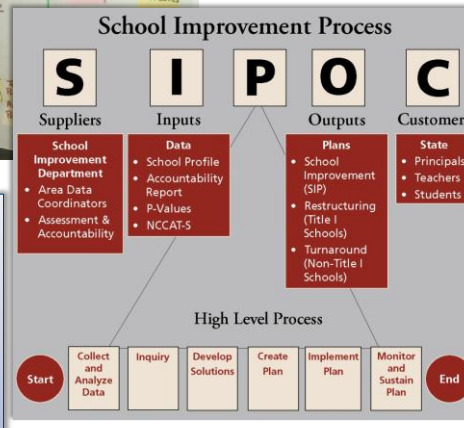


## Clark County Public Schools – School Improvement Process Redesign




**Project results:**

- Collaborative approach to school improvement
- District has met AYP 3 of the last 4 years
- Improved tools and use of data



## Poudre School District- Online Academy Process Design



**Poudre School District  
Online Academy**  
Excellence and Innovation

PSD Online SIPOC

Input	Process	Output
<ul style="list-style-type: none"> <li>• Goals</li> <li>• Tech.</li> <li>• Budget</li> <li>• Policies</li> </ul>	<ul style="list-style-type: none"> <li>• Research</li> <li>• CDE Meeting</li> <li>• Find Vendor</li> <li>• Design Plan</li> <li>• Marketing</li> </ul>	<ul style="list-style-type: none"> <li>• 24/7 School</li> <li>• Students Graduating</li> <li>• Self-funded school</li> </ul>

*The PSD Online Academy has practically saved me. I've finally been getting to understand so many concepts that I've never understood in school.*


—Lindsay G, age 16

*The best part of the online classes... I can get a diploma, work, and spend more time with my baby.*

— Rigoberto V., age 20


**Project Results:**

- Successful creation of a 6-12 grade online school
- \$900k+ to district
- High satisfaction ratings from parents
- Dynamic control plan for sustainability and continuous improvement of Online Academy



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# Discussion

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