

Transformation of Education

Setting The Context



State Board of Education

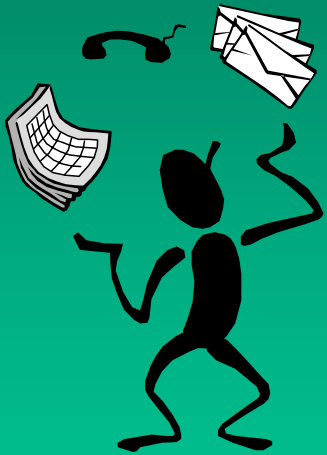
and



September 24, 2008

Goals for this presentation

- Why is Transformation Needed?
- What do we mean by “Transformation”?
- Where are **WE** in the process?
- Where do we hope to go from here?



But first, a little history....



- Transformation has been around
 - A Nation at Risk
 - Block Schedules
 - Distributed leadership

Why is Transformation Needed?

- Standards-driven education and results
- Globalization and technology
- Need for 21st Century Knowledge & Skills



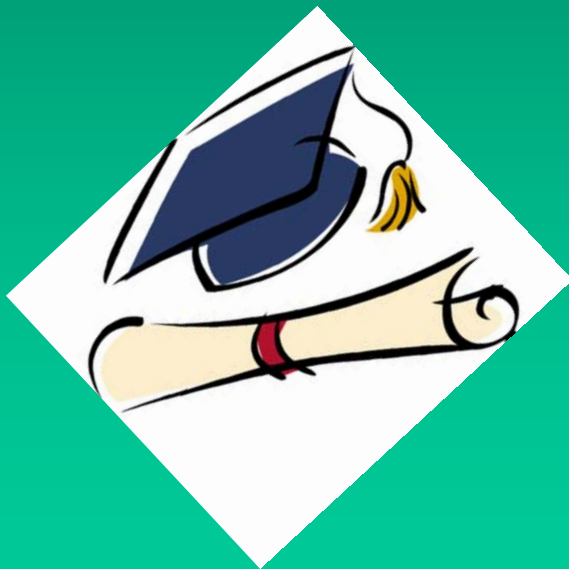
Standards-driven education and results

NAEP

NECAP

Graduation Rates

Other data

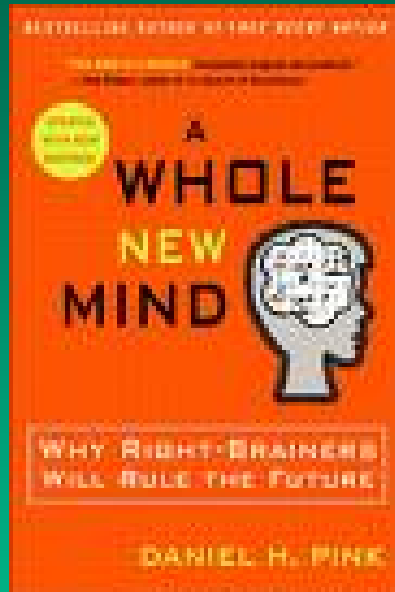


- Significant portion of students are not achieving standards
- Significant variation in performance based on gender and poverty

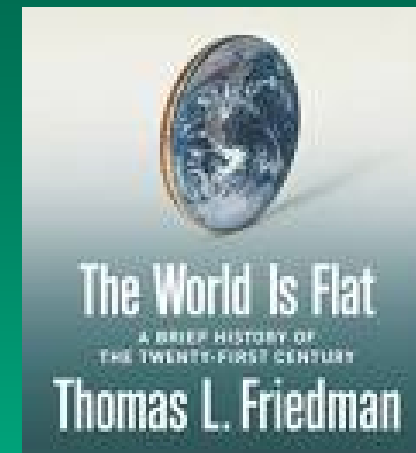
But it's more than assessment results
and Graduation rate!



We can't base the Future on our Past



- Competitive edge = creativity & innovation
- Abundance
- Asia
- Automation



- Americans compete in global, web-enabled playing field
- Allows for multiple forms of collaboration in real time, without regard to geography, distance even language

Technology & Information Growth

- 21st century will see a thousand times greater technological change than occurred in the 20th century!!! Exponential Growth.

Example:

During 2 years in 80's, internet grew from 20,000 to 80,000 nodes.

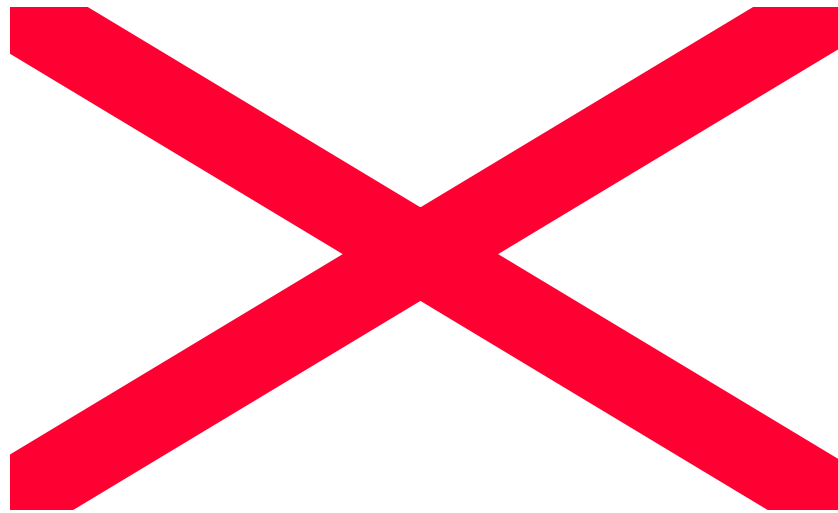
During 2 years in 90's, internet grew from 20 million to 80 million nodes.

- When this year's kindergarten students graduate in 2021, they will be operating in a world that has 64 times more information than exists today!!

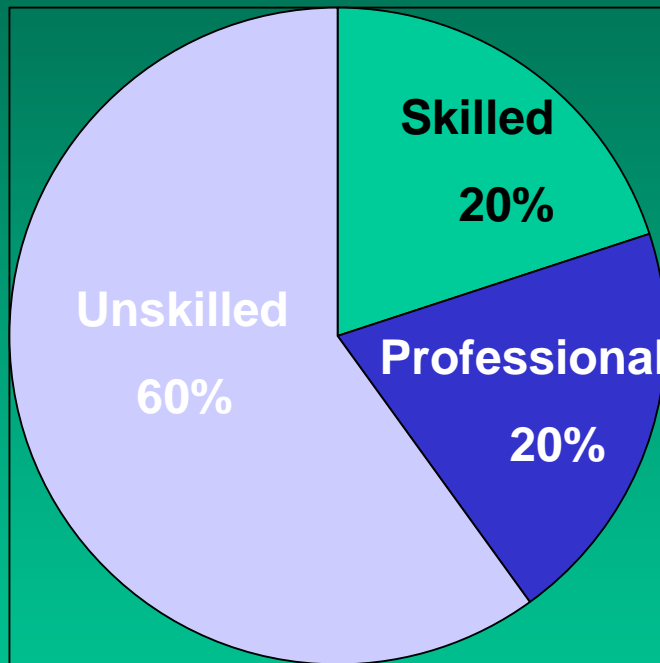
From
OECD

Moving targets

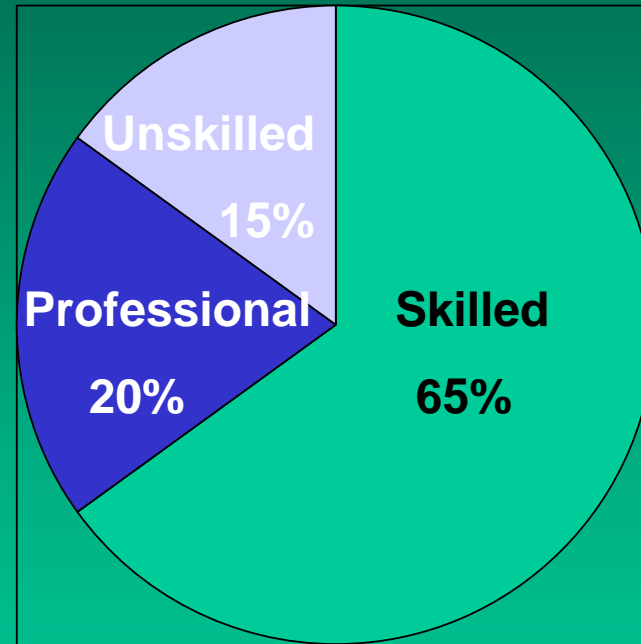
Future supply of high school graduates



Skill Level Changes



1950



1997

New Context

Skills Required

Global Competition:

- Global Awareness
- ICT Literacy
- Creativity & Innovation
- Critical thinking & Problem Solving
- Cross Cultural collaboration
- Entrepreneurship

Changing Nature of Jobs & Careers:

- Critical Thinking & Problem Solving
- Innovation & Improvement
- Flexibility & Adaptability
- Leadership & Initiative
- Productivity & Accountability
- Research & learning skills

Information Growth:

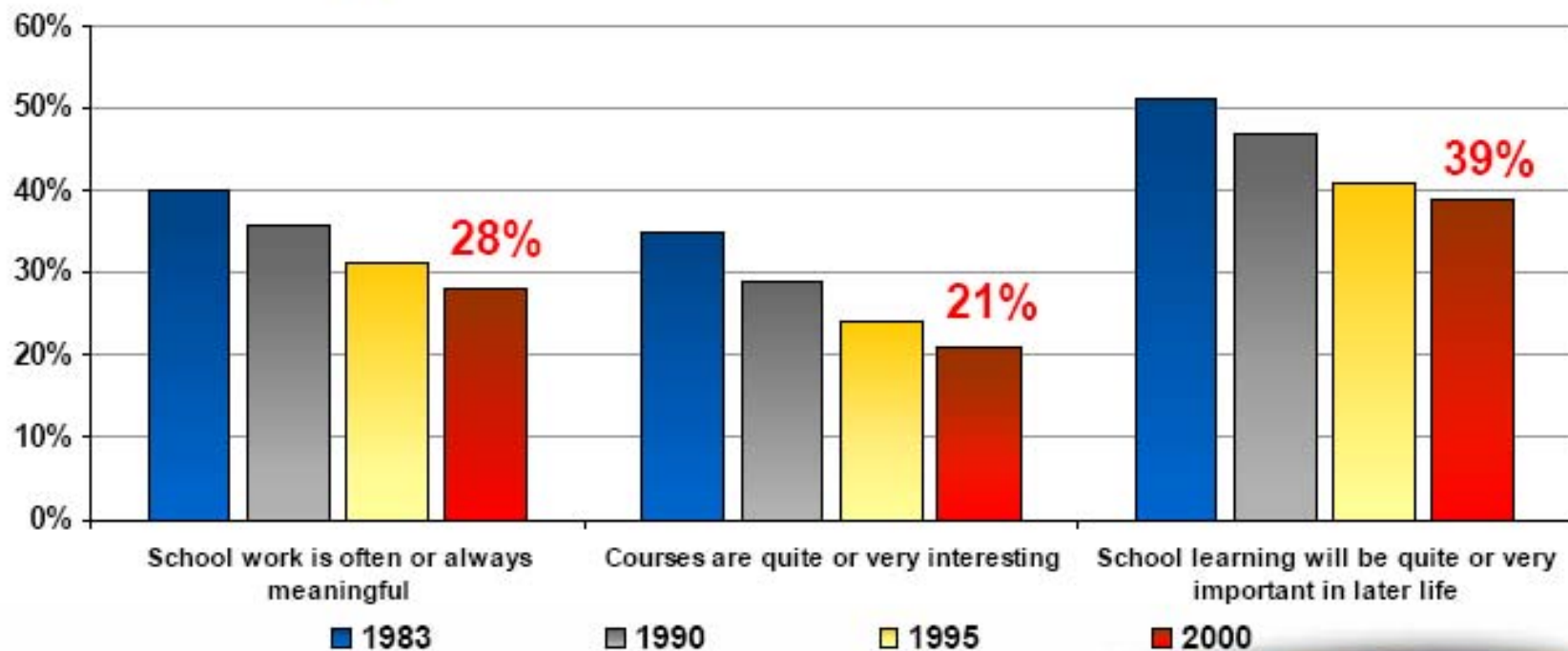
- Information Literacy
- ICT Literacy
- Critical Thinking & Problem Solving
- Research & learning skills

Technology Growth:

- Information Literacy
- ICT Literacy
- Critical thinking & Problem Solving

What do Students say?

12th Graders Perceptions About School⁸



Source: NCES

What do we mean by “Transformation”?

- In essence.... Moving to learning environments that are:



Collaborative



Active



Creative

Engaging



Technology-rich

More specifically – skills

- Rigorous academics in traditional disciplines (English, math, science, and social studies) and expanded emphasis on 21st century disciplines (world languages, economics, entrepreneurship, personal finance, health, arts, ecology, political science)
- Critical thinking and problem-solving skills
- Creativity and innovation
- Communication and collaboration skills
- Information and media literacy
- The ability to use information and communication technology
- Flexibility and adaptability
- The ability to demonstrate initiative, productivity and self-direction, as well as leadership, responsibility, ethics and accountability
- Social and cross-cultural skills

How will they acquire these skills?

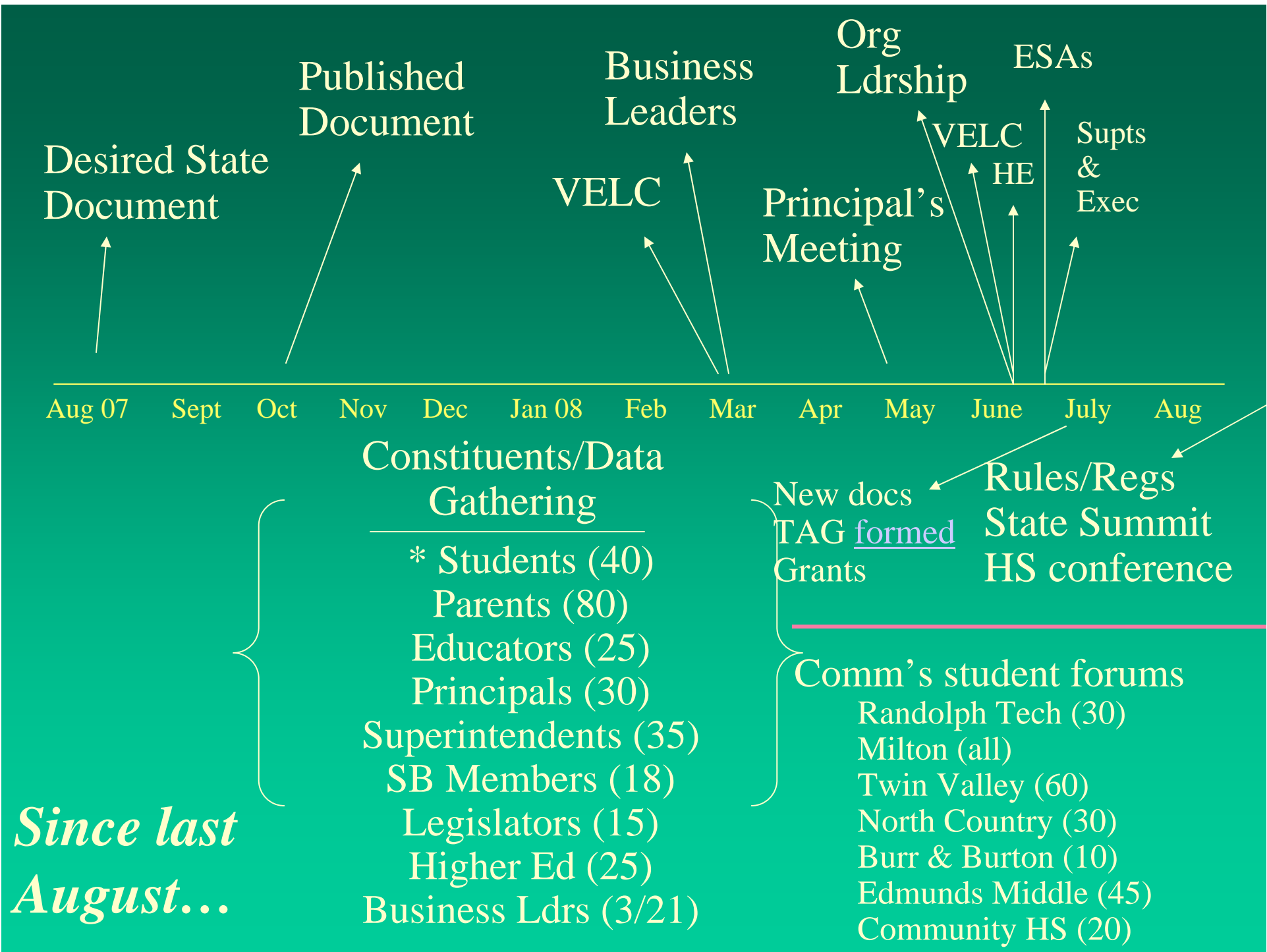
- Personalized learning
- Flexible Environments
- Applied, project-based and interdisciplinary learning
- Collaborative learning
- Inquiry and investigation
- Technology for learning
- Demonstration of competence
- Information access, analysis, synthesis and the generation of new ideas

Moving Forward

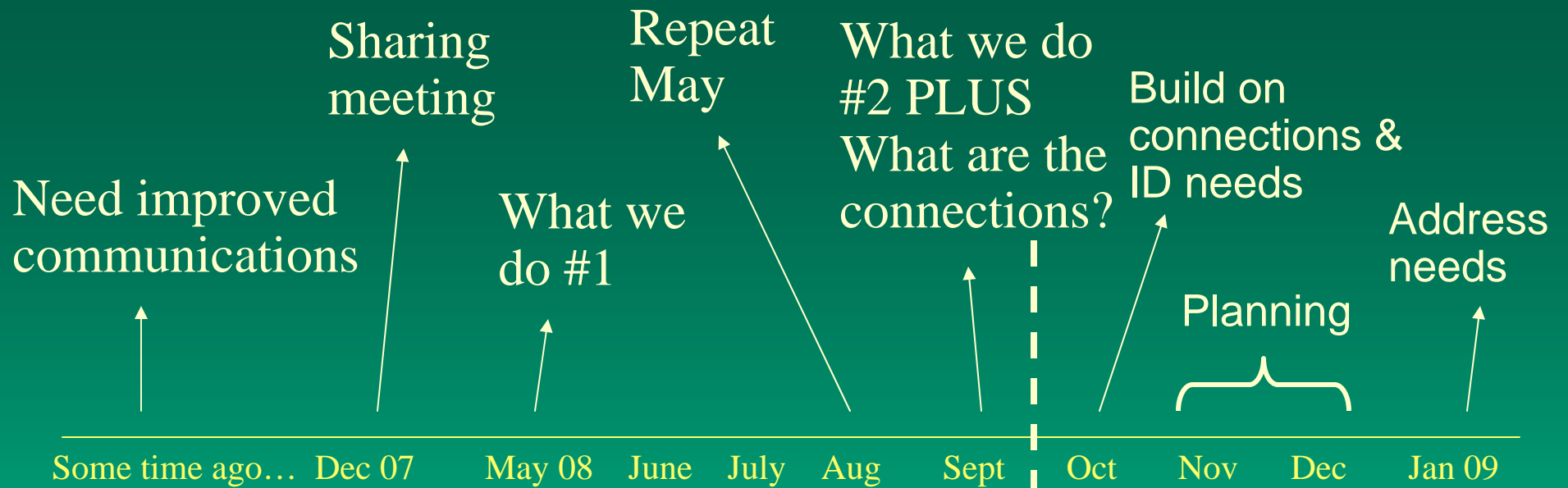
So.... Where are we now?



Vermont State
Board of Education



Since last August...



Gathering information and understanding what others do



Finding connections and leveraging our work



Where are WE now...

“Cross Over”

Transformation Action Group (TAG)

- Leadership and direction for transformation.
- Developing and disseminating communications
- Identifying the work we are already doing that supports transformation
- Describing how that work might be expanded
- Supporting the development of a shared vision for transformation with external stakeholders
- Assist in creation of system structures that promote collaboration among external partners.

TAG Members

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