A photograph of a multi-story hotel building with a modern architectural style. The building has a mix of light beige and reddish-brown panels. In the foreground, there is a covered entrance area with the word "Milton" and a circular logo. Three flags are flying on poles: a blue flag with a white emblem, the United States flag, and the Florida state flag. A tall palm tree stands to the right of the building. The sky is clear and blue.

CTC Seminar


Supporting Teacher Educators: Pedagogy to Engage Today's Students

June 23, 2009

Tom Welch

tom@twelchconsultin.com

Presentation available at
www.twelchconsulting.com



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The Conference Purpose

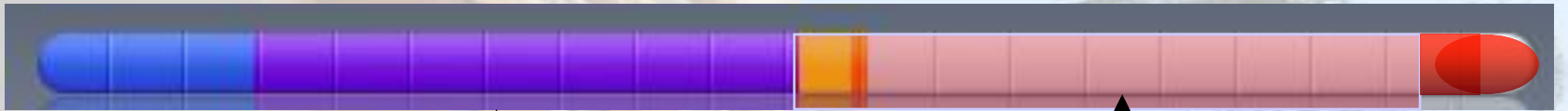
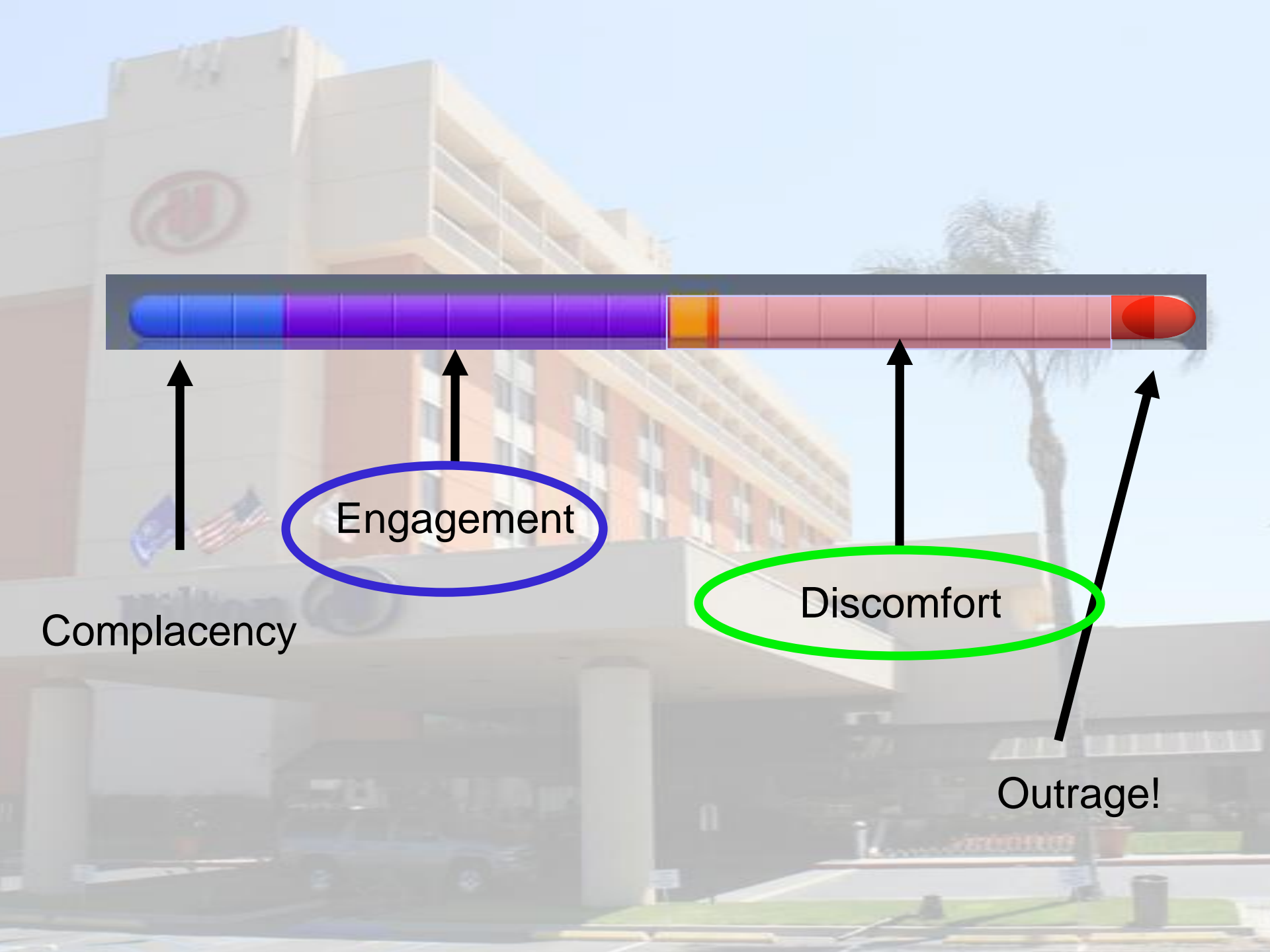
"A conference to enhance our mutual understanding, knowledge and practice of subject-specific pedagogy in teacher education through developing a community of teacher preparers."

Learning Outcomes

- Gain an understanding of subject-matter focused current and future trends and their implications for learning and teaching.
- Discuss current and future paradigms and practices for specific content areas.
- Discuss how practice can and should change in the content field in order to advance learning for candidates and K-12 students.

Some "Givens"

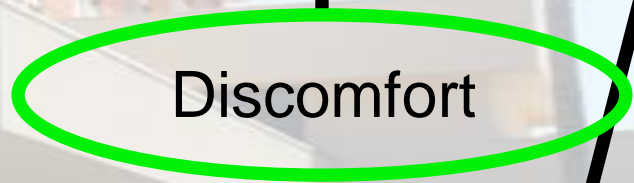
- I'm all about learning.
 - It's the coolest thing on the planet!
- We are on the verge of a Golden Age of Learning
- We are on the verge of a Golden Age of Teaching
- The roles of teachers (and teacher certification agencies) is about to change dramatically
- Everything is an opportunity to learn
- Geography must no longer be allowed to determine a student's ability to learn at the highest levels.



Complacency



Engagement

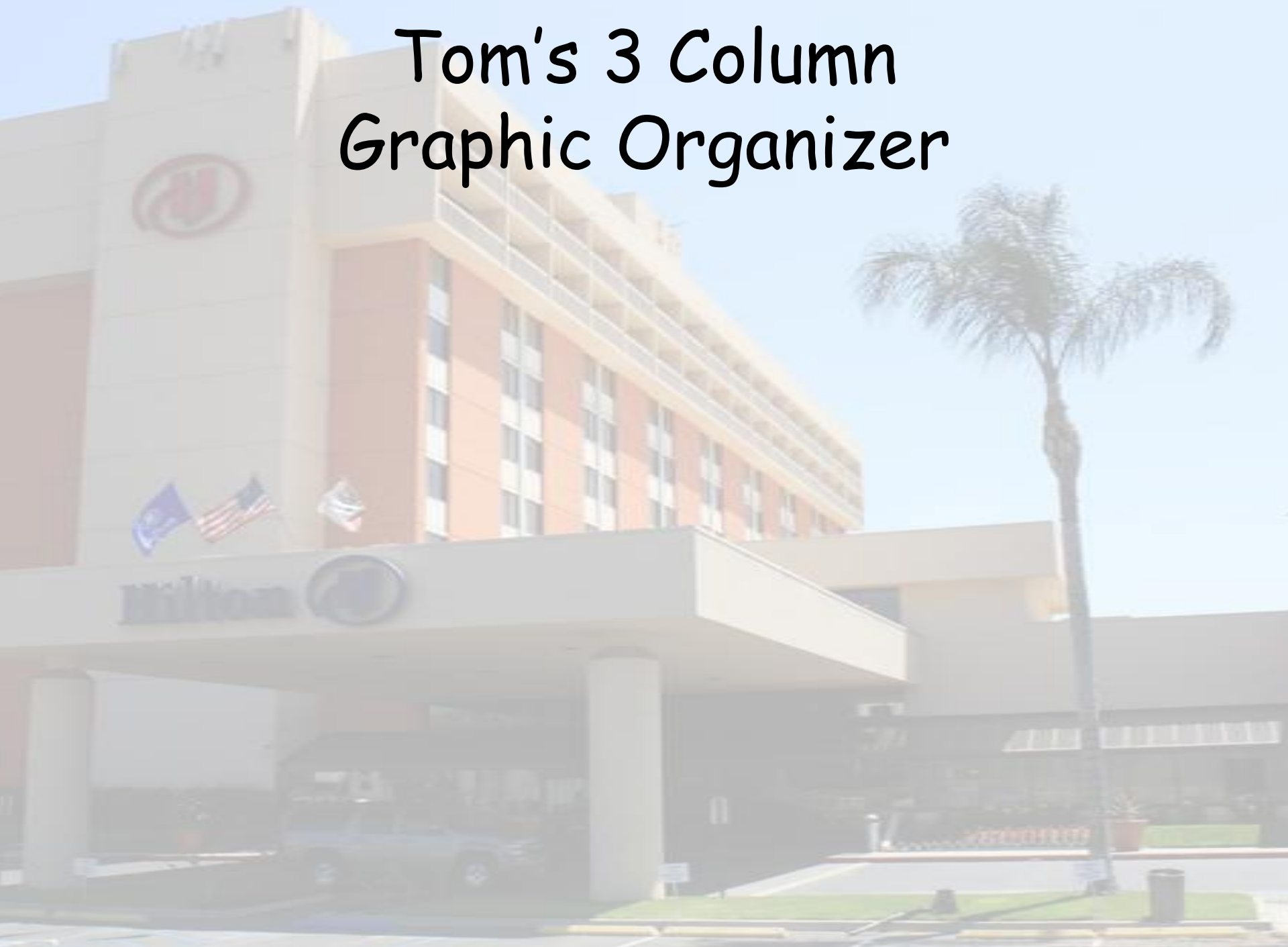


Discomfort



Outrage!

Tom's 3 Column Graphic Organizer



OH

AHA!

OMG!

Essential Question

How do you develop a community of teacher preparers?

Possible strategies

Mandate it

Hope for it

Settle on a singleness of purpose

The background of the slide shows a large, multi-story school building with a light-colored facade and a prominent entrance. A tall palm tree stands to the right of the building. The scene is captured in a slightly hazy, bright light, suggesting a sunny day. The text is overlaid on this background.

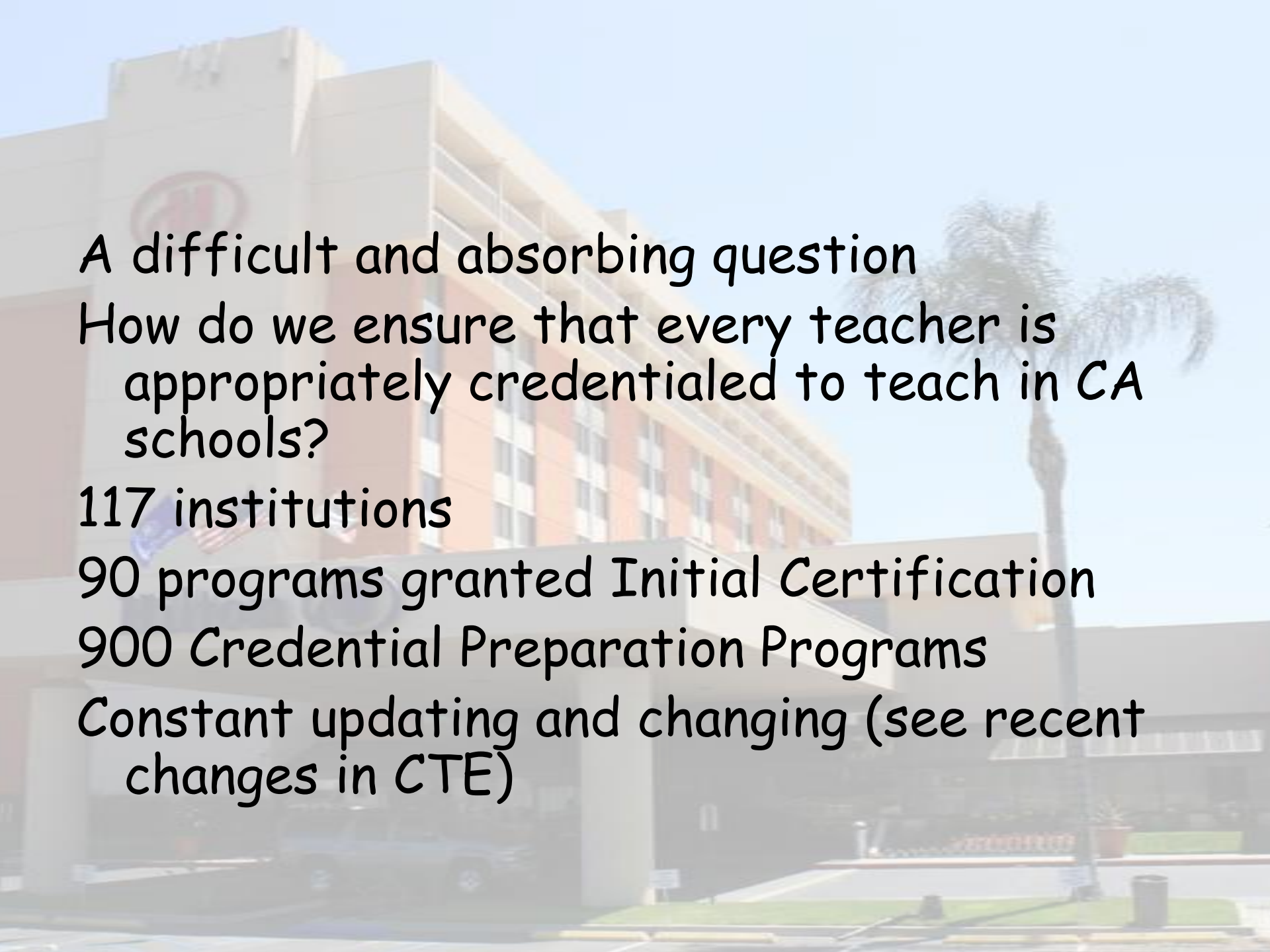
Tom's question for the community

How do we ensure that every child in California has a teacher who will help him/her learn at the highest possible levels?

Is this answered through credentialing alone?

Not the same as:

How do we ensure that every teacher is appropriately credentialed to teach in California schools?

A background image of a school building with a palm tree. The building is multi-story with a mix of brick and light-colored panels. A palm tree stands to the right of the building. The sky is clear and blue.

A difficult and absorbing question

How do we ensure that every teacher is appropriately credentialed to teach in CA schools?

117 institutions

90 programs granted Initial Certification

900 Credential Preparation Programs

Constant updating and changing (see recent changes in CTE)

A photograph of a multi-story building with a prominent entrance canopy. The word "Milton" is visible on the canopy. A palm tree stands to the right of the building. The image is semi-transparent, allowing the text to be clearly visible.

Look back
Look around
Look ahead

The background of the slide is a photograph of a large, multi-story school building with a light-colored facade and a prominent entrance. A tall palm tree stands to the right of the building. The image is slightly faded to allow the text to be read clearly.

Look back

- Our focus has been on creating good schools and good teachers
- Primacy of school re[form] as a strategy
- Recognition that schools were not “doing the job” that we wanted them to do.
- Unacceptable and unchanging dropout rate
- Criticism from the business community

Recommendation Highlights

The C.T. Report

Scaffolding for success: "It is important to have [an articulated curriculum] with concepts taught at the secondary level introduced in primary schools."

World Languages: "The study of foreign languages [should] begin at a much earlier age than now."

Mathematics: "Elementary schools [need to include] not only a general survey of arithmetic, but also the elements of algebra and concrete geometry."

The background of the slide is a photograph of a school building with a palm tree in the foreground. The building is a multi-story structure with a prominent entrance. The palm tree is tall and slender, with its fronds reaching towards the top of the frame. The overall scene is brightly lit, suggesting a sunny day.

Other areas in the report

Science - need for significant lab experience, not just lecture

Mathematics - need for instruction tied to real-world problem solving

History - need for practice historical investigation and comparative examination of different historical narratives

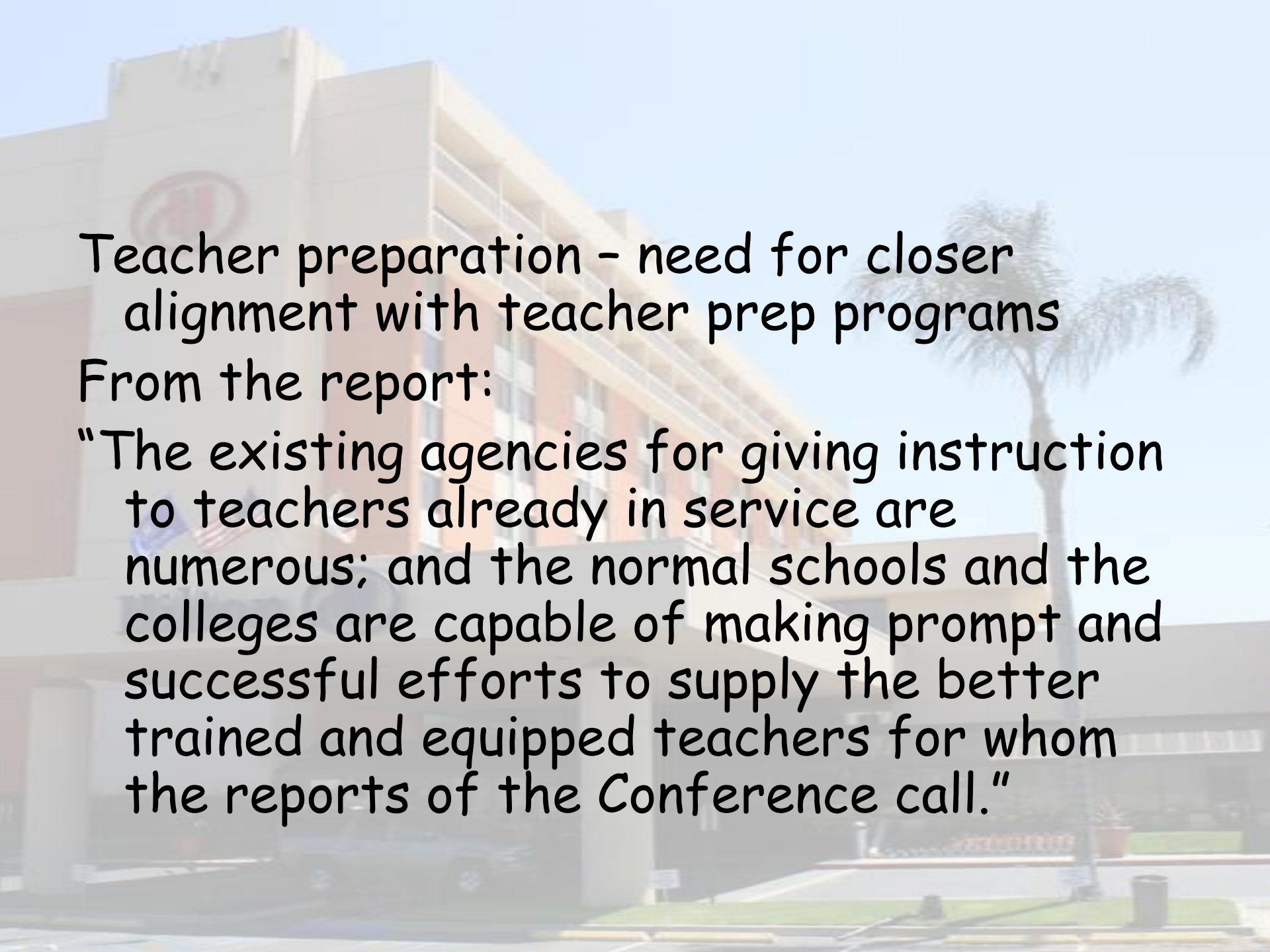
The background of the slide is a photograph of a school building. The building is a multi-story structure with a mix of light-colored and reddish-brown brickwork. A large palm tree stands to the right of the building. In the foreground, an American flag is visible on a pole. The overall scene is brightly lit, suggesting a clear day.

English - writing across the curriculum

Other areas addressed

Need for content reinforcement across disciplines

Specific attention paid to the concept that the levels of rigor be the same for every student, college-bound or work-force ready

The background of the slide is a photograph of a large, multi-story school building with a light-colored facade and a prominent entrance. A tall palm tree stands to the right of the building. The scene is captured in a slightly hazy, bright light, suggesting a sunny day. The text is overlaid on this image.

Teacher preparation - need for closer alignment with teacher prep programs

From the report:

"The existing agencies for giving instruction to teachers already in service are numerous; and the normal schools and the colleges are capable of making prompt and successful efforts to supply the better trained and equipped teachers for whom the reports of the Conference call."

A large, multi-story school building with a prominent entrance and a palm tree in the foreground. The building has a mix of light and dark colors. The text is overlaid on the left side of the image.

"...normal schools...?"

Hey, wait a minute!

CT?

The Committee of Ten

(1892-1893)



What that tells us

- The need for “school improvement” is older than anyone’s “good old days”
- Many recommendations debated today have been debated for more than a century
- Implementation barriers have not changed



Choice

Continue debating the same issues and the same solutions (with different names and different reserachers)

Or

Step back and take another look




1892

Need for mass education (but not universal success in it)

Need to provide student access to the best available content resources

(teachers, materials)

Conclusion - SCHOOL!

A photograph of a school building with a sign that says "Milton" and a palm tree in the foreground. The building is a multi-story structure with a prominent entrance. The sign "Milton" is visible on the building's facade. A palm tree stands to the right of the building. The text is overlaid on the image.

*See Malcolm Gladwell's *Outliers* for insight into the impact of seasonally-based agriculture and the link to higher achievement by Asian students

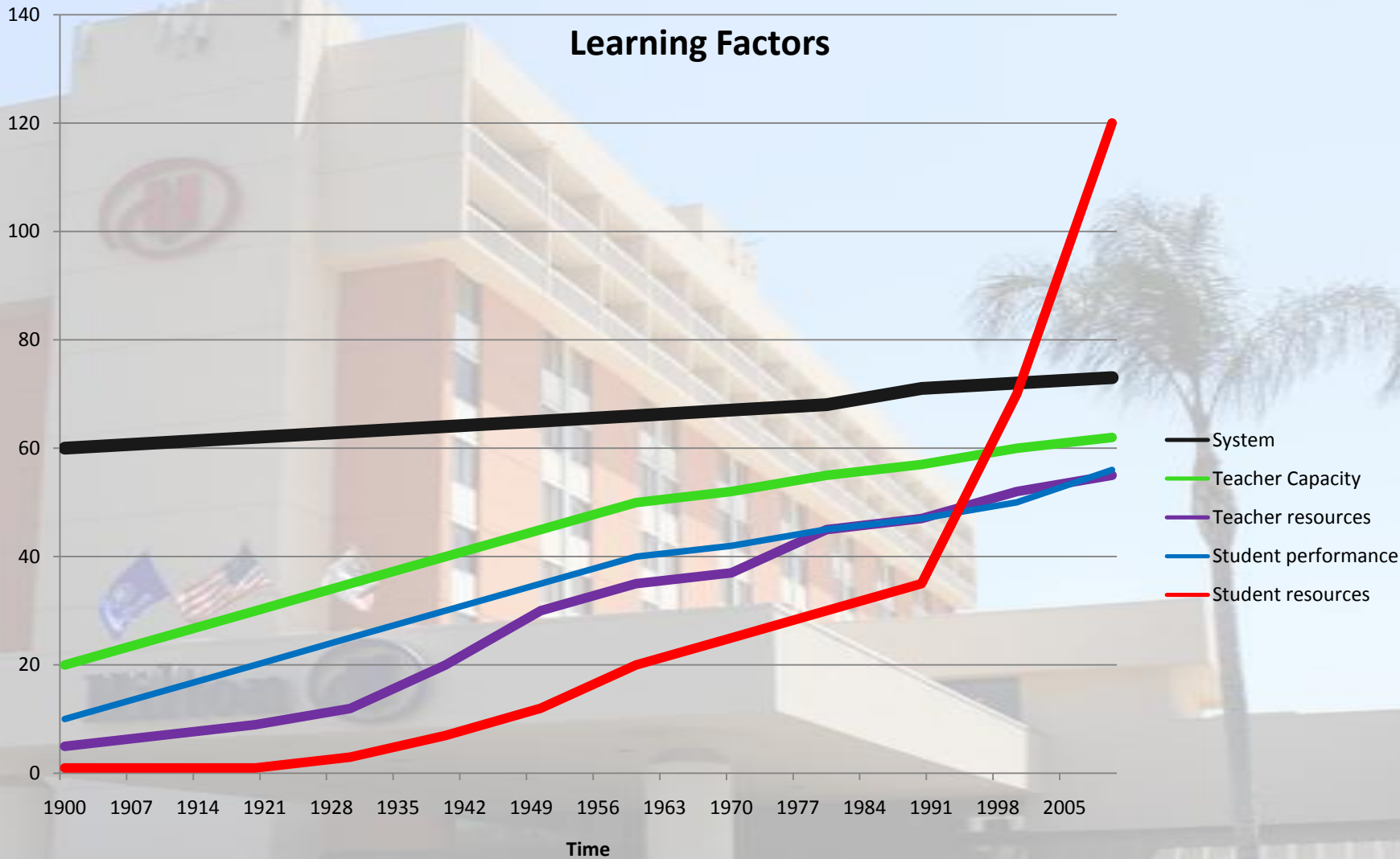




Look Around

What are current and future trends and what are their implications for learning and teaching?

Learning Factors





What current elements and trends are shaping the landscape?

Ongoing (exacerbated) need

Virtually unlimited resources for learning

A large, multi-story building with a palm tree in the foreground. The building has a prominent entrance with a covered area. The text is overlaid on the left side of the image.


A few promising resources

Ubiquitous access

smart phones

cloud computing

Burgeoning software in every area

A photograph of a large, multi-story school building with a prominent entrance. The building is light-colored with many windows. In the foreground, there is a palm tree and a blue school bus. The text is overlaid on the left side of the image.

Imagine these mashes . . .
Kindle + textbooks
+ individually Lexiled material



Think about iPhones and iPhone apps

What iPhone apps do you know of that could be useful to students and teachers?

A background image of a large, multi-story school building with a modern architectural style. The building has a mix of light-colored and reddish-brown panels. A tall palm tree stands to the right of the building. The sky is clear and blue. The text is overlaid on the left side of the image.

Have you heard about . . . ?

Photosynth

<http://www.youtube.com/watch?v=s-DqZ8jAmv0>

Tag Galaxy

<http://taggalaxy.de/>

Project Natal

<http://www.youtube.com/watch?v=p2qlHoxPioM&feature=fvst>




What emerging technologies have you heard about that will have enormous implications for our profession?

Don't forget Video Gaming

See today's *USA Today* article on Shawn Fanning and "Rupture"


http://www.usatoday.com/tech/gaming/2009-06-22-fanning-rupture_N.htm



A beta version of a means of manifesting
the transition from schooling to learning


The Virtual Learning Magnet

- Under the auspices of CCSSO
- Interest-driven curriculum
- Initial funding from NASA
- POC Physics course
 - (not "grade" related)
 - 50 students
 - 8 states, DC, 2 from France
- Performance-based
- Nonlinear course design



Aha's!

- The magnetic nature
 - The Smithsonian example
- Expandable
 - Horizontally
 - Vertically
 - Spatially
 - Geographically



Conclusion: We now have the ability to "mass customize" the learning experience for every individual learner.



2 lessons from *What Would Google Do?*
By Jeff Jarvis

1. Do what you do best - and outsource the rest.
2. The age of the middleman is dead.

The background image shows a large, modern school building with a prominent entrance. The building has a mix of light-colored and reddish-brown panels. A tall palm tree stands to the right of the building. In the foreground, there is a paved area, possibly a parking lot or driveway, with a blue vehicle partially visible. The sky is clear and blue.

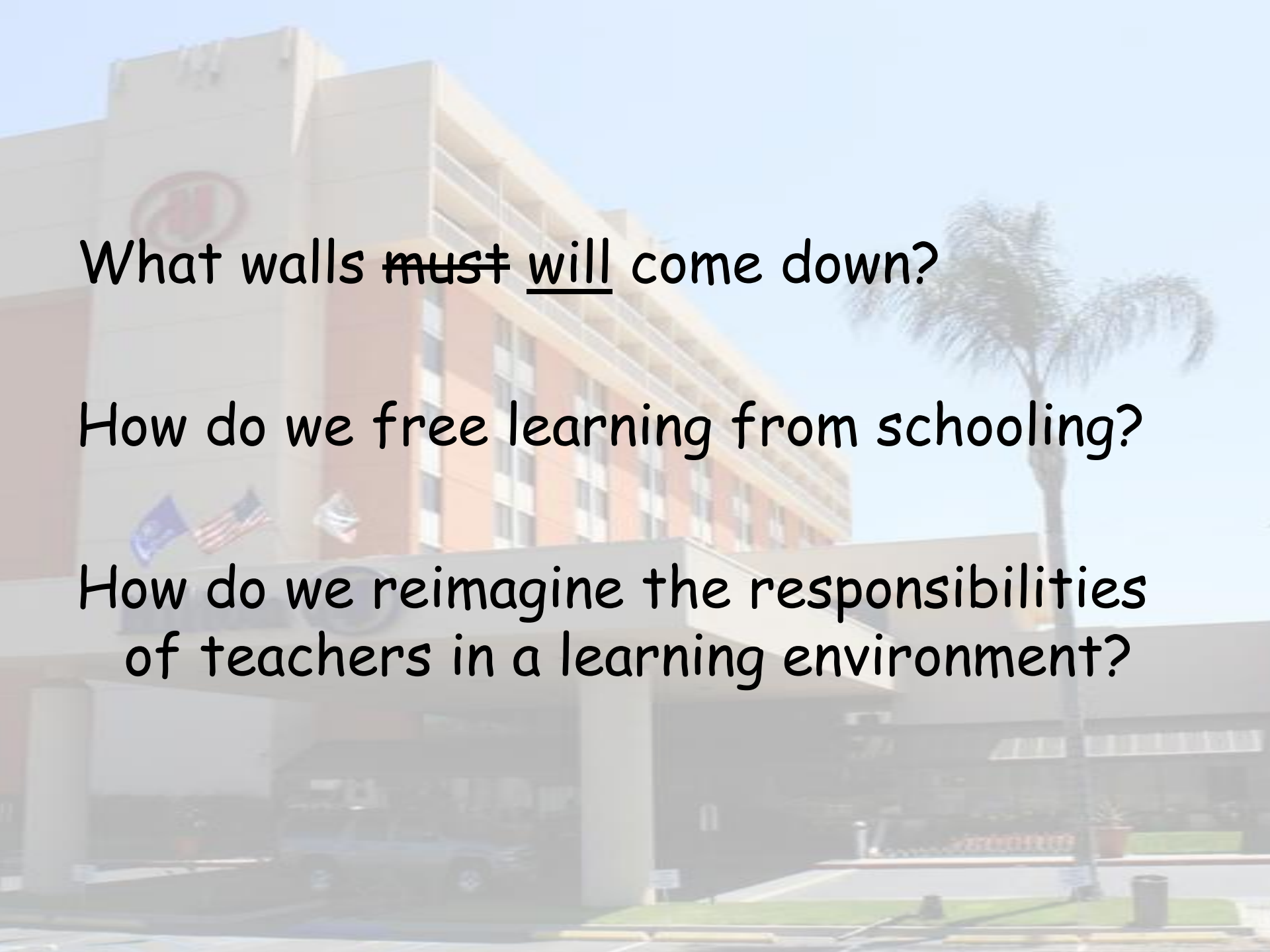
So What?

What are the implications?

For subject areas?

For accreditation?

For teachers

A large, multi-story school building with a palm tree in the foreground and flags flying. The building has a prominent entrance and a large sign on the wall. The sky is clear and blue.

What walls ~~must~~ will come down?

How do we free learning from schooling?

How do we reimagine the responsibilities of teachers in a learning environment?



As you consider changes needed to the system . . .

Don't be naïve

Identifying and focusing on traditional leverage points has not been effective.

Lesson from Gladwell's "How David Beats Goliath"

http://www.newyorker.com/reporting/2009/05/11/090511fa_fact_gladwell

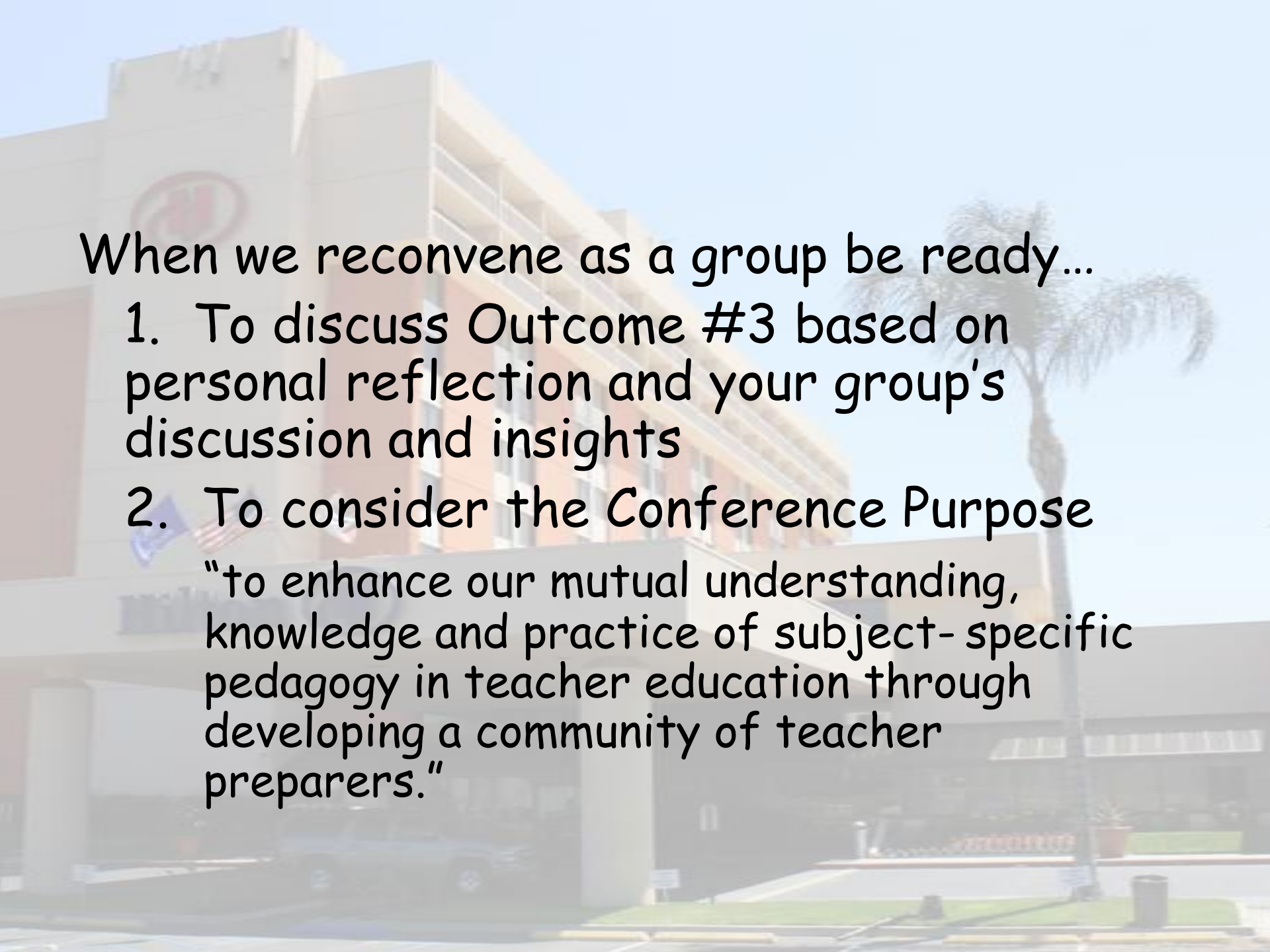
A photograph of a multi-story hotel building with a prominent entrance canopy. The word "Milton" is visible on the canopy. A palm tree stands to the right of the building. The image is faded to serve as a background for text.

The remainder of the day . . .

Remember the stated outcomes?

Learning Outcomes

- Gain an understanding of subject-matter focused current and future trends and their implications for learning and teaching.
- Discuss current and future paradigms and practices for specific content areas.
- *Discuss how practice can and should change in the content field in order to advance learning for candidates and K-12 students.*

The background of the slide features a large, multi-story university building with a prominent entrance and a palm tree in the foreground. The scene is brightly lit, suggesting a sunny day. The text is overlaid on this background.

When we reconvene as a group be ready...

1. To discuss Outcome #3 based on personal reflection and your group's discussion and insights
2. To consider the Conference Purpose
"to enhance our mutual understanding, knowledge and practice of subject-specific pedagogy in teacher education through developing a community of teacher preparers."