

Project Update Online for CA4PRS Software Training Development

CA4PRS: Training On-Demand

Highways need rehabilitation



Photos: Courtesy of SPTC members (Caltrans, MnDOT, TxDOT, WSDOT)

paviasystems

Some challenges identified...

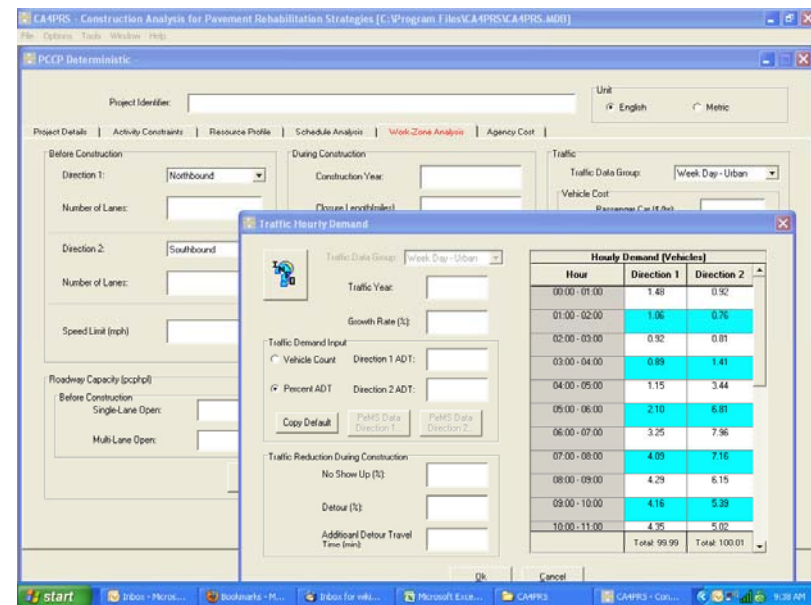


- Longer-lasting Design
- Faster Construction delivery
- Tolerable Work Zone traffic delays
- Agency Budget constraints

CA4PRS: Decision Support Tool

Help agencies and contractors to select more efficient and economic highway construction strategies

- Construction Schedule
- Traffic Delay
- Agency Cost



Project Goal & Objectives

- **Educate agency personnel** and consultants CA4PRS use and its benefits
- **Increase availability** of CA4PRS training
- Provide **consistent training** anytime, any place
- **Reduce training time** for required participants
- **Reduce overall cost** of training program

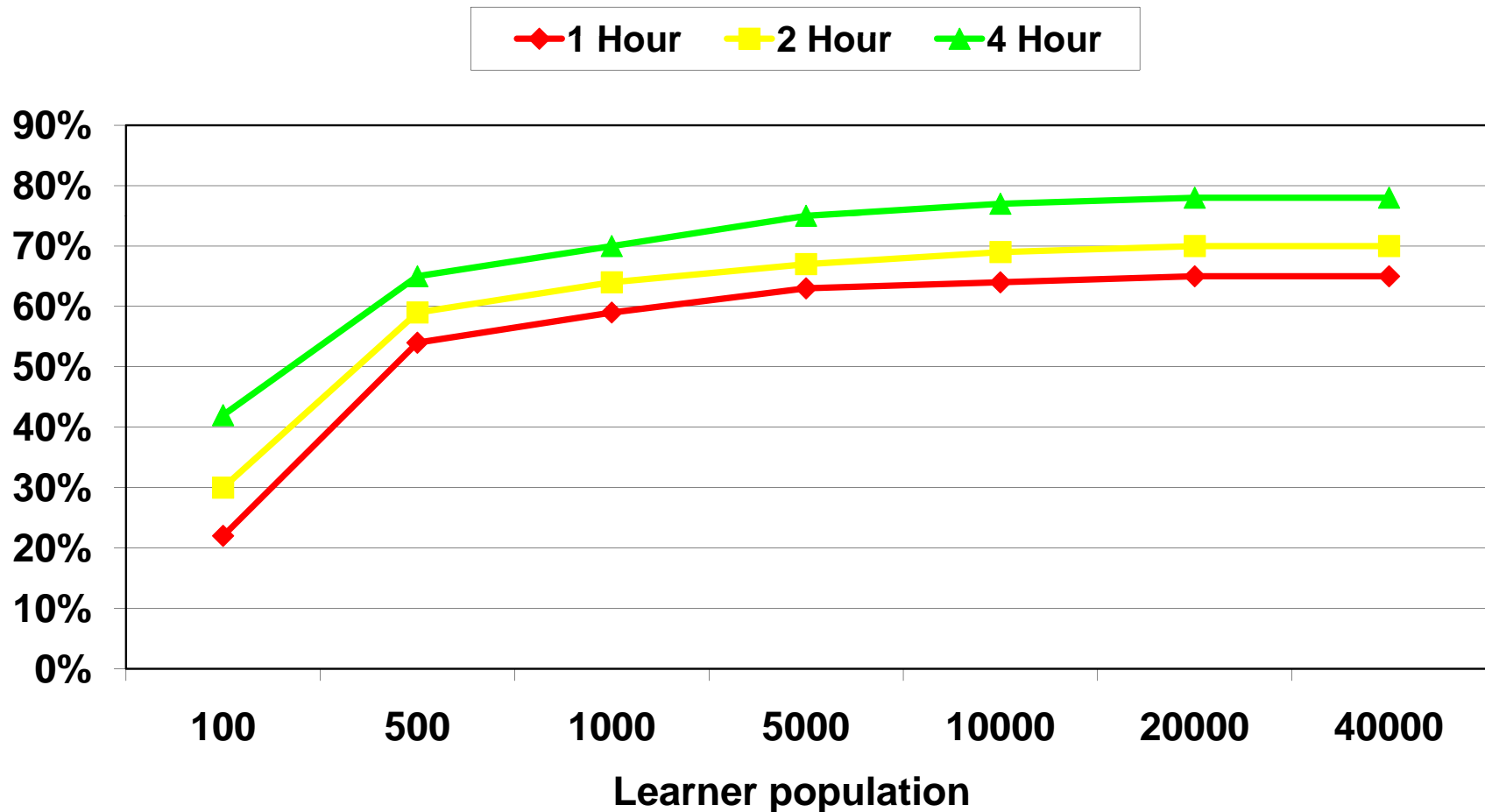


Why online training?

- About 50% more time efficient without loss of effectiveness
- Repetition leads to retention
- Consistent message delivered
- Easily updateable and instantly distributed
- Assessments, Tracking, and Reporting
- Cost benefit compared to classroom delivery



E-learning savings vs. ILT



Source: Caterpillar (<http://www.learningcircuits.org/2005/jun2005/walliker.htm>)



Scope of Services



2-3 day in-class seminar



~ 6 classroom equivalent hours online

Program Elements



Interactive
training



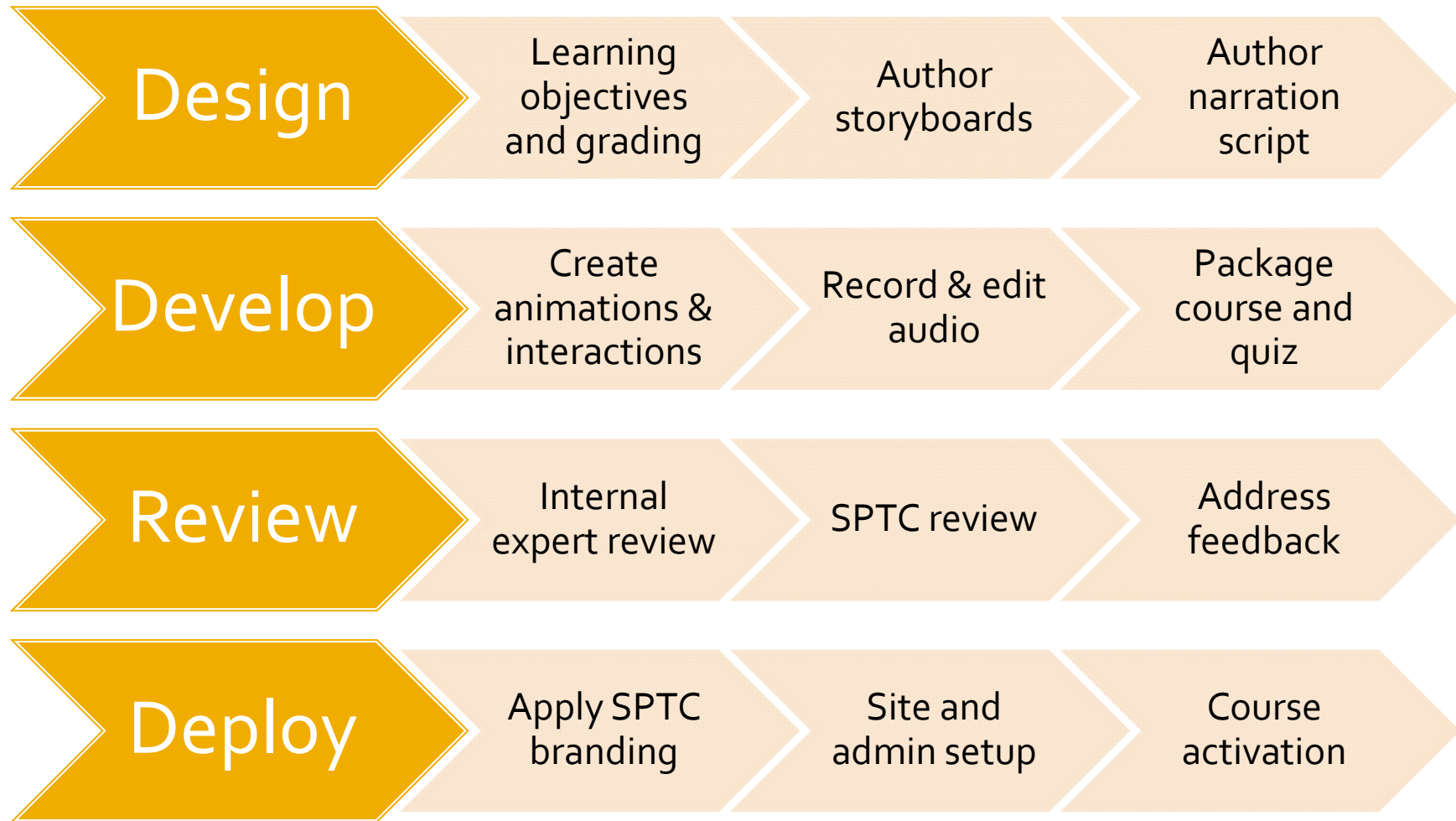
Online
assessment



Certificate

Delivery, Learning Management and Reporting

Course development process



CA4PRS Online Training Program

Introduction [0.5 hr]

Schedule Analysis [2.5 hr]

Work Zone Traffic [1.0 hr]

Project Cost Estimate [1.0 hr]

Implementation and Exercises [1.0 hr]

CA4PRS Online Training Program

Introduction

Schedule Analysis

- Introduction
- JPCP
- Milling/AC
- Crack and Seat/FDAC
- CRCP
- Precast Concrete
- Roadway Widening*



*Anticipated to be developed following v 3.0 release in November 2010

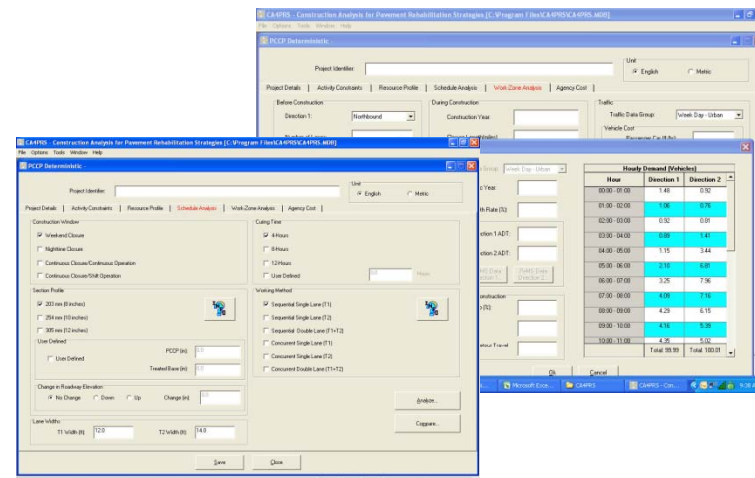
CA4PRS Online Training Program

Work Zone Traffic

- Lane closures
- Work zone capacity and sensitivity

Project Cost Estimate

- Agency Cost
- Traffic Costs
- Present Value

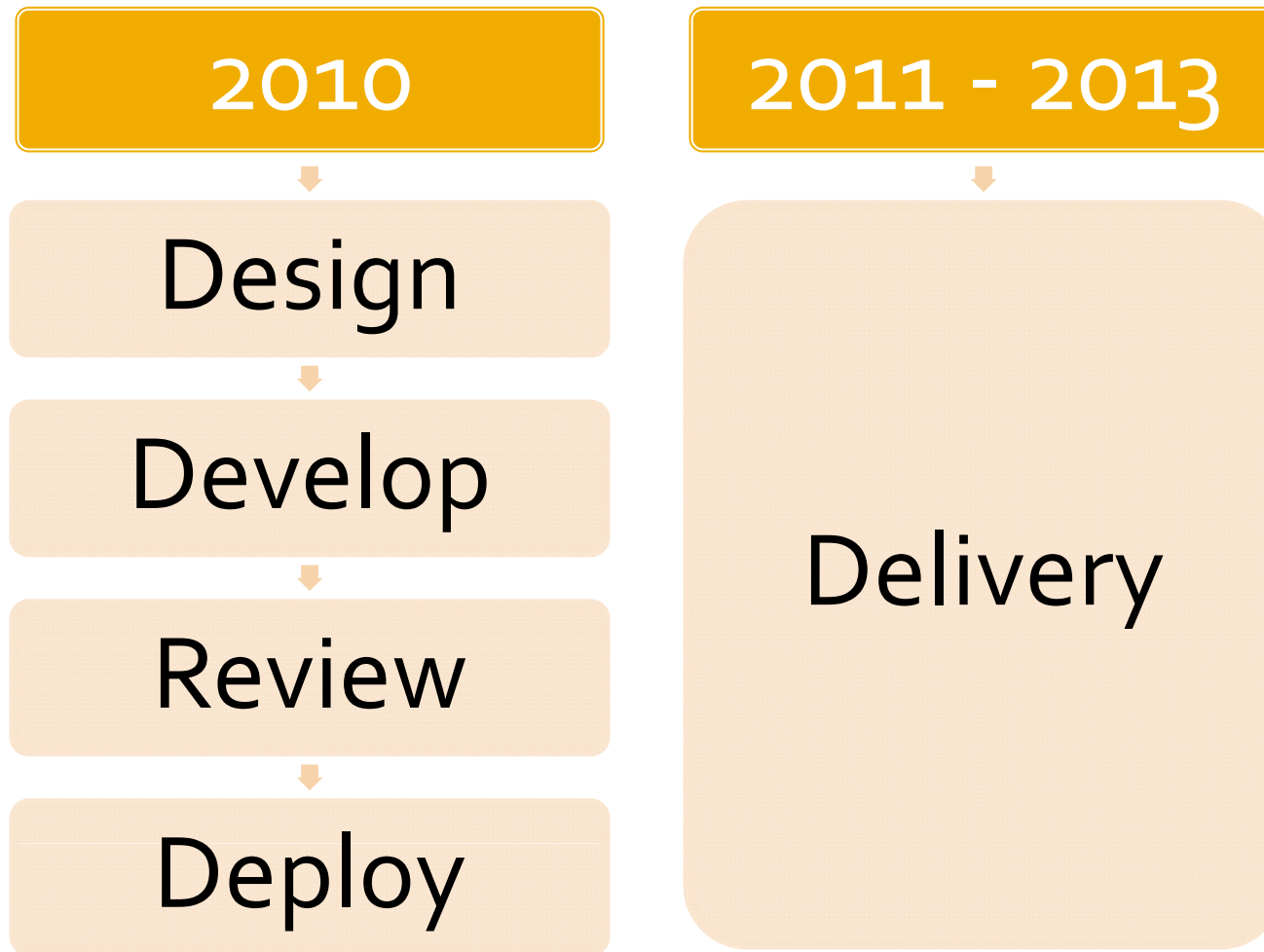


Demonstration: JPCP

The screenshot displays the CA4PRS software interface. The main window is titled "Construction Analysis for Pavement Rehabilitation Strategies: Introduction" and includes "GLOSSARY" and "EXIT" options in the top right. The interface is divided into several sections:

- Left Panel:** A navigation menu with tabs for "Outline", "Narration", and "Search". The "Outline" tab is active, showing a list of topics: "Introduction to CA4PRS", "Before You Begin", "What You Will Learn", "CA4PRS Background", "Benefits of CA4PRS", "Limitations of CA4PRS", "CA4PRS Capabilities", "What You Learned", and "Lesson Complete".
- Top Right:** A "Skip Intro" button.
- Center:** A "Before You Begin" section containing a video player. The video player has a title "Introduction to CA4PRS" and a "Continue" button. A red arrow points to the "Continue" button with the label "Continue Button". Below the video player is a "Progress Bar" with a red arrow pointing to it and the label "Progress Bar".
- Bottom:** A control bar with a speaker icon, "PAGE 2 OF 31", "PAUSED", a timer "00:18 / 01:17", and "NARRATION" controls.

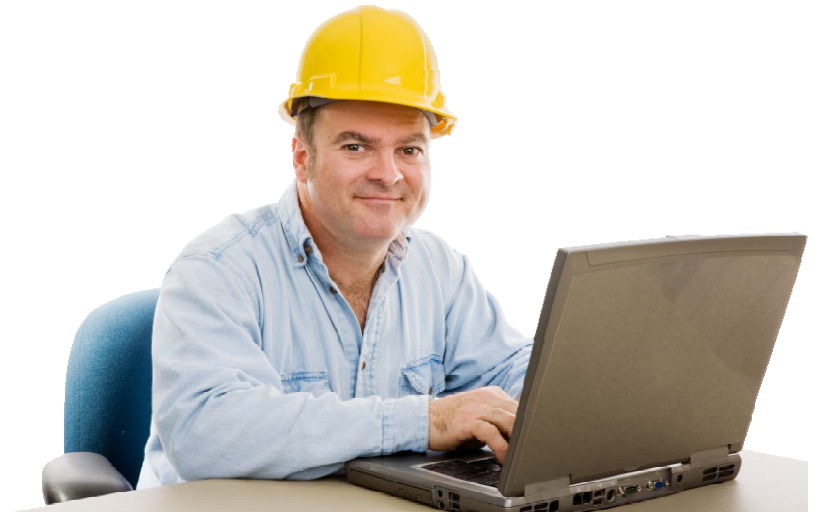
Schedule and Timeline



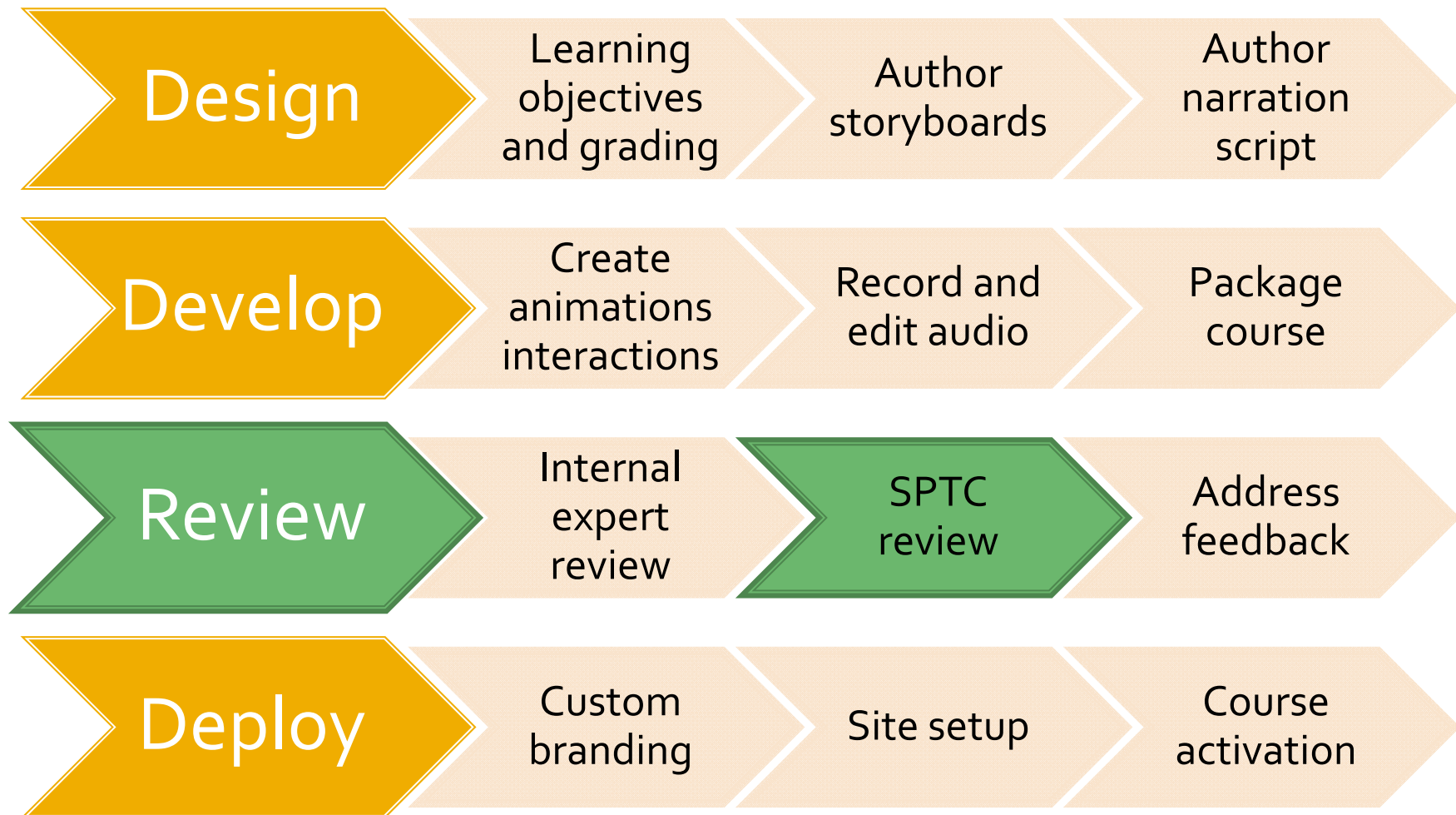
Deliverables and Delivery Details

Available early 2011:

- Web-based training modules and content available
- Delivery provided for up to 2,000 users (1,000/year) till end of 2013
- Admin and reporting tools via Pavia Systems hosted Learning Management System



Course development process



Want to review or test drive?

- Review periods will occur throughout the year on individual modules
- Interested in providing feedback during review contact:

George White

george@paviasystems.com

206.428.3094 x4

Some other updates...

- Pavement Interactive
- Free Training Resources
 - RAP
 - Warm Mix
 - Sustainability
 - Rubberized HMA



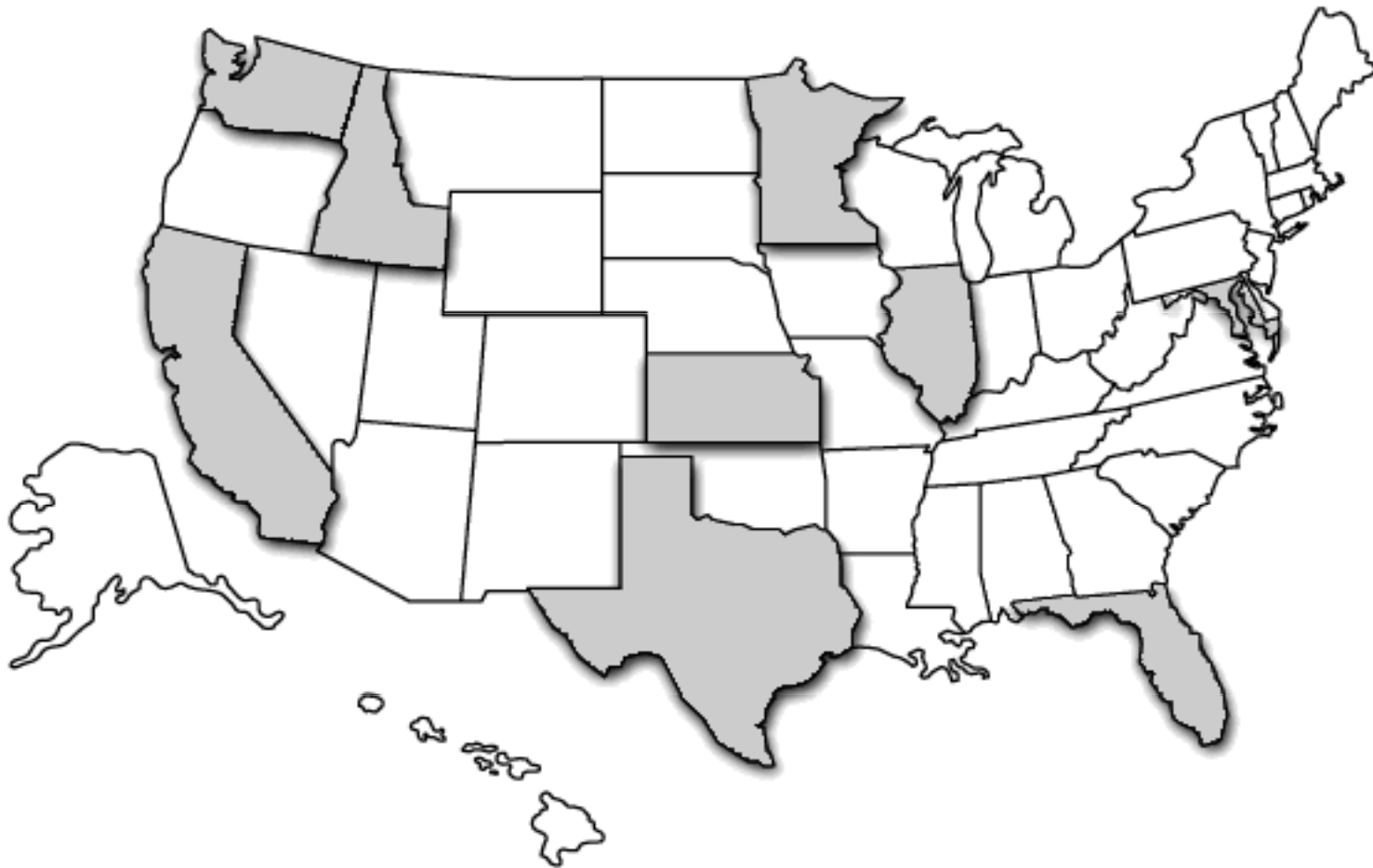
Pavement Interactive

- Looking for a just-in-time resource on pavement practices?
- Seeking a free, credible resource for pavement needs?
- In search of graphics, videos, and animations to help with pavement education?

Core Modules

- Pavement History
- Pavement Types
- Materials
- Design Parameters
- Mix Design
- Testing
- Structural Design
- Construction
- QC & QA
- Specifications
- Pavement Evaluation
- Rehabilitation
- Maintenance
- Pavement Management

Who is involved?



Who uses it?

- Over 320,000 unique visitors
- With over 3,000,000 page views
- From over 220 countries



Latest developments...

- New content added
 - LCCA
 - Asphalt Additives
 - DBR Construction
 - BST
 - Sustainability
 - Permeable/Porous Pavements
- Survey and poll



Available for access now!



<http://www.pavementinteractive.org>

Free Introductory Modules



Warm Mix Asphalt



Reclaimed Asphalt Pavement



Rubberized Hot Mix Asphalt

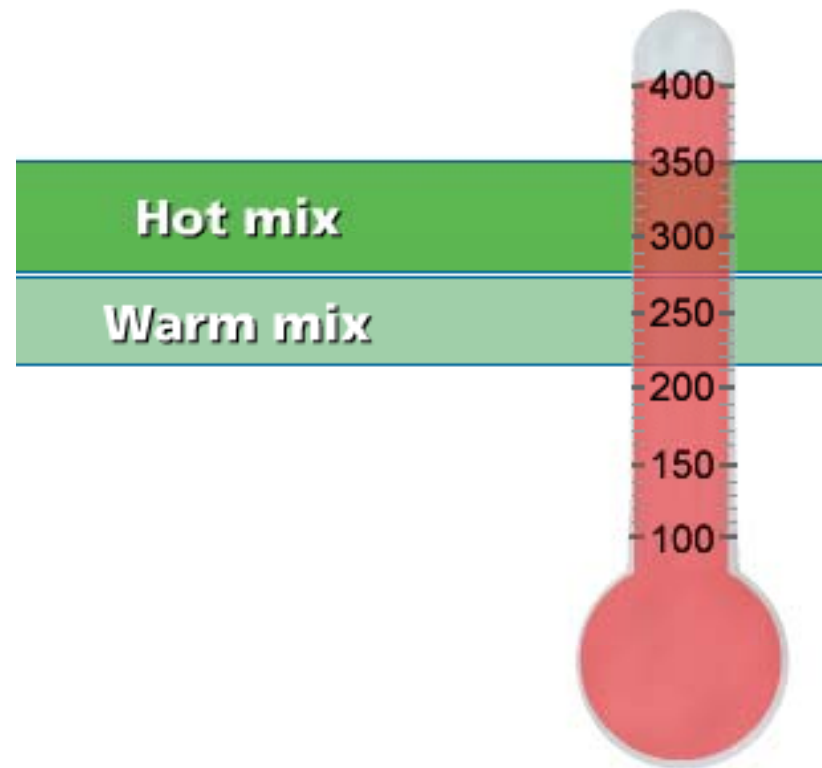


Sustainability and Paving

Warm Mix Asphalt (WMA)

With the Warm Mix module, in 15 minutes you'll get answers to questions like:

- Is Warm Mix cheaper, safer, or higher quality?
- What are the Warm Mix production approaches?
- Are there any risks to using Warm Mix?



Reclaimed Asphalt Pavement (RAP)

With the RAP module, you'll get answers to questions like:

- How long has RAP been used in the field?
- Is RAP cheaper, safer, or produce higher quality when compared to virgin materials?
- What are the risks to using RAP?



Rubberized Hot Mix Asphalt (RHMA)

In less than 15 minutes
you'll be introduced to:

- How rubberized hot mix asphalt was developed
- Production and mix design processes for RHMA
- Applications of RHMA
- Proper RHMA paving techniques



Sustainability and Paving

The free Sustainability and Paving course discusses:

- What sustainability means for asphalt paving & why it matters for your business
- How to define sustainability for our industry
- Examples of sustainable practices used today



Available for free distribution now!

The screenshot shows a web browser window with the address bar displaying <http://www.paviasystems.com/> and the page title "RHMA Production Processes - Windows Internet Explorer". The main content area is titled "Rubberized Hot Mix Asphalt" and includes a "Start" button. Below the title is a video player showing a construction worker operating a machine on a road. The left sidebar contains a navigation menu with the following items: "Rubberized Hot Mix Asphalt", "Before You Begin", "What You Will Learn", "What is RHMA?", "Production and Mix Design", and "Uses of Rubberized Asphalt". The video player controls at the bottom show "PAGE 1 OF 23", "PLEASE CLICK CONTINUE", "00:07 / 00:07", and a "NARRATION" button.

<http://www.paviasystems.com/freearchive>

Questions?

- Want to know more about freely available resources for the industry?
- Have a request for the next intro topic?
- Got other ideas to share?

George White

george@paviasystems.com

206.428.3094 x4