

Mobile LEARNING

at PEnn State

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PRESENTATION OVERVIEW

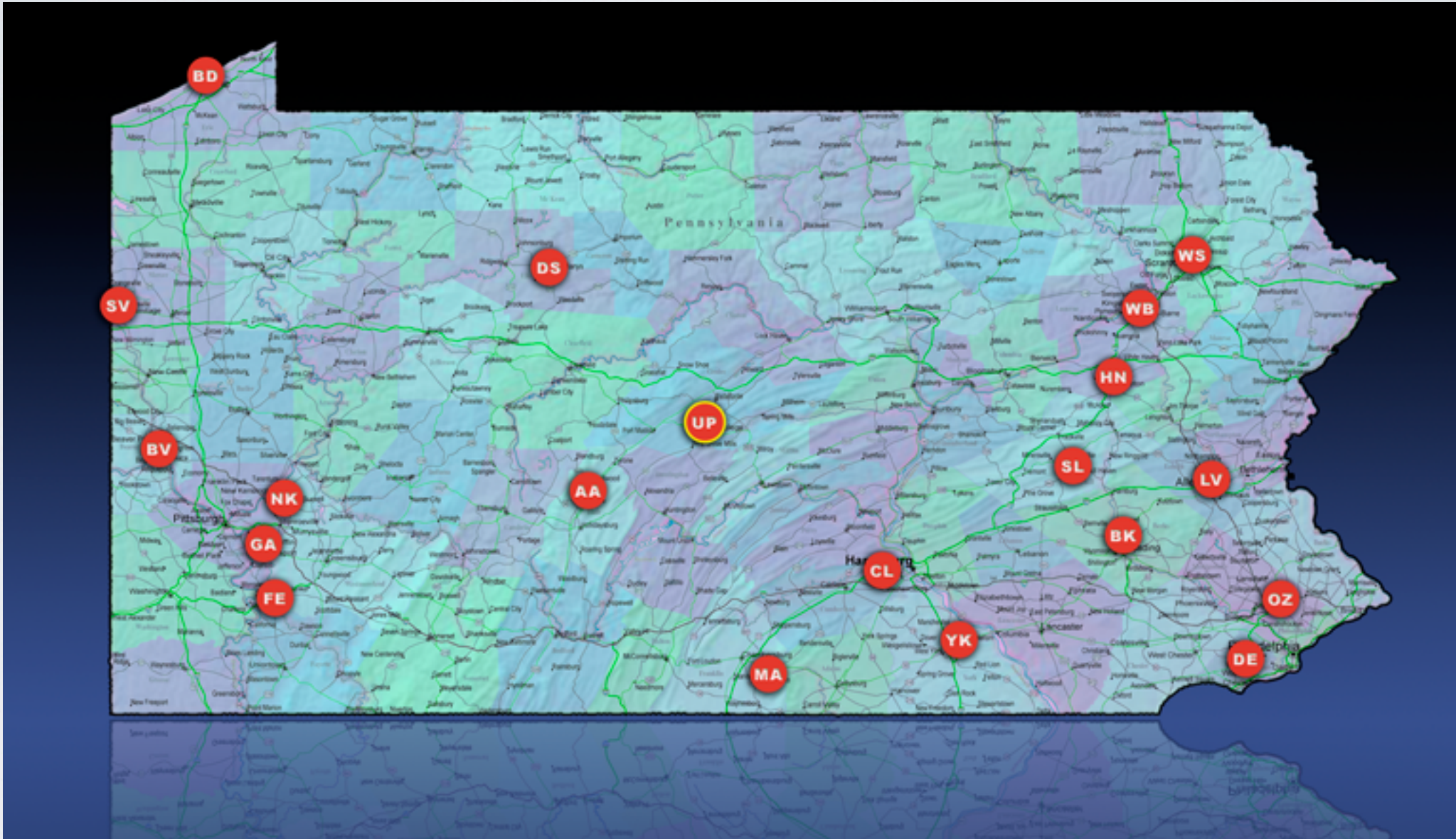
Deconstruct Mobile

Develop a Model for Mobile Learning

Mobile Learning at PSU

Technical Bits

Penn State Overview



campuses • 85,000 Students • 6,500 Faculty

Media Commons



MEDIA COMMONS



Last Year

2,500 **Consultations**

12,000 **People Helped**

6 **FTE's**

Intellectually Rigorous

Bibliographical Information

Dam It! by Joseph E Stevens. American History. Harrisburg: Apr 2002. Vol. 37, Iss. 1; pg. HT14, 4 pgs
<http://ezaccess.libraries.psu.edu/login?url=http://proquest.umi.com/pqdw...>

All Photos courtesy of Associated Press

NEW YORK HOMELESS Image ID#3201010224

Shadows of the Depression Image ID#320323066

U.S. DEPRESSION BREAD LINE Image ID#3201010117

HOUSING WORKERS Image ID#320401052

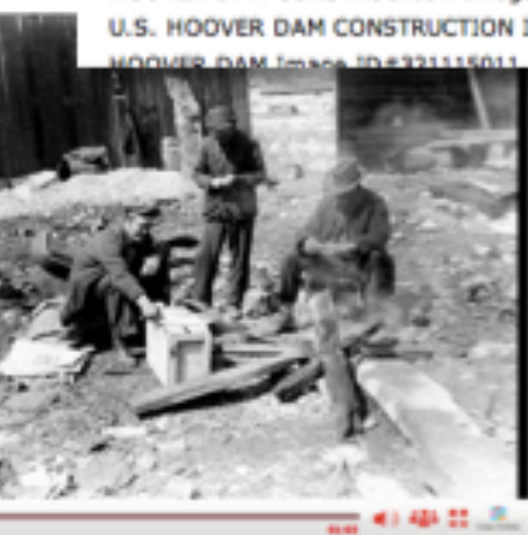
HOOVER DAM CONSTRUCTION Image ID#310812010

HOOVER DAM CONSTRUCTION Image ID#320109011

U.S. HOOVER DAM CONSTRUCTION Image ID#04060103701

HOOVER DAM Image ID#321115011

f Hope



of this video:

"application/x-shockwave-flash"
www.kaltura.com/widget/widget_33318/entry_id/af_3d3453671?width=500&height=411

nd Information

tion regarding the building of the Hoover Dam during the Great Depression.



Deliverable		Due
Outline ¹	... app... party me...	... Early. Before any production.
Script ¹	Dialogue, listed by speaker. Can be rough (talking points) or verbose (to be read directly).	25% into project timeframe
Storyboard ²	Sequential list of shots, sketches, direction.	25-50% into project timeframe
Rough Cut ¹	Unedited audio/video.	75% into project timeframe

	Thinking Skill Level
Higher-Order Thinking	Creating
	Evaluating
	Analyzing
Lower-Order Thinking	Applying
	Understanding

PSU Mobile Learning Initiative



Penn State Mobile Stats

2009

61% own cellphones, 61% with Internet connectivity

58% own iPods

56% own laptops

54% use laptop to upload video

53% use GPS functionality of their phones

52% have signed up for emergency text service

POLL ANYWHERE

Overview



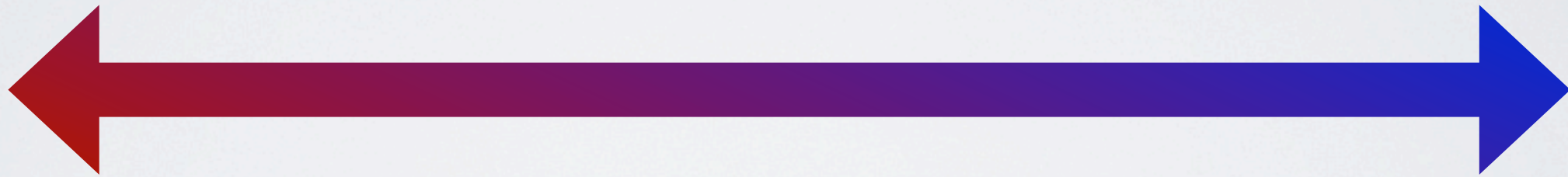
How would
you Best
describe your
institution's
mobile strategy?

Non-existent, Evaluating/Internal Experiments,

Continuum of Mobile in Education

Administrative

Pedagogical



Informational Website
Campus Tours

LMS
Social Networking

Instructional
Activities

PSU MOBILE STRATEGY

LEARNING-FOCUSED


MOBILE LEARNING PEDAGOGY

Step 1

What are the unique affordances of mobile technologies?

Step 2

How can my instructional design leverage those affordances?



What is the
first thing to
come to mind
when you think OF
“**MOBILE LEARNIN**

AFFORDANCES

ability

context

mediacy

ctile

Context



Mobility

IMMEDIACY

Tactile

ARE THESE DEVICES FOR...

Consumption?

or

Production?

Mobile LEARNING Projects

at Penn State

It's all in Composition

Technical Writing



40 iPads
+
Apple Keyboard



ANNOTATION



iPad 11:09 AM

JosangTrustRepSurvey

Getting Started 1.1 x JosangTrustRepSurvey x Apte et. al. 2004 x iAnnotate Guide x Back orig pages

E-Mail Notes Summary... Open In... Copy Upload to APS

from media are increasingly becoming more familiar

at forms of communication allow people to assess a much wider range of cues related to trustworthiness than is currently possible through computer mediated communication. The time and investment it takes to establish a traditional brick-and-mortar street presence provides some assurance that those who do it are serious players. This stands in sharp contrast to the relative simplicity and low cost of establishing a good looking Internet presence which gives little evidence about the solidity of the organisation behind it. The difficulty of collecting evidence about unknown transaction partners makes it hard to distinguish between high and low quality service providers on the Internet. As a result, the topic of trust in open computer networks is receiving considerable attention in the academic community and e-commerce industry.

There is a rapidly growing literature on the theory and applications of trust and reputation systems, and the main purpose of this document is to provide a survey of the developments in this area. An earlier brief survey of reputation systems has been published by Mui et al. [50]. Overviews of agent transaction

computation methods, i.e. how ratings are to be computed to derive reputation scores. Section 9 provides an overview of reputation systems in commercial and live applications. Section 10 describes the main problems in reputation systems, and provides an overview of literature that proposes solutions to these problems. The study is rounded off with a discussion in Section 11.

2. Background for trust and reputation systems

2.1. Trust

note how trust is implicit in the medium...

Most of us have experienced situations where we have been cause we experience and rely on it everyday, but at the same time trust is quite challenging to define because it manifests itself in many different forms. The literature on trust can also be quite confusing because the term is being used with a variety of meanings [46]. Two common definitions of trust which we will call reliability trust and decision trust respectively will be used in this study.

As the name suggest, reliability trust can be interpreted as the reliability of something or someone.

Peer Review Paper vs. i

“Students were
engaged in the
process”

“Feedback was
substantial

weekly journal of science that most students enrolled in a Biology or a related science program
ter during their college years. The 2009 *Journal Citation Report Science Edition* claimed that
was the most frequently cited science journal in 2009. Peer reviewed articles are provided for
of science and are presented in a very clear format with a style that is encouraging and easy to
e end of each article suggestions are given to similar publications; helpful when you need
ferences for research assignments. Aside from the scientific publications such as research
from scientific literature, this website also contains documents regarding the impact of the low-
science education pro
ort of scientific find
uch as podcasts, blo
one, is needed in or
students is provided
also available in the S



tips:

- Full access to articles in *Science* are provided for *Science* students. You do not need to buy an additional subscription.
- The website contains a wealth of information. Take some time to explore the many options which in addition to articles include videos, podcasts, and a link to job vacancies in areas ranging from laboratory management to medical writing.
- The 'Career Fairs' tab located at the top of the page lists upcoming fairs and expos by location and date.

Composition

Additional Details

and Blogpress for Weekly blogging assignments

and iBooks for textbook (w/ annotation and inline quizzes)

top quicker/better for writing and formatting documents

ENGLISH 602



Mobile Media



Mobile Media Workflow

The Device: iPod TOUCH



PENNSYLVANIA MOBILE MEDIA WORKFLOW



Mobile Media Workflow

The Pilot: 40 iPod TOUCHES

COURSES

Teacher Education

Information Sciences and Technology

Speech Communications

Digital Stories of the Harrisburg Community

Mobile Media Workflow

The Pilot: 40 iPod TOUCHES

ASSESSMENT

Could students **complete tasks** with iPods?

Could students do **more** or **different work** with iPods?

Can we **effectively manage** iPods?

Mobile Media

Student focus groups

Students...

Want control of devices

Need easier transfer of media to laptops

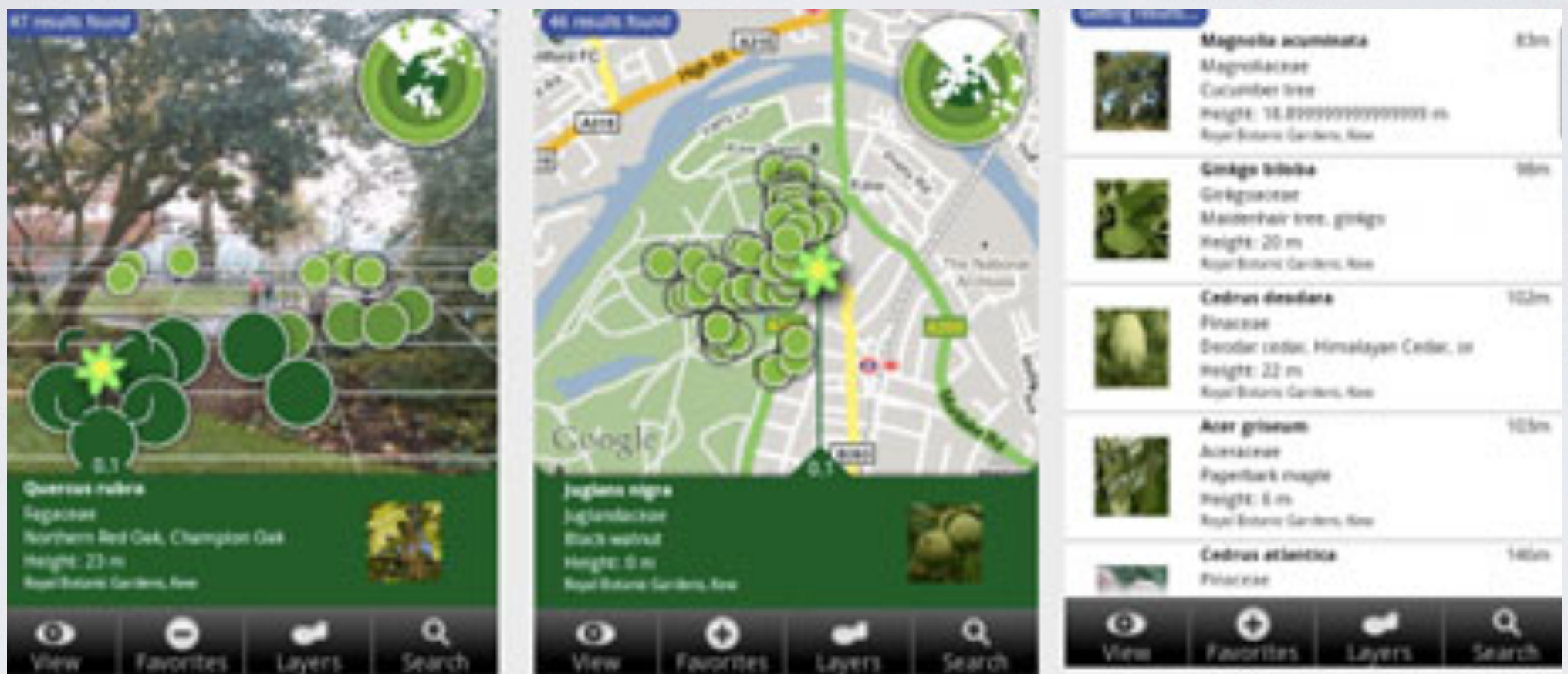
Keep iPods with them at all times

Want tripods

Need technical support

Need accessing syllabus and other course material from

College of Education



Augmented Reality for K12

Engineering

University Libraries



- 100 iPads
- Open circulation



mobile to support **Research**



Mobile devices

inside the classroom

Science in Our World: Certainty and Controversy

Do **WORMS** make kids **STUPID**?

Do **FISH** feel **PAIN**?

How much of **YOU** is **HUMAN**?

Is **SMOKING** really bad for **YOU**?

What do **SOCKS** and Notre Dame's
STAINED GLASS have in common?

Find out the answer to these and other unusual science questions this fall. No science knowledge? No problem!

Sign up for **SC 200: Science in Our World - Certainty and Controversy**. It's a gen. ed. course for non-science majors designed to make you a better consumer of science.

SCIENCE.PSU.EDU

Mobile to
**Poll Students &
Uncover Science
Misconceptions**

SOC 119: Race relations



Mobile to enable
**anonymous
feedback**



Other EXAMPLES
(or non-examples) of mobile
learning?

Technical Stuff

Challenges

Provide devices or use what they have?

Picking a platform (or limit to SMS?)

Device Management & App Purchasing

control or not to control?

Mobile Content Standards (HTML5 video)

Mobile DEVICE MANAGEMENT (MDM)



casper
SUITE



Mobile Media Workflow

Mobile **DEVICE MANAGEMENT (MDM)**



casper
SUITE



INVENTORY

CONFIGURATION

SECURITY MANAGEMENT

APP DISTRIBUTION??

Mobile Media Workflow

Mobile DEVICE MANAGEMENT (MDM)



casper
SUITE



ALLOW

Adding apps (with own account)
WiFi Config

DO NOT ALLOW

Deleting apps
Adding apps with ITS account

Mobile Media Workflow

Mobile DEVICE MANAGEMENT (MDM)



casper
SUITE



CHALLENGE

Regular re-imaging by
non-technical staff

SOLUTION

- a)** Students keep devices for ~1/2 semester
- b)** MC staff re-images

A Model for Mobile Learning



Mobile Learning

Mobile enables **different** types of work to be done.

Mobile allows learning to happen in **any places**.

Unique **affordances** should align with **instructional objectives**.

Platform is important.





Questions?

COMMENTS?

THANK YOU!

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