

A large, solid orange shape that starts as a thin horizontal line on the left and curves upwards to the right, forming a wide, shallow wedge that occupies the bottom third of the slide.

Effective Learning Using Mobile Technologies

– Developing the Next Generation Model

What we will discuss today...

- A little background
- Definitions
- Instructional approach/design
- Device capabilities & selection
- Discussions

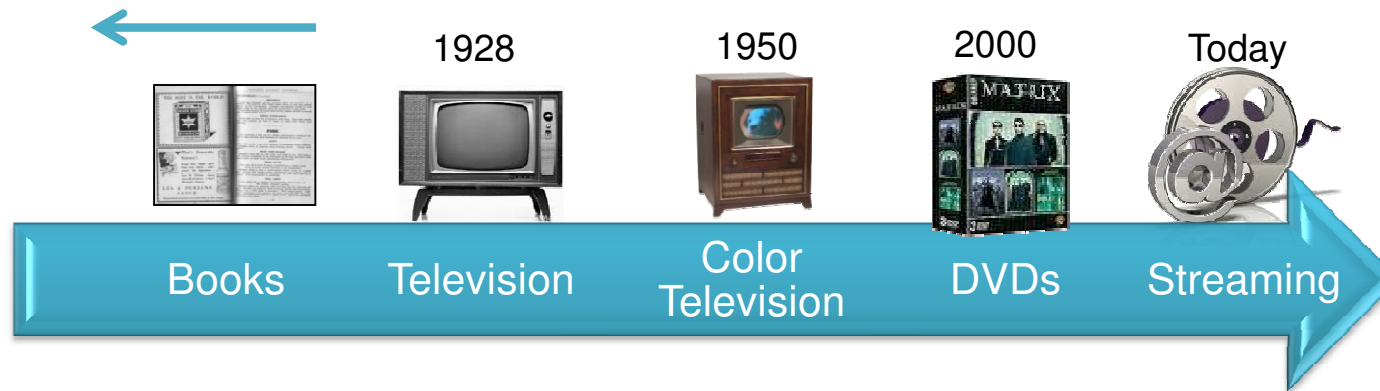


Who we are dealing with?



An arsenal of consumer electronics

Do we understand who we are dealing with?



Adayana defines mobile learning as...

**a way to deliver needed content
to distributed physical locations
using a variety of mobile devices**

**smaller
size and
weight**

**wireless
network
connectivity**

**alternative
navigation**

What are the categories of mobile learning?

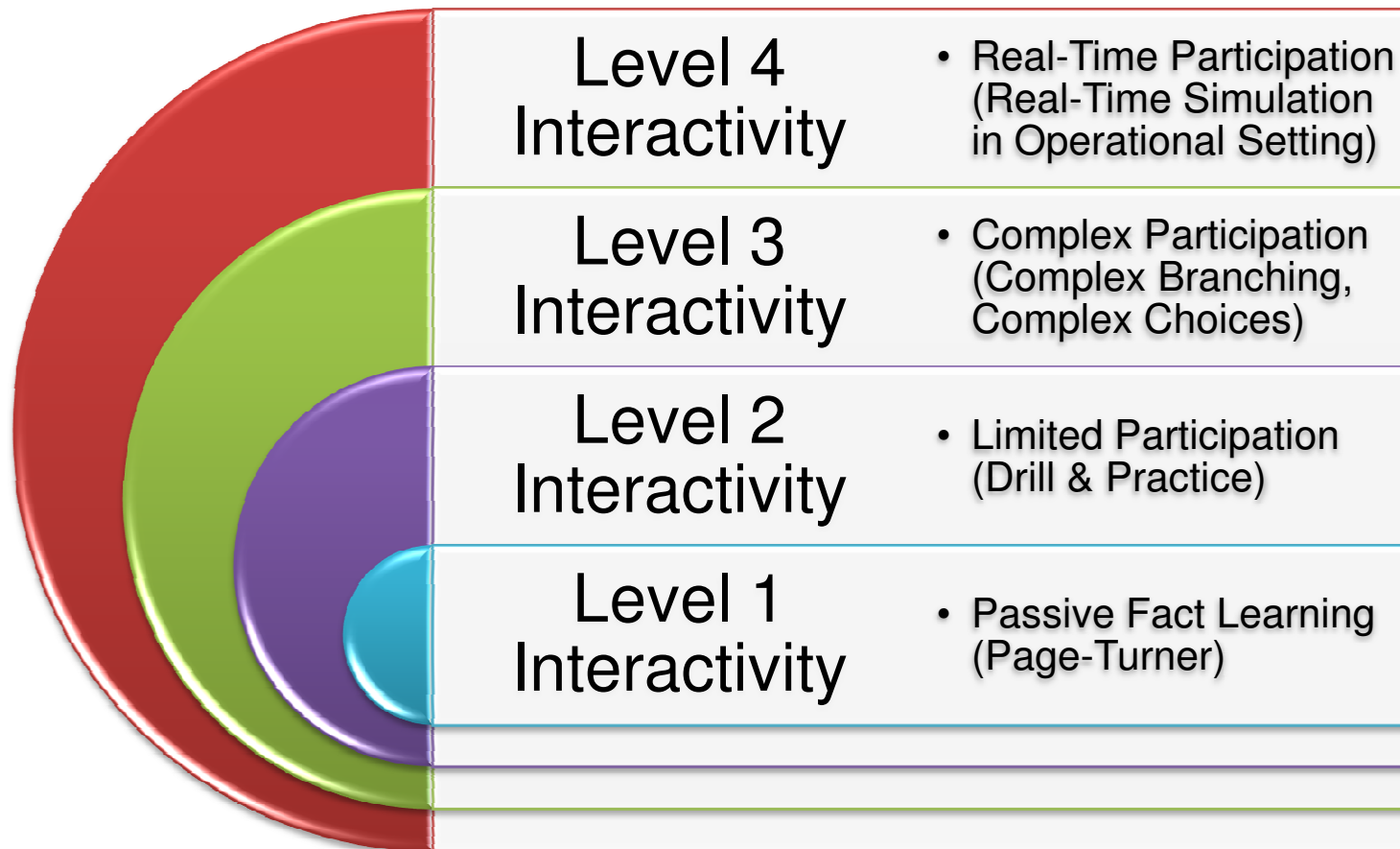


What are the “kinds” of cognitive learning?

Bloom tells us...

Creating	•arrange, assemble, collect, compose, construct, create, design, develop, formulate, manage, organize, plan, prepare, propose, write
Evaluating	•appraise, argue, assess, attach, choose, compare, defend estimate, judge, predict, rate, core, select, support, value, evaluate
Analyzing	•analyze, appraise, calculate, categorize, compare, contrast, criticize, differentiate, distinguish, examine, experiment, question
Applying	•apply, choose, demonstrate, dramatize, employ, illustrate, interpret, operate, practice, schedule, sketch, solve, use, write
Understanding	•classify, describe, discuss, explain, express, identify, indicate, locate, recognize, report, restate, review, select, translate
Remembering	•arrange, define, duplicate, label, list, memorize, name, order, recognize, relate, recall, repeat, reproduce state

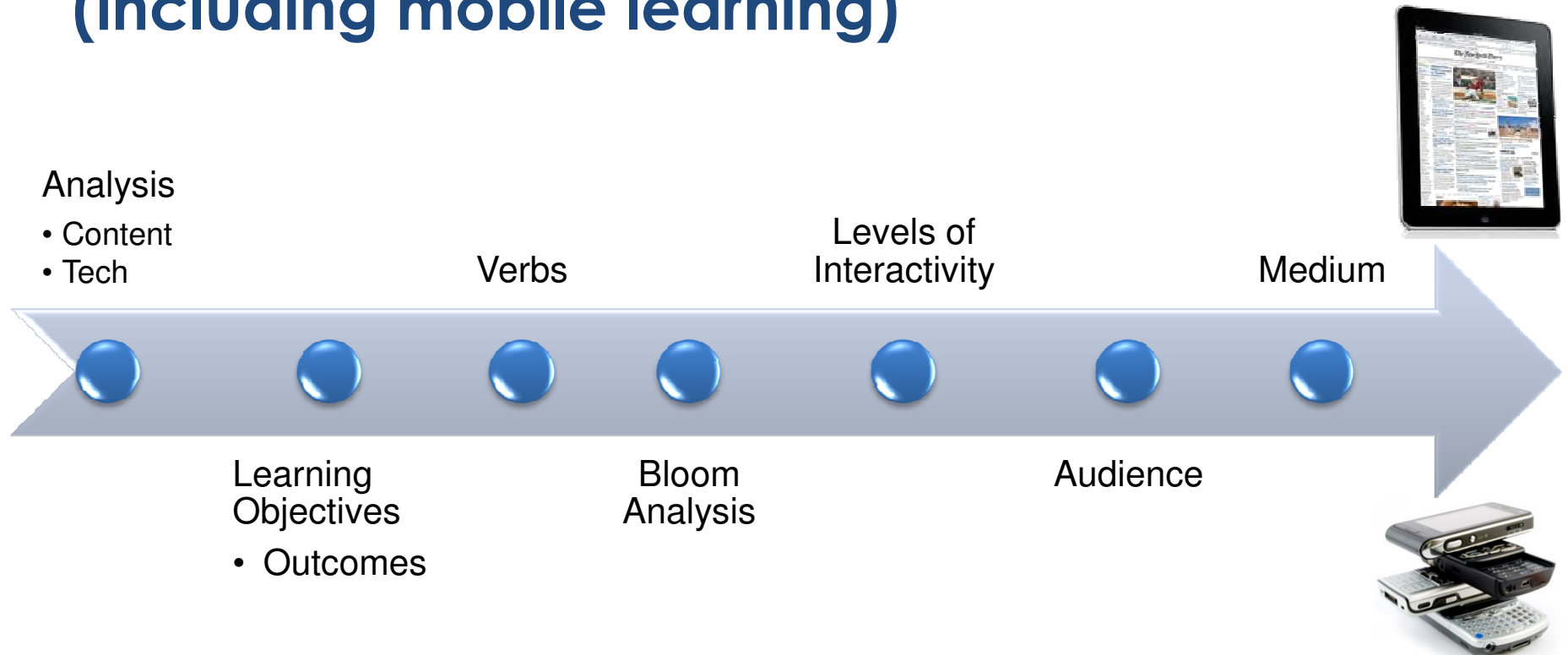
Levels of Interactivity



Comparing Bloom to Levels of Interactivity

Creating	<ul style="list-style-type: none">• Level 4 interactivity• Level 3 interactivity
Evaluating	<ul style="list-style-type: none">• Level 4 interactivity• Level 3 interactivity
Analyzing	<ul style="list-style-type: none">• Level 3 interactivity• Level 2 interactivity
Applying	<ul style="list-style-type: none">• Level 3 interactivity• Level 2 interactivity
Understanding	<ul style="list-style-type: none">• Level 2 interactivity
Remembering	<ul style="list-style-type: none">• Level 1 interactivity

How you decide on a delivery medium (including mobile learning)



An analysis might look like...

Topic	Content Presented	Bloom's Level	Mobile Delivery Category
	• Complex · Explanatory • Visual · Factual		
A	Complex	Evaluating	Assessment/Evaluation
B	Factual	Remember	Performance Support
C	Visual	Applying	Collaboration
D	Explanatory	Analyzing	Communication
E	Complex	Creating	Learning Engagement
F	Factual	Remember	Performance Support

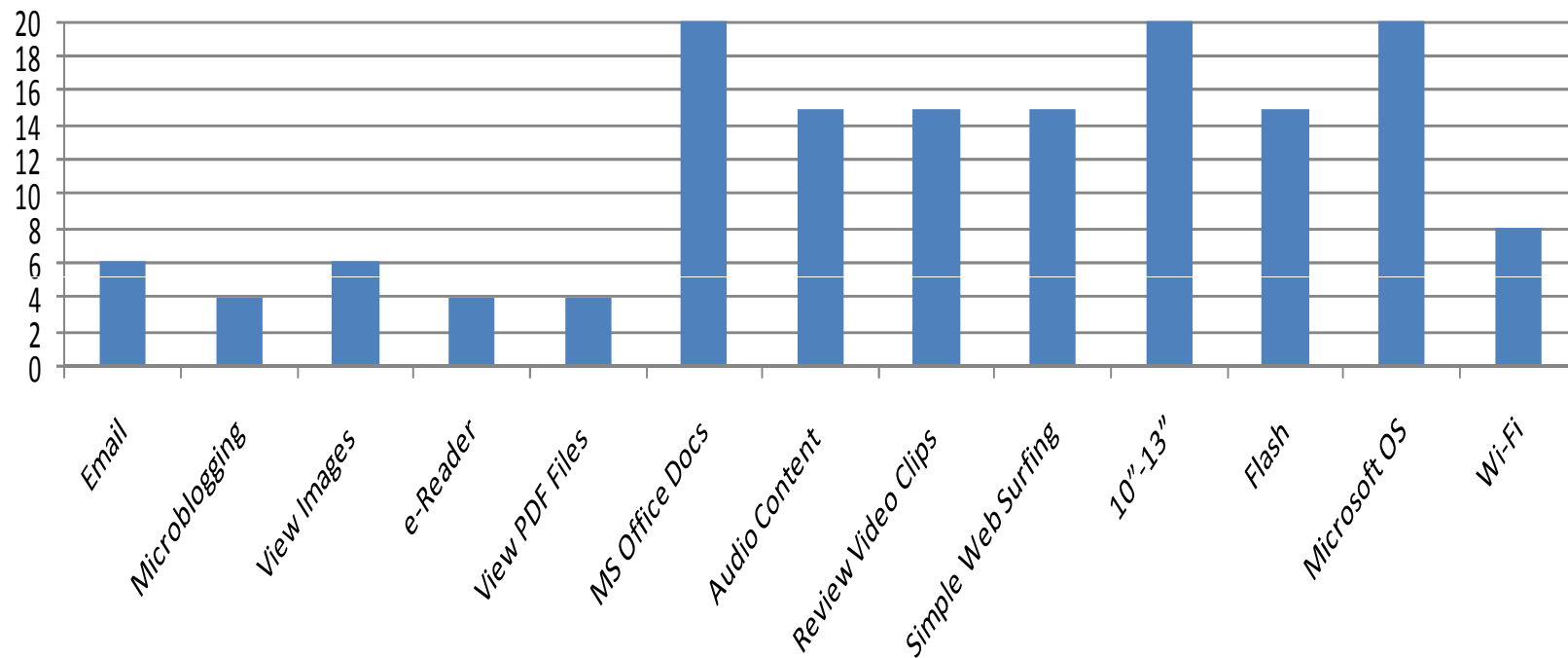
Device capabilities

Capability	Example	Strength	Weakness
Messaging	Texting, e-mail, micro-blogging	Allows communication	Can be distracting
Voice	Yes/No	Real-time communication	Voice plans can be expensive
Media Content	Images, PDF, MS Docs, audio/video	Common document formats	Not available on all devices
Mobile Web	Web surfing, streaming media	Can access web-based media	Not available on all devices, bandwidth
Mobile Formats/Utilities	Flash, Java	Allows rich animation	Not available on all devices
Screen Size	3", 5", 7", 10", 13"	Real estate/mobility	Real estate/mobility
Operating System	iOS, Android, Blackberry, MS	Varies	Varies
Network	Commercial/WiFi	Broadband	Costs/range

Device selection: Capability vs. Category

Capability	Learning Engagement	Communication / Collaboration	Assessment / Evaluation	Performance Support
Messaging	0	0	0	0
Voice	0	0	0	0
Media Content	0	0	0	0
Mobile Web	0	0	0	0
Mobile Formats/Utilities	0	0	0	0
Screen Size	0	0	0	0
Operating System	0	0	0	0
Network	0	0	0	0

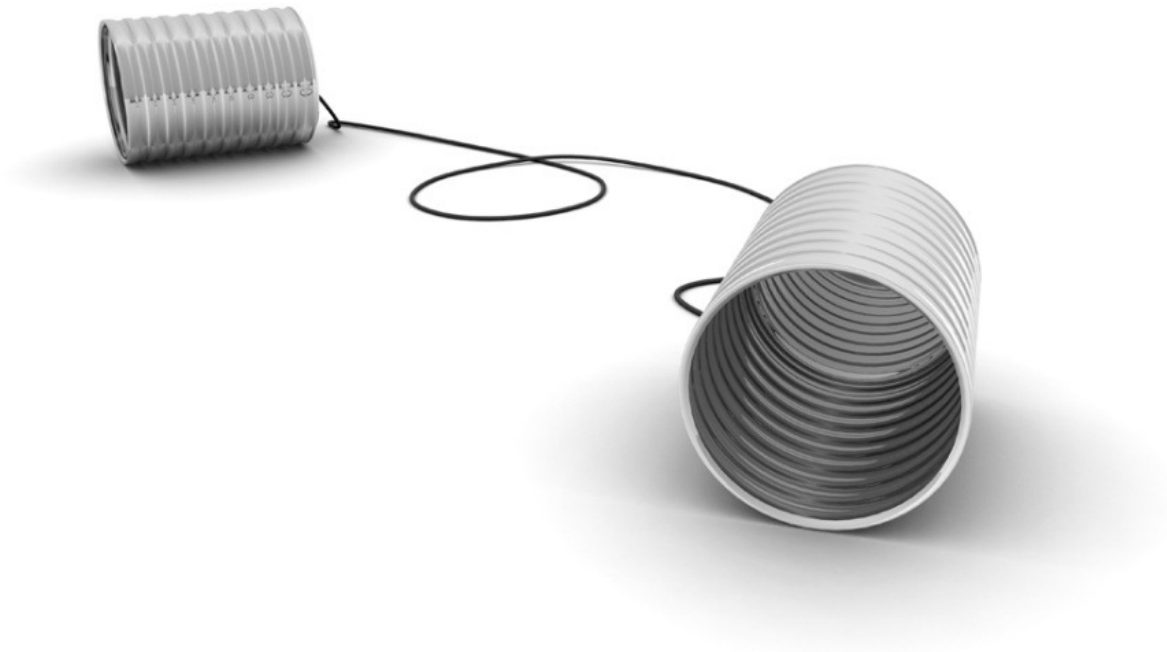
Device selection result



It all comes down to...



Discussions...



Rick Blunt