

# SAMR for Leadership: Beyond the Basics

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Ruben R. Puentedura, Ph.D.

## Transformation

### **Redefinition**

*Tech allows for the creation of new tasks,  
previously inconceivable*

### **Modification**

*Tech allows for significant task redesign*

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### **Augmentation**

*Tech acts as a direct tool substitute, with  
functional improvement*

### **Substitution**

*Tech acts as a direct tool substitute, with no  
functional change*

## Enhancement

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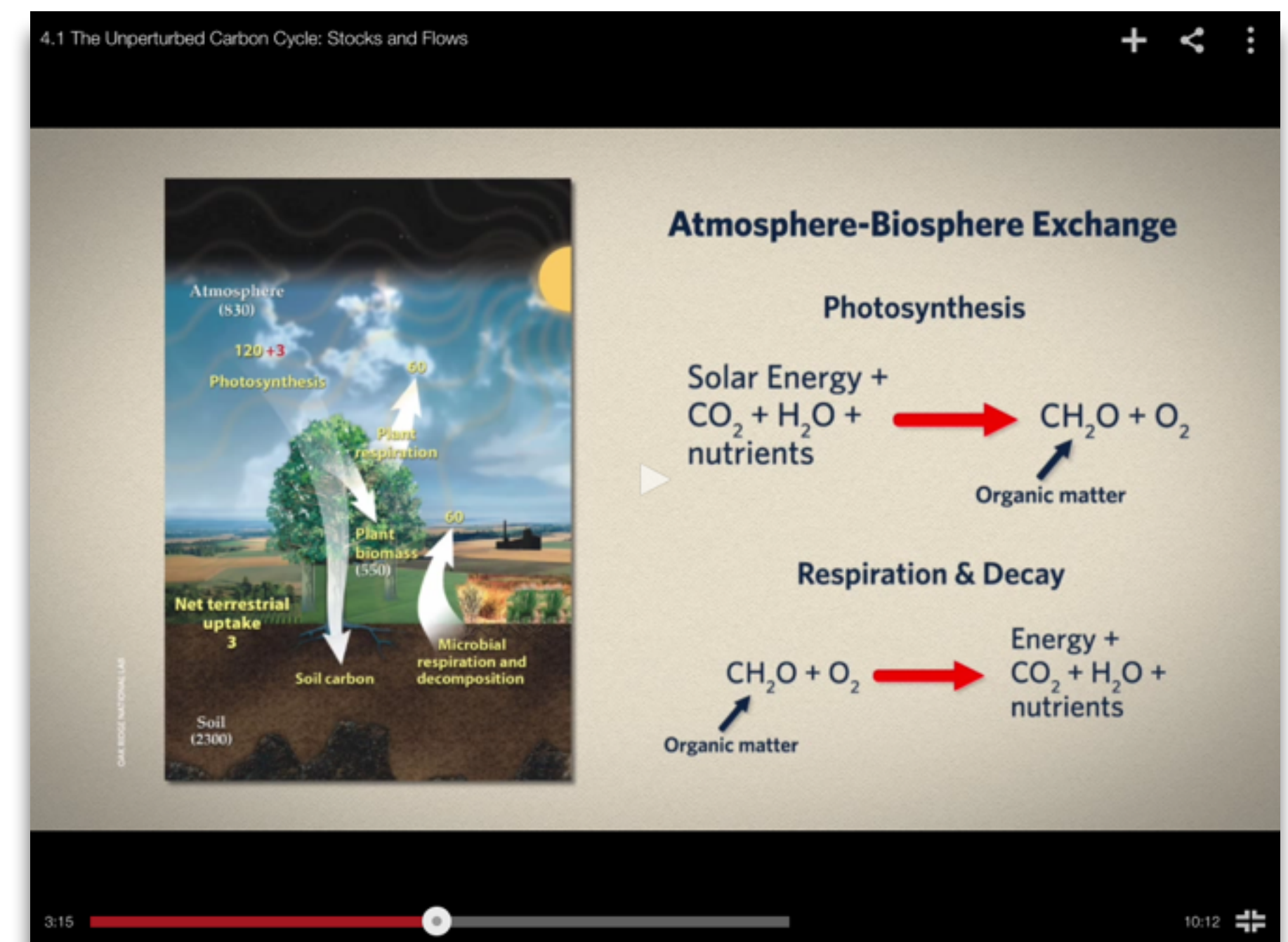
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The screenshot shows the MIT OpenCourseWare website interface. At the top, there's a navigation bar with 'MIT OPEN COURSEWARE' and 'MASSACHUSETTS INSTITUTE OF TECHNOLOGY'. Below this is a search bar and a 'Donate Now' button. The main content area is titled 'System Dynamics Self Study'. It features a graph showing 'Heroin stock', 'Price', 'Number of drug busts', and 'Revenue-raising crime' over time. The graph has four data series: 'Heroin stock' (orange), 'Price' (purple), 'Number of drug busts' (green), and 'Revenue-raising crime' (red). The x-axis is labeled 'Months' and ranges from 0 to 4. The y-axis is labeled 'Months' and ranges from 0 to 4. The graph shows a complex interaction between these variables. To the right of the graph, there's a sidebar with course information: 'Instructor(s) Prof. Jay Forrester', 'MIT Course Number 15.988', 'As Taught In Fall 1998 - Spring 1999', and 'Level Undergraduate / Graduate'. There's also a 'CITE THIS COURSE' button. At the bottom, there are social media sharing options (Like, Tweet, G+, Share) and a 'Submit' button. On the far right, there's a 'Discover, Learn, Support OCW' section with a grid of course thumbnails and a 'Find out how' button.



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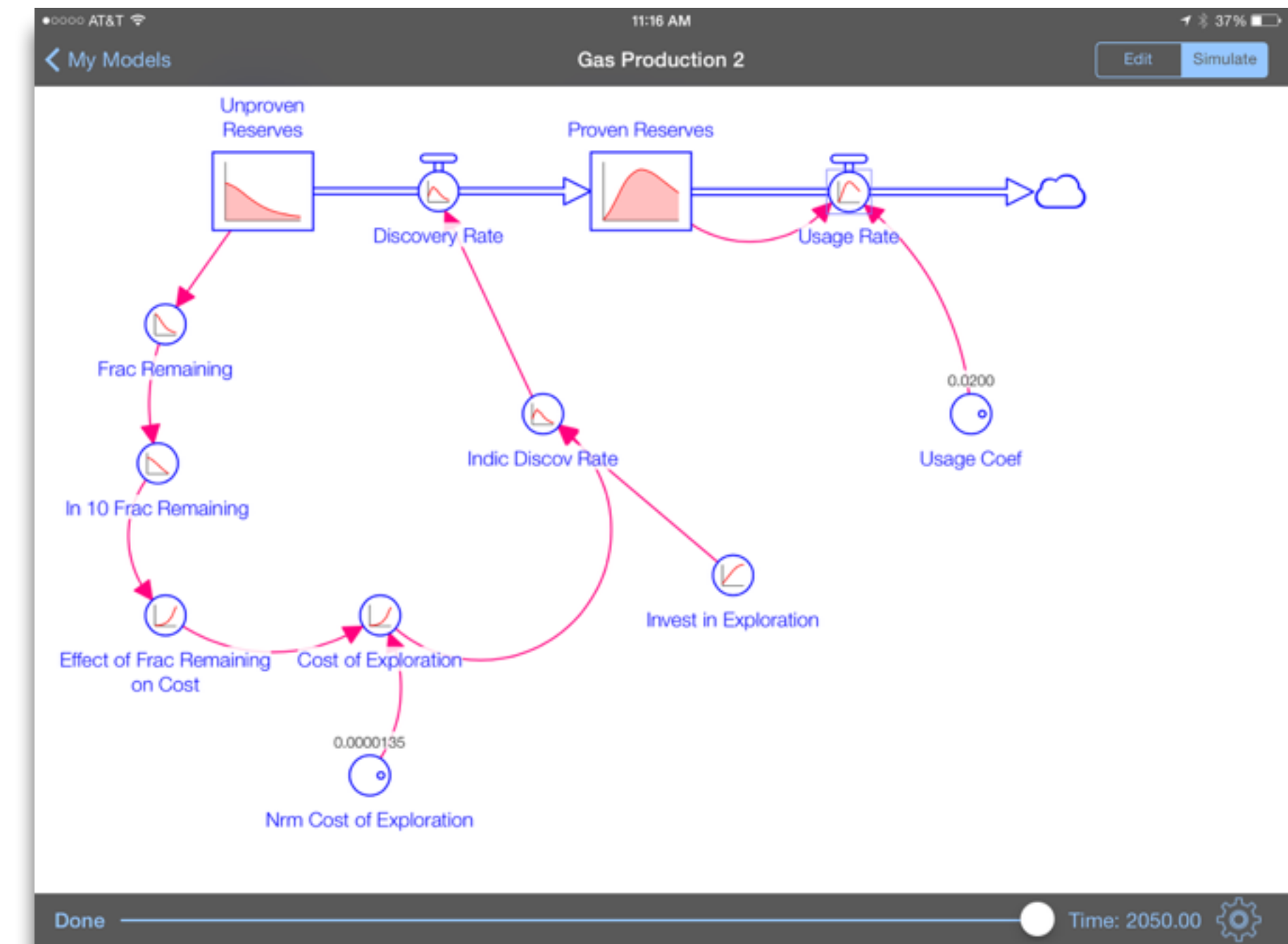
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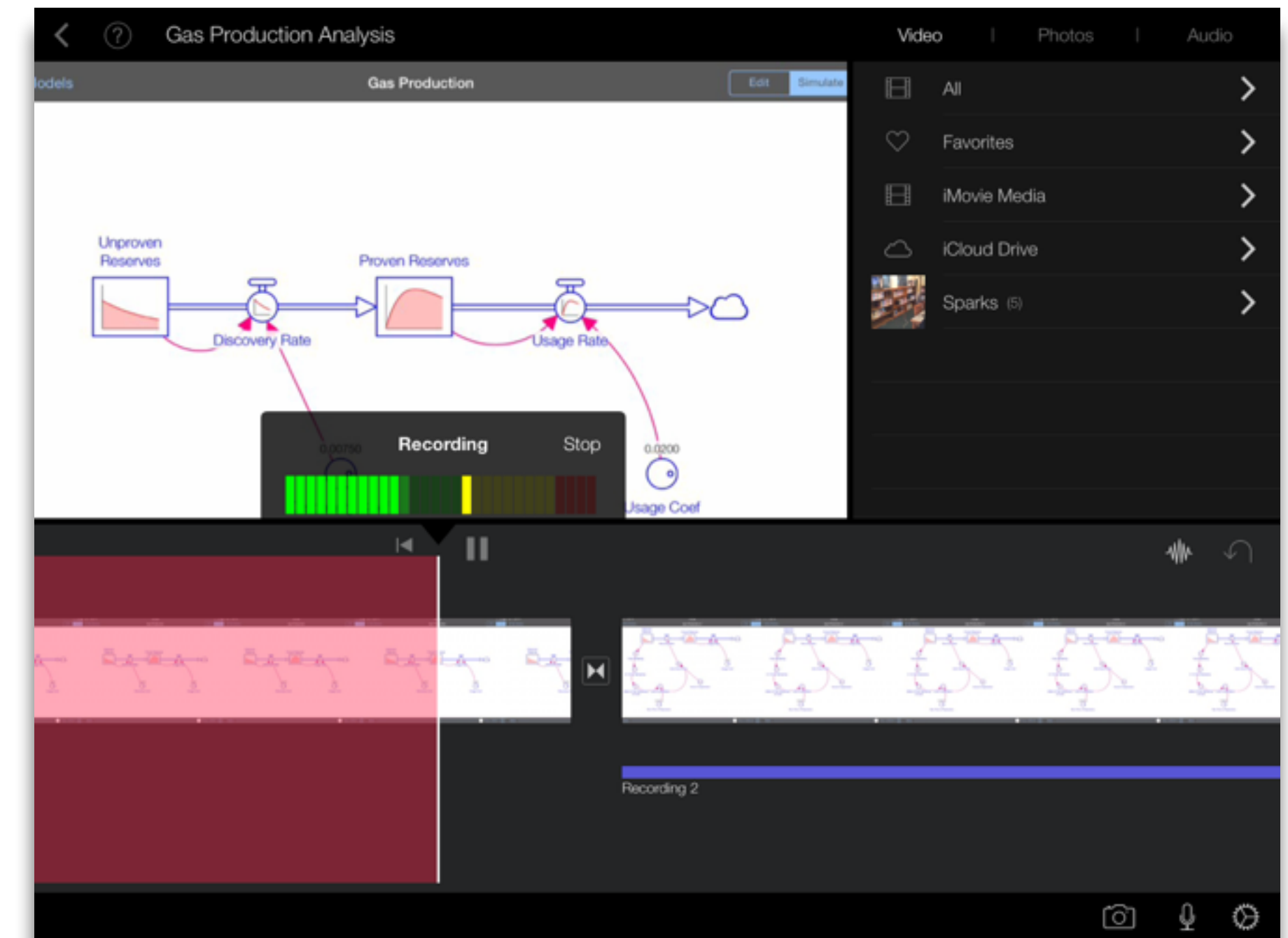
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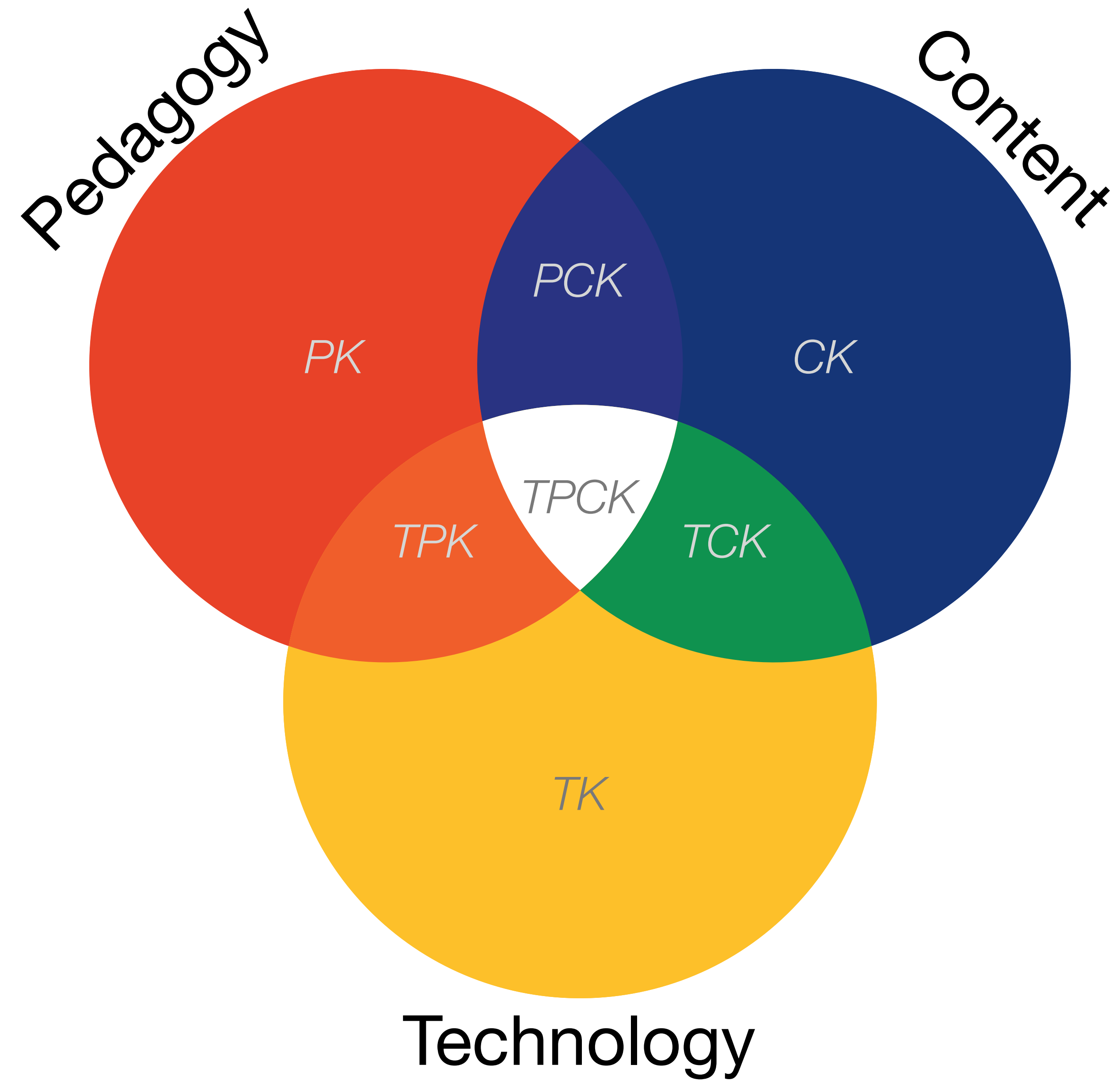
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Study	SAMR Level	Description	Effect Size
<b>Ligas (2002)</b>	<b>S</b>	CAI system used to support direct instruction approach for at-risk students.	<b>0.029</b>
<b>Xin &amp; Reith (2001)</b>	<b>A</b>	Multimedia resources provided to contextualize learning of word meanings and concepts.	<b>0.264</b>
<b>Higgins &amp; Raskind (2005)</b>	<b>M</b>	Software/hardware used for text-to-speech, definitions, pronunciation guide for children with reading disabilities.	<b>0.600</b>
<b>Salomon, Globerson &amp; Guterman (1989)</b>	<b>R</b>	Software presents students with reading principles and metacognitive questions as part of the reading process.	<b>1.563</b>



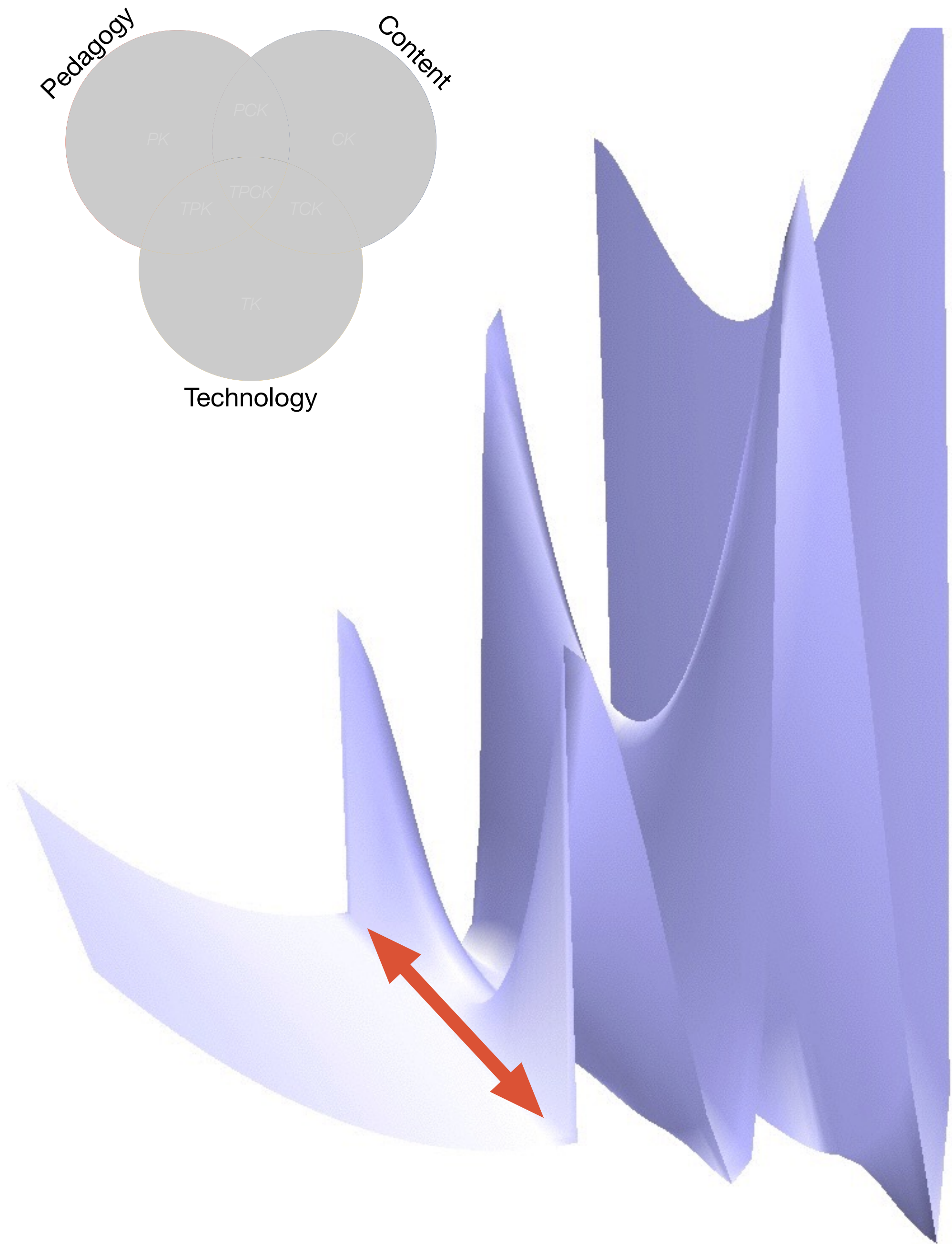


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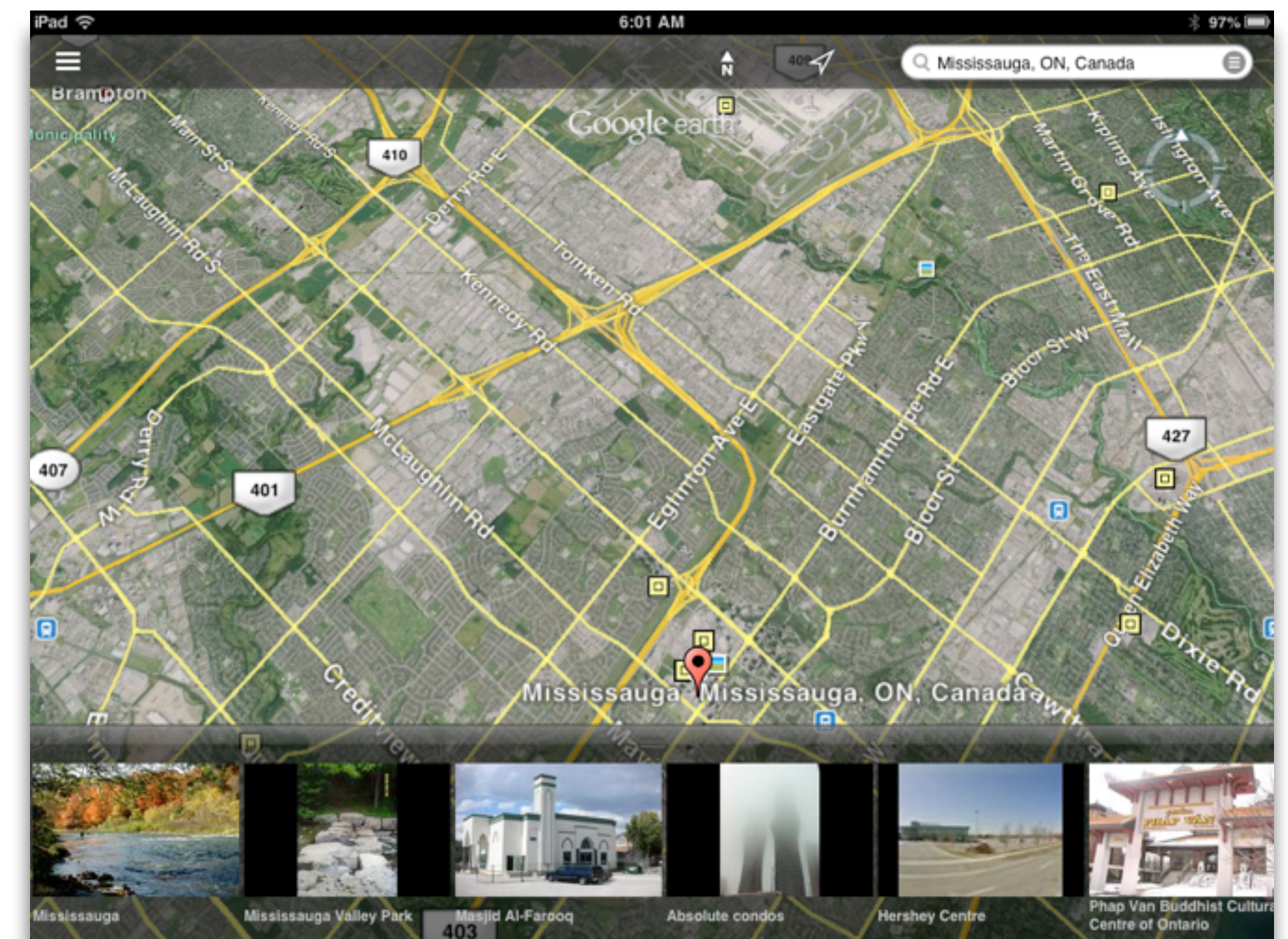
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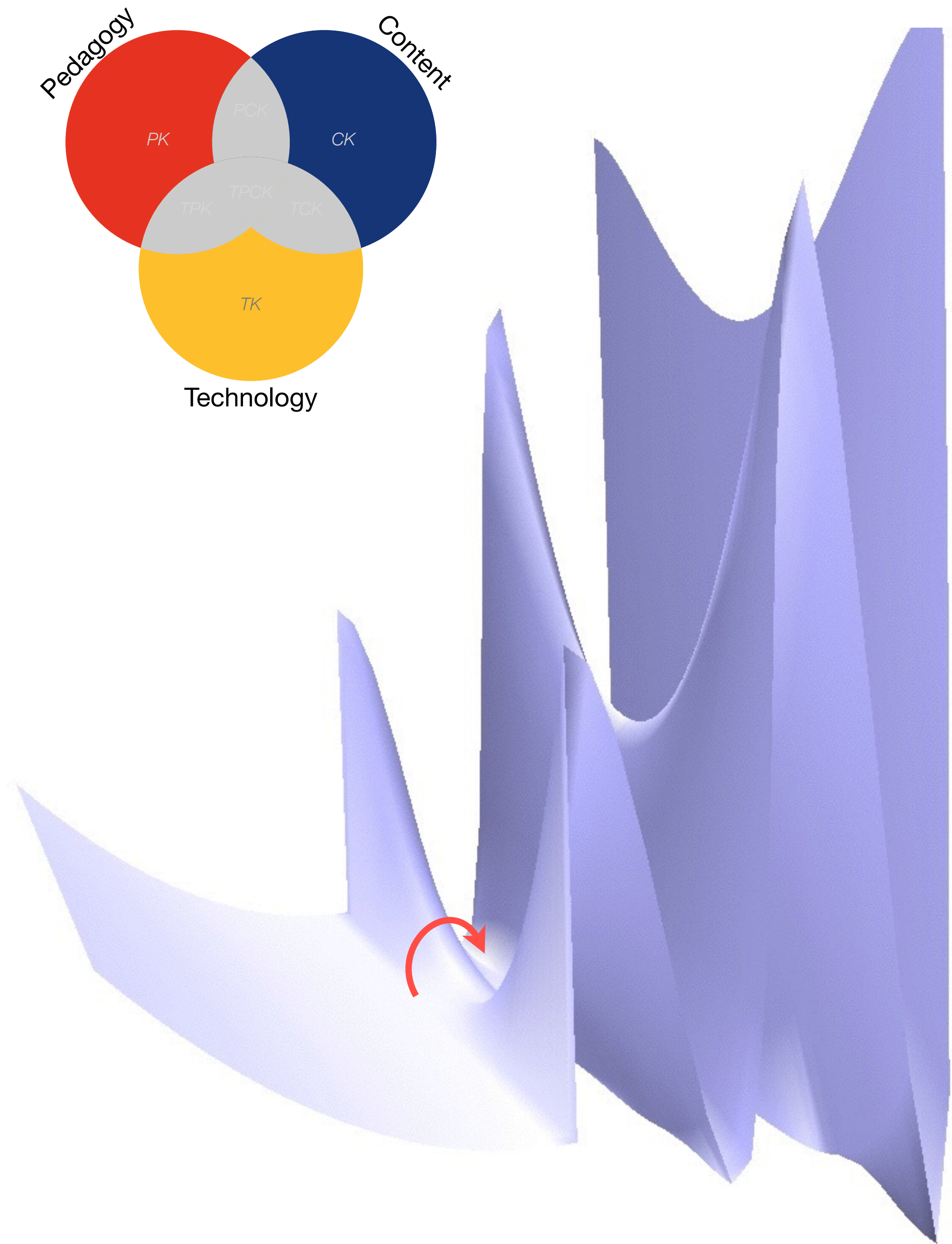


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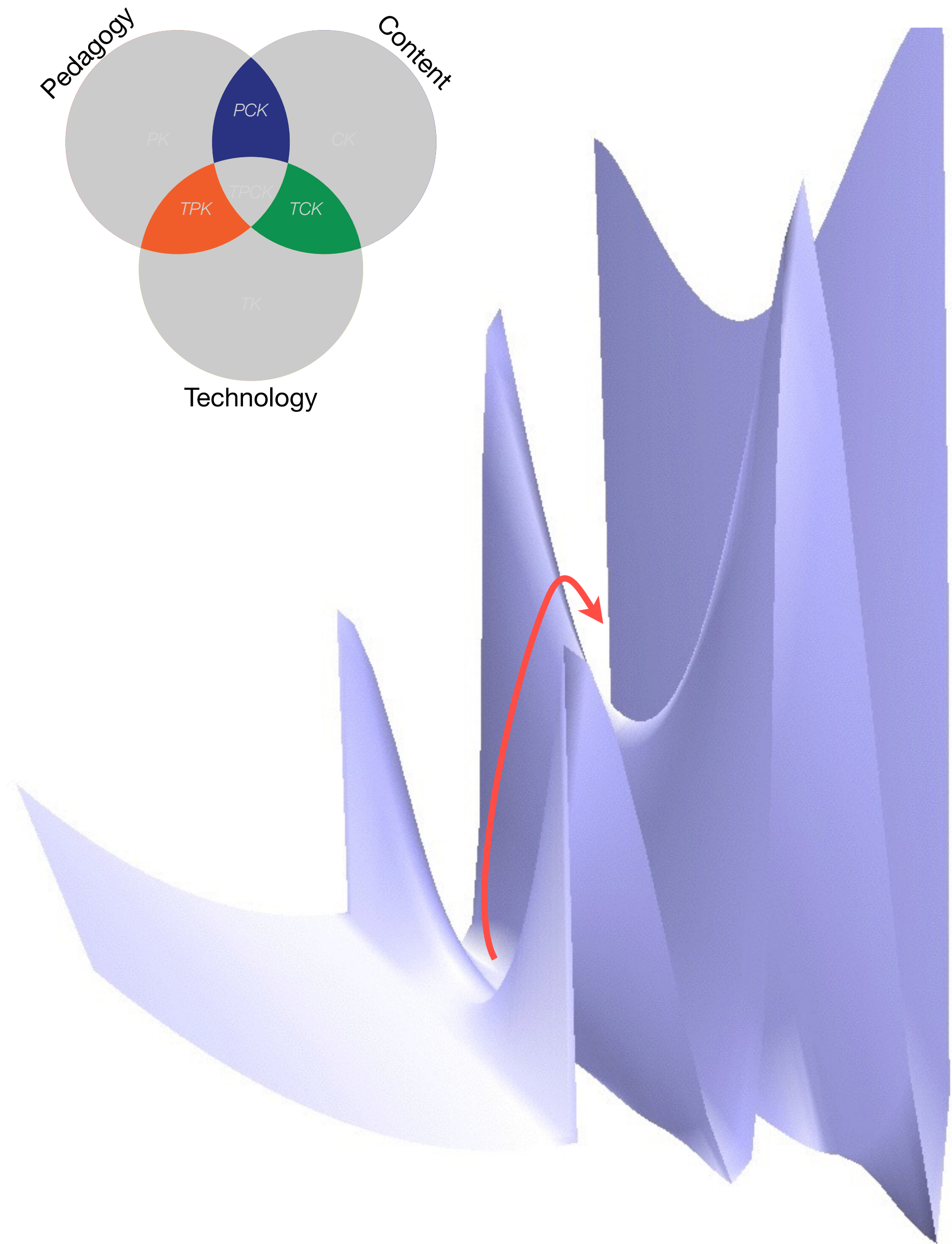


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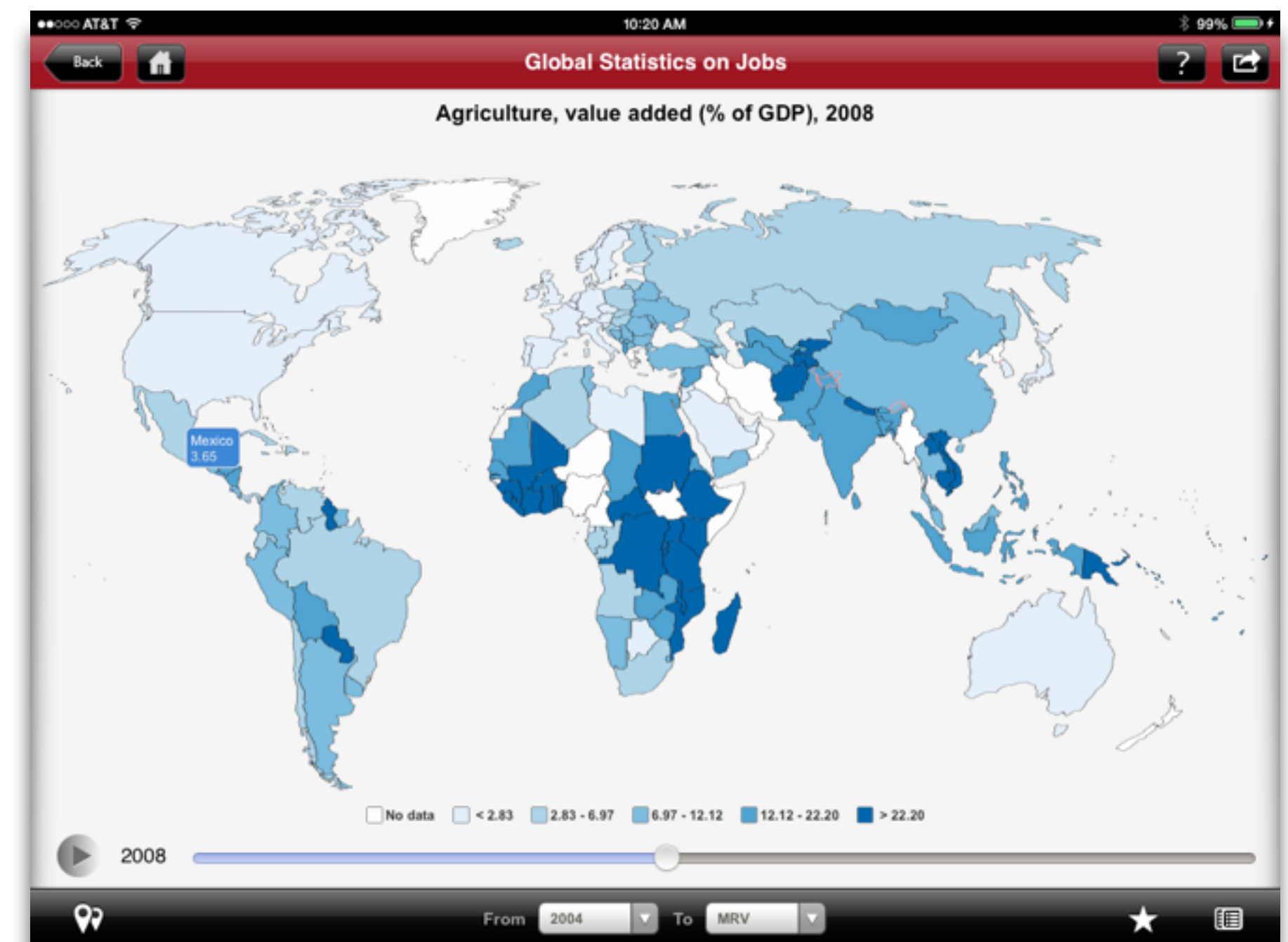
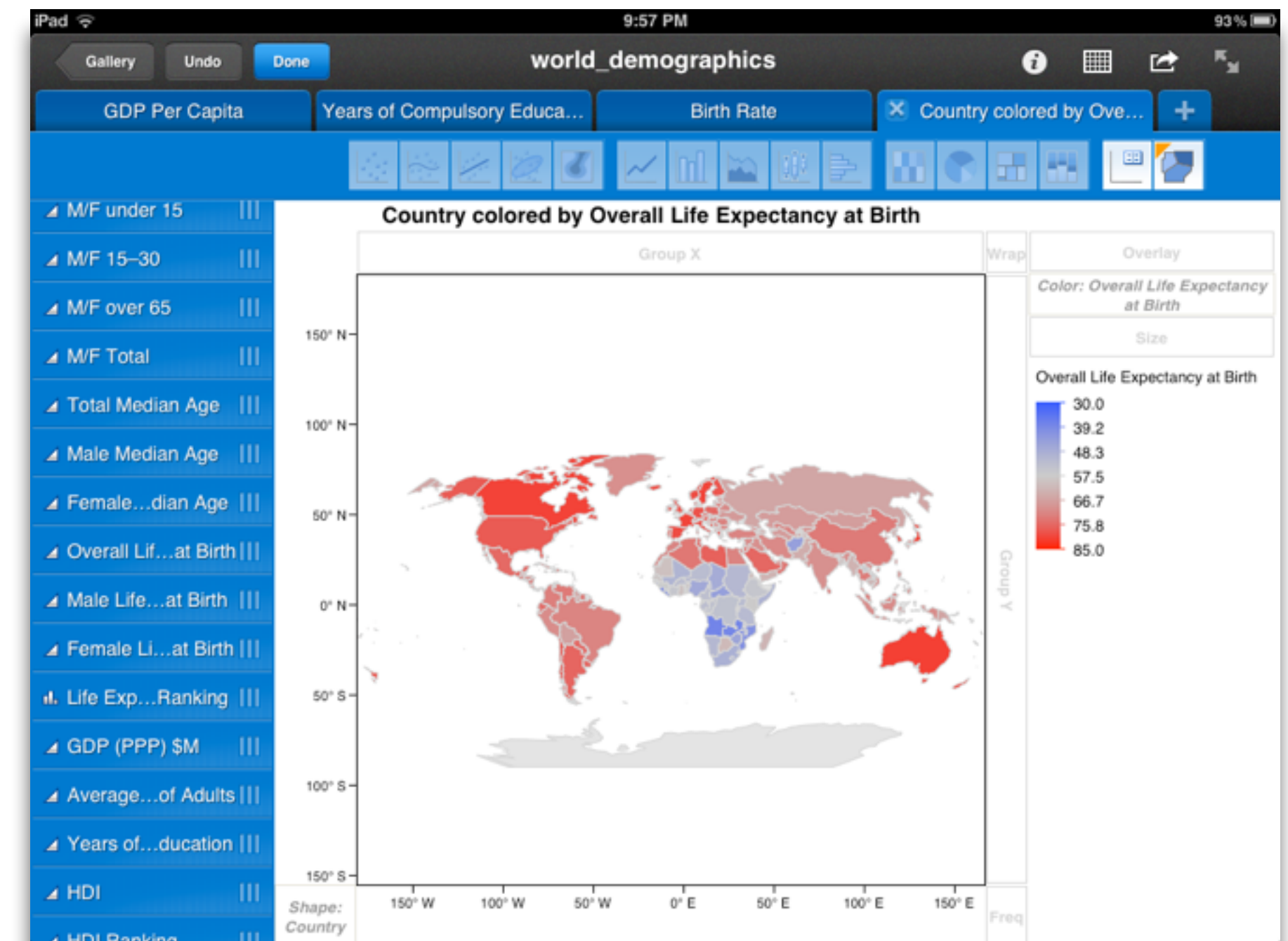
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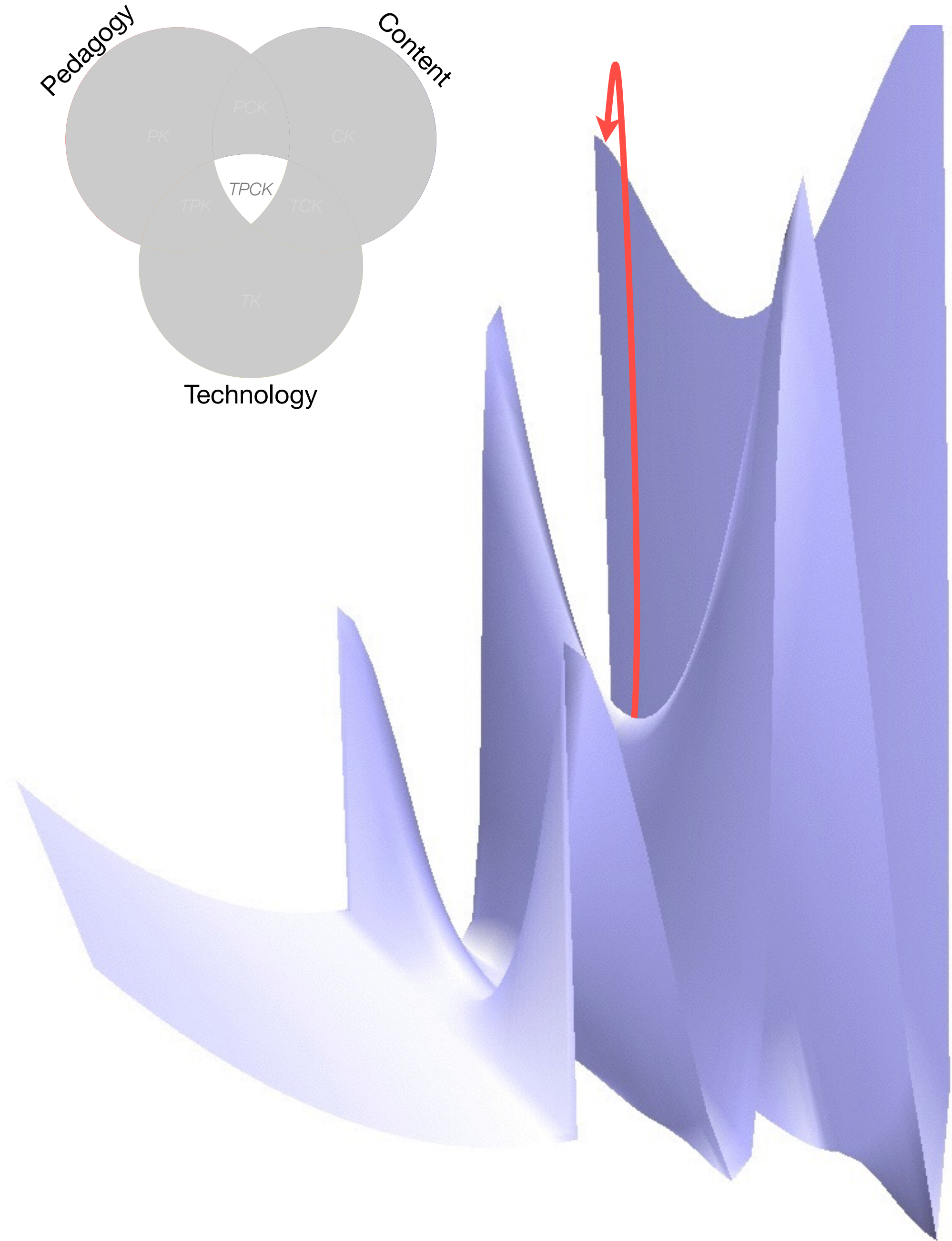


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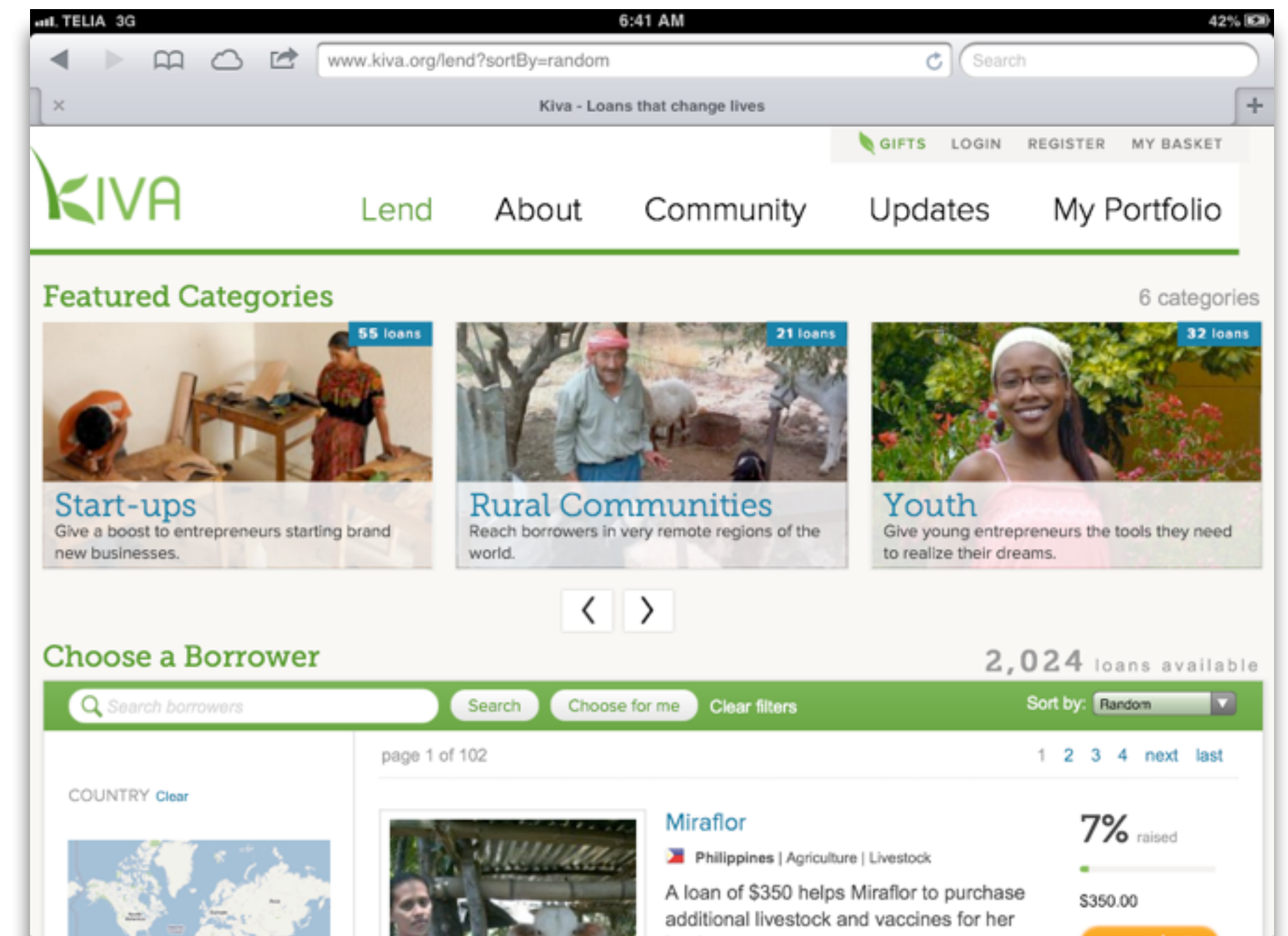
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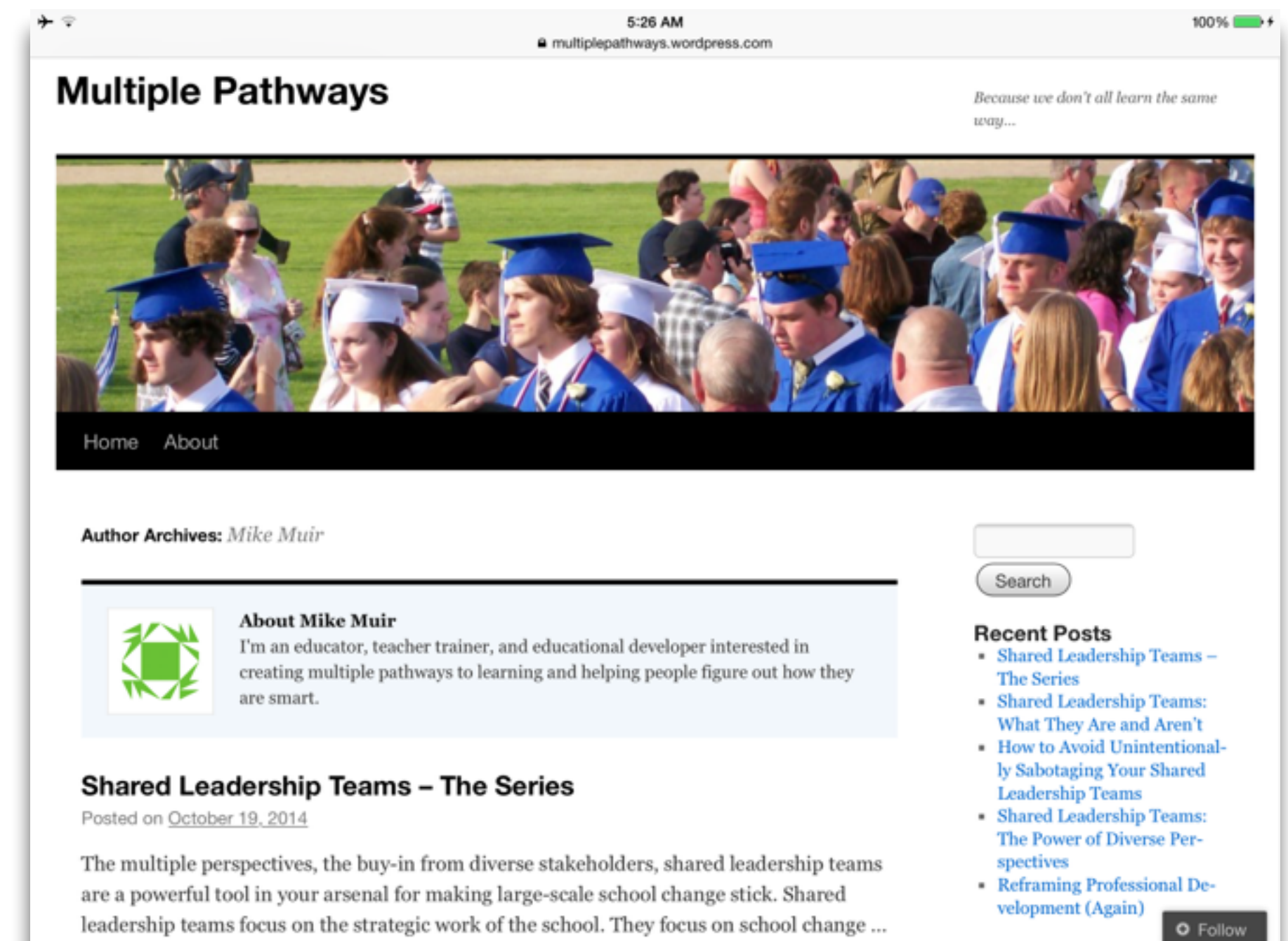
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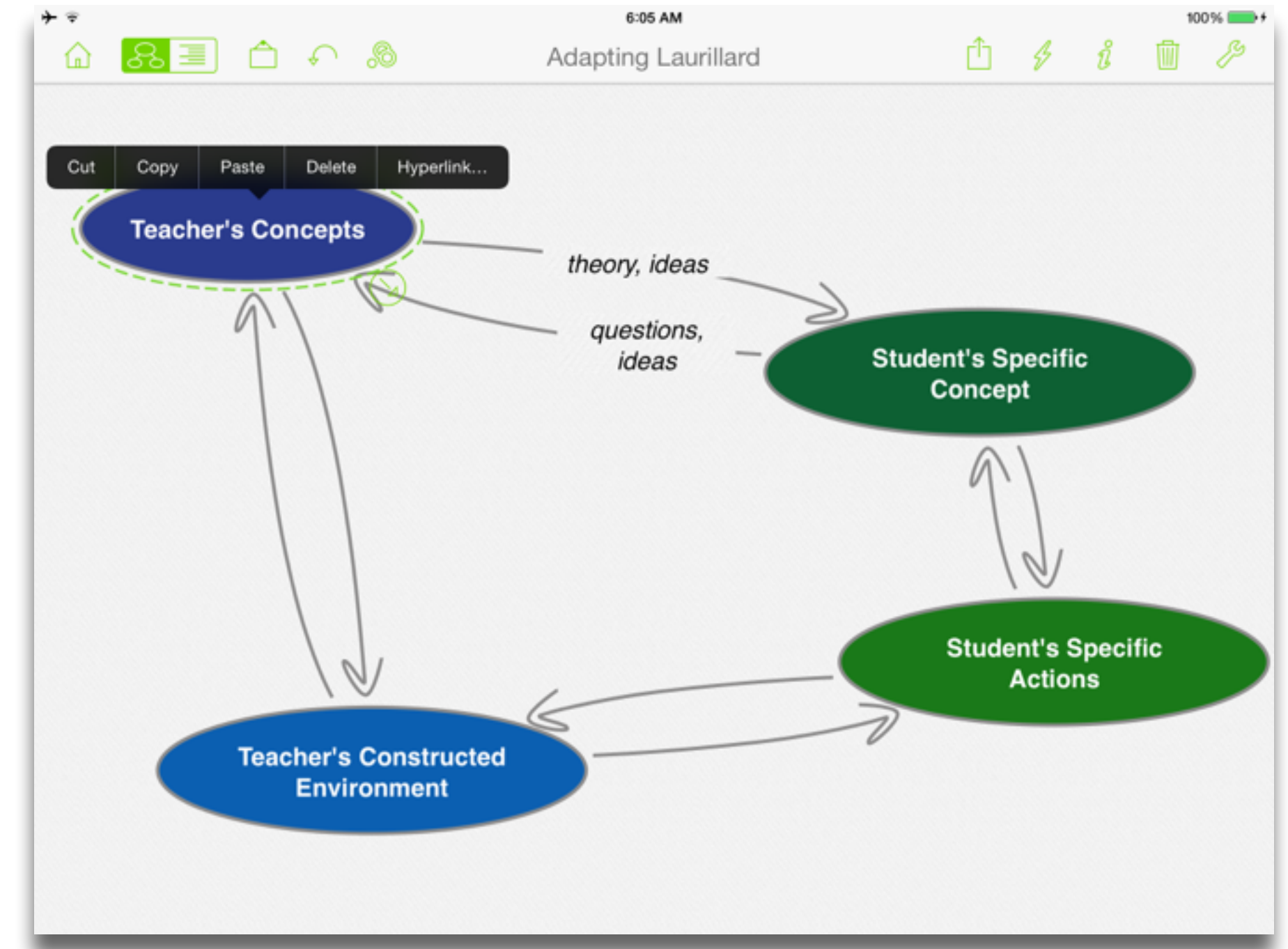
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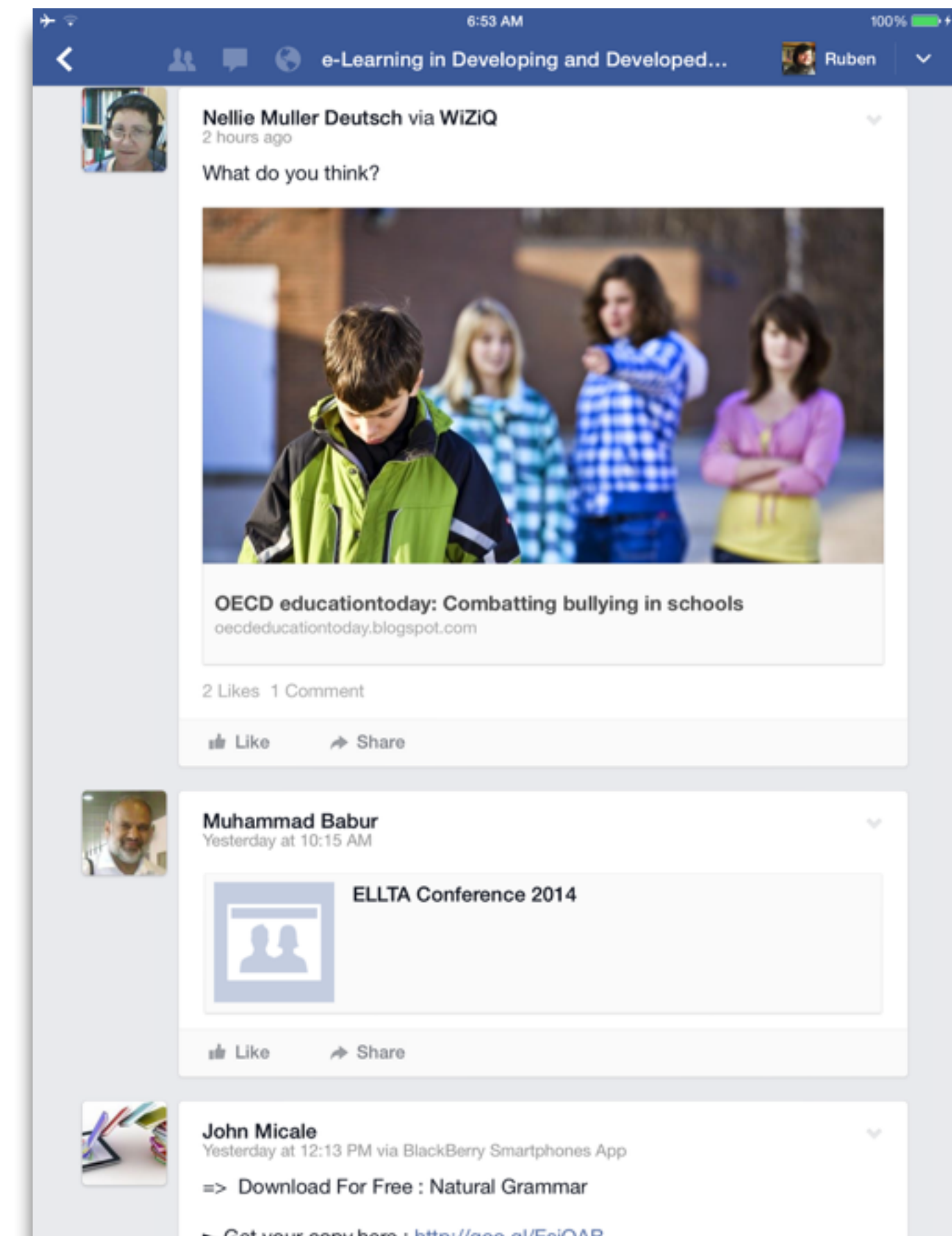
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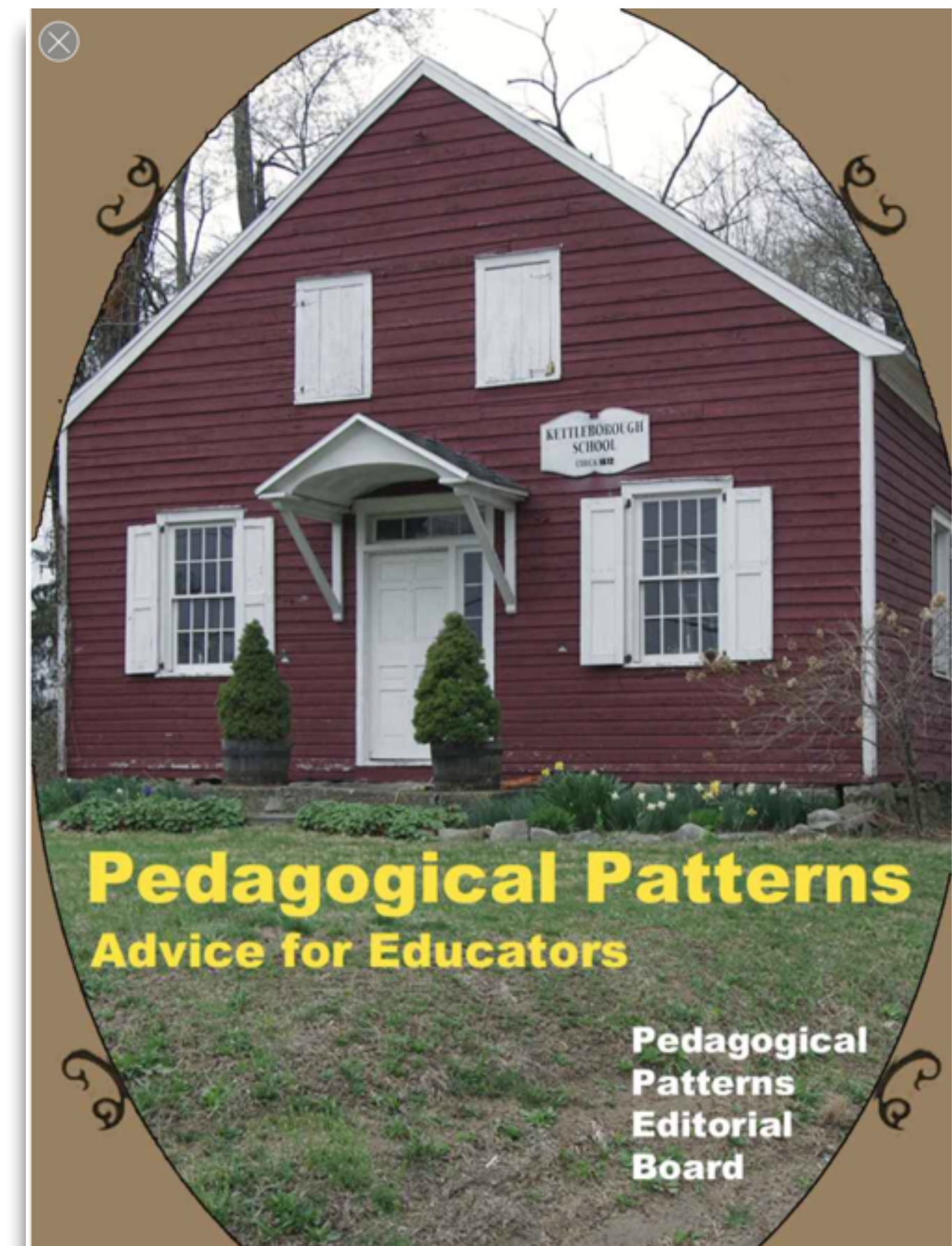
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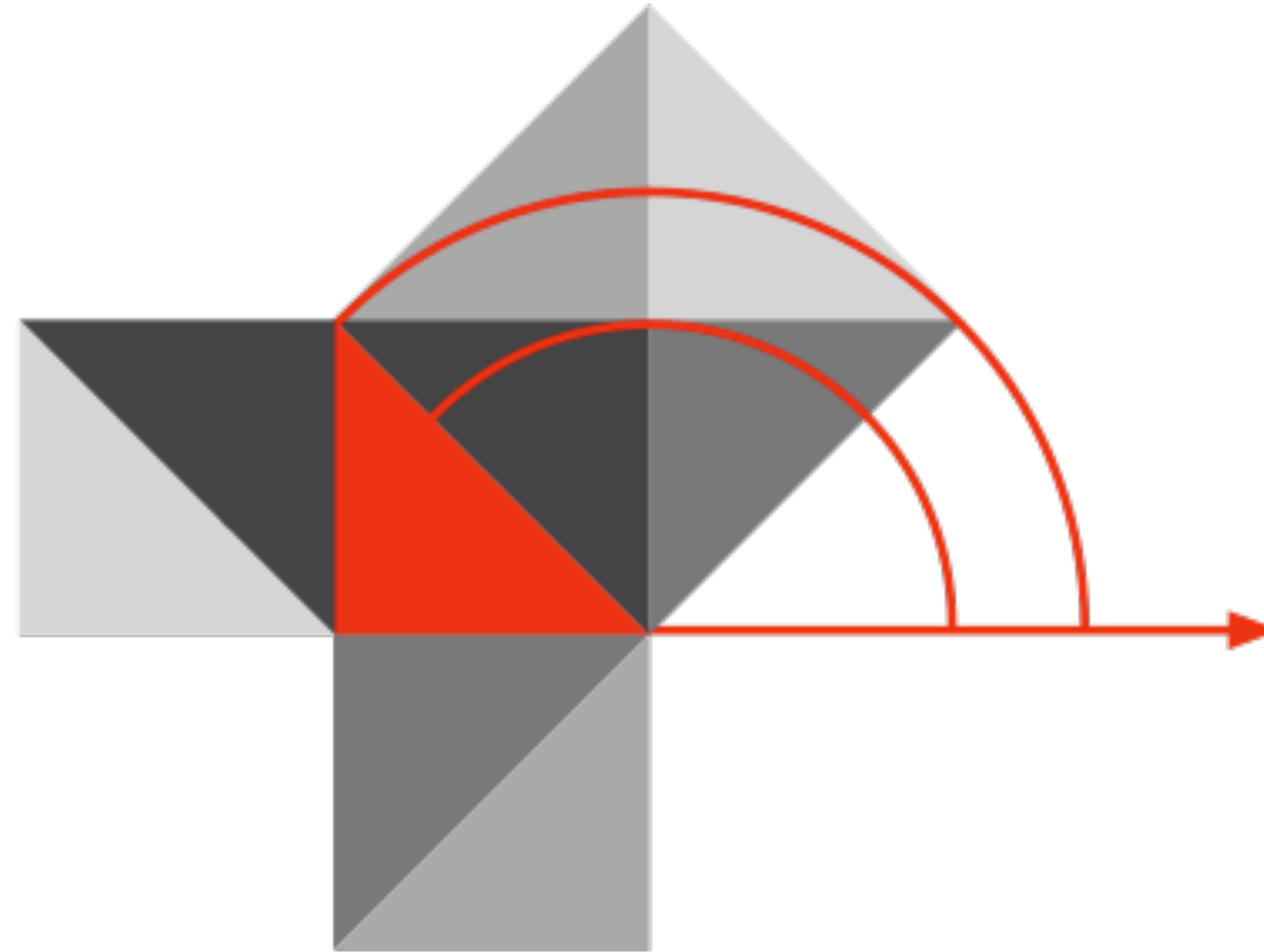
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# Hippasus

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