An Intro to the SAMR Method: The Two-Pass Ladder

Ruben R. Puentedura, Ph.D.

Tech acts as a direct tool substitute, with functional improvement

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

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

Modification Tech allows for significant task redesign Transformation

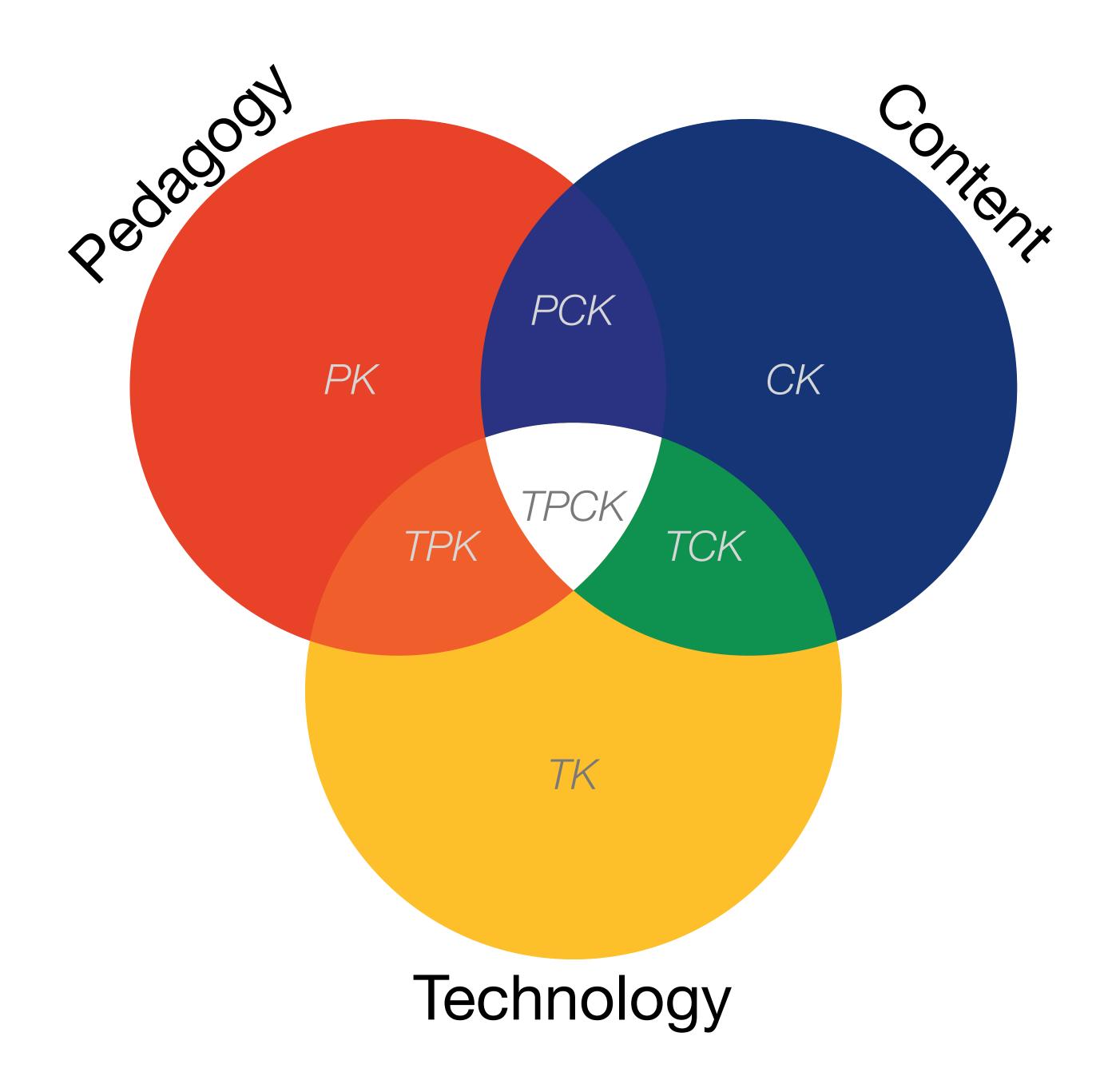
Augmentation

Ruben R. Puentedura, As We May Teach: Educational Technology, From Theory Into Practice. (2009)

Social	Mobility	Visualization	Storytelling	Gaming
200,000 years	70,000 years	40,000 years	17,000 years	8,000 years
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	Ruben R. Puentedura, "Technology In Educati	on: The First 200,000 Years" The NMC Perspective Series: Ideas	that Matter. NMC Summer Conference, 2012.	







Punya Mishra & Matthew J. Koehler, "Technological pedagogical content knowledge: A framework for teacher knowledge". Teachers College Record, 108(6). (2006)

Building a SAMR Ladder

- Four steps:
 - Select a unit of instruction •

 - Redesign the development of the unit at the A, M levels

Redesign the intro to the unit (basic knowledge, materials) at the S level

• Redesign/create a student culminating experience for the unit at the R level

Why Build a Ladder?

- using SAMR
- Some advantages in this context:
 - Proximity to existing practice
 - Sustainability of effort •
 - Option for gradual implementation

Only one of many possible approaches to redesigning a unit of instruction

Particularly well-suited to "first efforts" in technology-based curricular redesign



Three Questions (and Followups)

- Which unit of instruction would you like to redesign?
 - Why?
- What did you do before in this unit that worked?
 - Why did you do it?
- What would you like to change or replace?
 - Why?

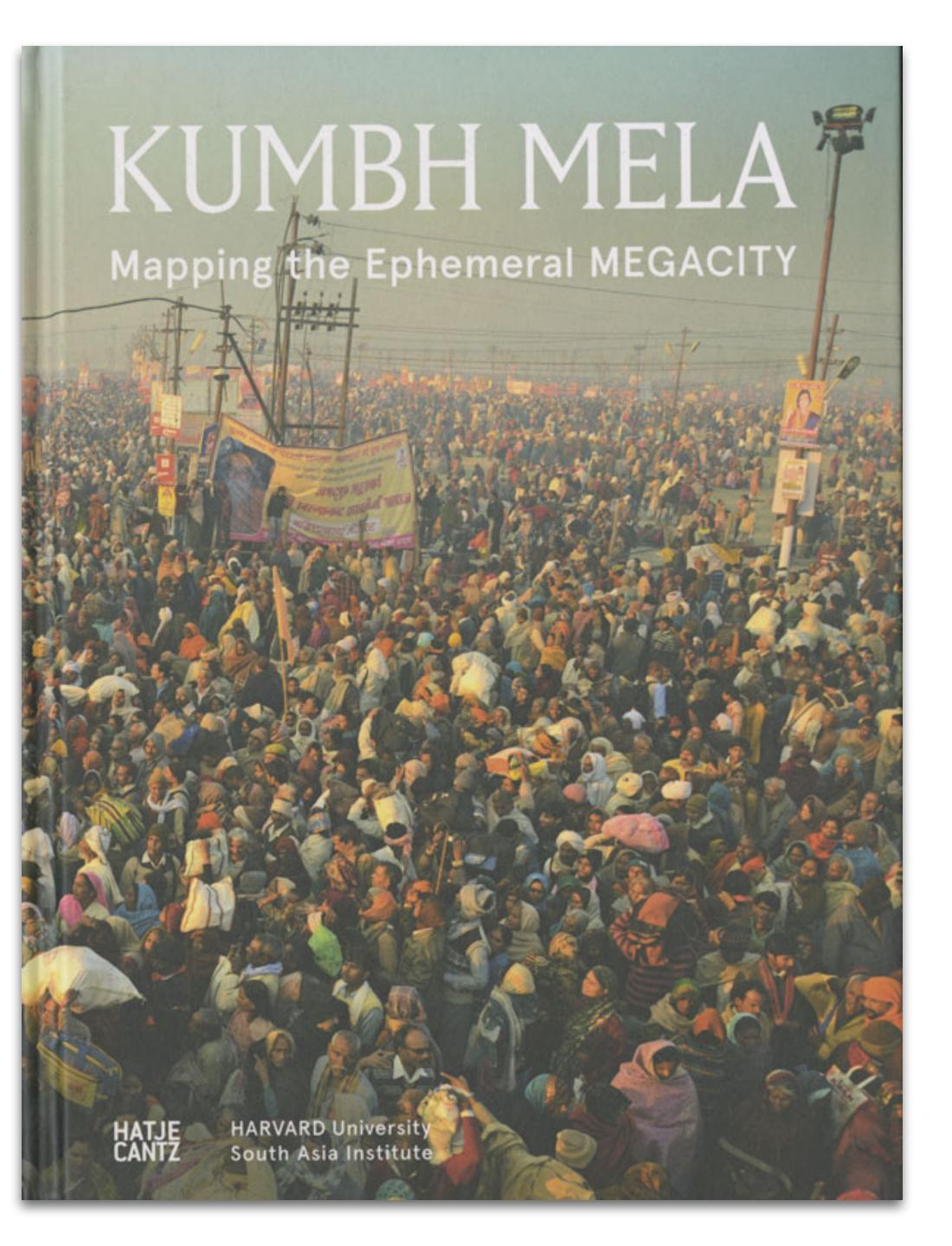
The Two-Pass Ladder – Pass 1

- - S: Go for low-hanging fruit, e.g.
 - access to resources
 - coordination of social environments
 - basic approaches to information management
 - A: Go for enhancing what you chose in S, e.g.
 - curation of resources
 - organization of peer discussion/instruction experiences
 - information analysis and visualization

• Redesign at the S/A levels, using one of Technology, Pedagogy, or Content as your driver:

The Two-Pass Ladder – Pass 2

- Now, redesign at the M/R levels for a different driver (from Technology, Pedagogy, or Content), but in light of the first pass driver:
 - M: Go for defining extended experiences in student exploration/creation that leverage the choices made for A
 - R: Go for student agency, allowing them to build their own exploration/ creation using the experiences developed at M



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

Modification

Tech allows for significant task redesign

Driver: T

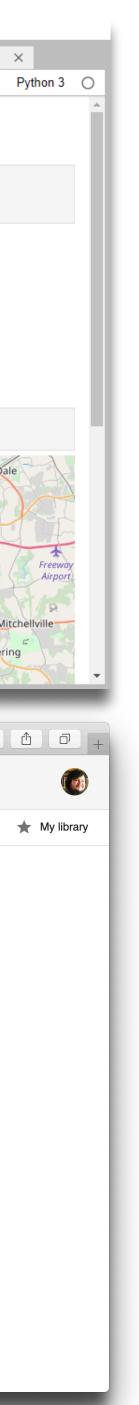
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Redefinition Tech allows for the creation of new tasks, previously inconceivable

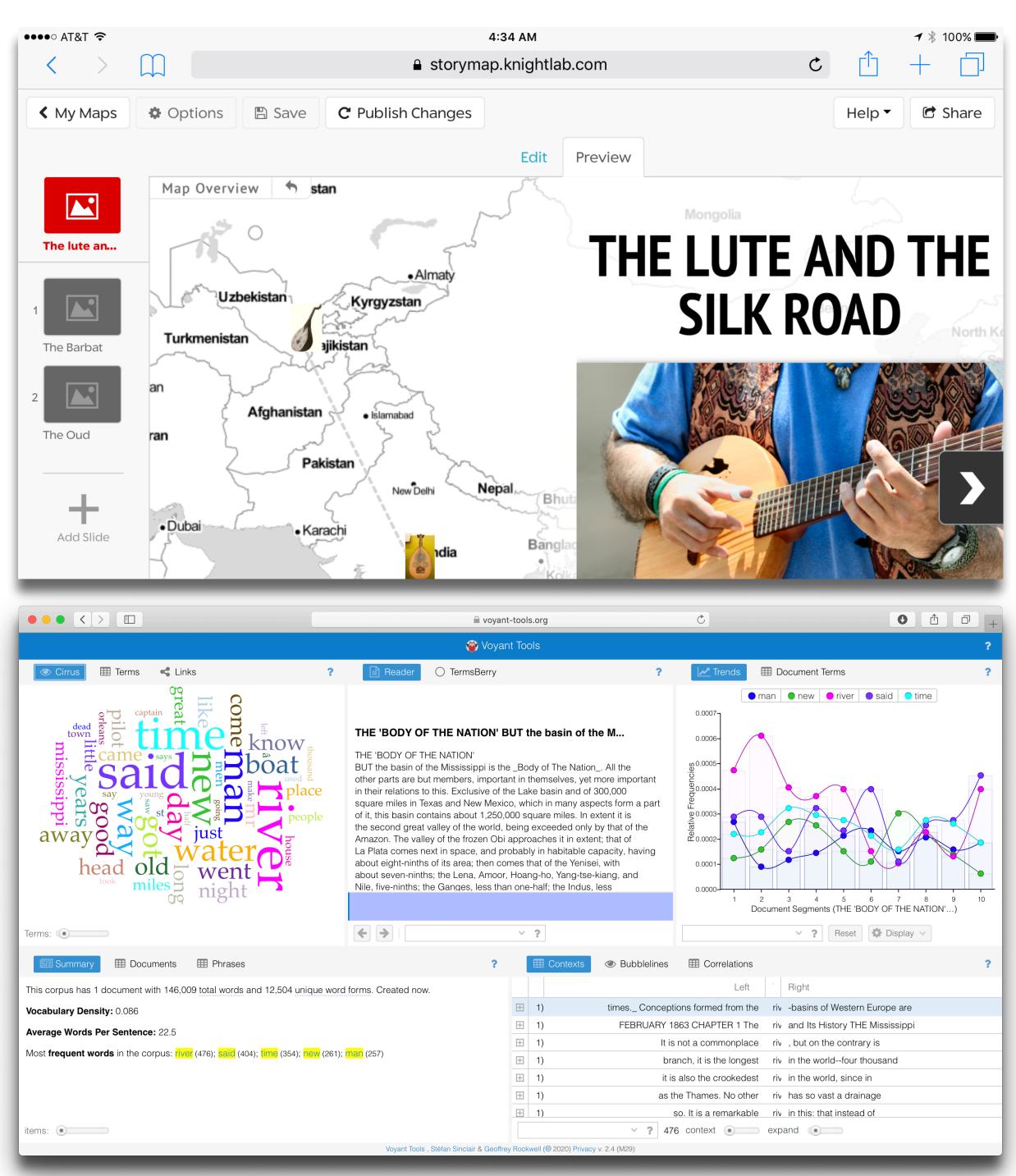
Modification

Tech allows for significant task redesign

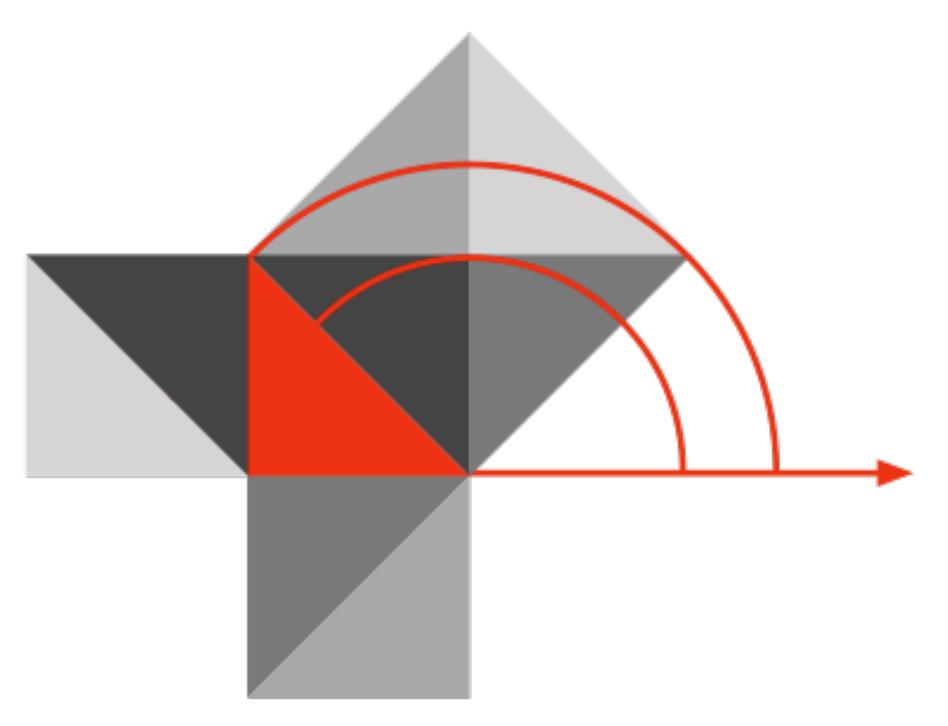
Driver: C

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

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



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