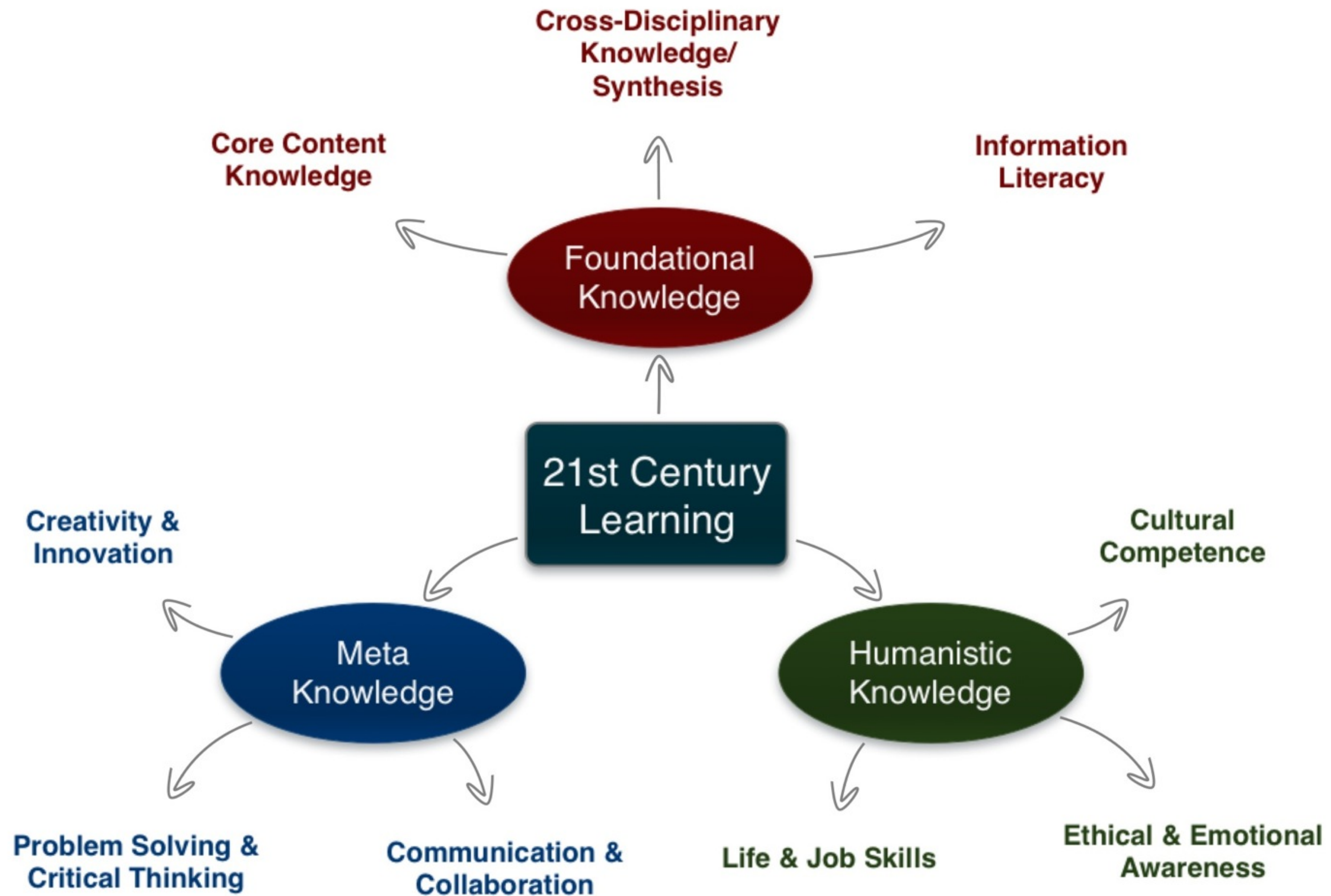


SAMR and Curriculum Redesign

Ruben R. Puentedura, Ph.D.



Transformation

Redefinition

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

Modification

Tech allows for significant task redesign

Augmentation

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

Substitution

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

Enhancement

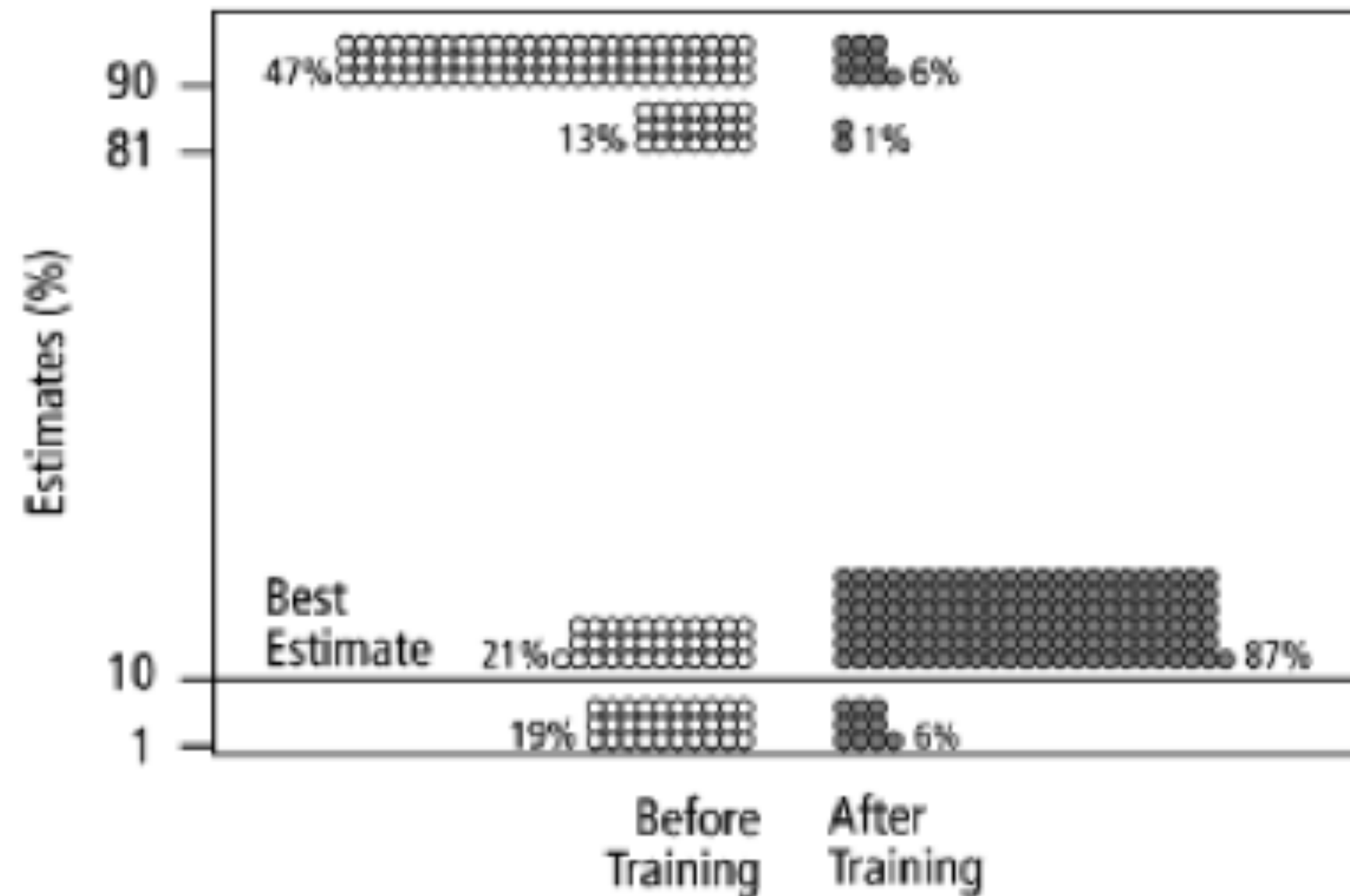


Fig. 2. Estimates by 160 gynecologists of the probability that a woman has breast cancer given a positive mammogram, before and after receiving training in how to translate conditional probabilities into natural frequencies.

Redefinition

Tech allows for the creation of new tasks, previously inconceivable

Modification

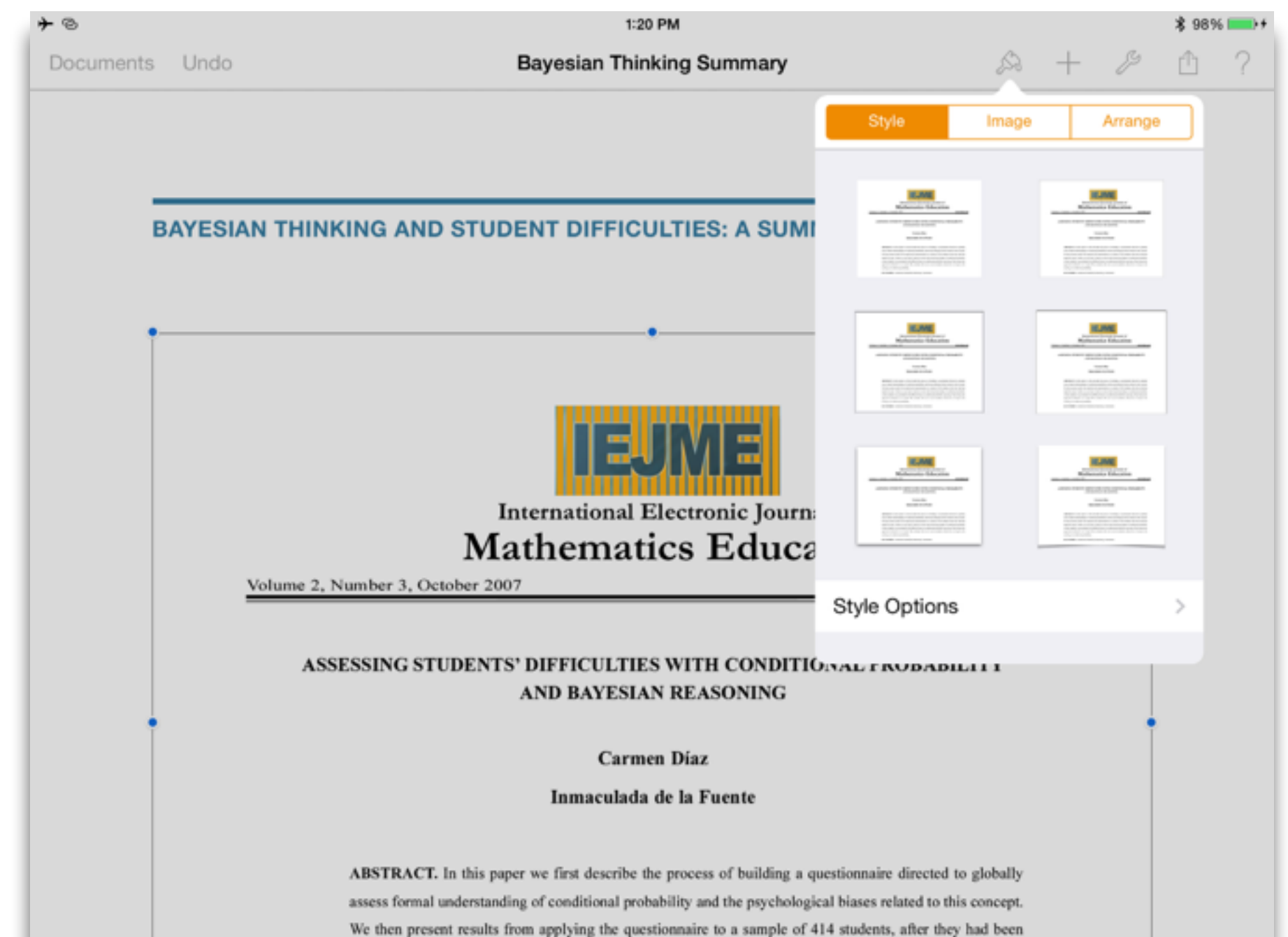
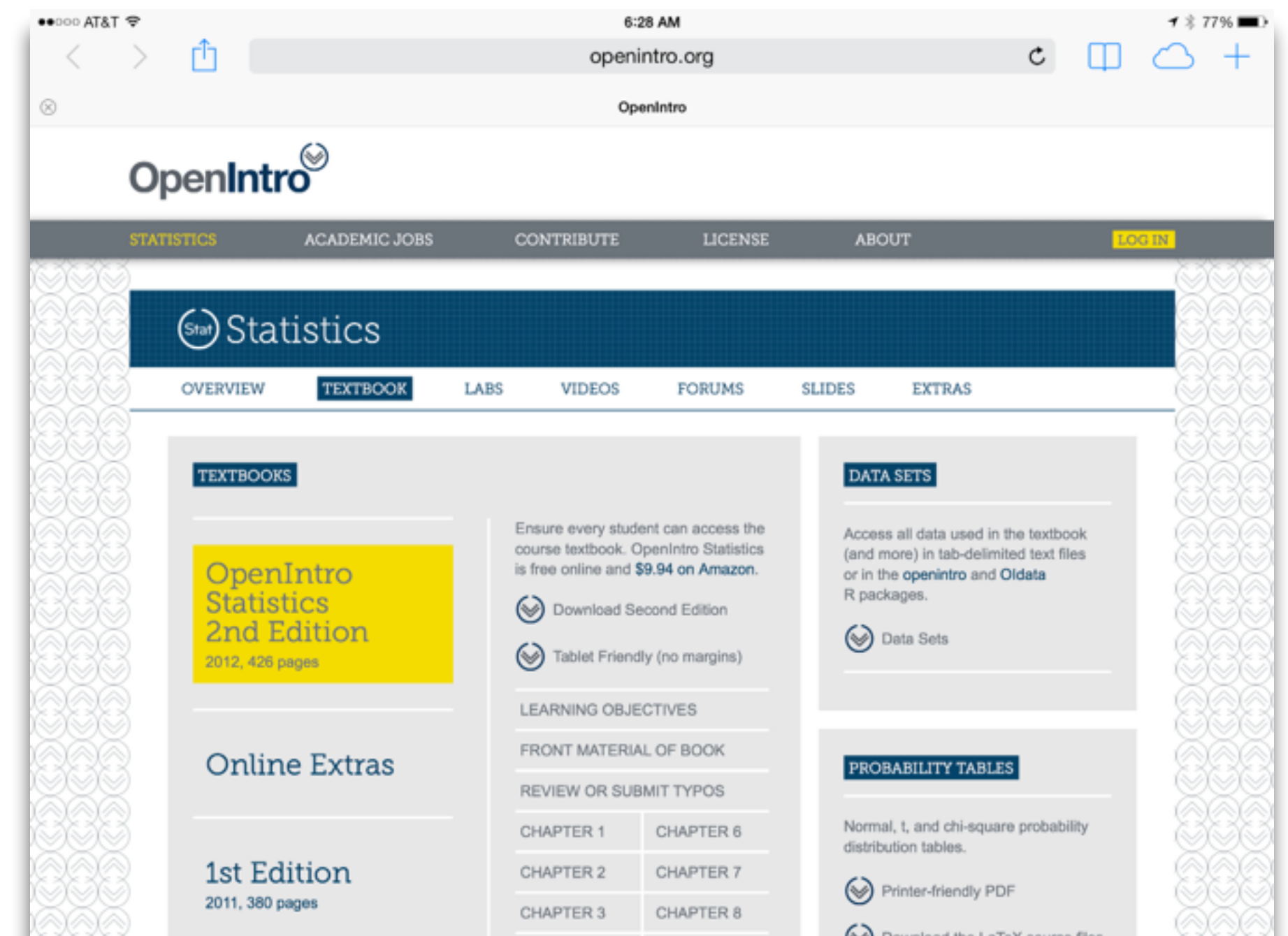
Tech allows for significant task redesign

Augmentation

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

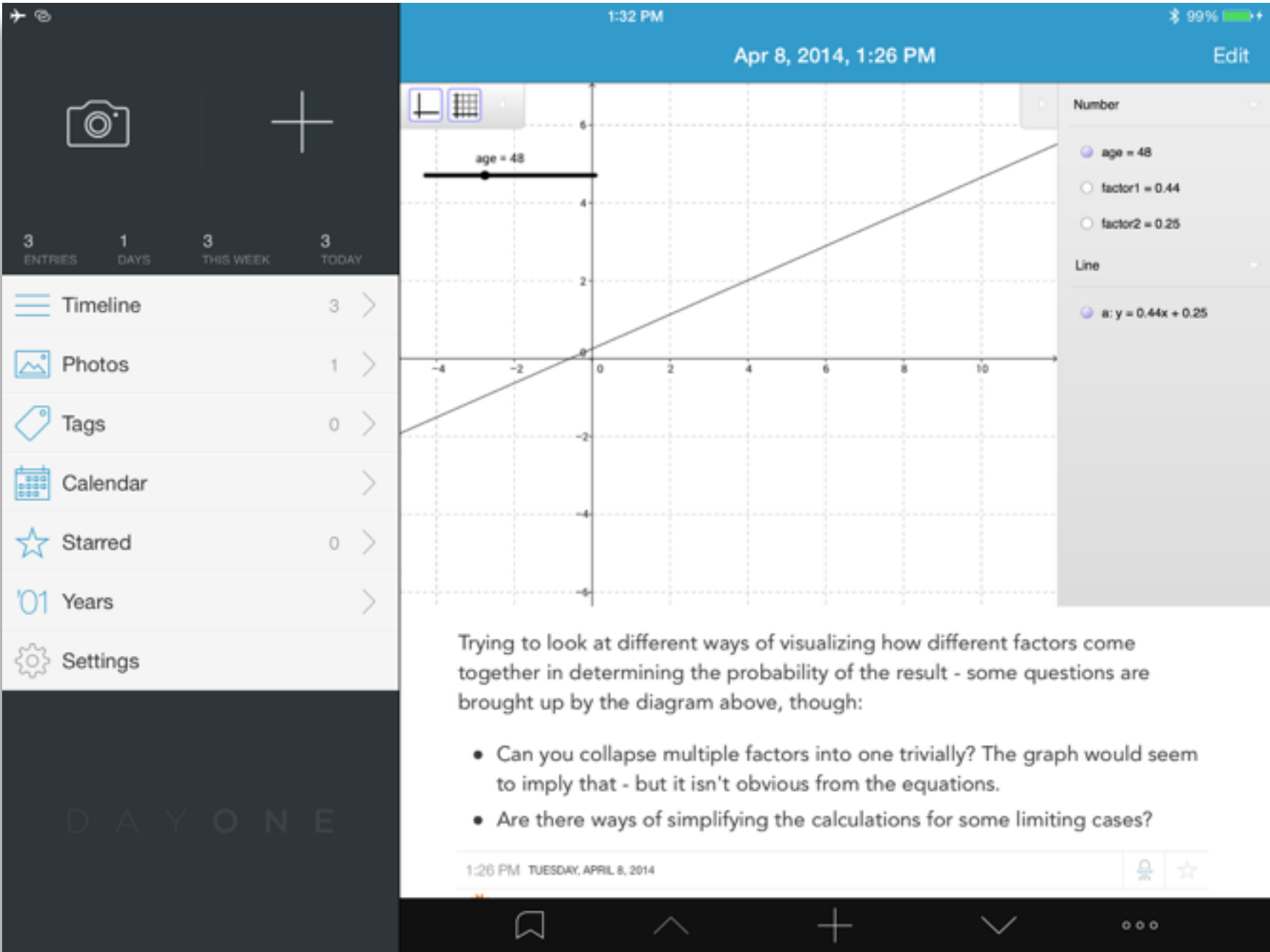
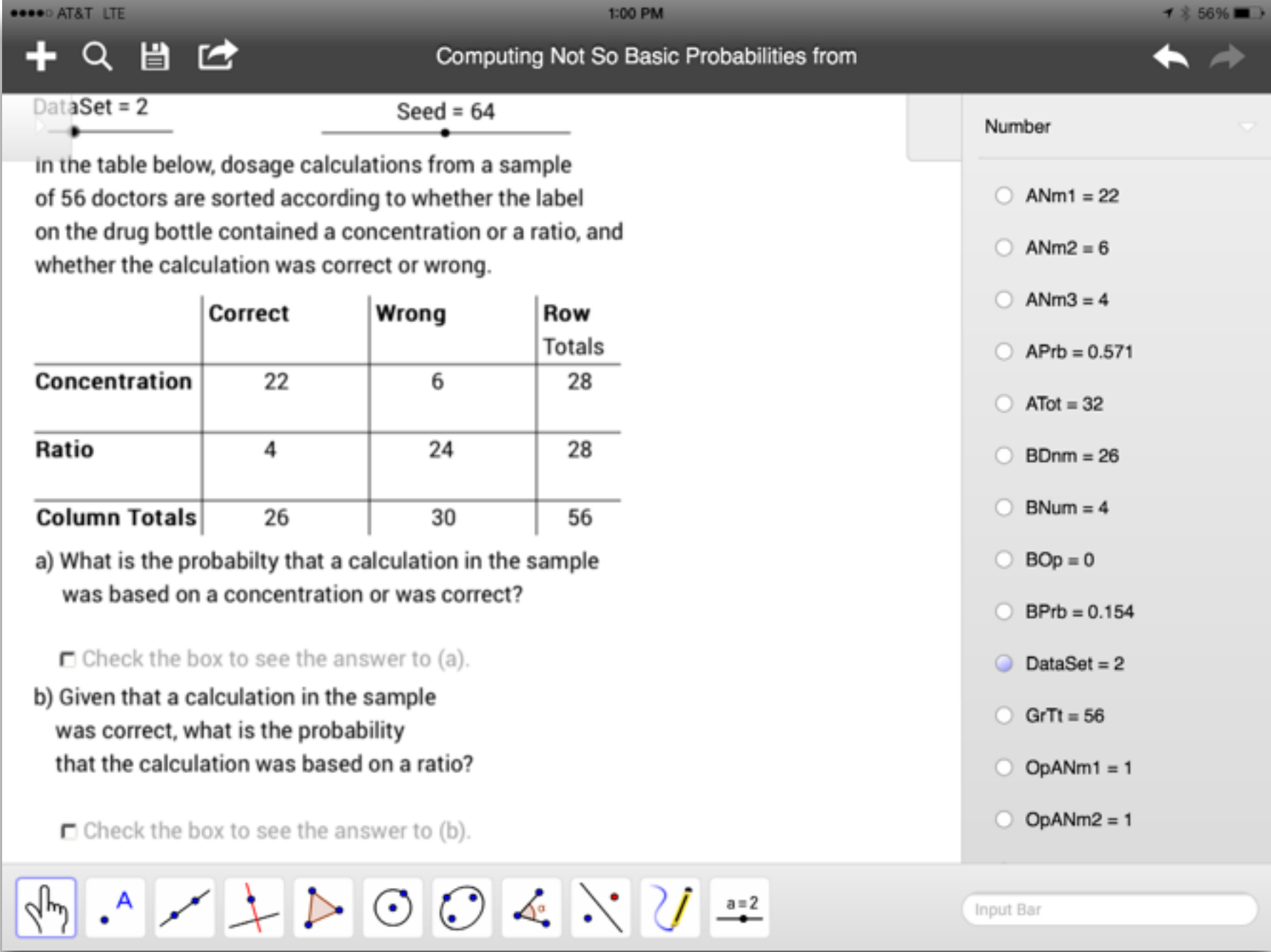
Tech allows for significant task redesign

Augmentation

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

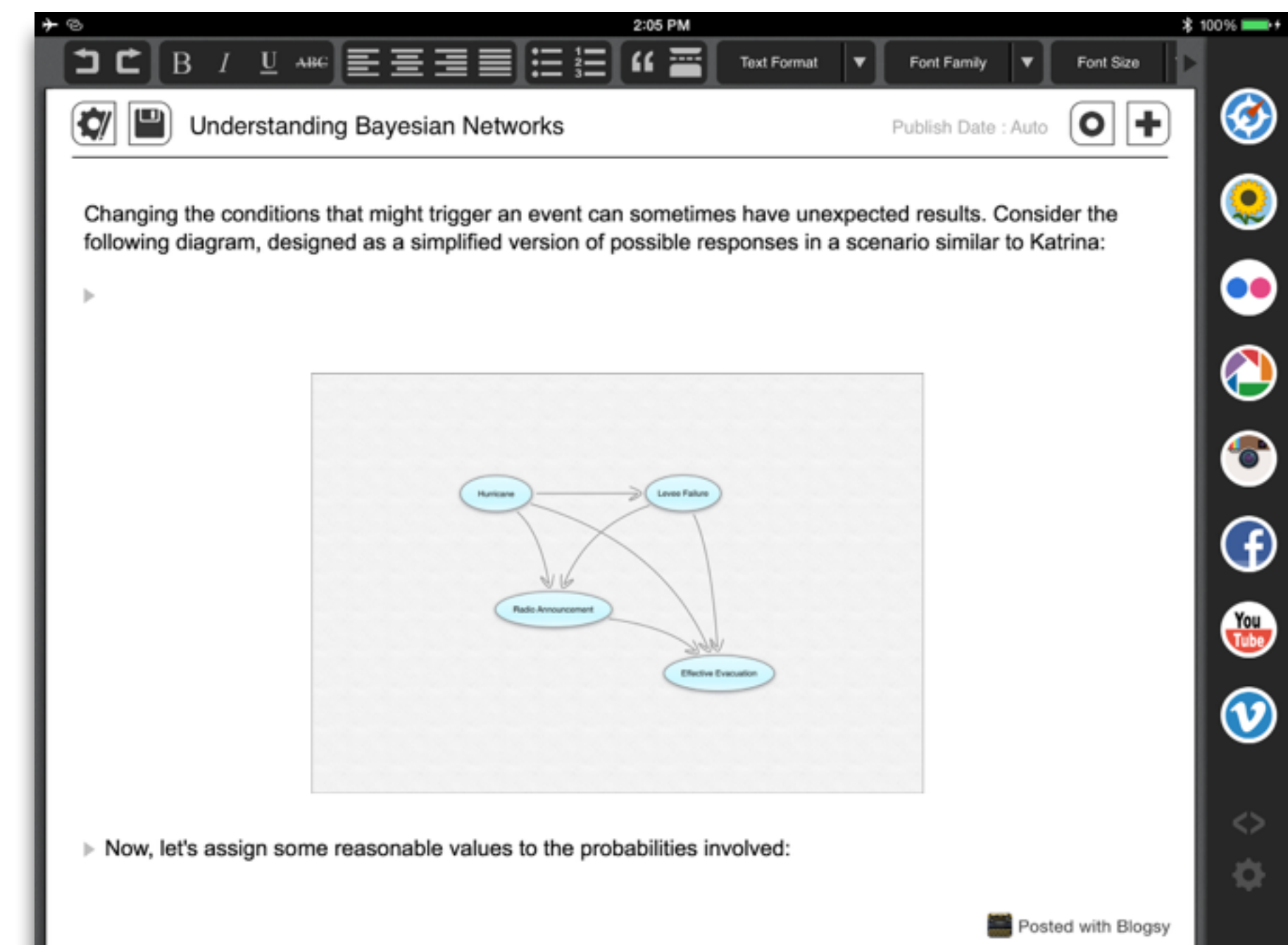
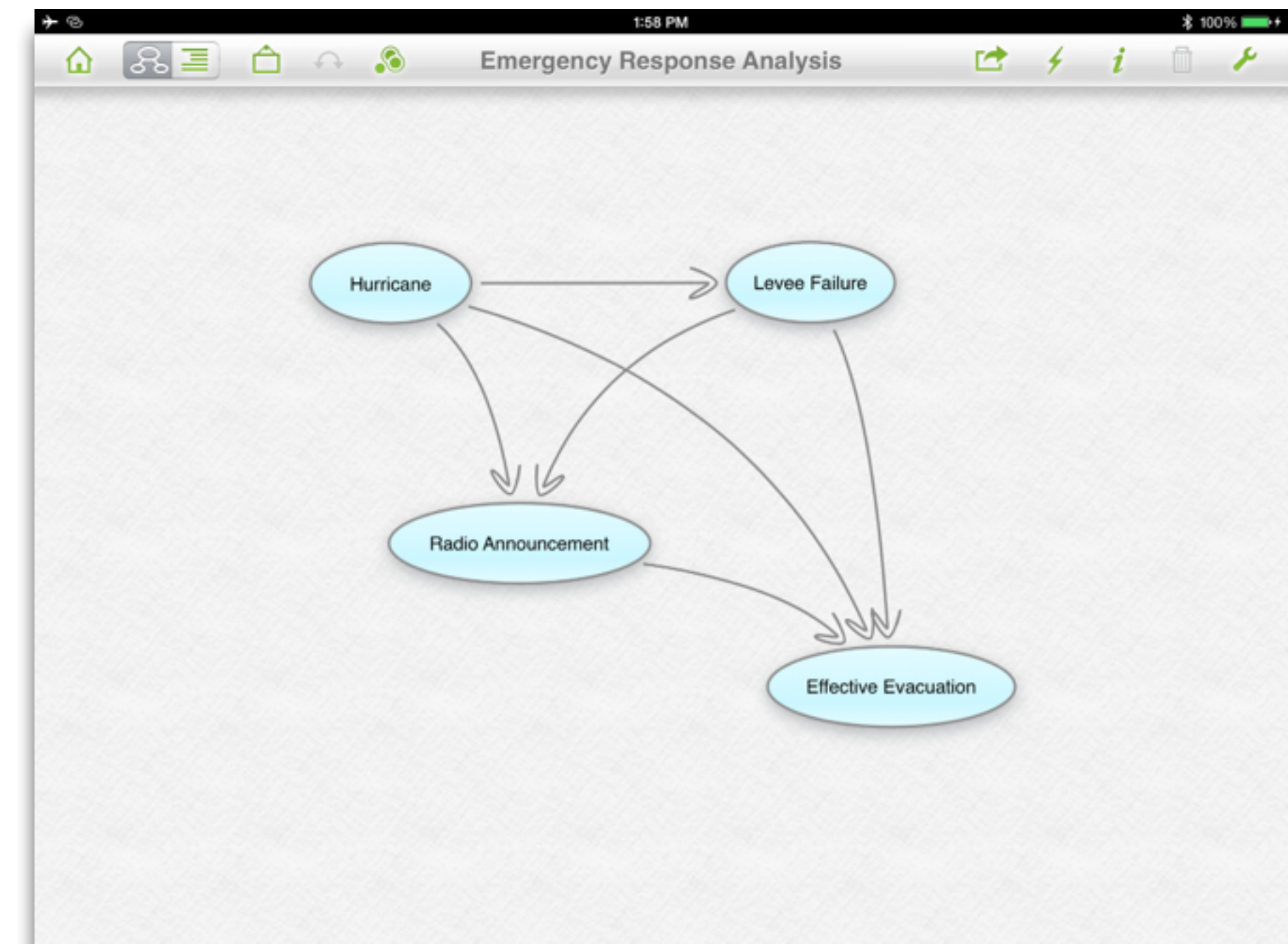
Tech allows for significant task redesign

Augmentation

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

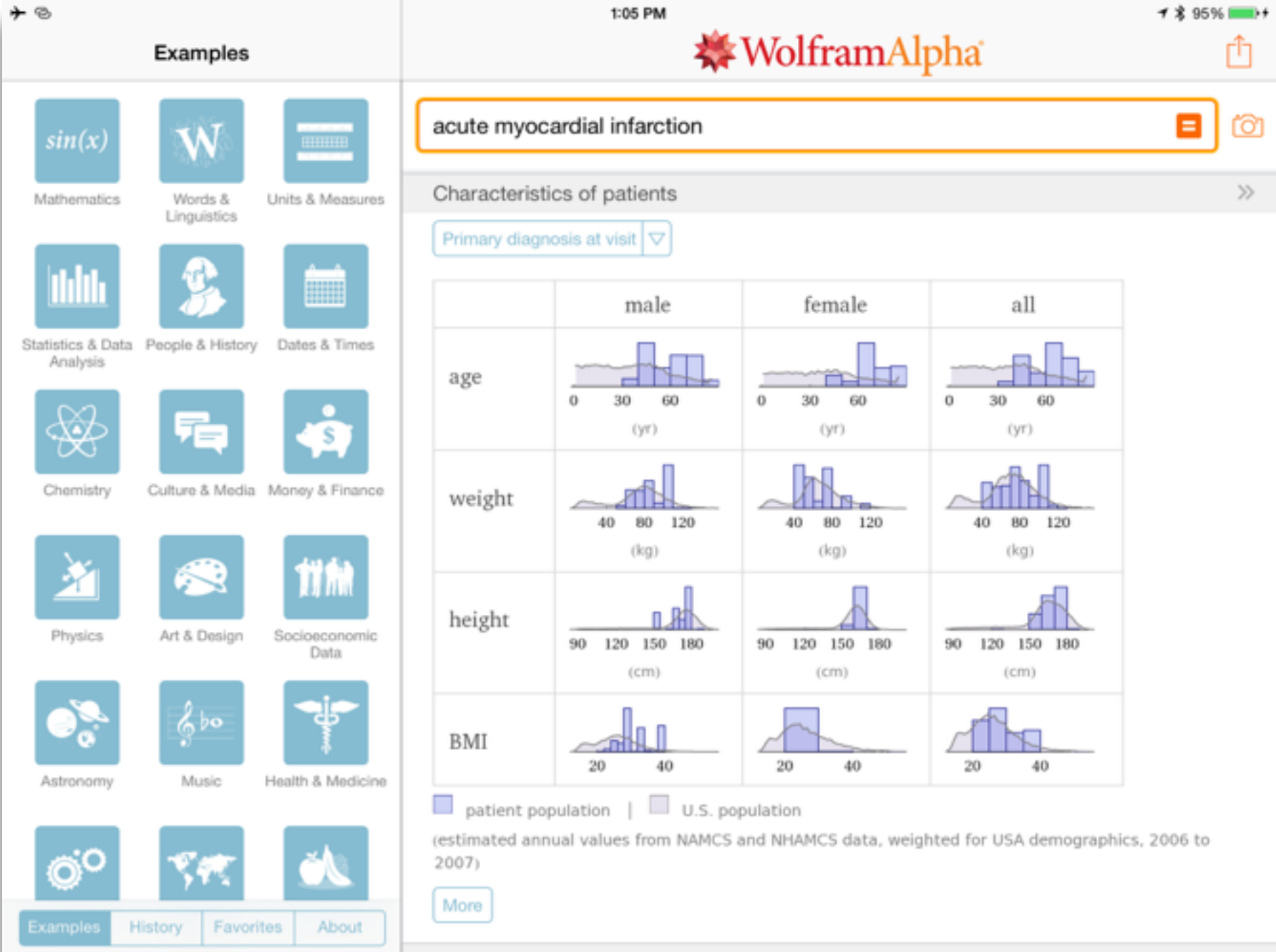
Tech allows for significant task redesign

Augmentation

Tech acts as a direct tool substitute, with functional improvement

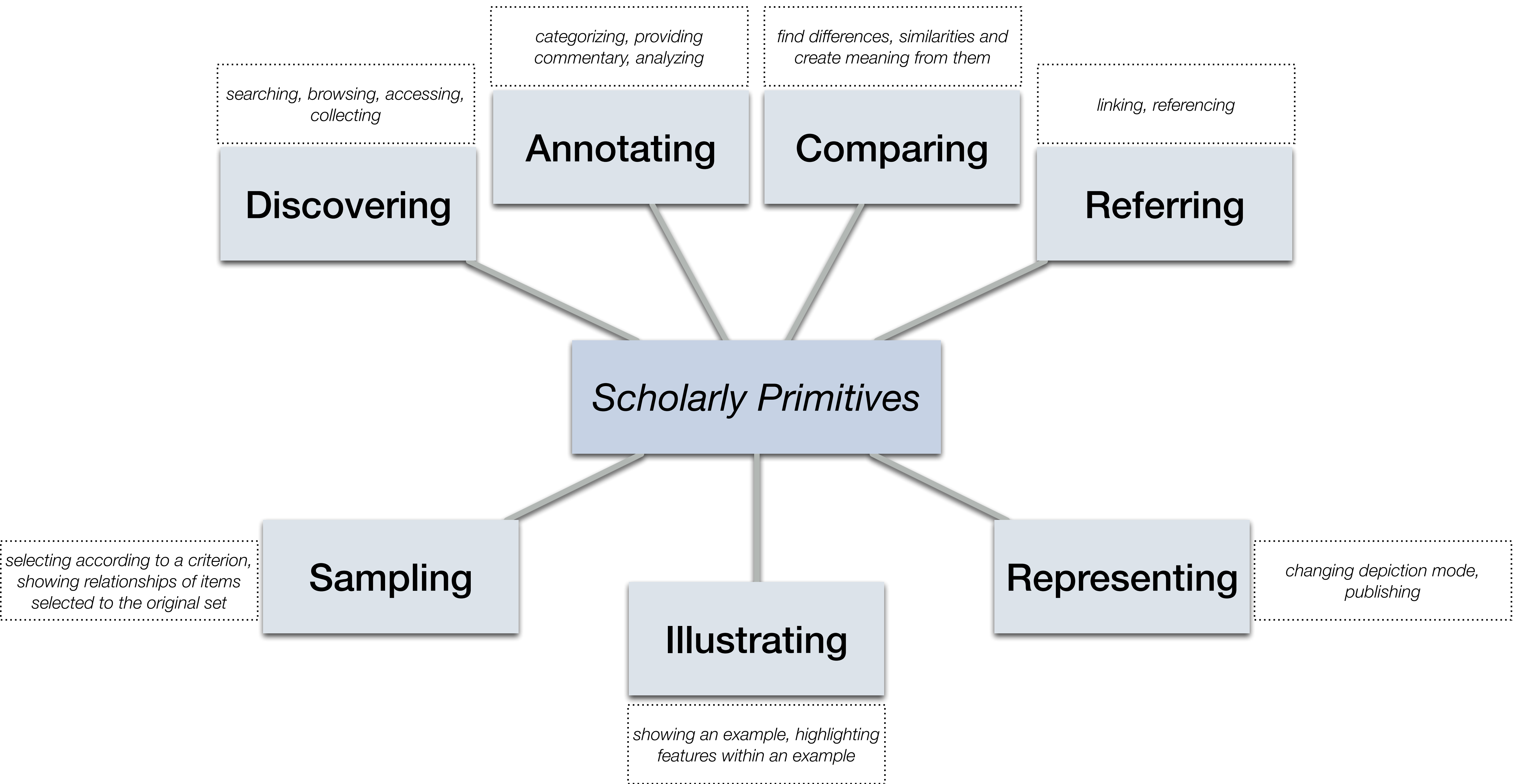
Substitution

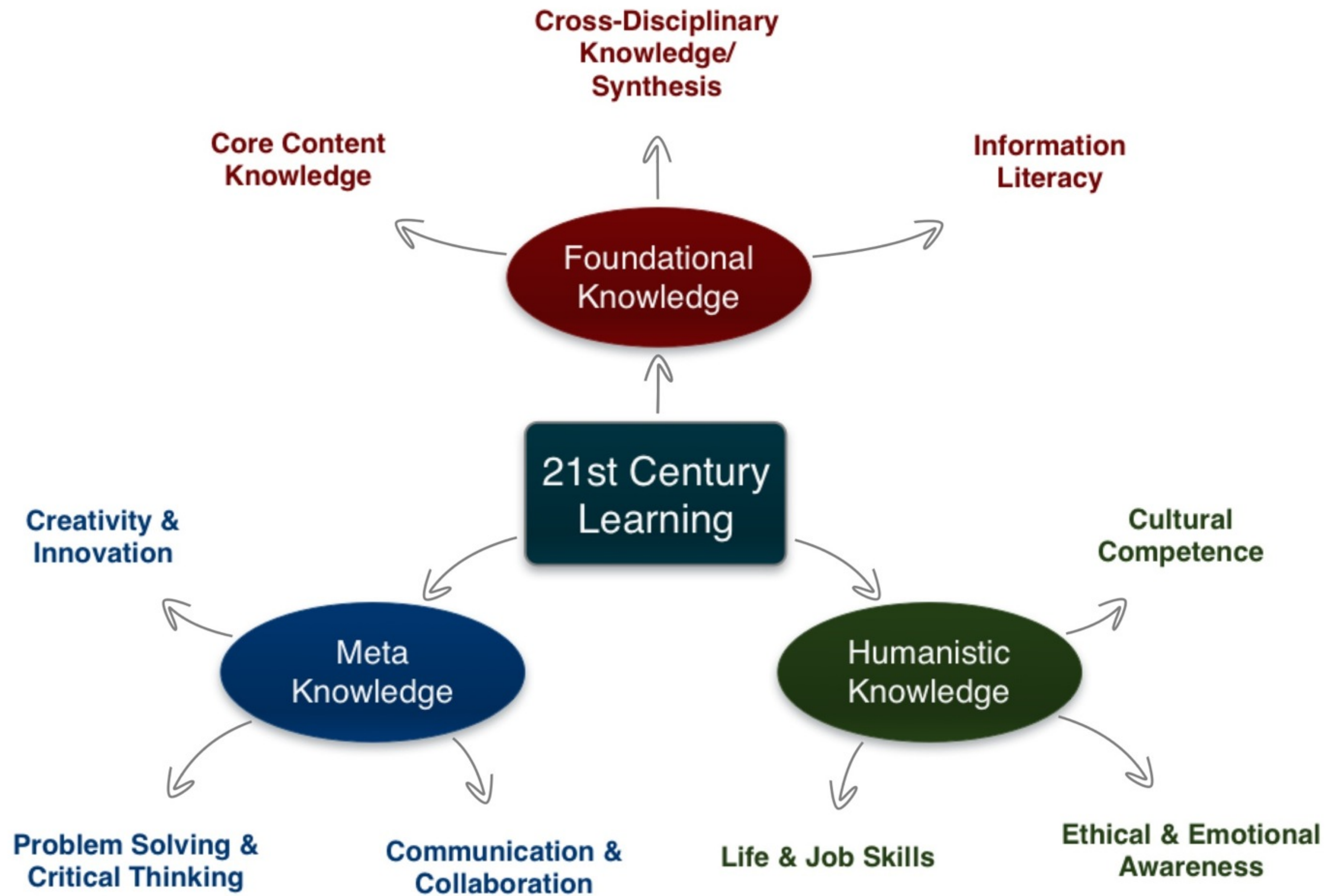
Tech acts as a direct tool substitute, with no functional change

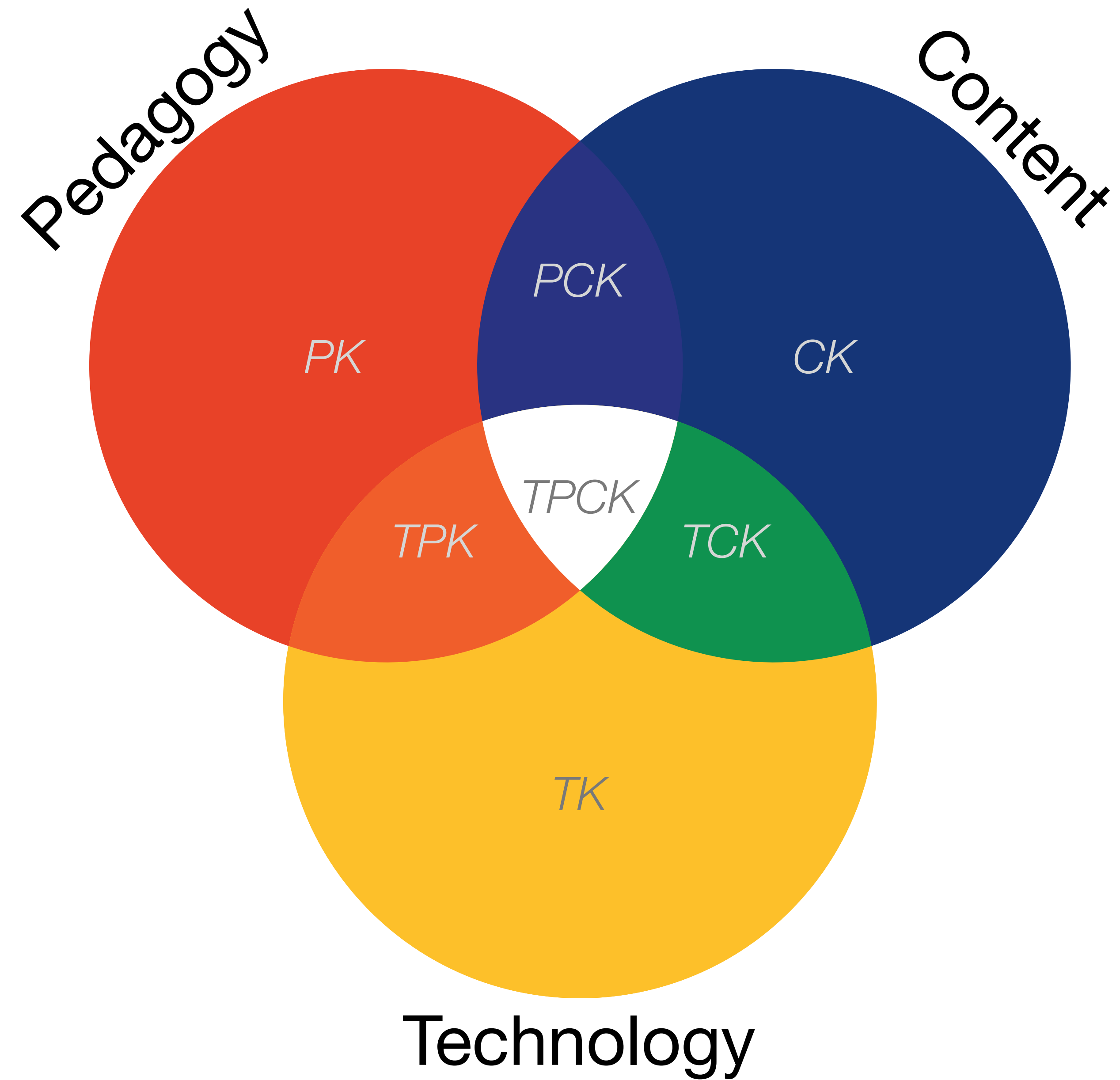


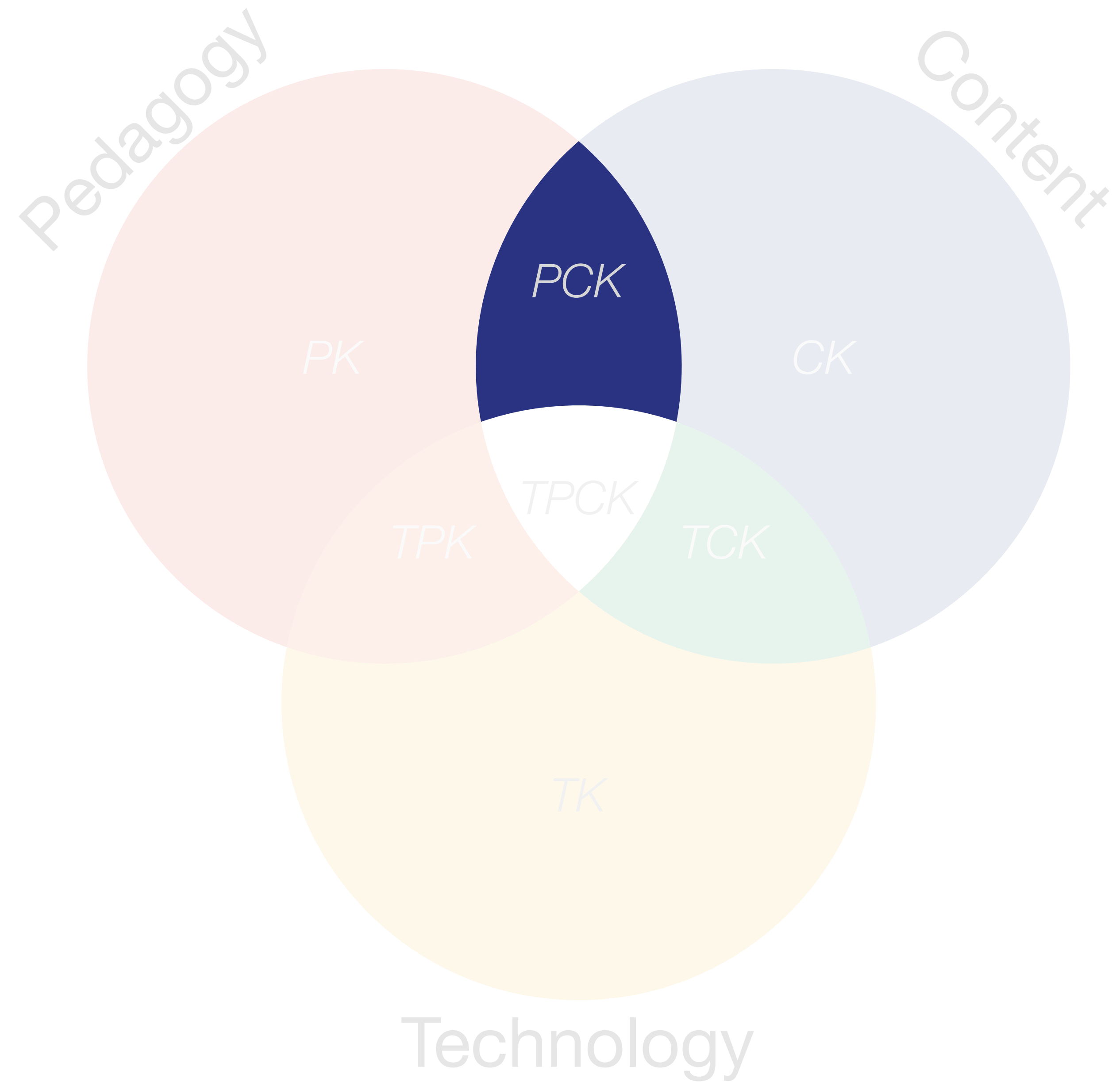
The screenshot shows a presentation slide titled "Stent Policy Analysis". On the left is a sidebar with three thumbnails. The main slide area contains a table of independent predictors for two outcomes: 30-Day Major Adverse Cardiac or Cerebrovascular Event and 3-Year Survival. Below the table is the title "Will Stent Revascularization Replace Coronary Artery Bypass Grafting?" and the name "James M. Wilson, MD".

Independent Predictor	Hazard Ratio	95% CI	P Value
30-Day Major Adverse Cardiac or Cerebrovascular Event			
>1 vessel treated	1.416	1.138-1.762	0.0018
Urgent procedure	3.27	2.5-5.54	<0.0001
Female sex	1.464	1.03-2.07	0.0321
Chronic obstructive pulmonary disease	1.541	1.04-2.276	0.03
Hypertension	1.622	1.037-2.535	0.0339
3-Year Survival			
>1 vessel treated	1.252	1.072-1.462	0.0045
NYHA functional class III or IV	1.35	1.015-1.796	0.0389
Prior myocardial infarction	1.411	1.077-1.848	0.0047
Age >65 yr	2.182	1.663-2.864	<0.0001
Chronic renal insufficiency	1.963	1.481-2.602	<0.0001
Valvulopathy	1.641	1.183-2.277	0.0031
Family history of coronary artery disease	0.615	0.437-0.865	0.0039
Hyperlipidemia	0.66	0.518-0.841	0.0002
Congenital heart disease	2.312	1.692-3.16	<0.0001
Peripheral vascular disease	1.921	1.452-2.541	<0.0001









Location

Position in space

Condition

*Mix of natural & artificial
features that give
meaning to a location*

Links

*Connections between
places*

Formal Region

*Group of places with
similar conditions*

Functional Region

*Group of places linked
together by a flow*

Spatial Thinking Skills

Comparison

How are places similar or different?

Aura

What is this place's influence on nearby places?

Region

What nearby places are similar to this one?

Transition

How do things change between two places?

Hierarchy

What larger area is this area inside? What smaller areas are inside it?

Analogy

What places have similar conditions?

Pattern

What distinctive arrangements can you see on a map?

Association

Are these patterns similar?

Redefinition

Tech allows for the creation of new tasks, previously inconceivable

Modification

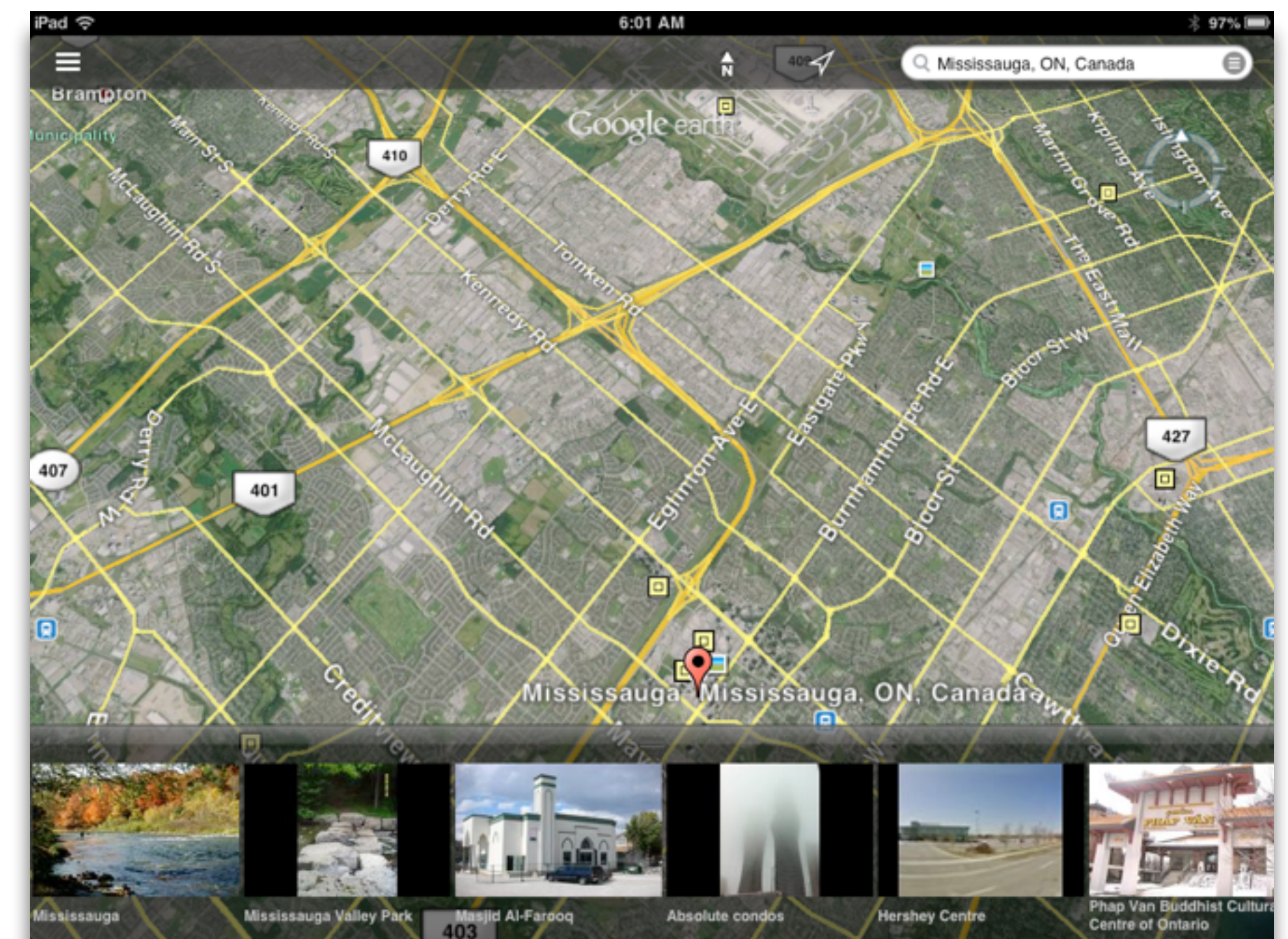
Tech allows for significant task redesign

Augmentation

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

Augmentation

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

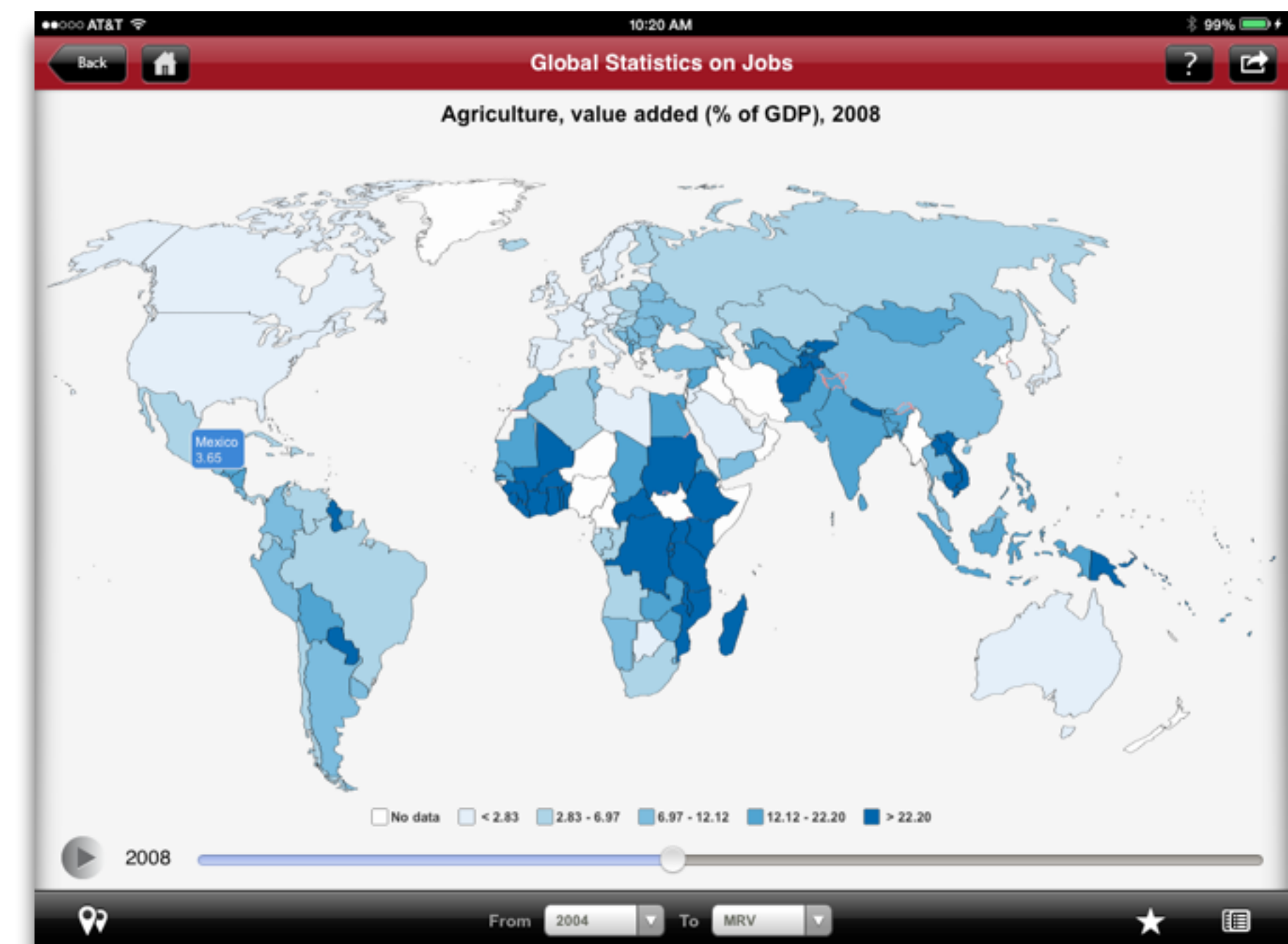
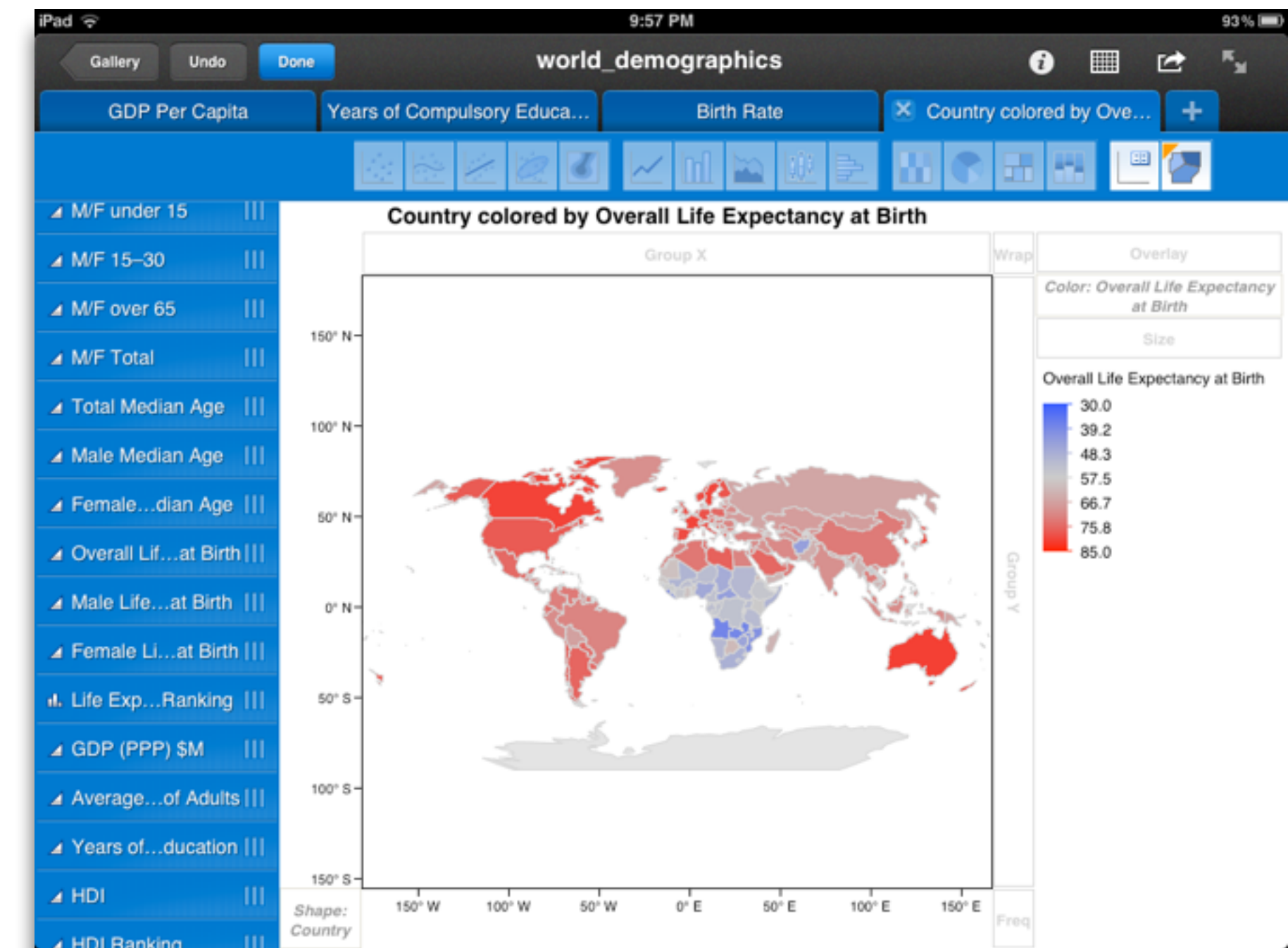
Tech allows for significant task redesign

Augmentation

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

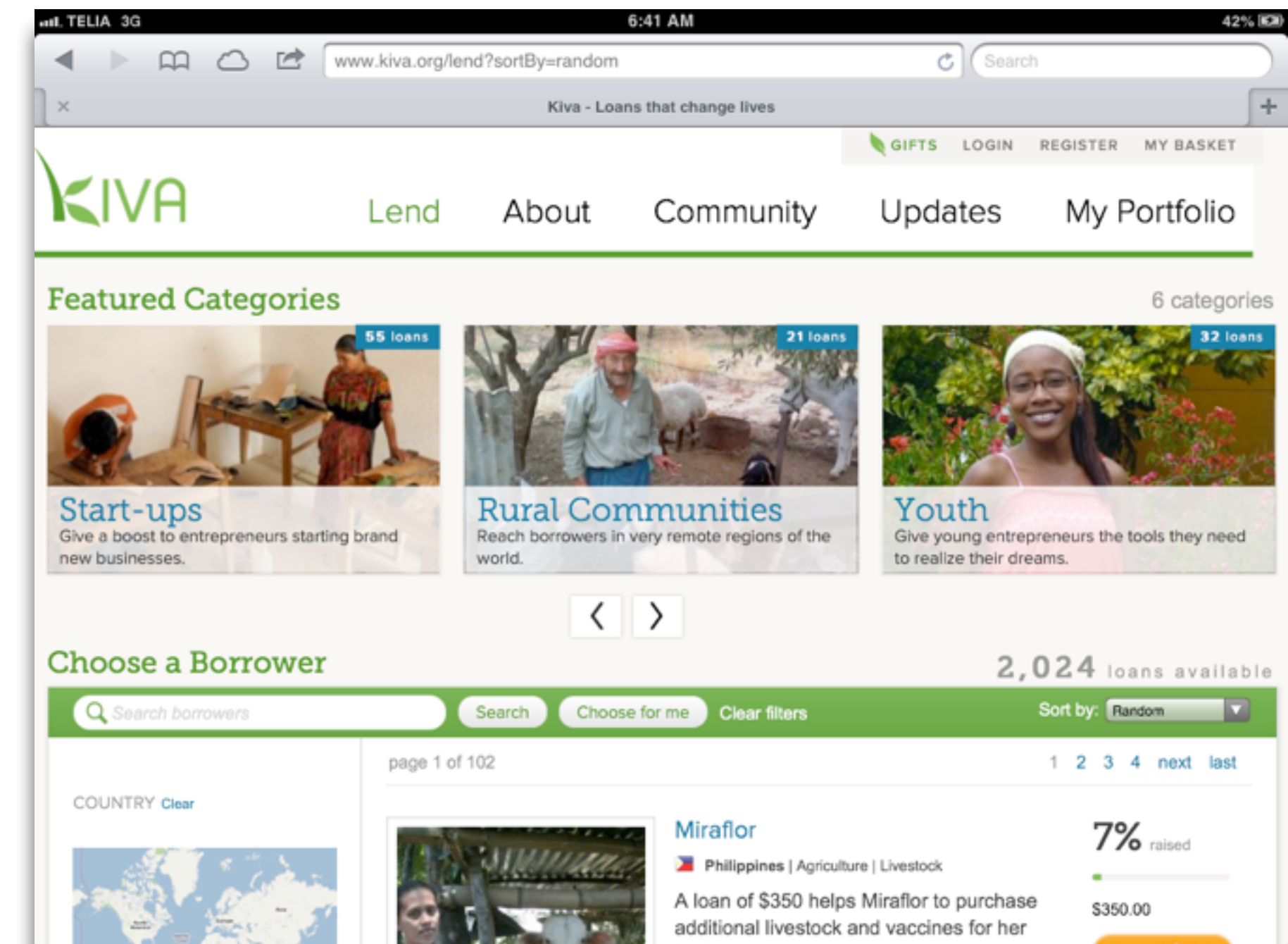
Tech allows for significant task redesign

Augmentation

Tech acts as a direct tool substitute, with functional improvement

Substitution

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



Hippasus



Blog: <http://hippasus.com/rrpweblog/>

Email: rubenrp@hippasus.com

Twitter: @rubenrp

This work is licensed under a Creative Commons Attribution-Noncommercial-Share Alike 3.0 License.

