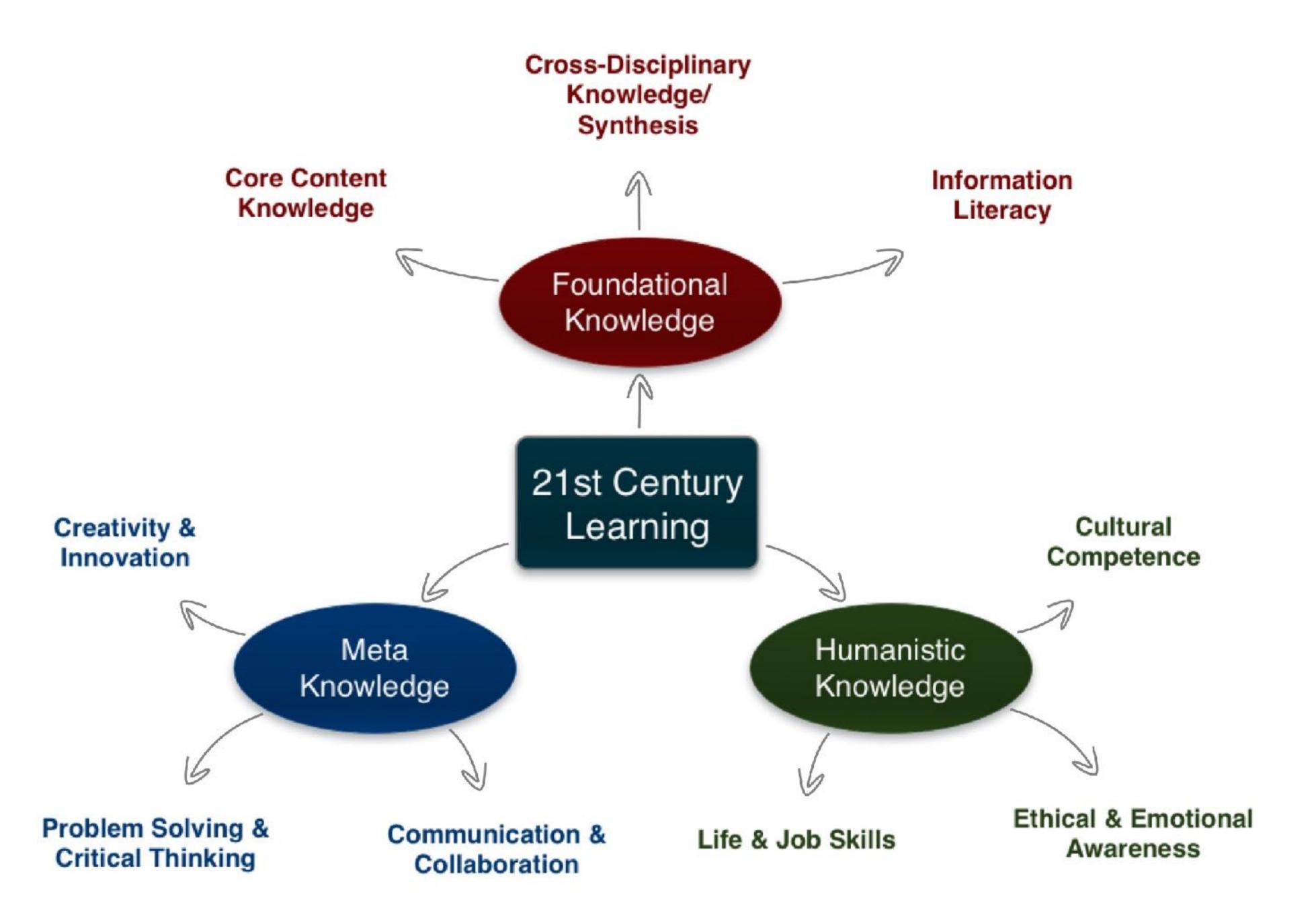
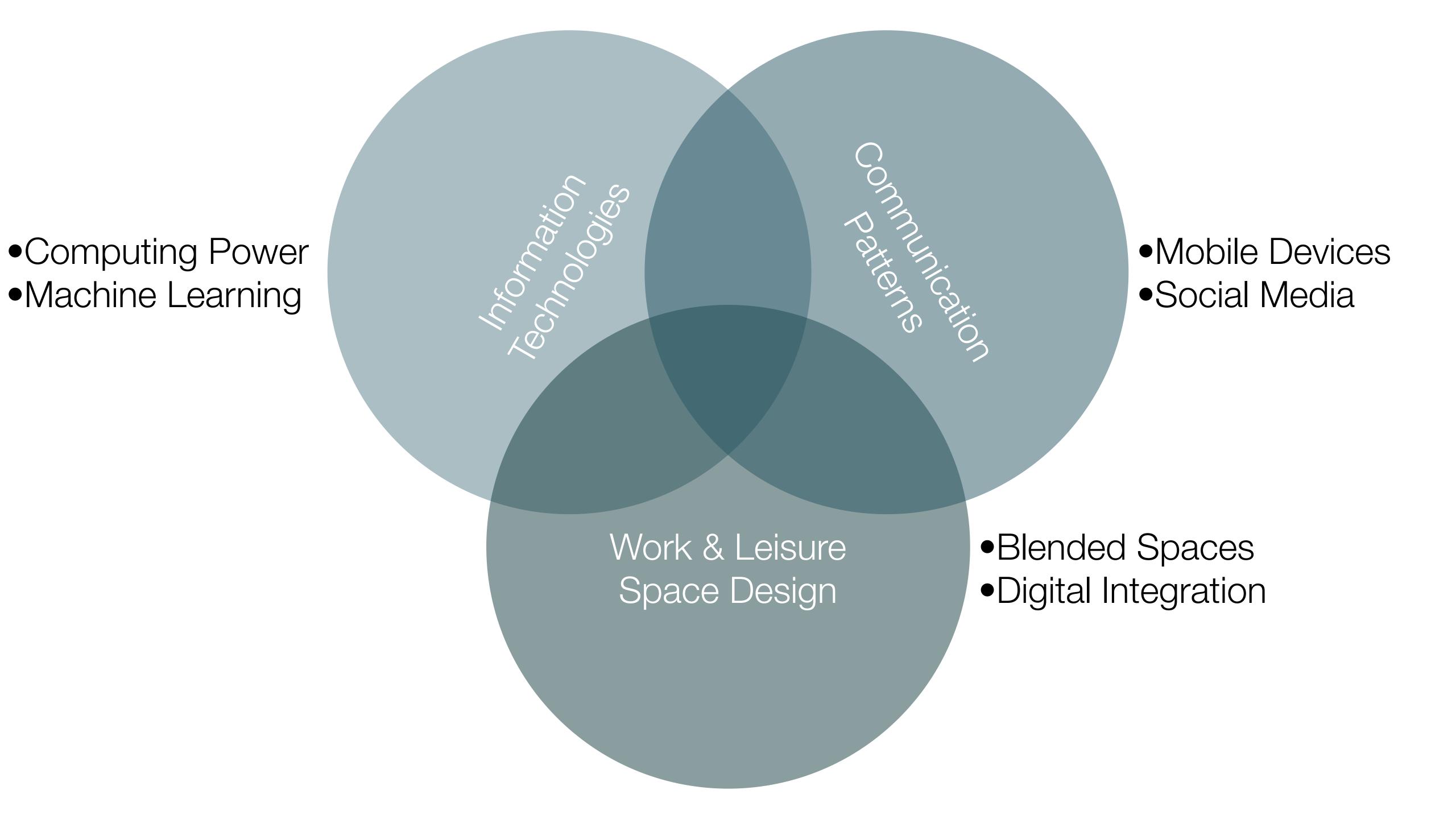
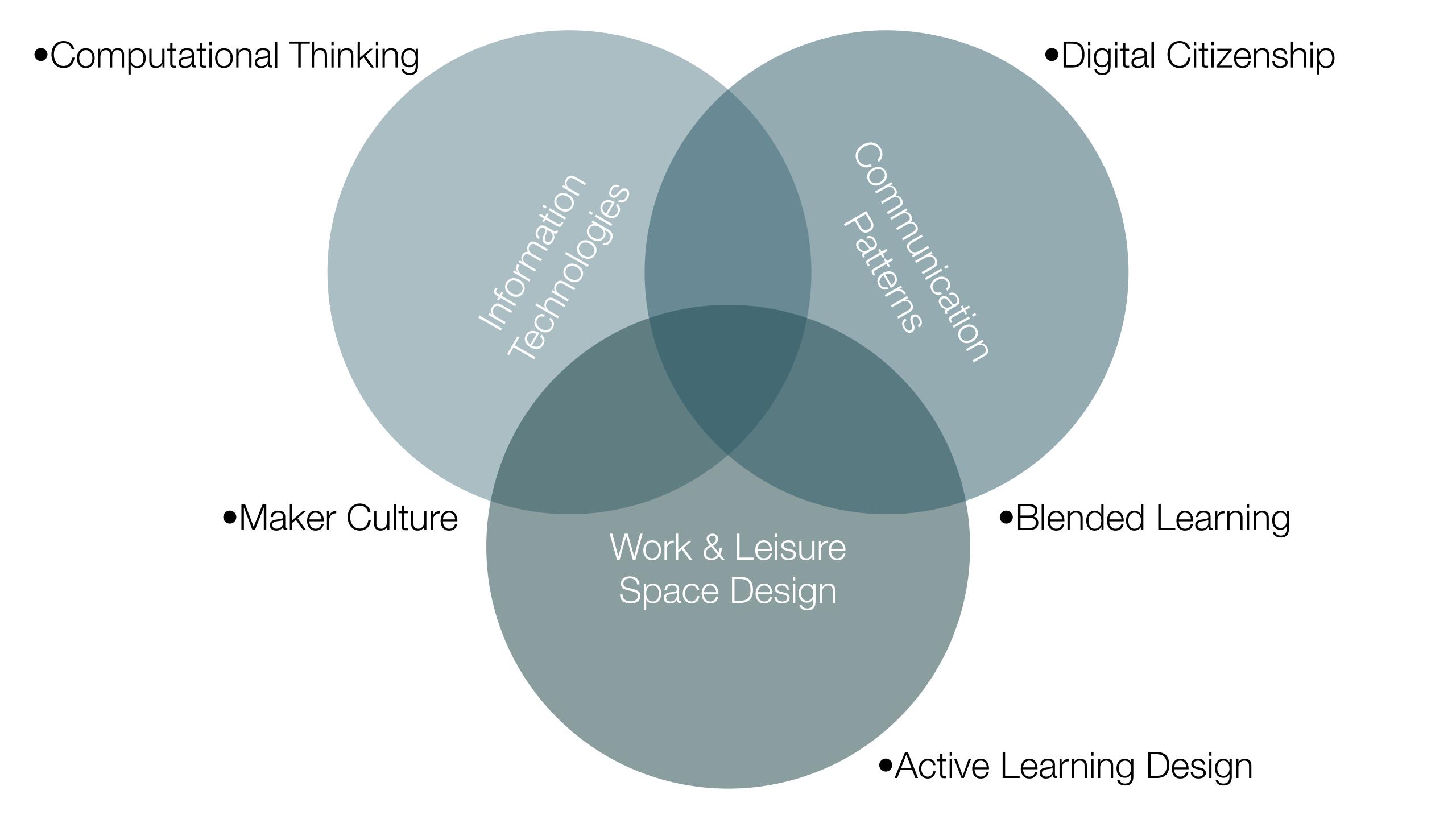


Ruben R. Puentedura, Ph.D.

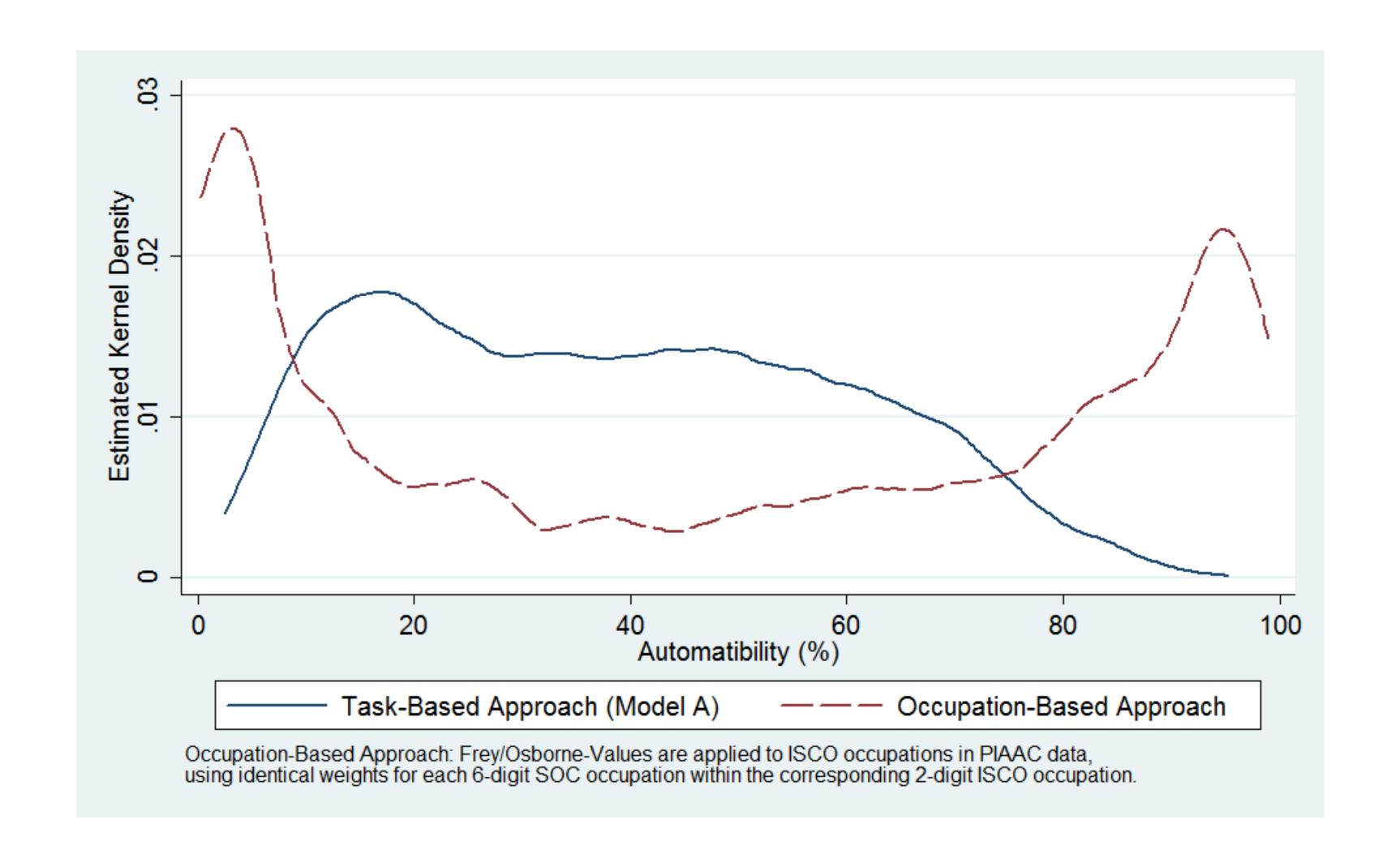




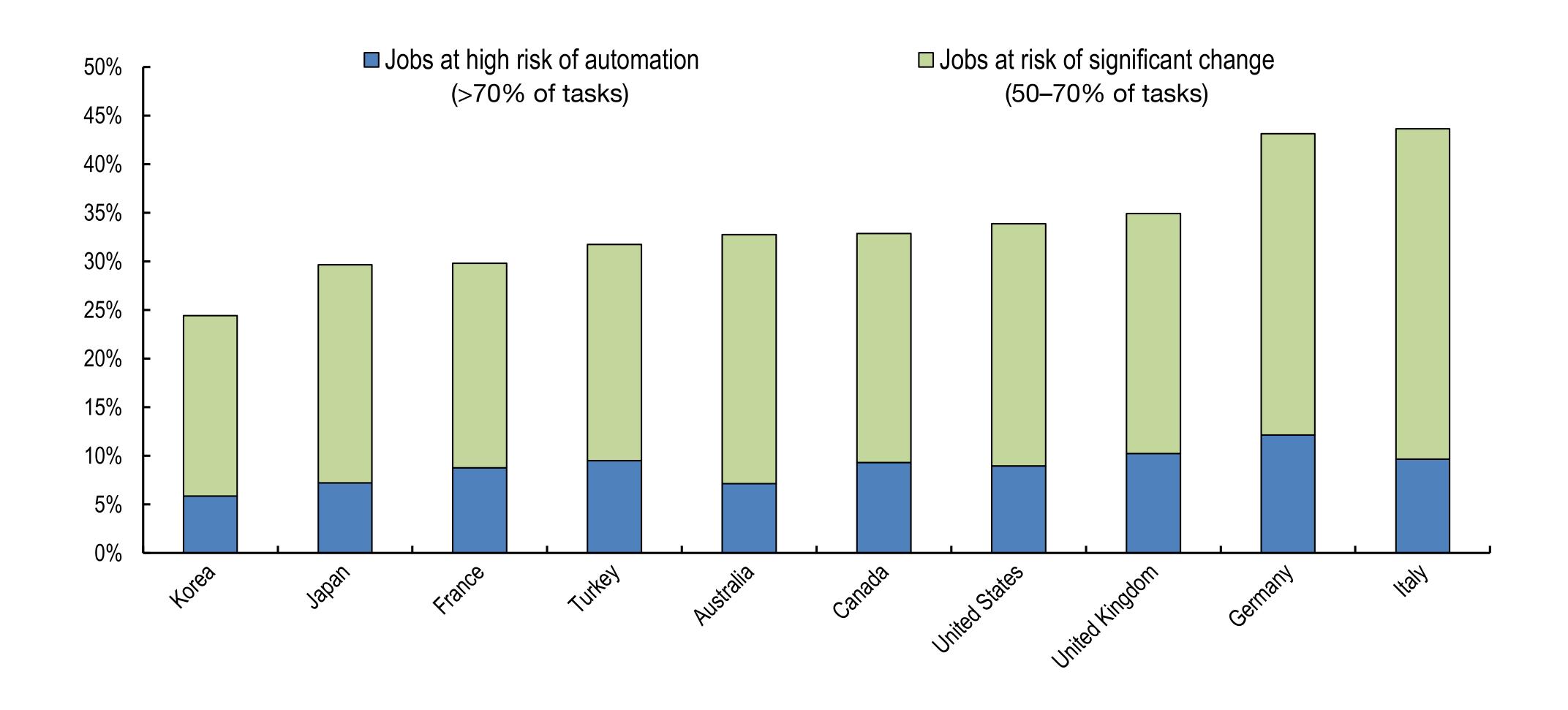




Distribution of Automatibility in the US (Task-Based vs. Occupation-Based Approach)



Advanced G20 Countries: Jobs at High Risk of Automation





Insight Report

Towards a Reskilling Revolution

A Future of Jobs for All

In collaboration with The Boston Consulting Group



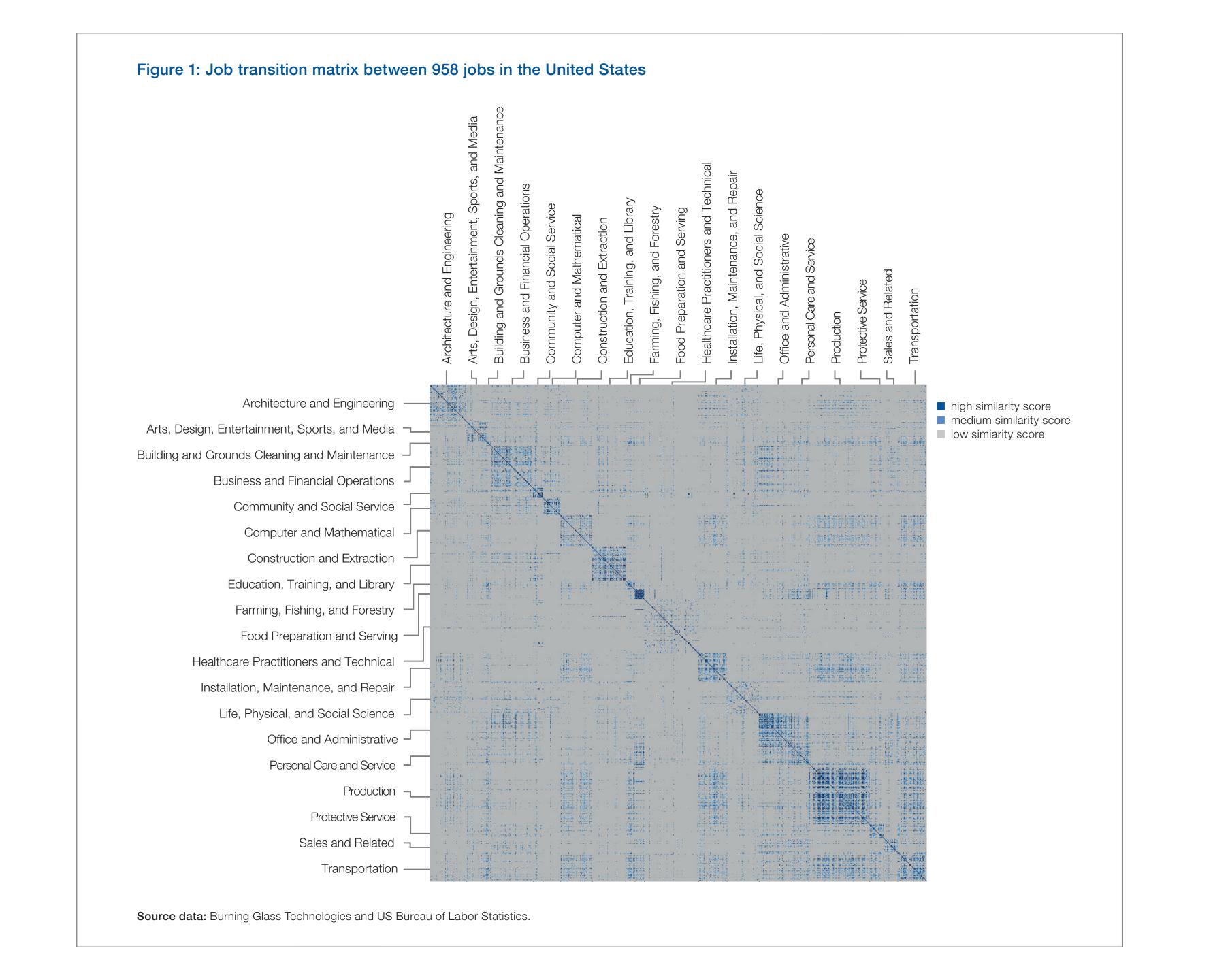


Figure B15: Examples of Pathways for Mine Cutting and Channeling Machine Operators

18
opportunities
with pay rise

opportunities

with pay cut

Structural Iron and Steel Workers

Construction and Extraction Occupations wage: \$56,000 similarity score: 0.86

Mine Cutting and Channeling Machine Operators

Construction and Extraction Occupations

wage: \$51,000

Tile and Marble Setters

Construction and Extraction Occupations
wage: \$45,000similarity score: 0.86

Rail-Track Laying and Maintenance Equipment Operators

Construction and Extraction Occupations wage: \$53,000 similarity score: 0.86

Excavating and Loading Machine and Dragline Operators

Transportation Occupations wage: \$45,000 similarity score: 0.91

Subway and Streetcar Operators

Transportation Occupations wage: \$62,000 similarity score: 0.86

Nuclear Equipment Operation Technicians

Life, Physical and Social Science Occupations wage: \$78,000 similarity score: 0.85

Key

Job

Job family
Remuneration
Similarity score with previous job

Source data: Burning Glass Technologies and US Bureau of Labor Statistics.

"Gakushiryoku - ability required for university graduates for an unpredictable era including the education, knowledge and experience to make correct decisions in the face of unexpected difficulties."

MEXT - Summary of Report: Towards a Qualitative Transformation of University Education for Building a New Future - Universities Fostering Lifelong Learning and the Ability to Think Independently (2012)

Substitution

Augmentation

Modification

Redefinition

Ed Tech Quintet

Shared Practices



TPCK



21C Learning Framework

Refraction

Conversational Framework

Communities of Practice

Personal Learning Networks

Dynamic Learning Structures

Tech allows for the creation of new tasks, previously inconceivable

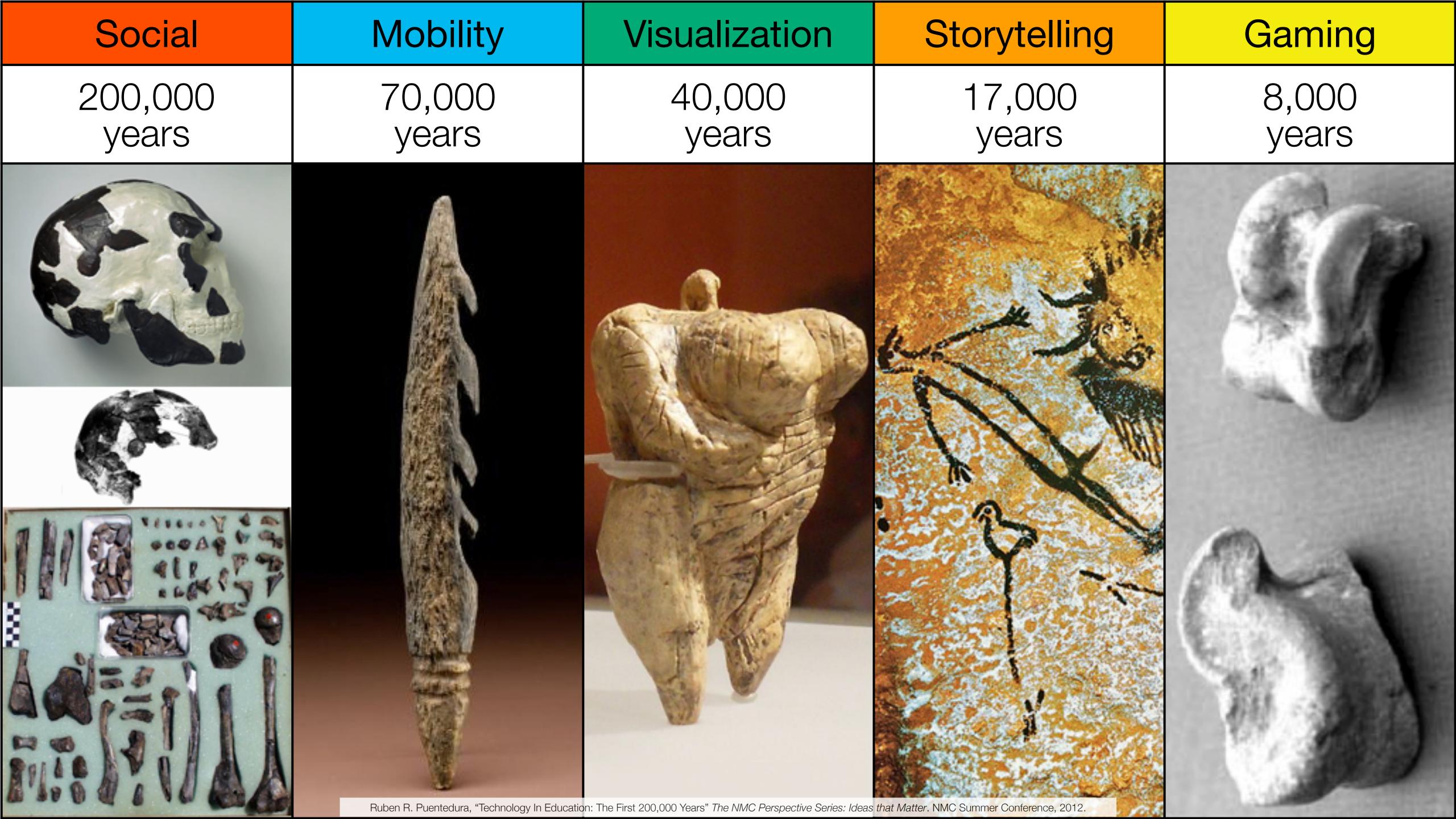
Modification

Tech allows for significant task redesign

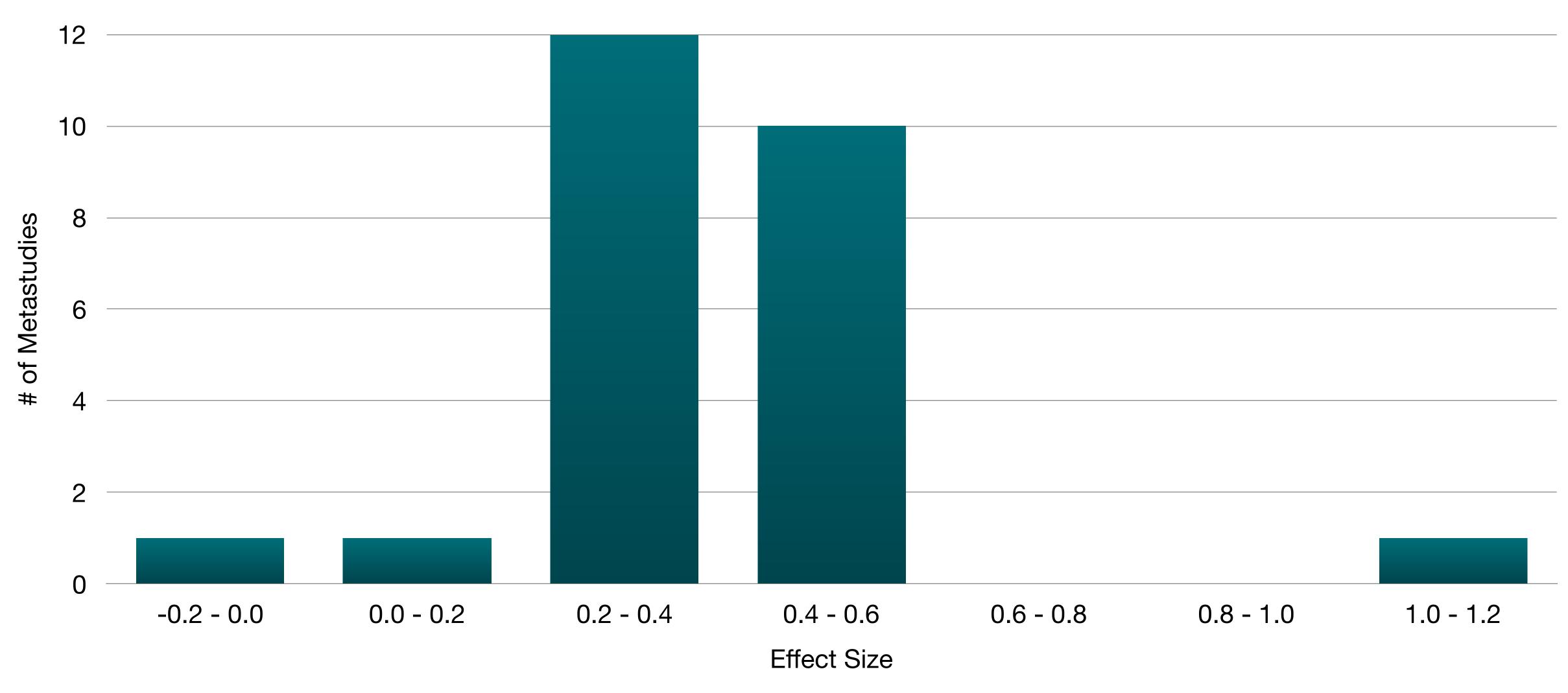
Augmentation

Tech acts as a direct tool substitute, with functional improvement

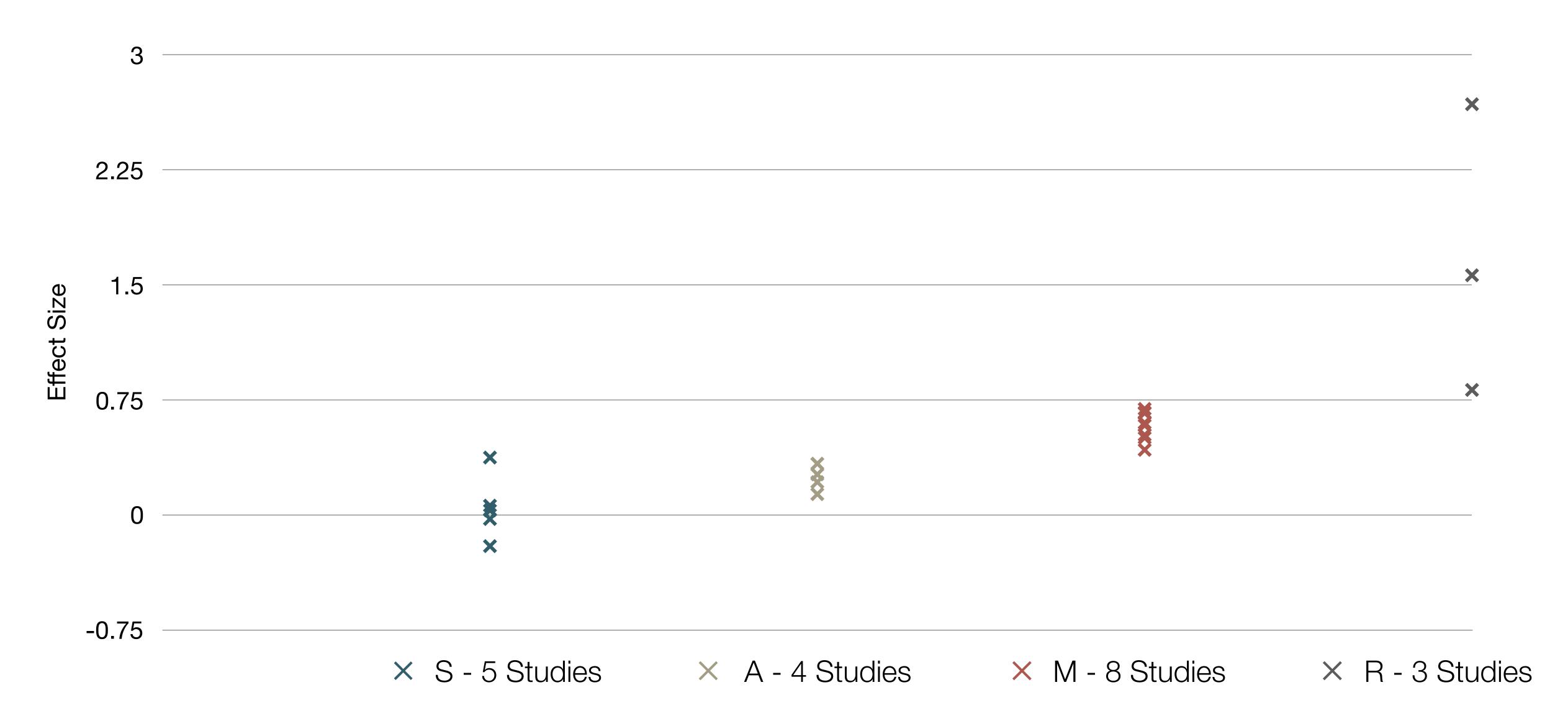
Substitution



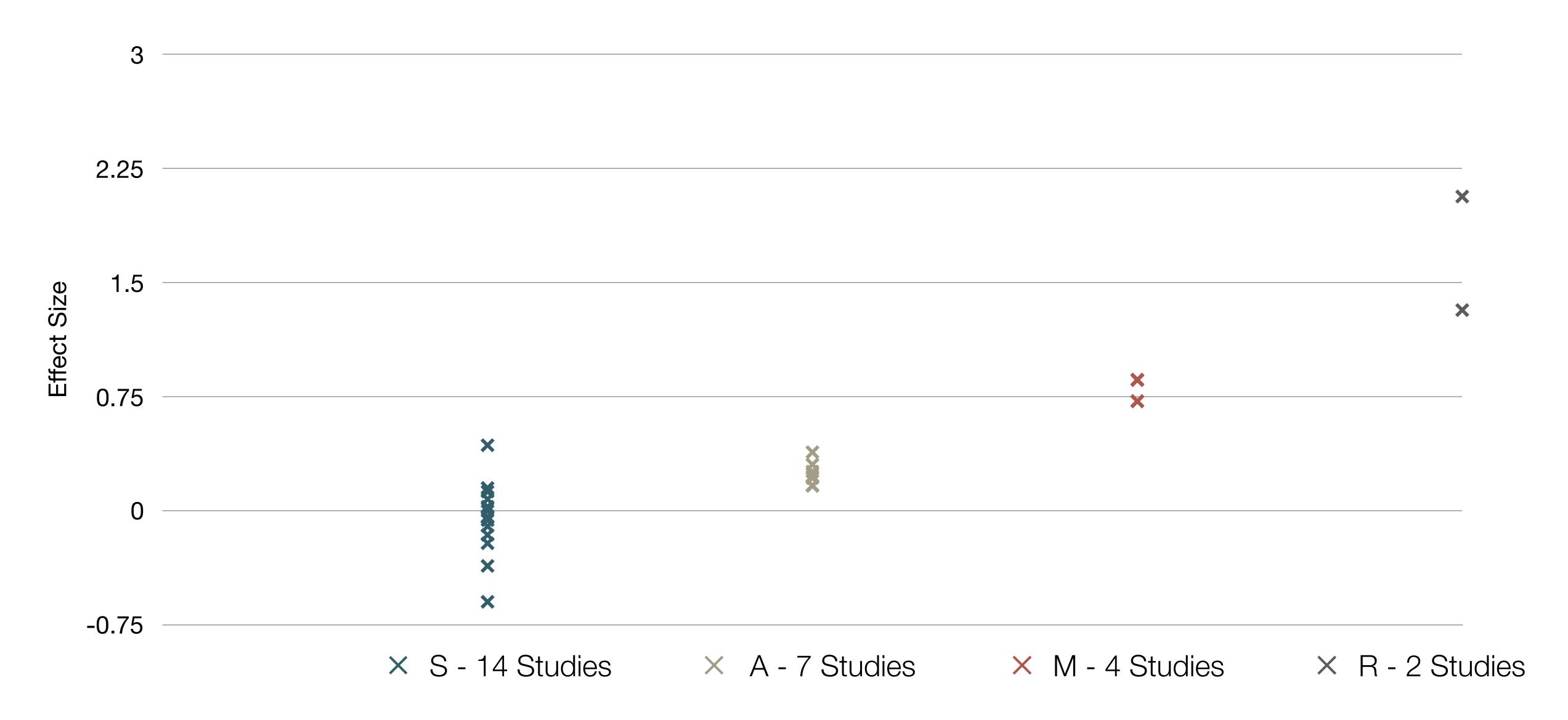
The Research: 1,097 Studies, 25 Metastudies, 19 Years



SAMR and the Use of Technology to Enhance Reading Performance in Middle School



SAMR and the Use of Tablets in Education



Competency	Evaluate Historical Accounts	Interpret Primary Sources	Apply Chronological Reasoning	Contextualize	Construct Acceptable Historical Accounts
History as an Interpretive Account					
The Relationship of Past and Present					
Historical Evidence					
Complex Causality					
Significance					

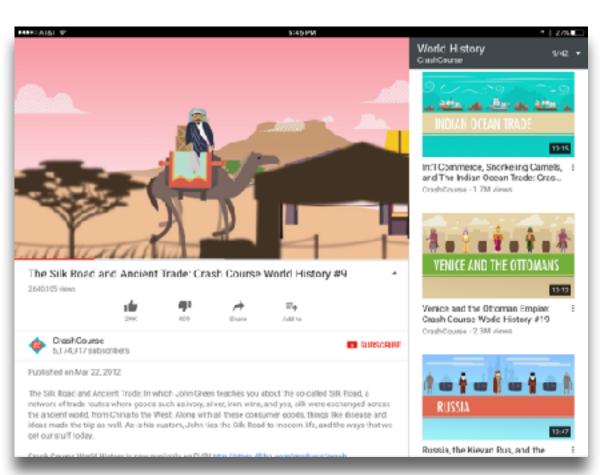
Redefinition
Tech allows for the creation of new tasks,
previously inconceivable

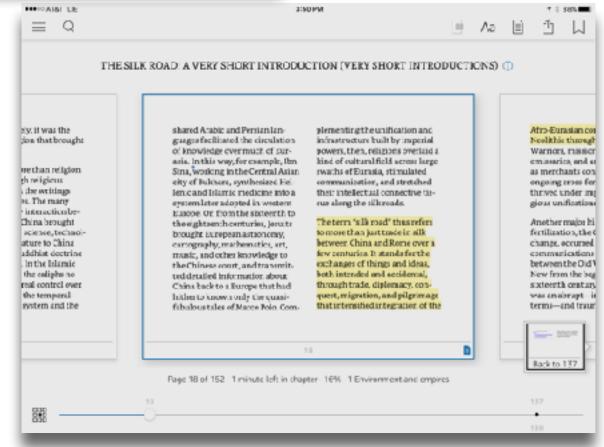
Modification
Tech allows for significant task redesign

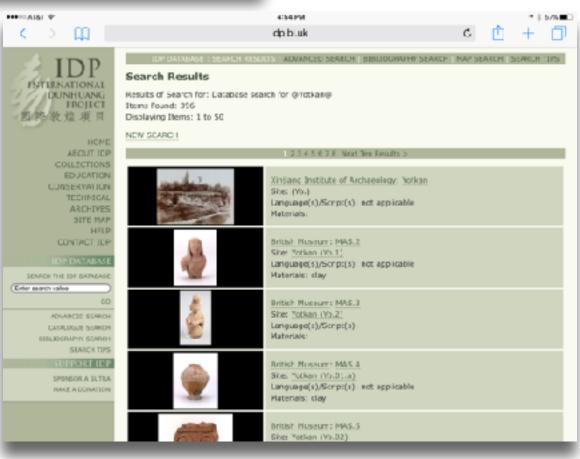
Augmentation

Tech acts as a direct tool substitute, with functional improvement

Substitution







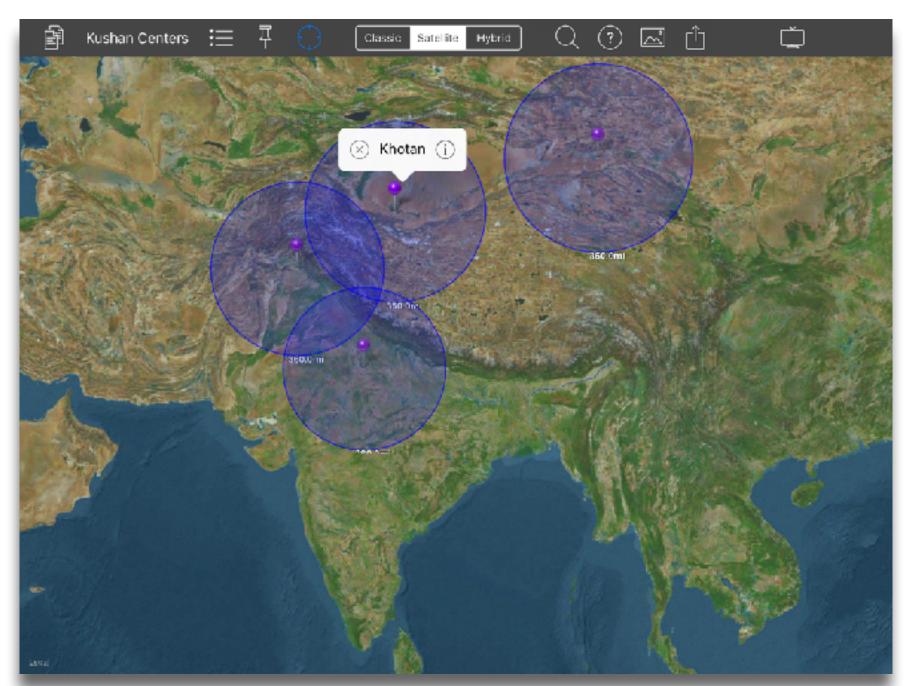
Tech allows for the creation of new tasks previously inconceivable

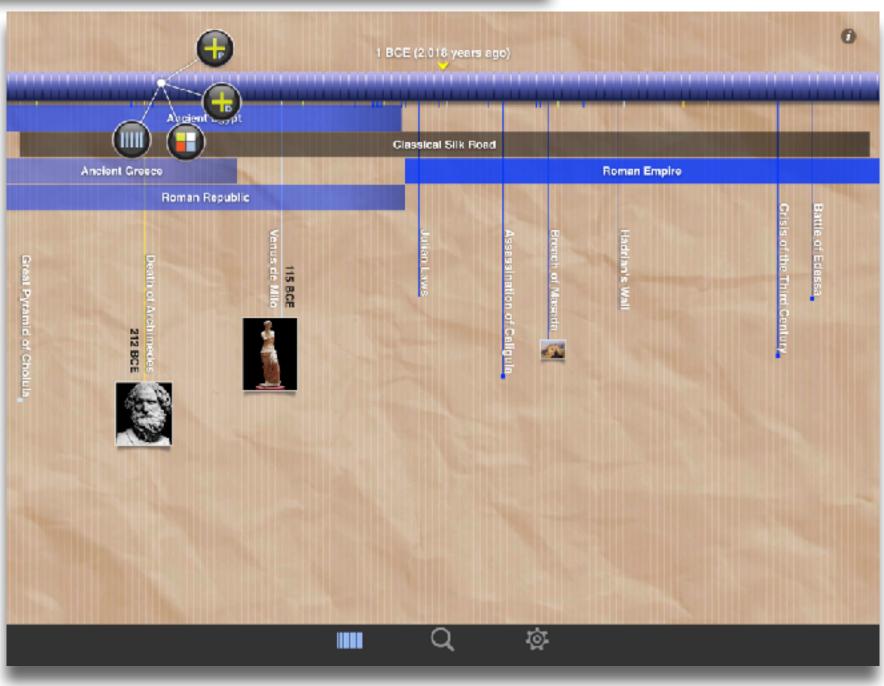
Modification Tech allows for significant task redesign

Augmentation

Tech acts as a direct tool substitute, with functional improvement

Substitution





Tech allows for the creation of new tasks previously inconceivable

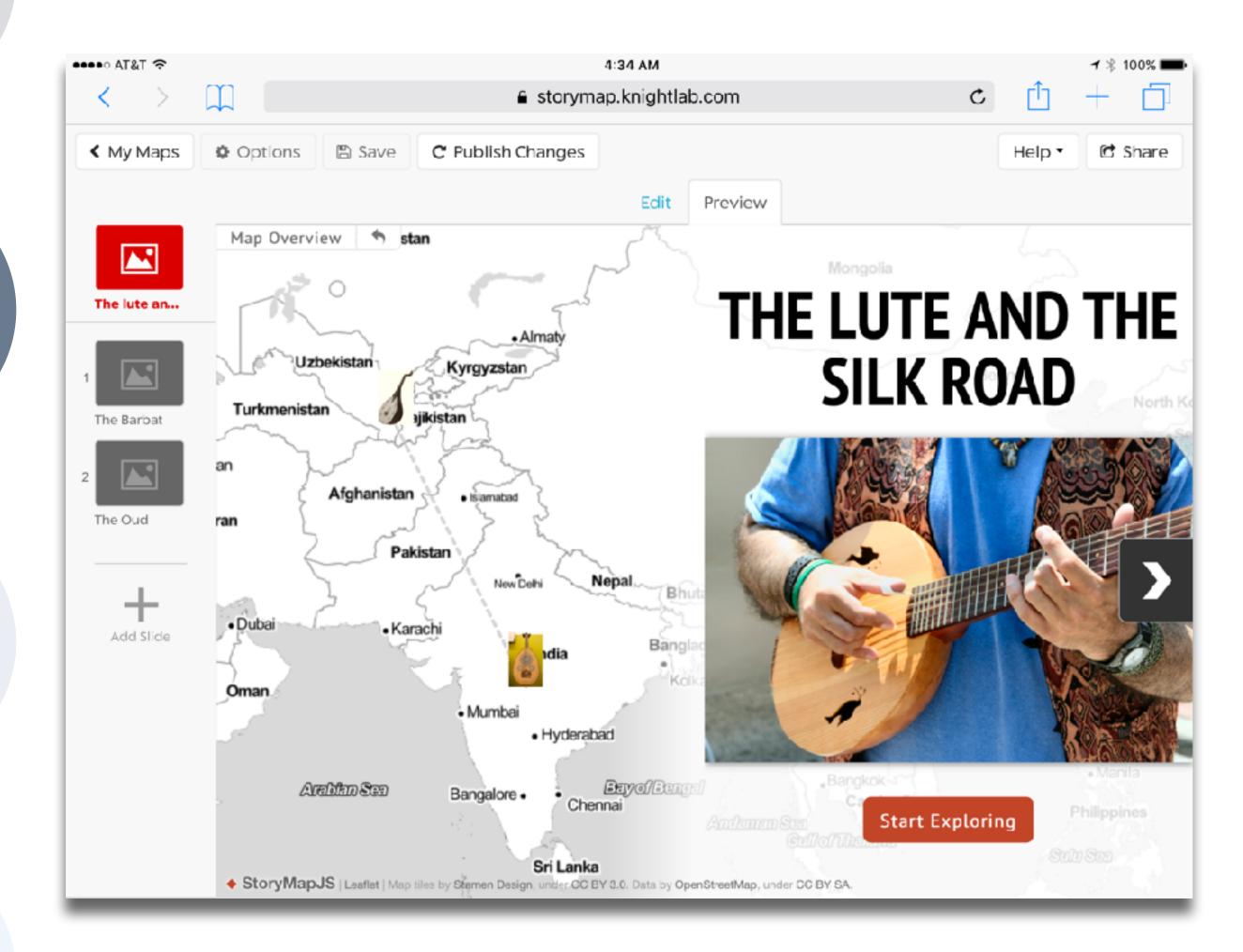
Modification

Tech allows for significant task redesign

Augmentation

Tech acts as a direct tool substitute, with functional improvement

Substitution



Tech allows for the creation of new tasks, previously inconceivable

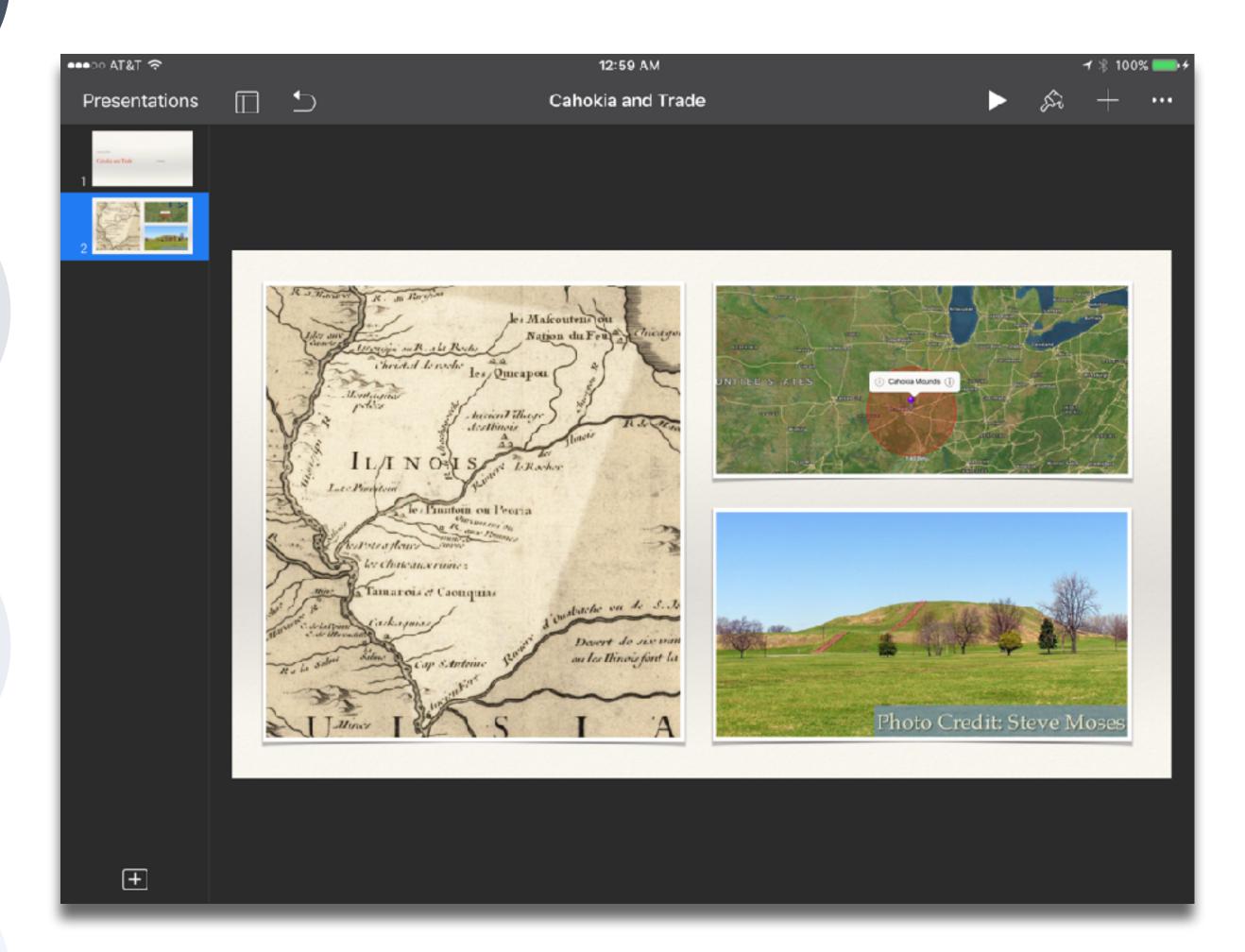
Modification

Tech allows for significant task redesign

Augmentation

Tech acts as a direct tool substitute, with functional improvement

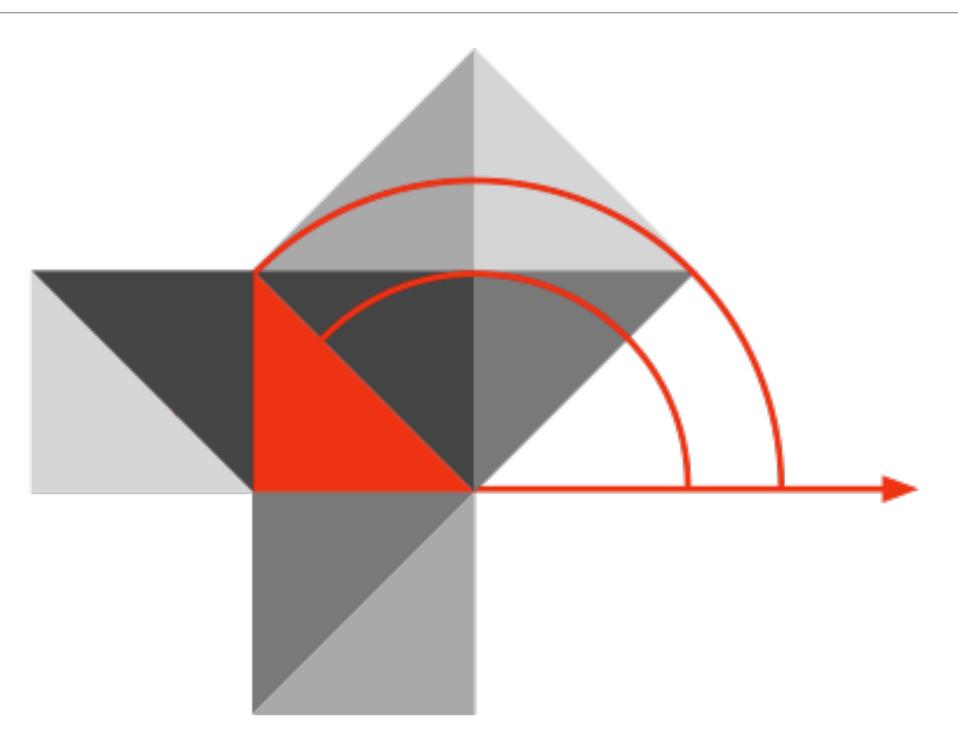
Substitution



Communities of Practice and Personal Learning Networks

- · Internally: School as Community of Practice
 - A domain of shared interest, commitment, and competence;
 - A community where joint activities, discussions, information sharing, and help processes are focused around and by the domain;
 - A **practice** with a shared repertoire of resources, such as experiences, stories, tools, and problem-solving approaches.
- Externally: Individual Personal Learning Networks
 - Loosely structured around a range of tools, individually chosen no two PLNs are the same;
 - Usually online, but may involve face-to-face components (e.g. meetups);
 - Resources may range from professional society websites, to educator blogs, to Facebook groups, to Twitter feeds;
 - Involvement may range from primarily reading sources, to participating in discussions, to authoring new materials.

Hippasus



Blog: http://hippasus.com/blog/

Email: rubenrp@hippasus.com

Twitter: @rubenrp

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

