SharkFinder: Advancing the understanding of evolution and diversity through a flexible scalable citizen science program

Aaron Alford & Jason Osborne, NAPC, February 2014

"Paleontology can be the rosetta stone for helping students understand the importance of science, how science is done, and how all of the sciences tie together."
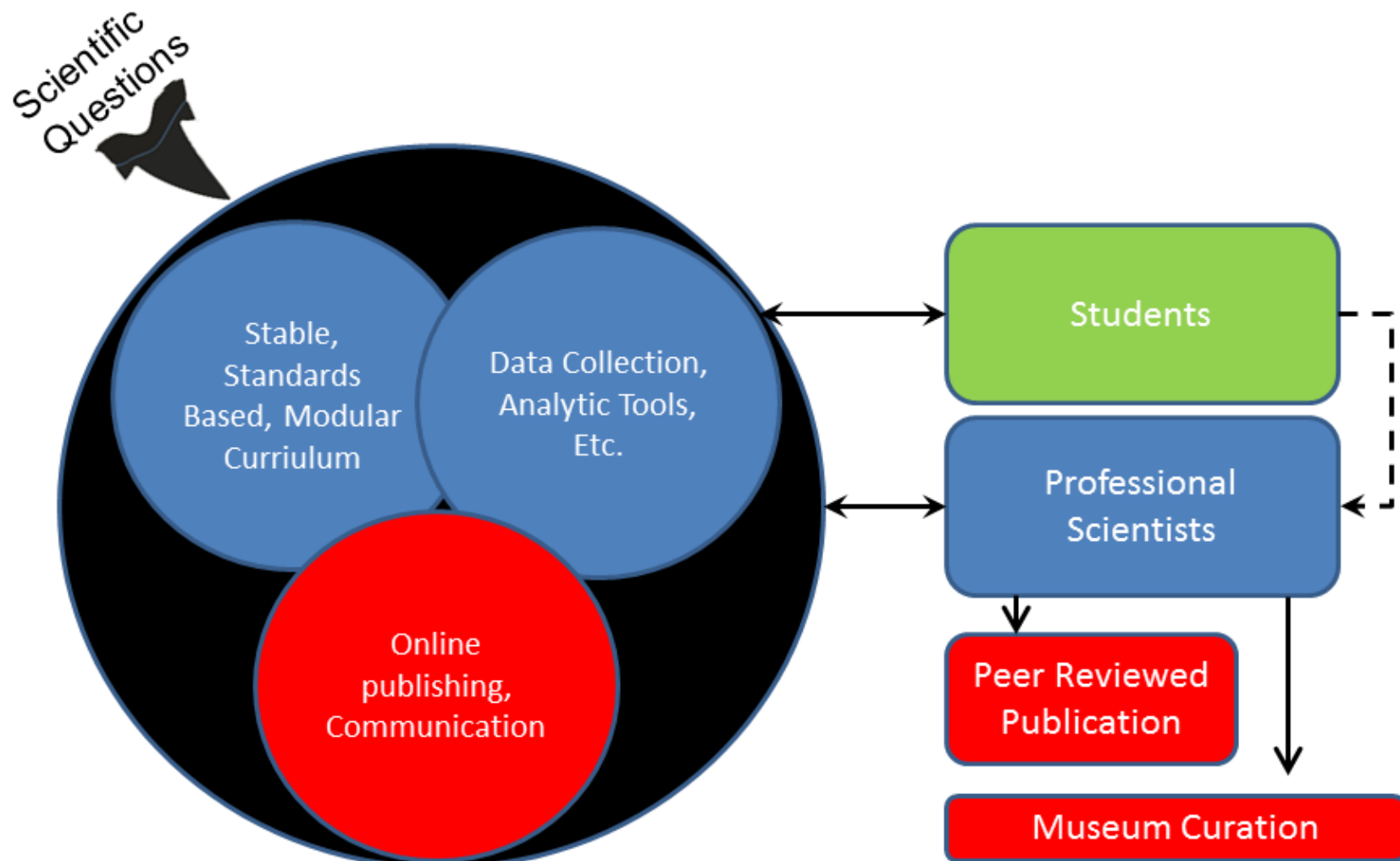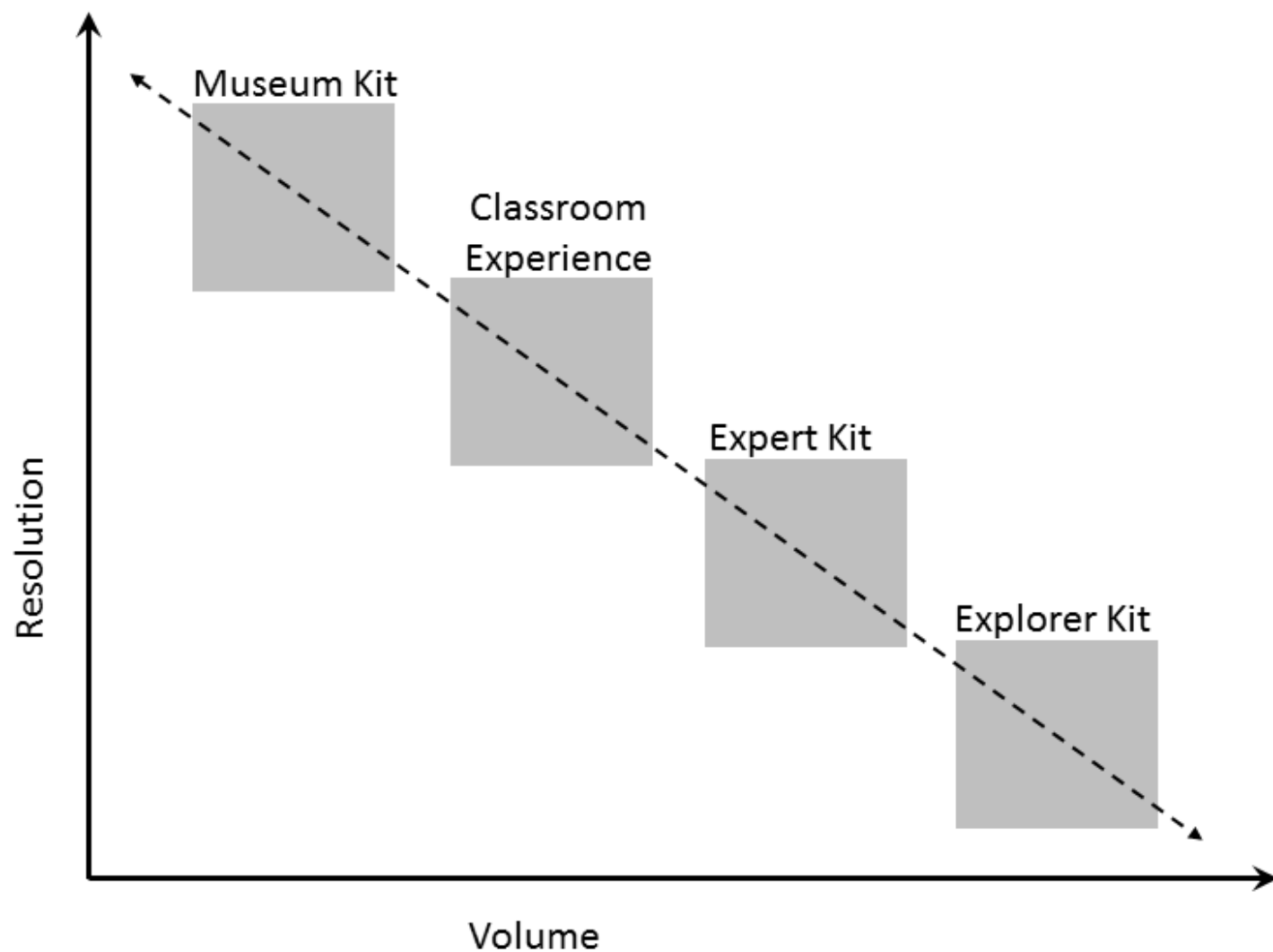
-Richard K. Stucky

Photo Credit: Bretton Kent

A generic scalable education and science tool

Scientific Questions

Stable, Standards Based, Modular Curriulum

Data Collection, Analytic Tools, Etc.

Online publishing, Communication

The JASON Project Portal

Students

Professional Scientists

Peer Reviewed Publication

Museum Curation

A Spectrum of Research and Education Solutions

Resolution (vertical axis)

Volume (horizontal axis)

Museum Kit

Classroom Experience

Expert Kit

Explorer Kit

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Outcome 1: Accelerated discovery

1904-January 2012
- Species = 44
- Genera = 29
- RATE = .4 Occ. / year

January 2012-Present
- Species = 52
- Genera = 34
- RATE = 4 Occ. / year

Outcome 2: Publications, lectures and awards

- 10+ research publications in preparation
- >20 invited lectures and published abstracts
- White House, Champion of Change Award

THE WHITE HOUSE
WASHINGTON

The Calvert Marine Museum Fossil Club presents

The Rise and Fall of the Neogene Giant Sharks

Saturday, September 28th

Presented by **Dr. Bretton Kent**
University of Maryland, College Park

← Scan here to learn more about the Fossil Club

Lecture begins at 2:30 in the auditorium
Free and open to the public

This talk is sponsored by the Clarissa and Lincoln Dryden Endowment for Paleontology at the Calvert Marine Museum.

www.calvertmarinemuseum.com

Outcome 3: Education

- Engaged school districts in 7 states
- Partnered with JASON Learning / National Geographic / SRF
- Featured at Google SciFoo and other Google functions
- Featured at USA Science and Engineering Festival in conjunction with Scientific American (April 2014)

SharkFinder sponsors and collaborators