WebCore:

Architectural Support for Mobile Web Browsing

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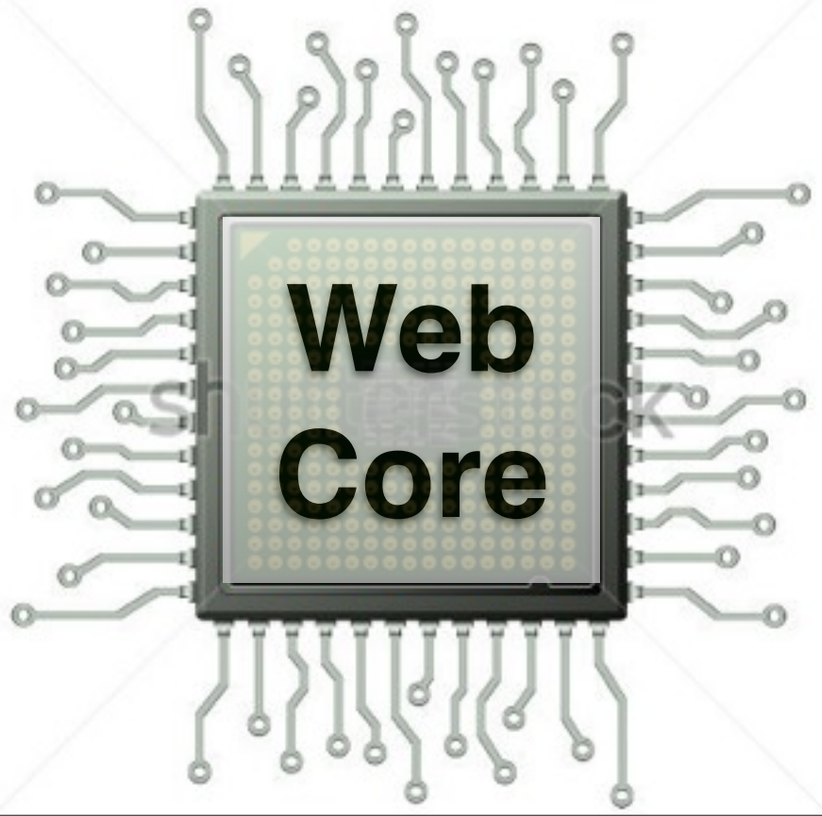
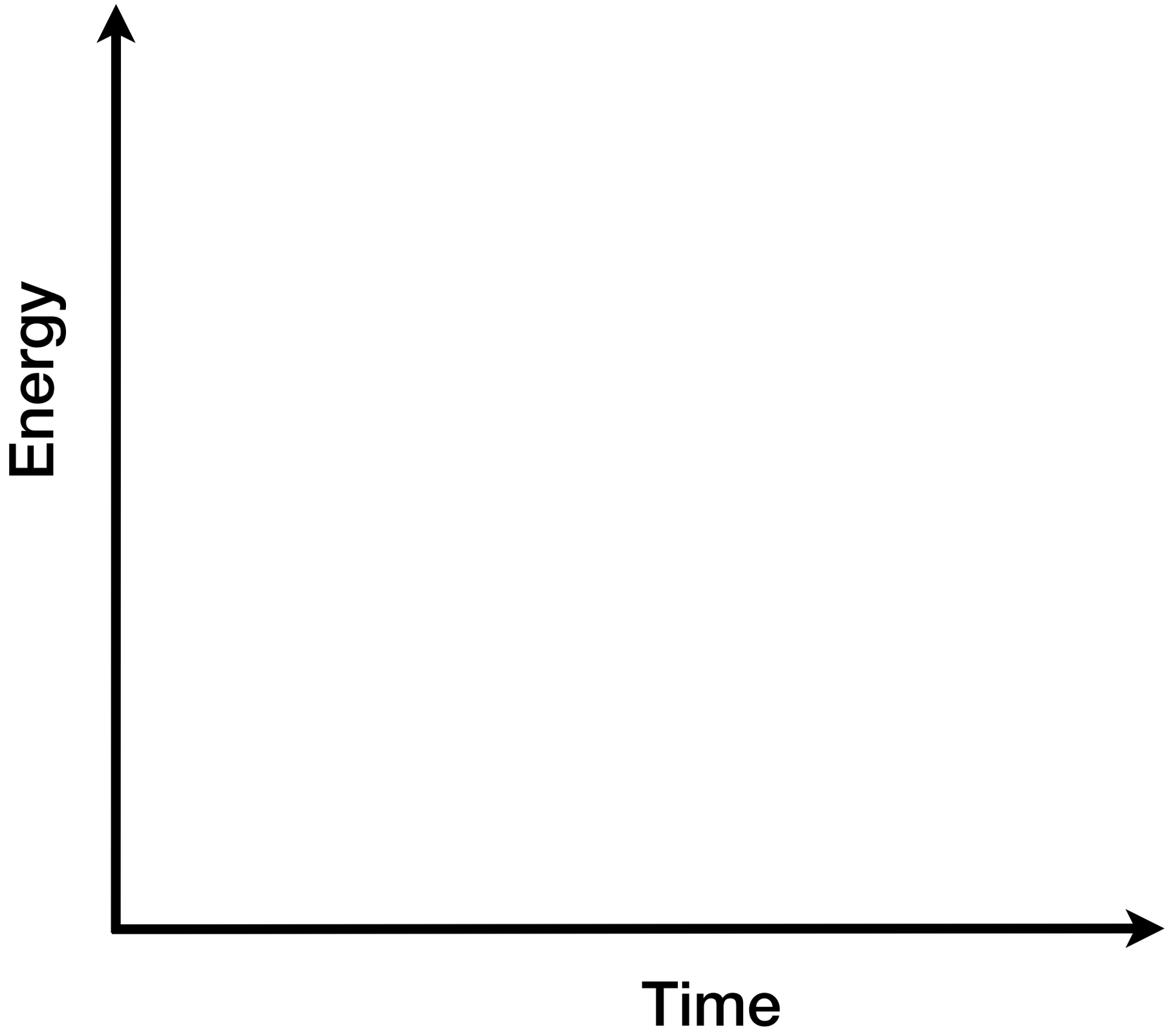
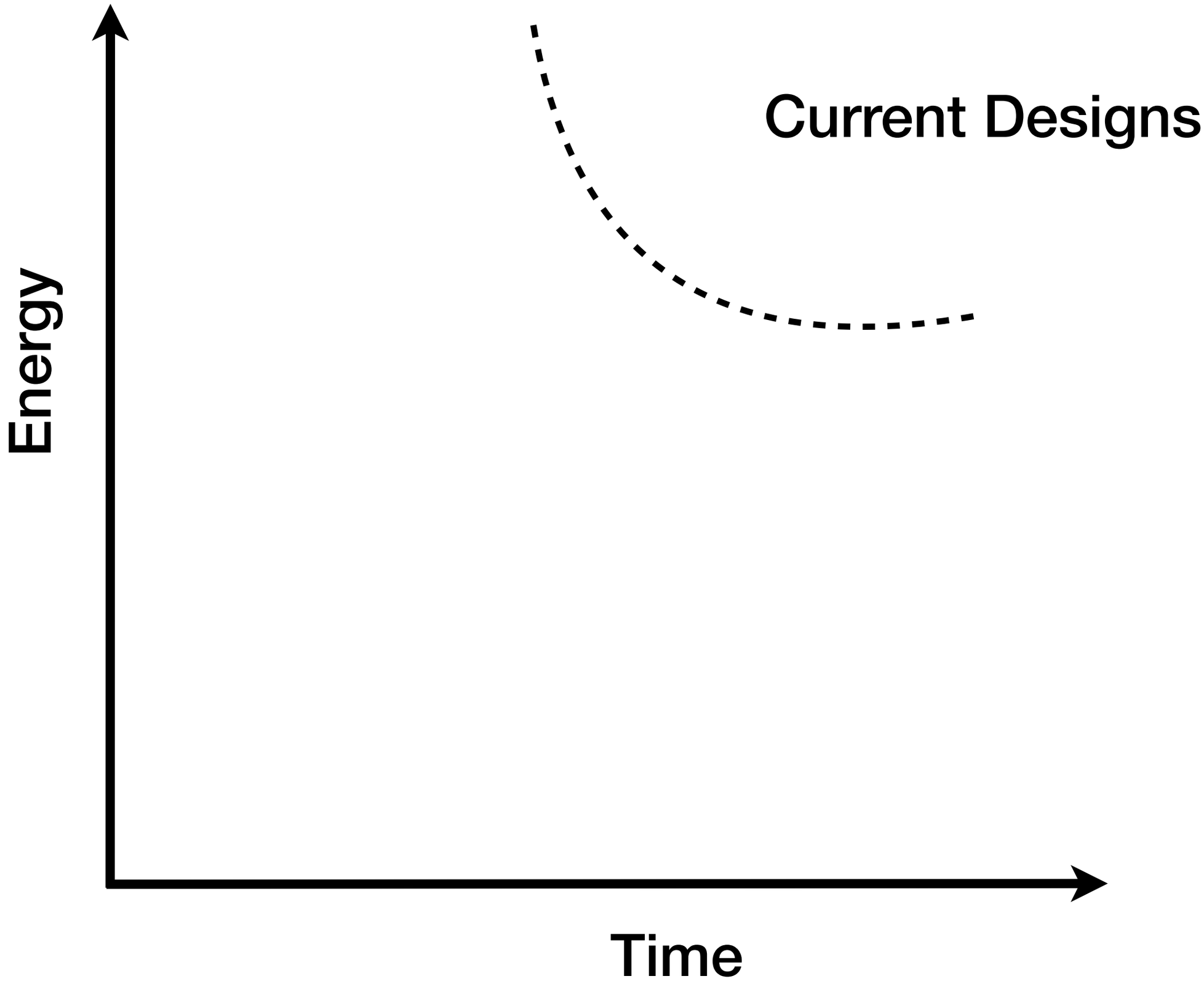
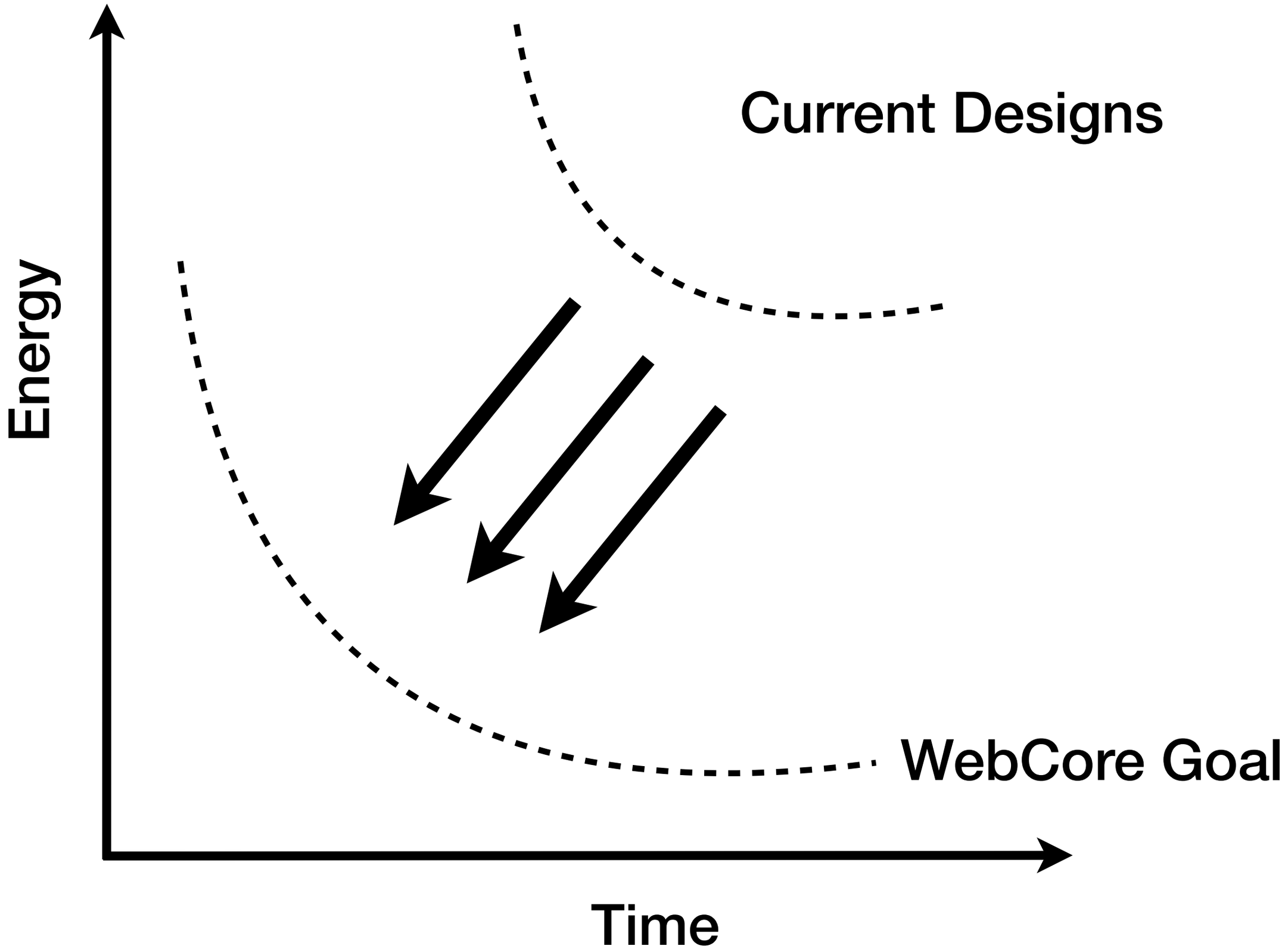
ISCA FastForward — June 17th, 2014


Web
Core


Energy
Time


Energy
Current Designs
Time

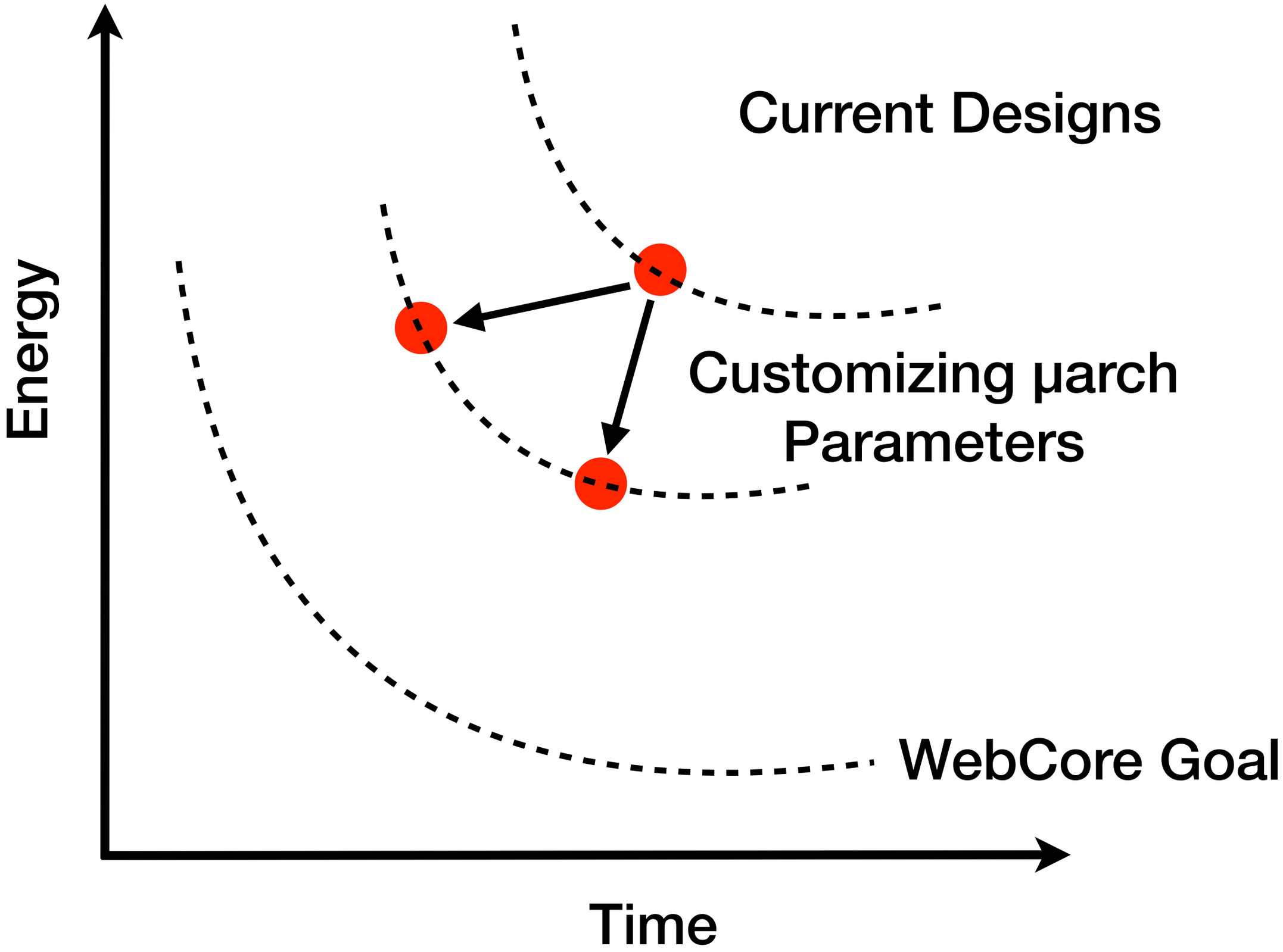

Energy
Current Designs
WebCore Goal
Time

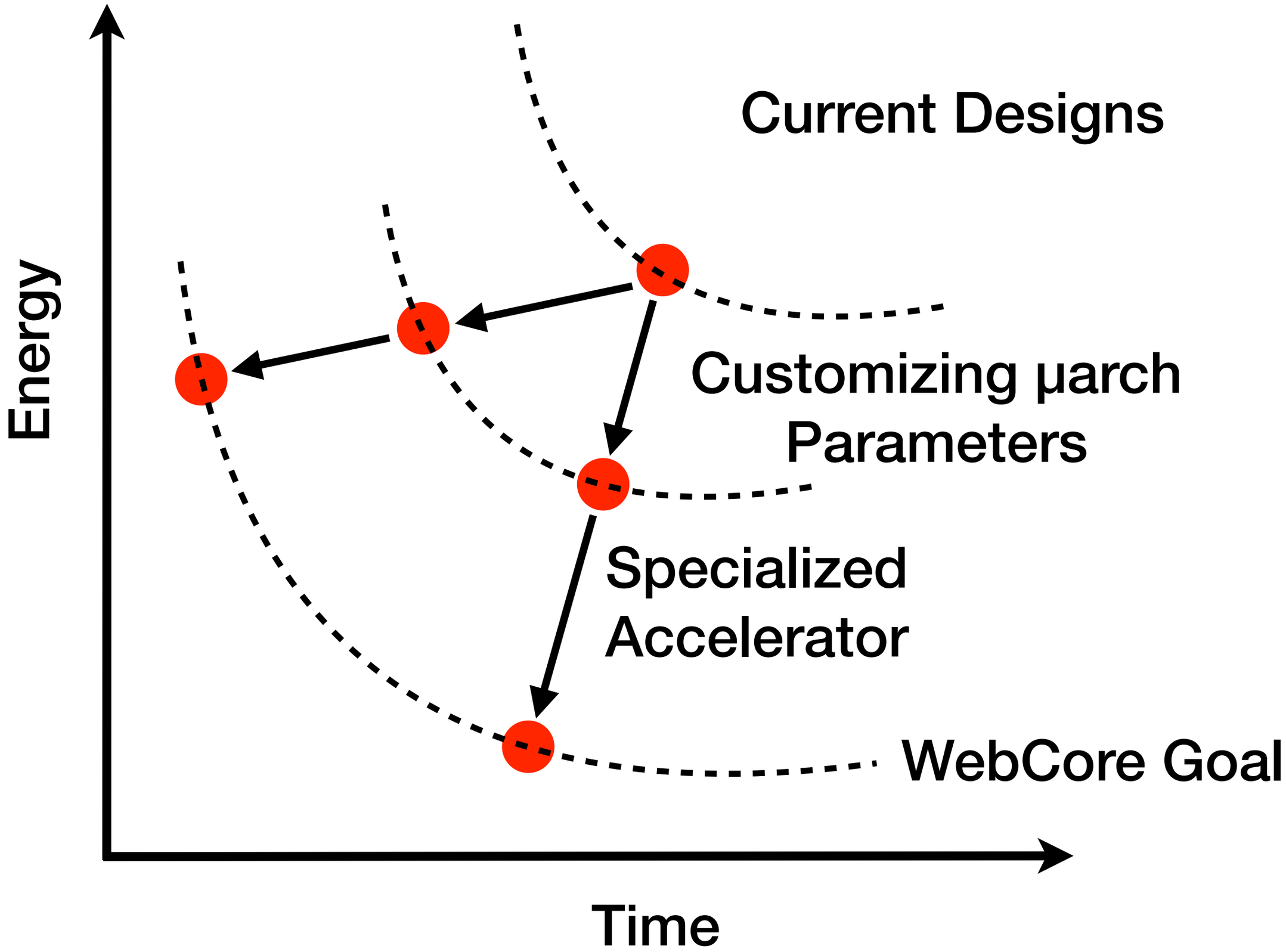
Energy

Current Designs

WebCore Goal

Time


Energy
Current Designs
Customizing µarch
Parameters
WebCore Goal
Time


Energy
Current Designs
Customizing μarch Parameters
Specialized Accelerator
WebCore Goal
Time

10X Speedup on Accelerated Part

~2X Overall Speedup and Energy Savings

<0.5% SoC Area

Last Day
Last Session
Last Presentation