

Emerging Technologies

What's Next in Lighting & Tech

Connective Innovation

January 21, 2016





Agile Energy & Environmental Performance

Stephanie Egger

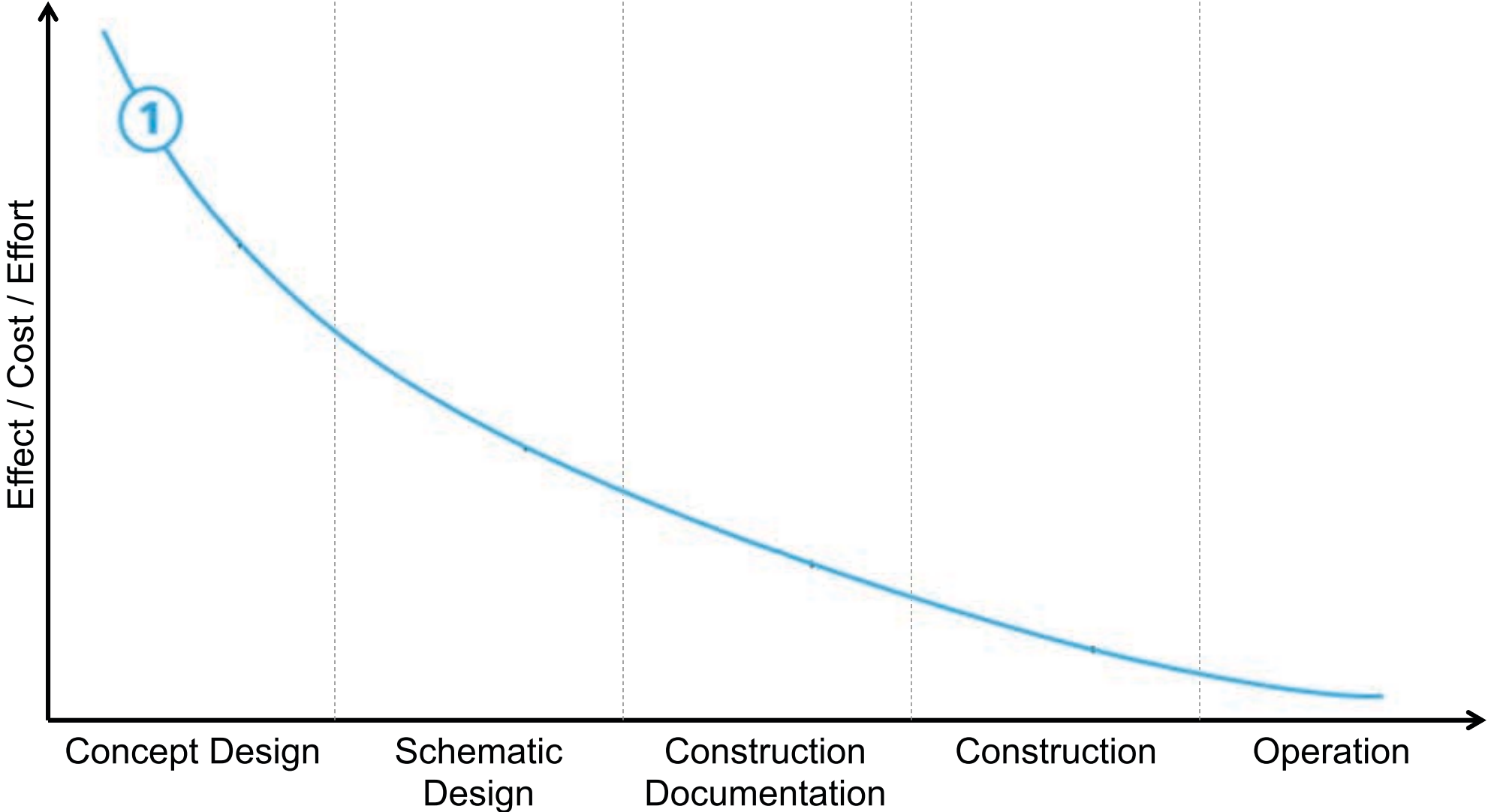
Autodesk Technical Evangelist



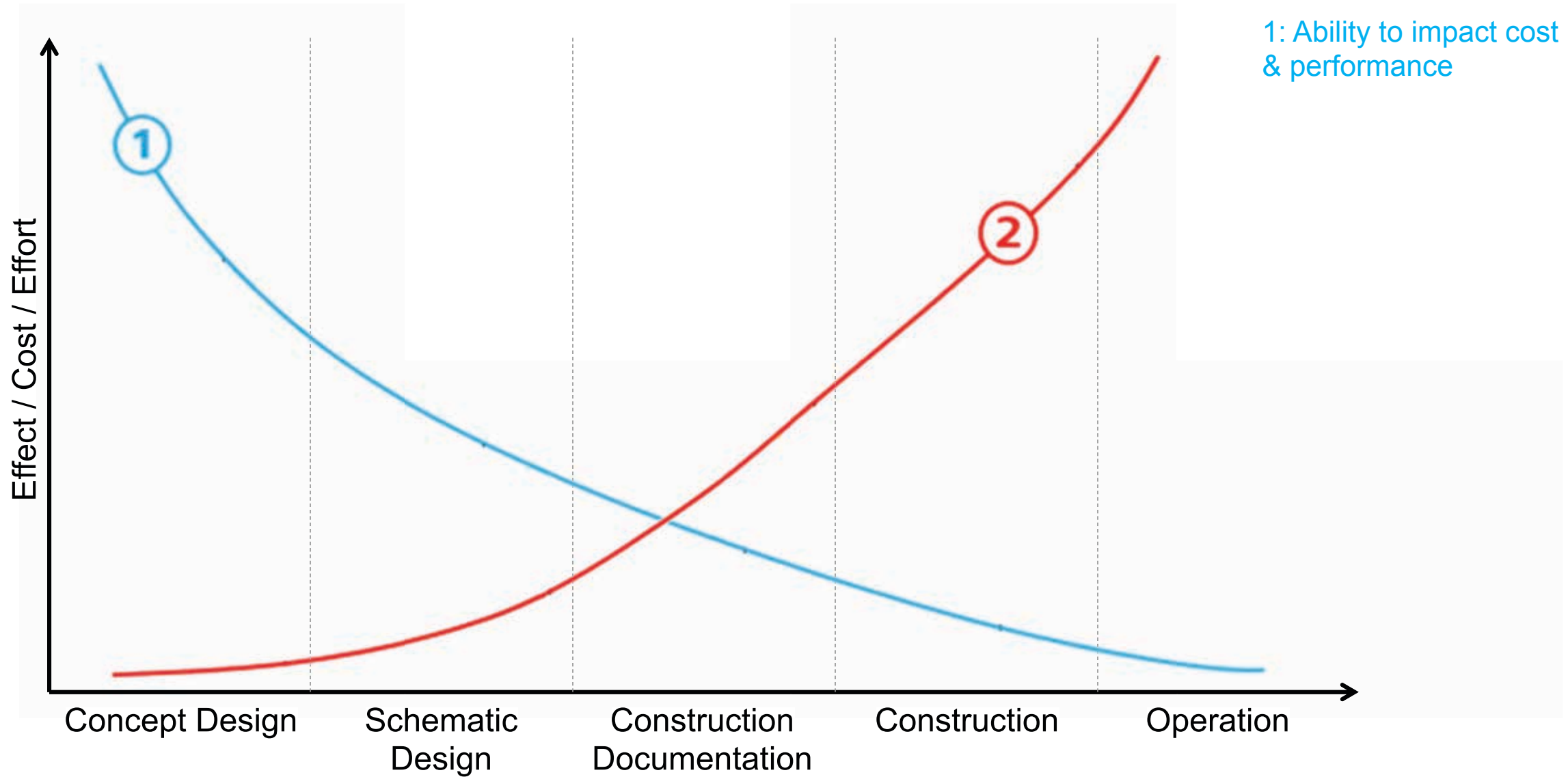
Traditional Design

Integrated Design

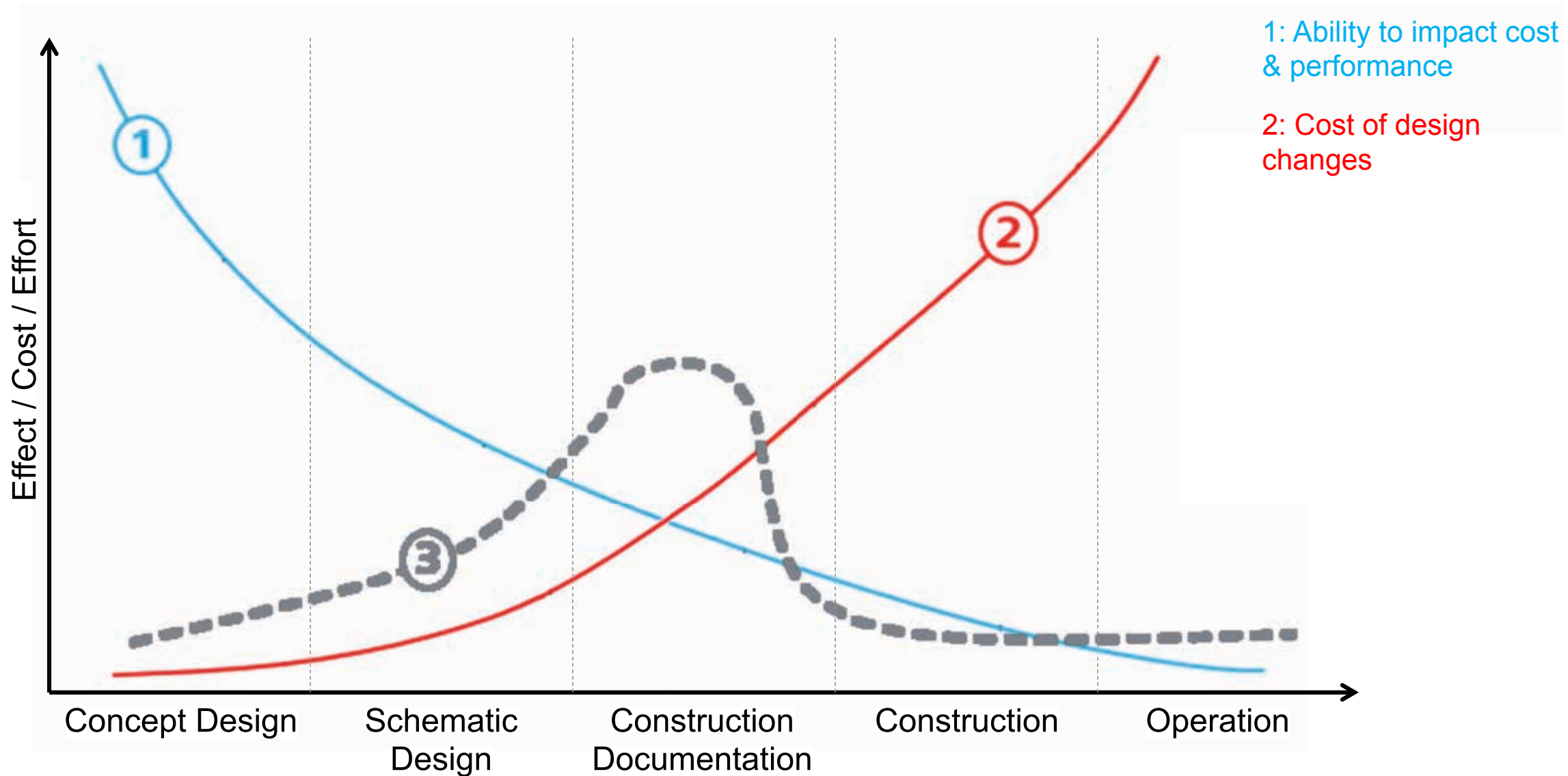
1: Ability to impact cost & performance



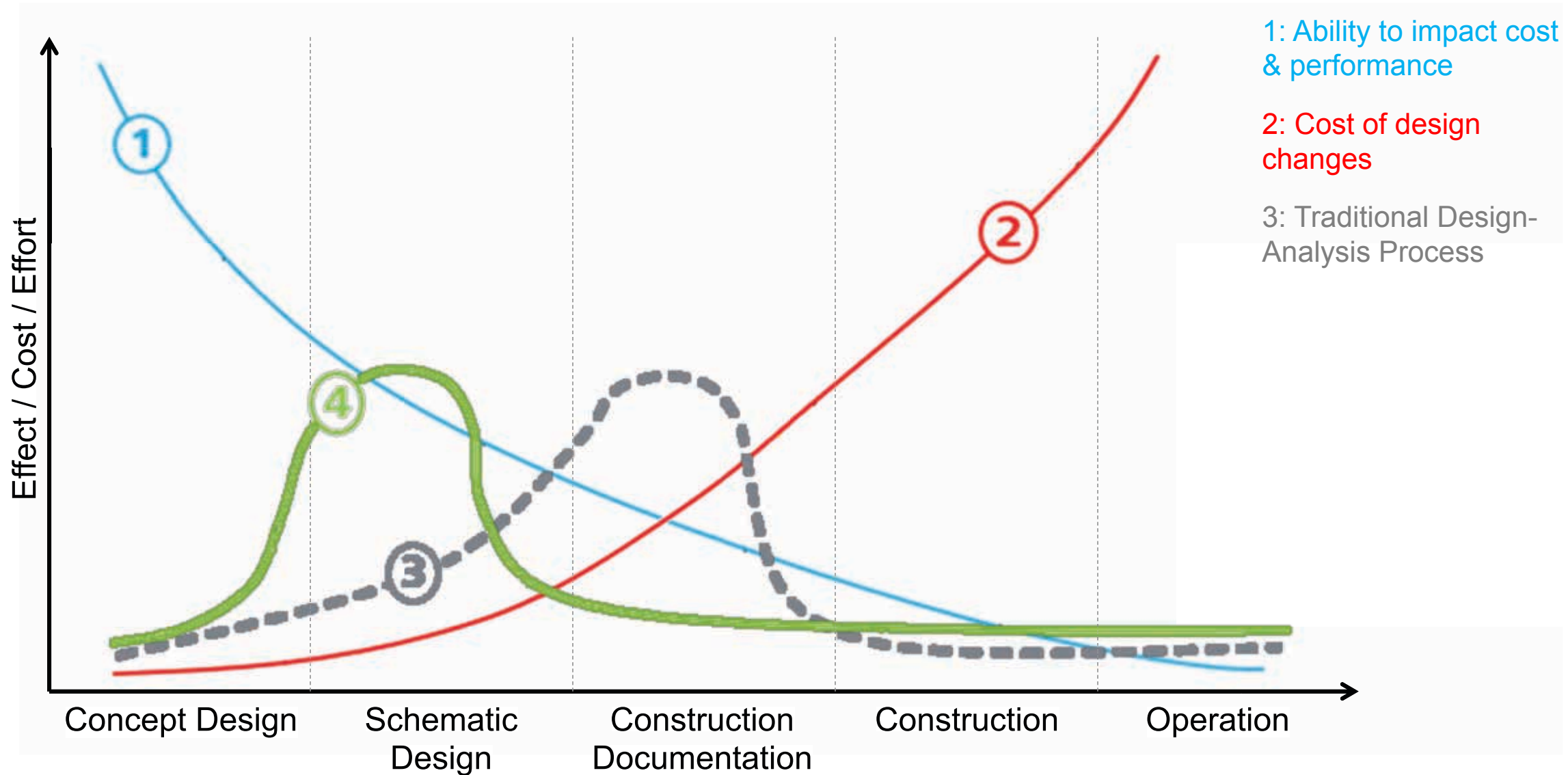
2: Cost of design changes



3: Traditional Design-Analysis Process



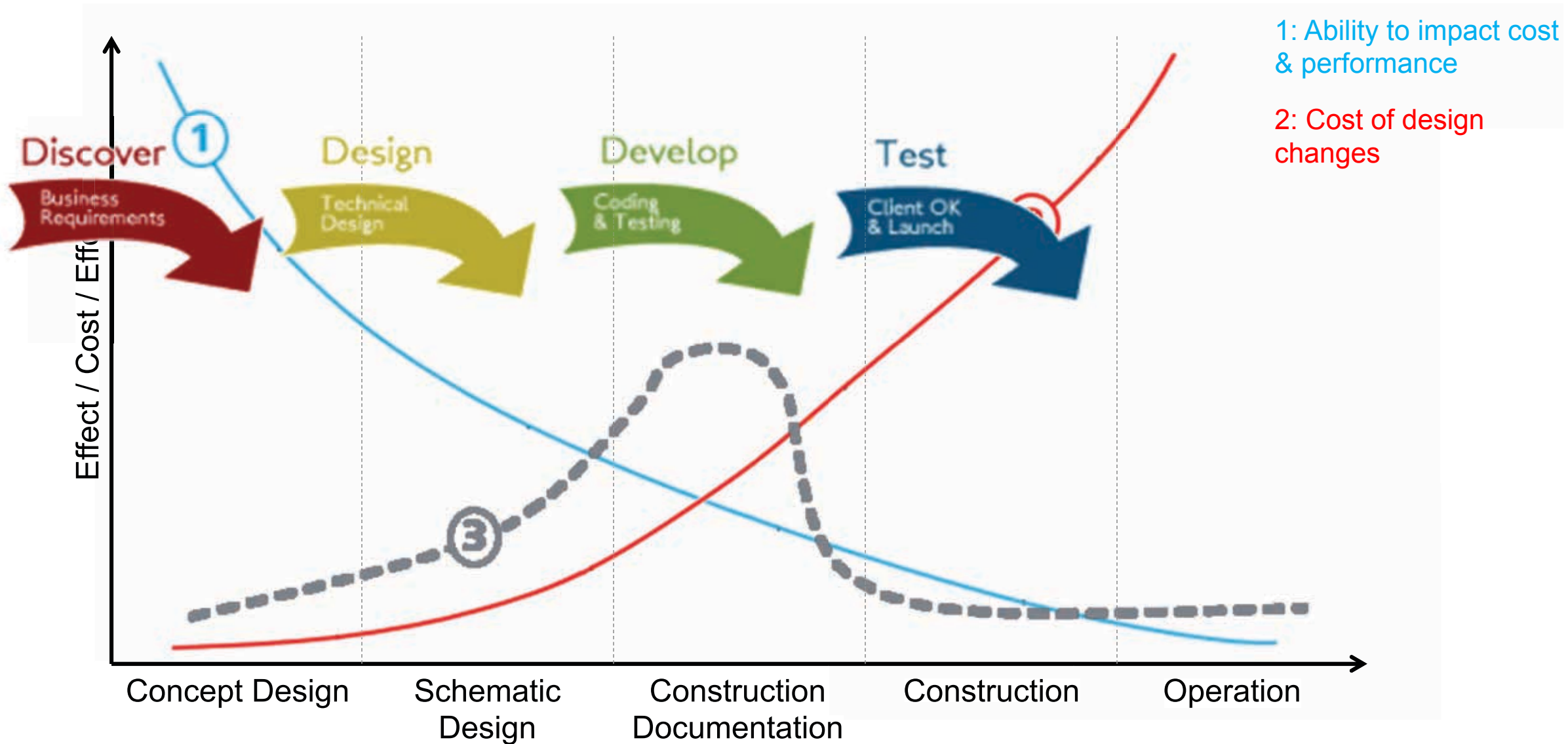
4: Integrated Design-Analysis Process



Waterfall

Agile

3: Waterfall Design Development



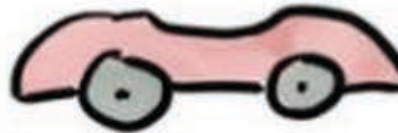
Waterfall Design Development



1



2

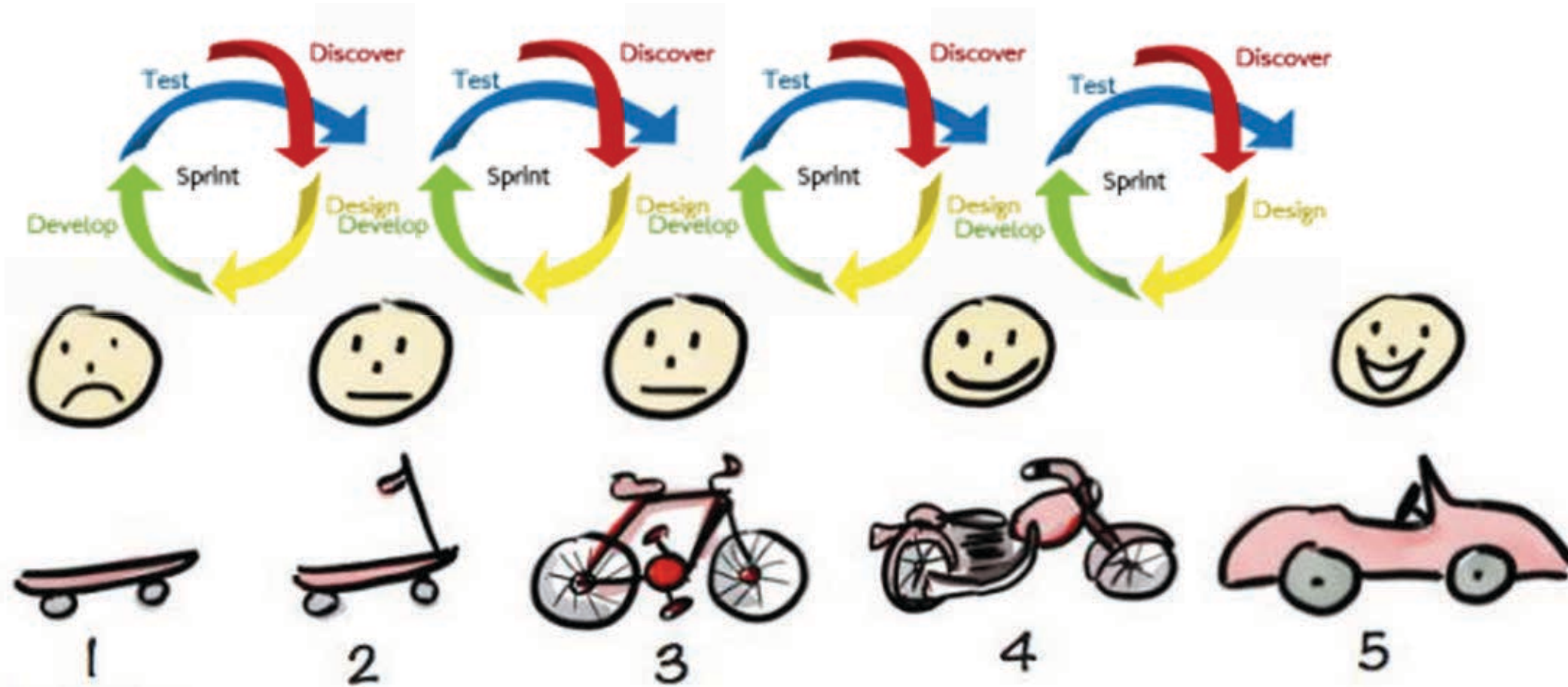


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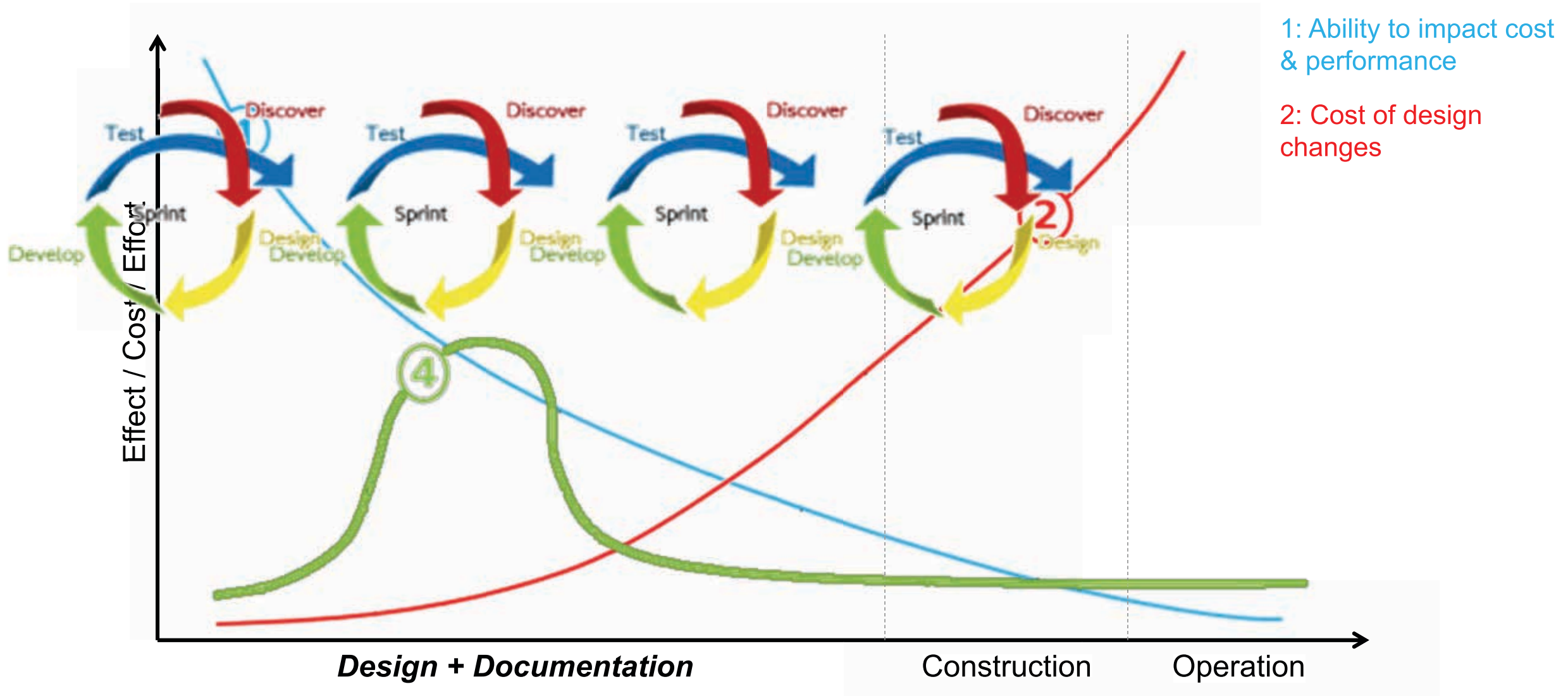


4

Agile Design Development

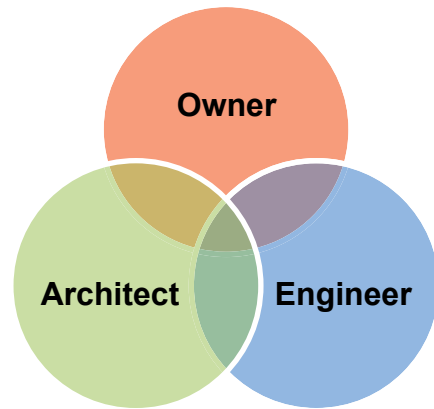


Agile Design Development

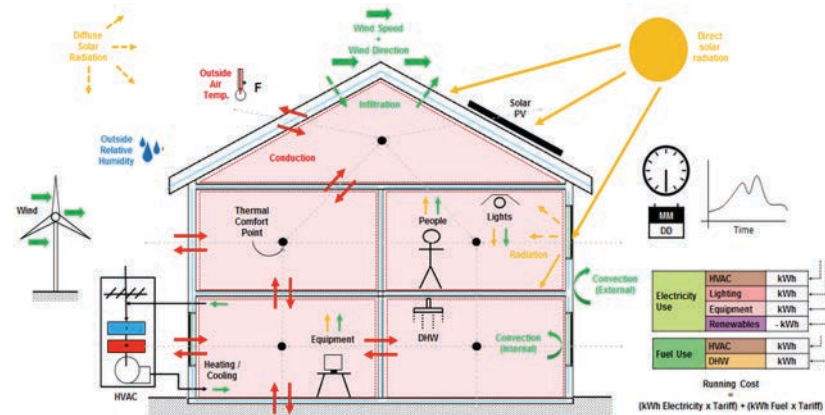


Developing tools to enable...

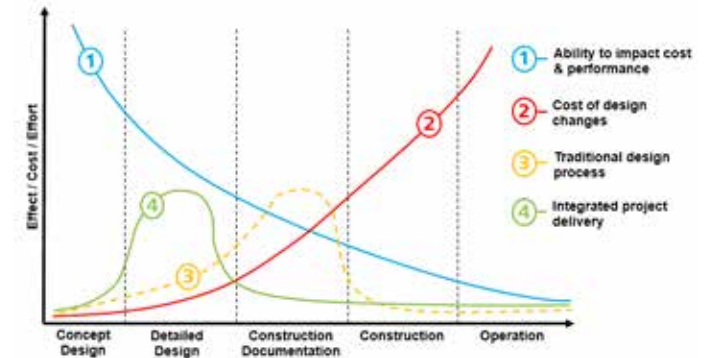
Stakeholder Engagement



Whole System Dynamics



Lifecycle & Process Continuity




The right people with the right information at the right time.



Insight / School Massing Study

35 | 7
17
\$/m²/yr




U Shape

34 | 7
17
\$/m²/yr



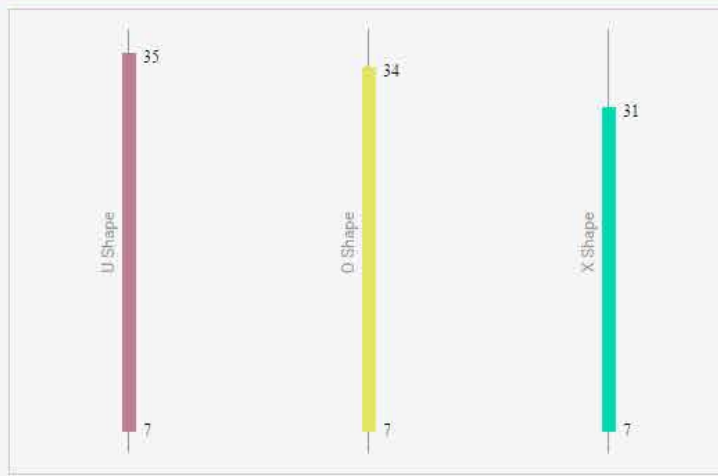
O Shape

31 | 7
16
\$/m²/yr



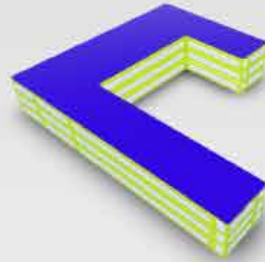
X Shape

Model Comparison

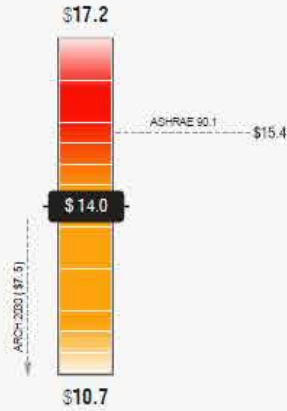


Building Form

14.0
USD/m²/yr



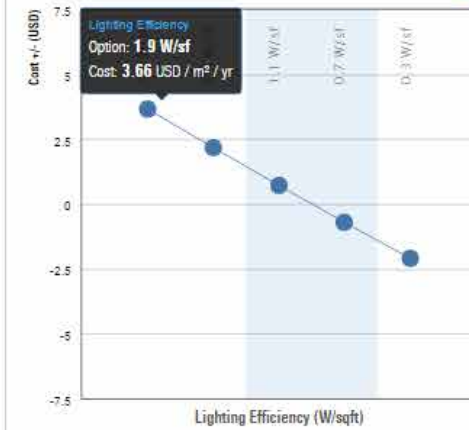
Benchmark Comparison
USD / m² / yr



Model History
USD / m² / yr



Lighting Efficiency



Plug Load Efficiency



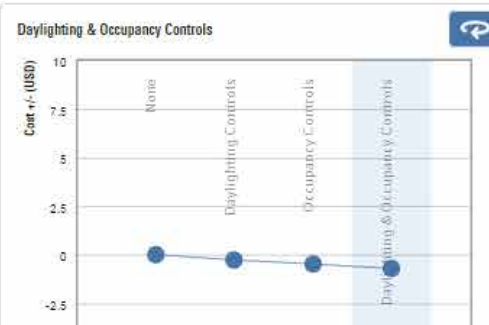
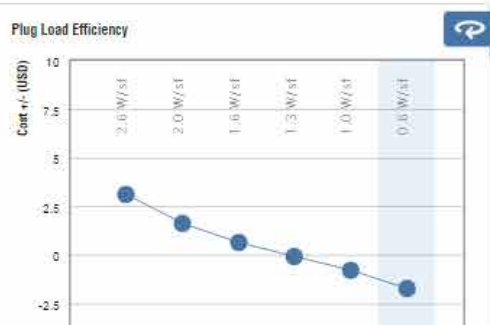
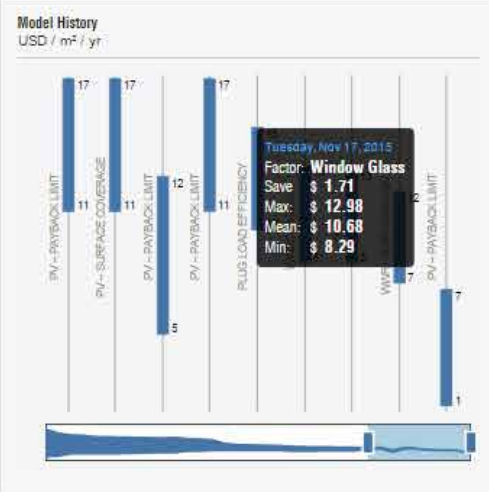
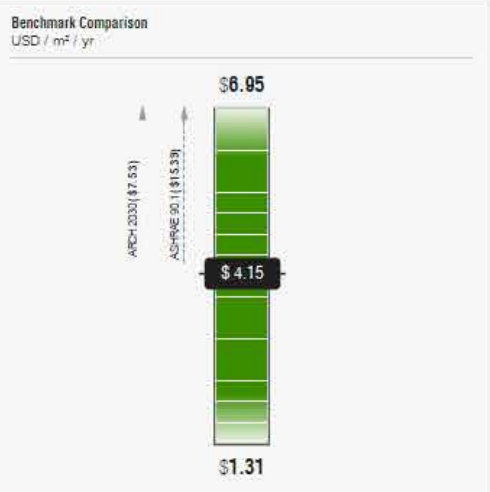
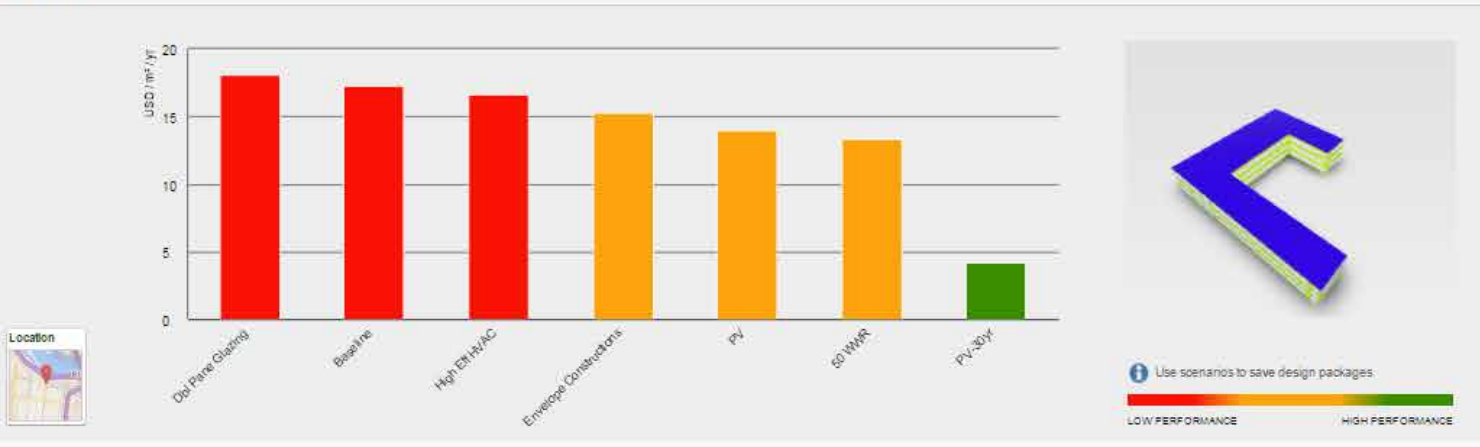
Daylighting & Occupancy Controls

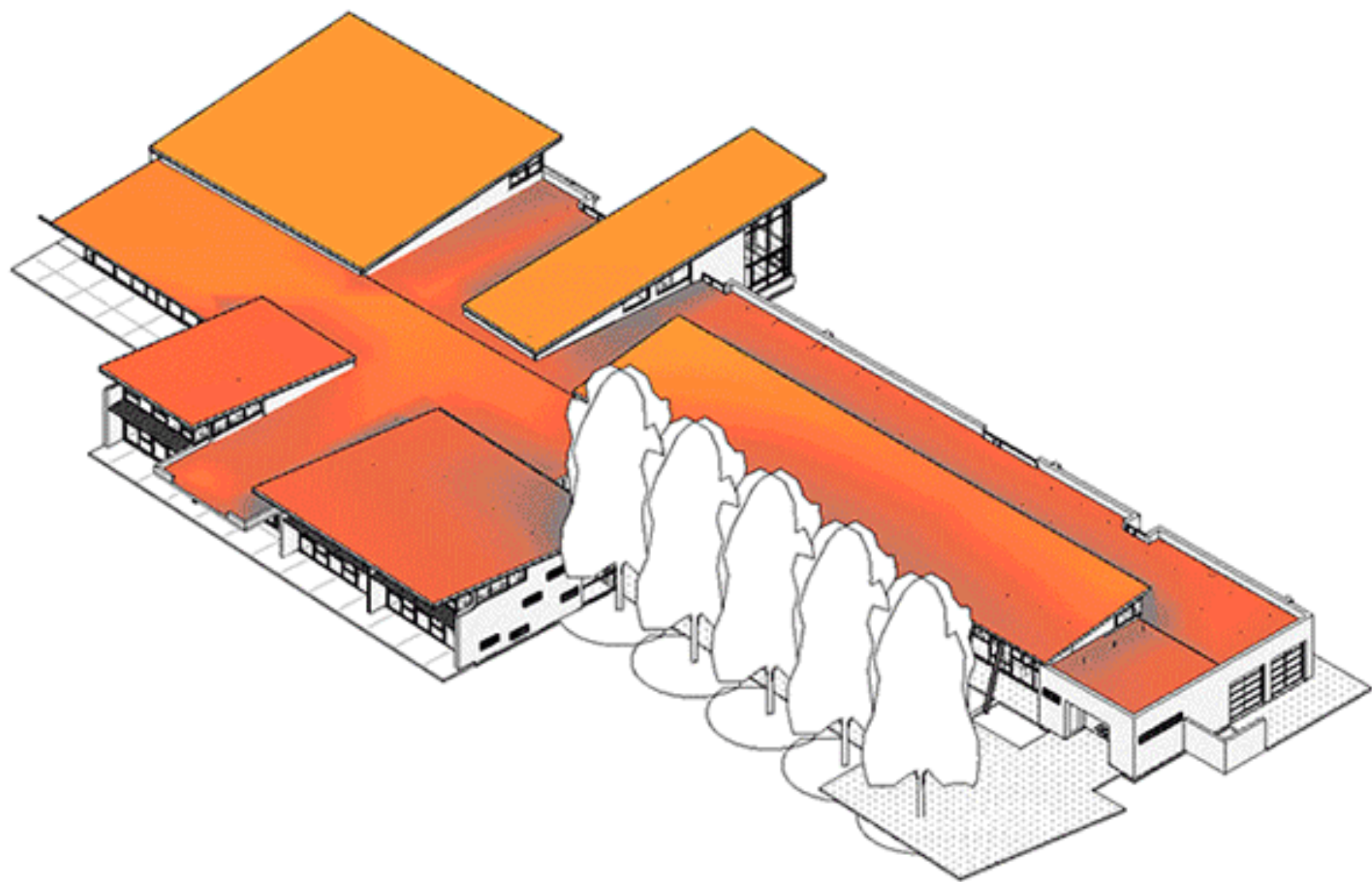


Infiltration



Scenario Comparison







insight360.autodesk.com