

Formal Presentation • Displayed Mathematics • Proof-Oriented

GrowAppAI Risk Model

A formal mathematical model for governed AI-native software delivery. The framework models software risk as expected economic loss across multiple risk classes, attenuated through a 15-stage governed pipeline, under an explicit irreducible residual floor and shift-left remediation economics.

15

Governed pipeline stages

5

Illustrative risk classes

2

Sources of value: escape reduction + shift-left

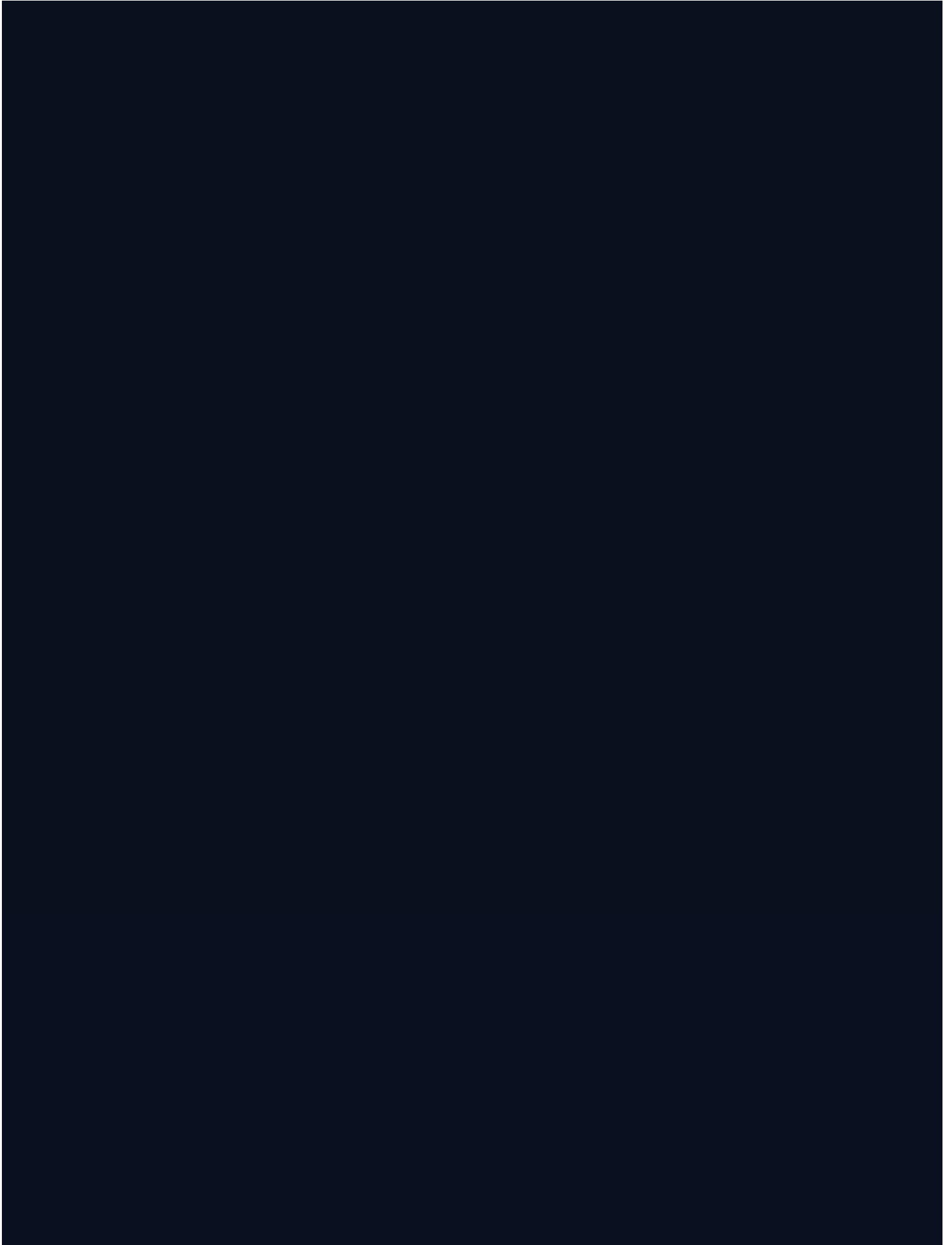
1

Economic objective: lower total expected delivery cost

Definition 1 (Software Change). Let Δ denote a concrete software change, feature increment, release candidate, or change set generated or accelerated by AI-assisted delivery.















GrowAppAI • Formal risk-model presentation • Math rendered with MathJax for browser display.