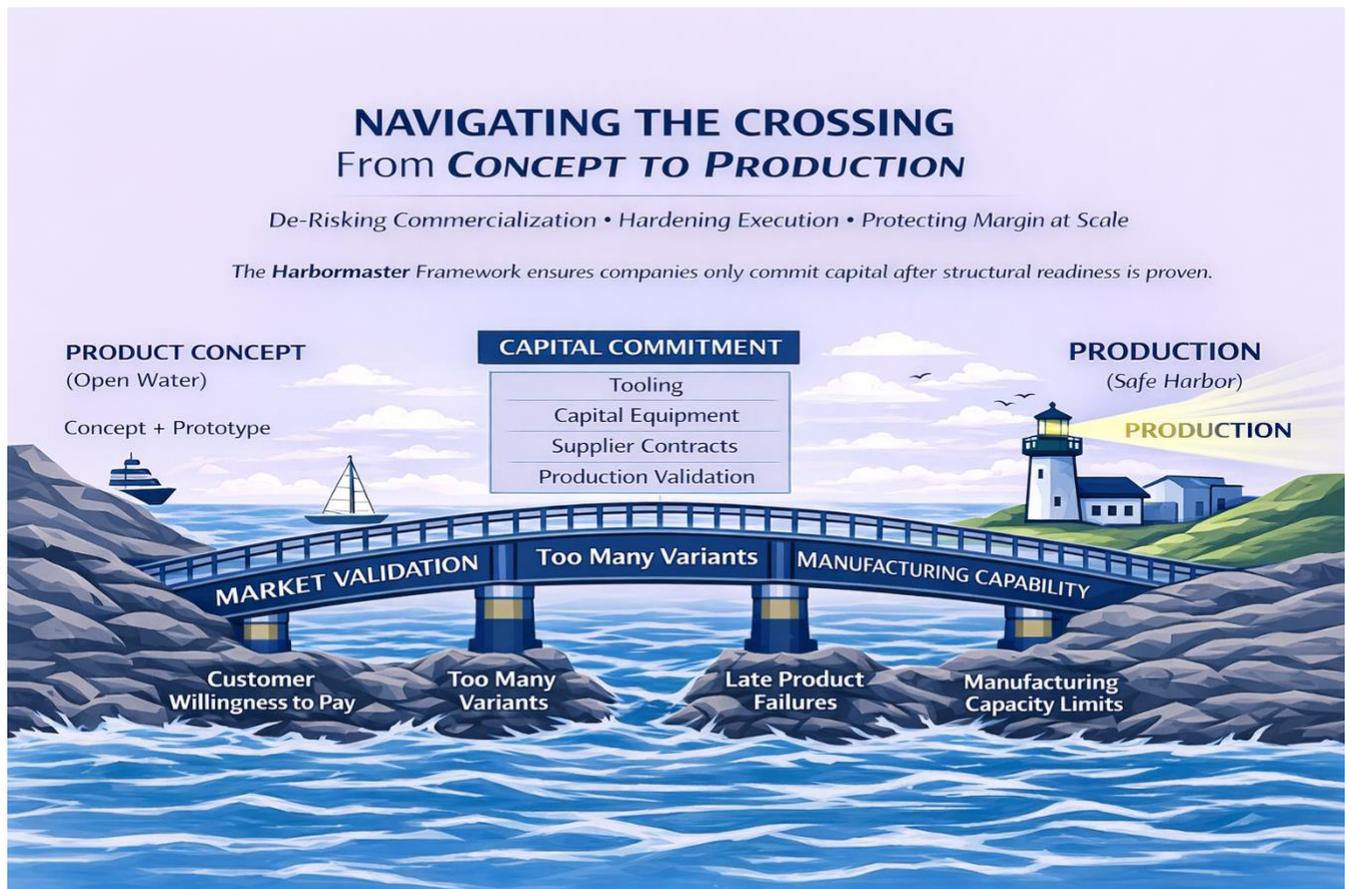


## HARBORMASTER™ Phase-Gate System

HARBORMASTER™ is a commercialization governance system layered onto existing phase-gate structures to ensure advancement reflects verified cross-functional readiness before scale commitments become economically irreversible.

Most organizations have gates.

The risk arises when advancement outpaces alignment across product definition, manufacturing capability, supplier readiness, economic assumptions, and capital exposure.



HARBORMASTER reinforces discipline at five transition points:

**Gate 1 — Opportunity Defined**

Market, engineering, and manufacturing align before acceleration.

**Gate 2 — Complexity Controlled**

Variant strategy is reconciled with scalable capability.

**Gate 3 — Commercialization Readiness Verified**

A formal readiness diagnostic determines whether capital should advance, pause, or stabilize.

**Gate 4 — Industrialization Validated**

Tooling, suppliers, certification, facility, and capital plans are aligned before scale commitments accelerate.

**Gate 5 — Ramp Stabilized**

Production scales with operational discipline and margin protection.

## The objective is simple:

Advance only when readiness is verified, alignment is clear, and remaining risk is economically survivable.

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