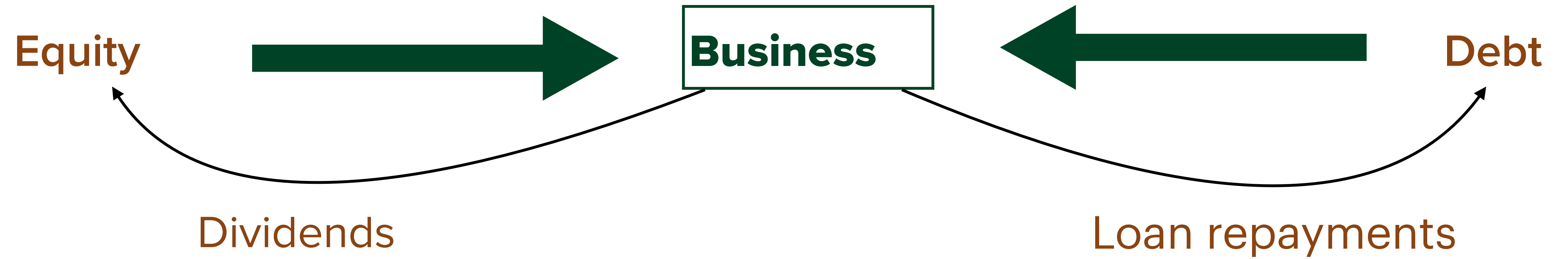


Risk in energy development

John Pagani

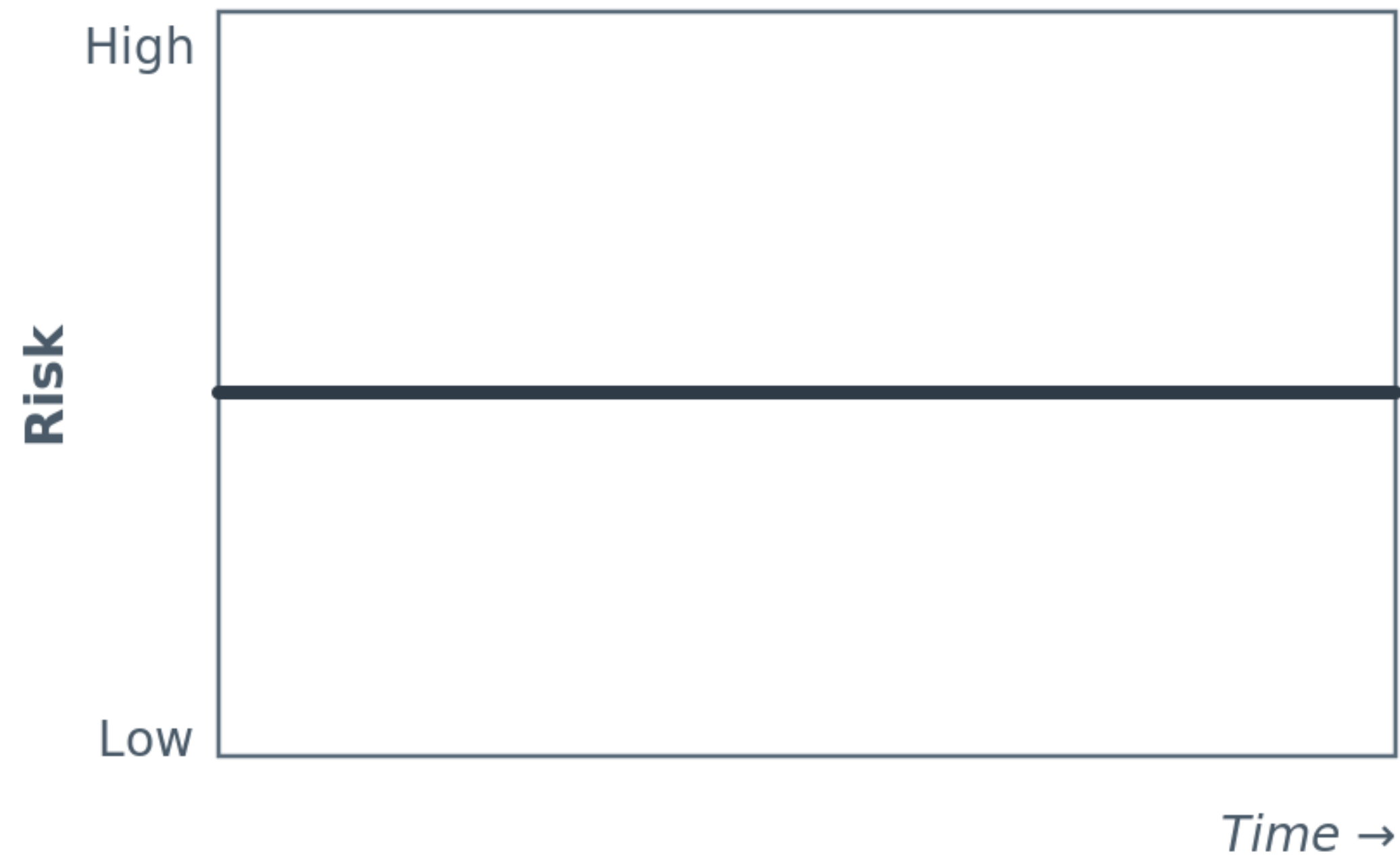
August 2026

Simple financing model



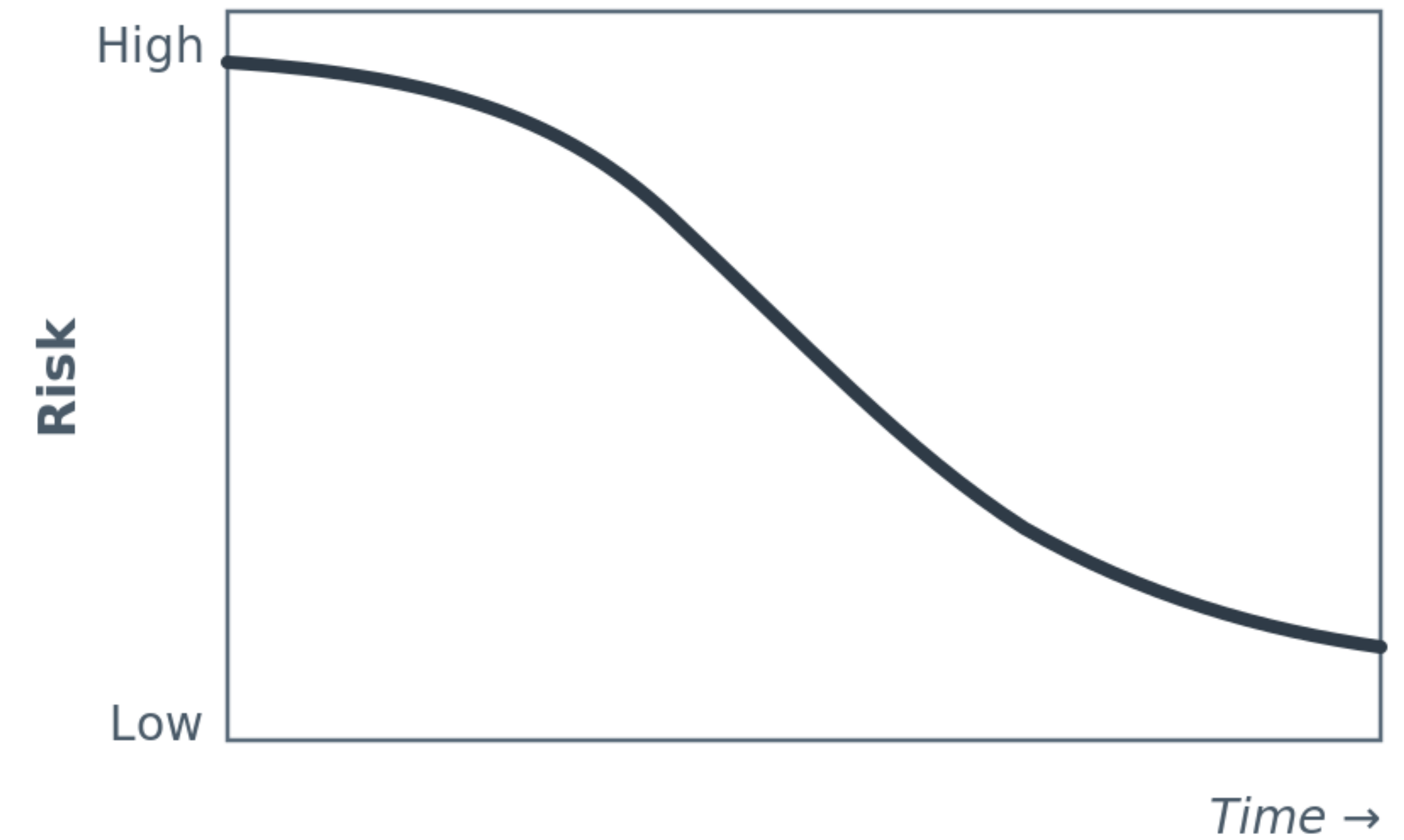
Operational risk

Steady over project life



Development risk

High early, falls as the project is de-risked



Examples of risks

Resource/Subsurface

Drilling cost & performance

Financing

Counterparty

Consenting

Regulatory

Community Views

Energy market

Capital cost escalation

Land access & tenure

Health, safety &
environment (drilling)

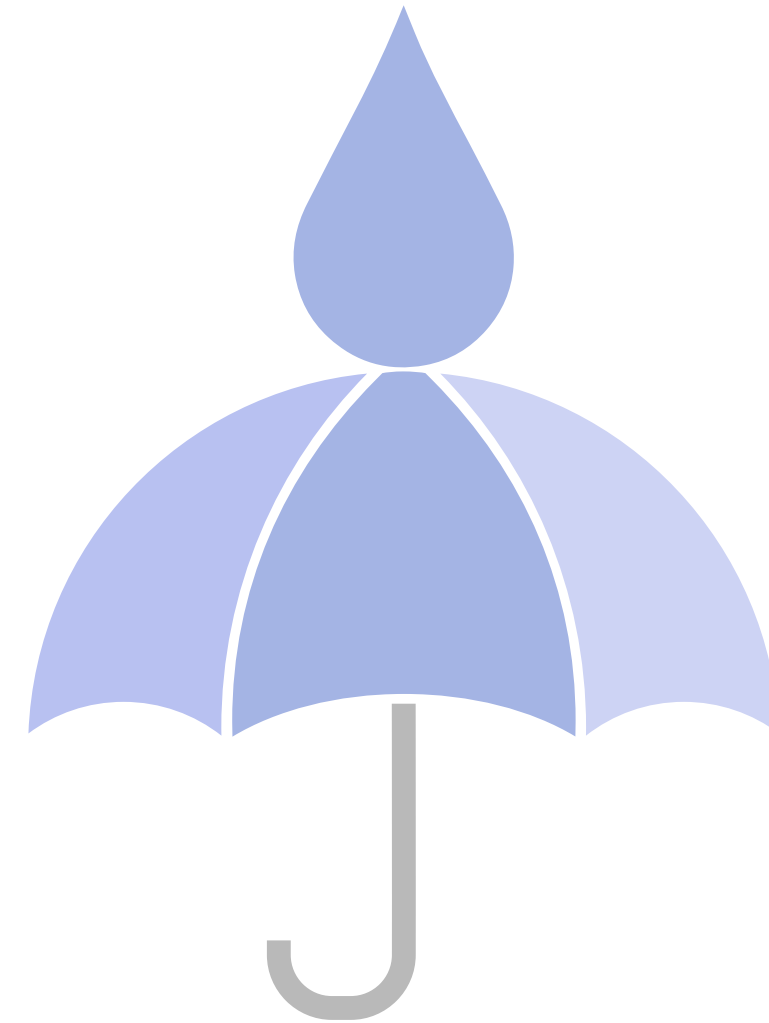
Team & capability

Equipment delays

Operational events

What is the chance that one of these risks will occur?

If there is only a 10% chance of rain each day next week...



What is the chance of rain next week?

10% chance of rain each day next week...



52% **CHANCE OF RAIN**



10% chance of each of these occurring...

Resource/Subsurface

Drilling cost & performance

Financing

Counterparty

Consenting

Regulatory

Community Views

Energy market

Capital cost escalation

Land access & tenure

Health, safety &
environment (drilling)

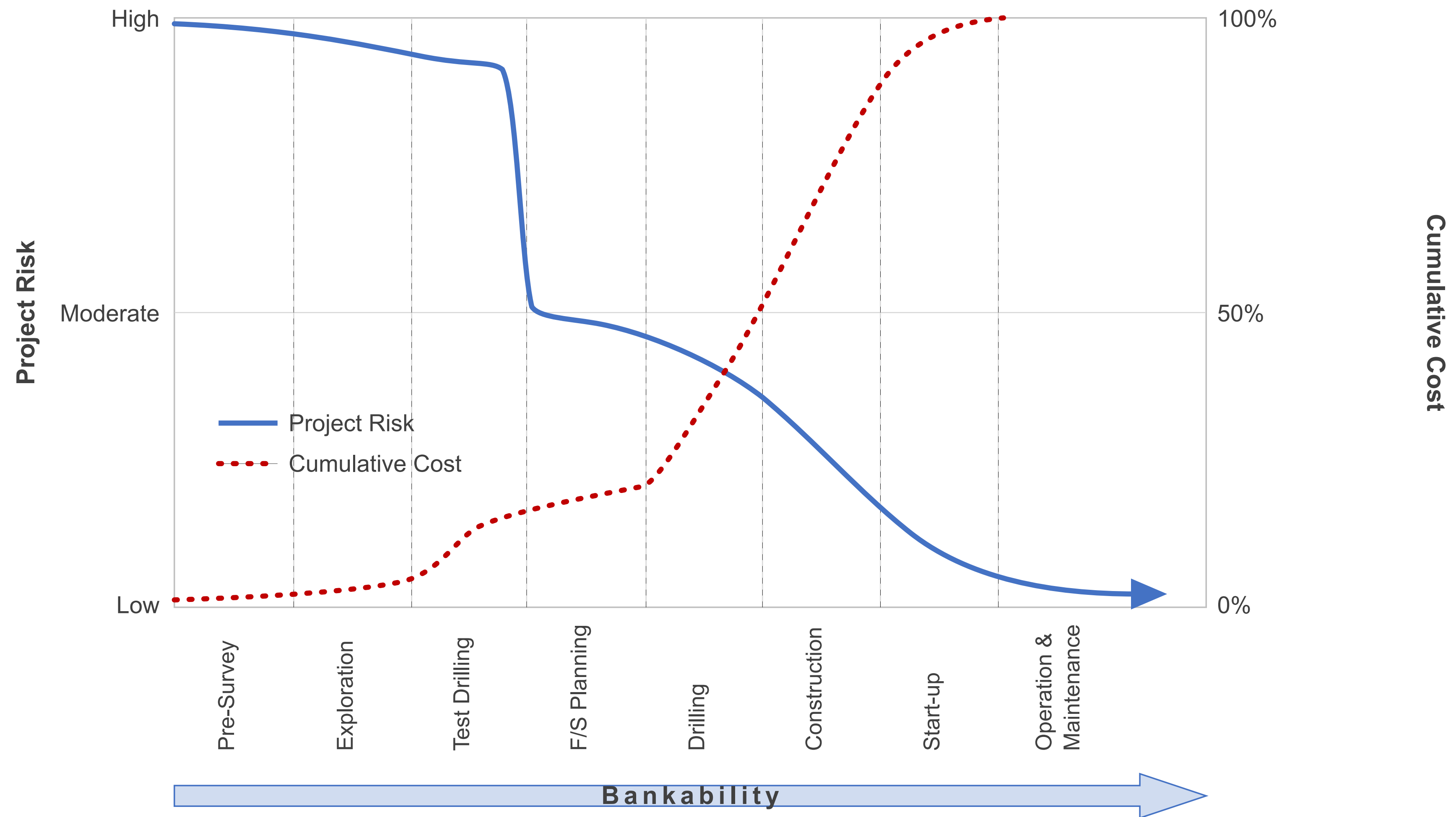
Team & capability

Equipment delays

Operational events

75% CHANCE OF RAIN

Typical energy project risks and bankability



Investors manage risk through diversification

One large position

Concentrated risk

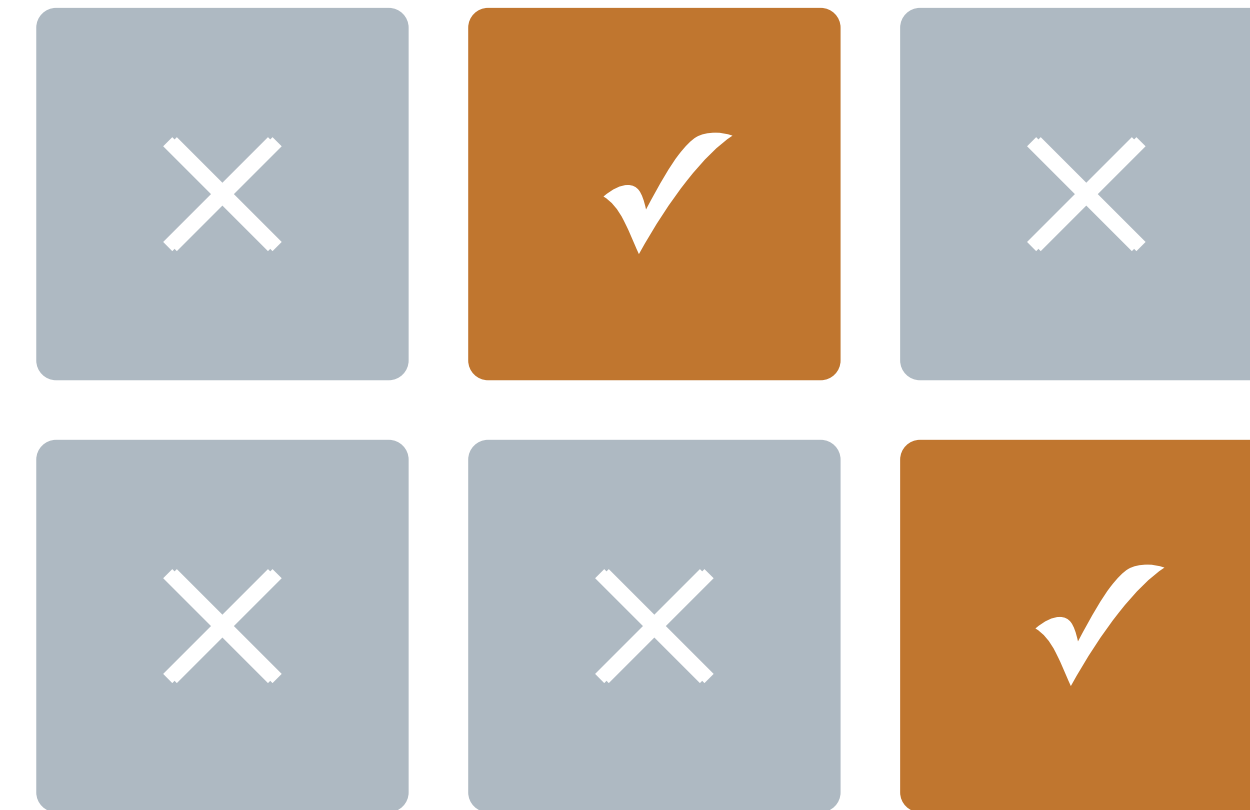


All-or-nothing

Total loss more likely

Many small positions

Diversified risk



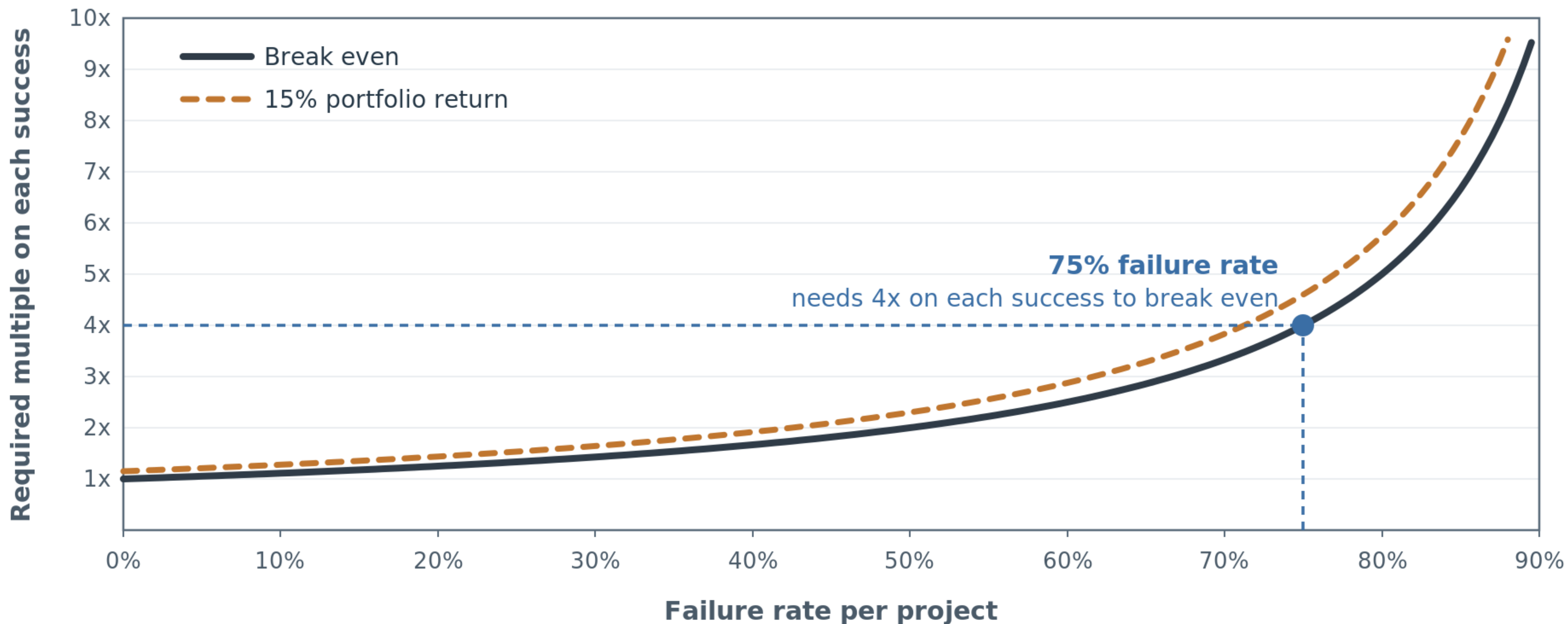
Failures are survivable

A few successes (orange) more than cover the failures (gray)

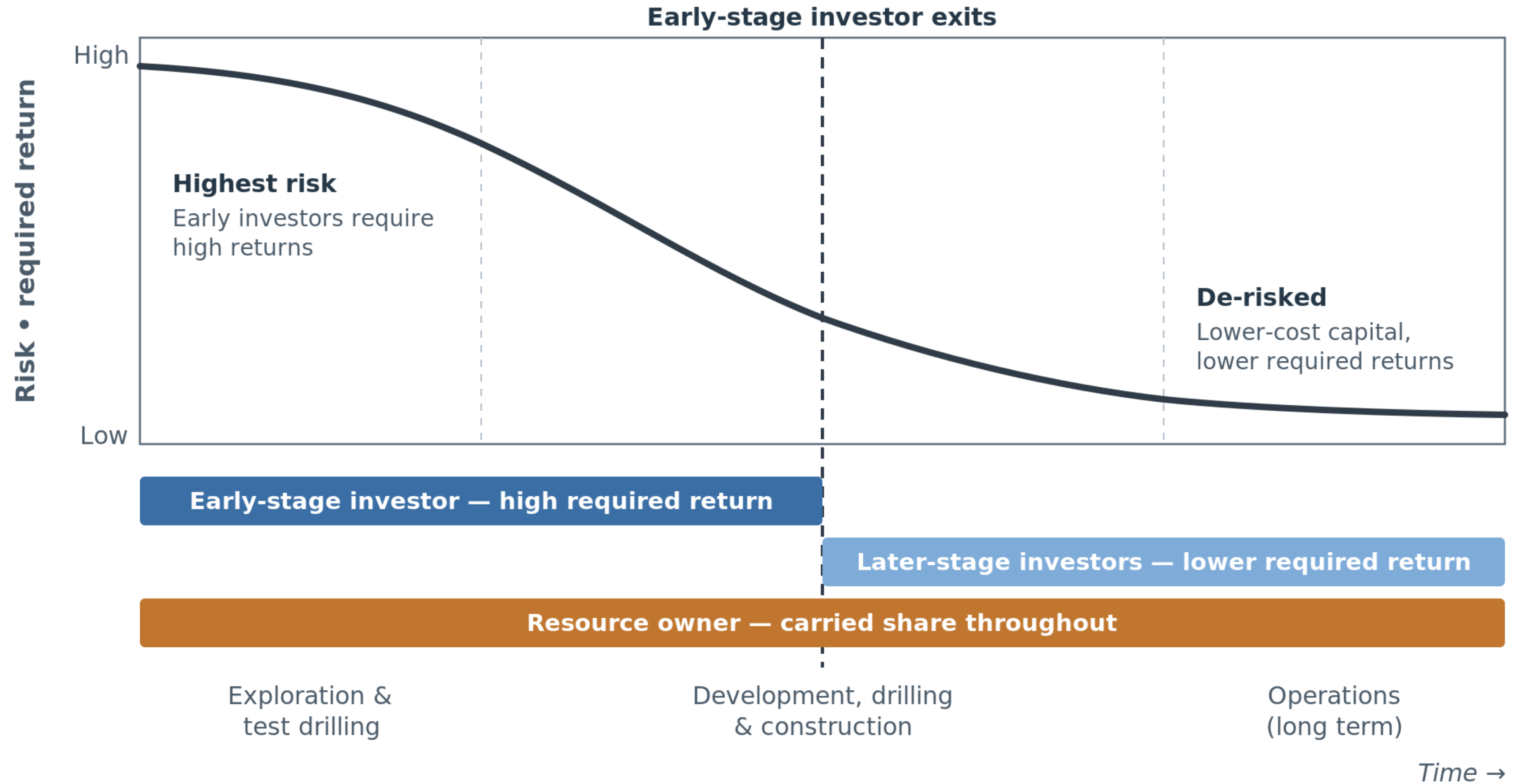
Same capital, same odds per project — but spread across many projects, returns become predictable and no single failure is fatal

Required return on each success vs failure rate

Diversified portfolio of independent projects; failures assumed to lose all capital



Investment risk and investor staging over the project lifecycle



Illustrative — investor mix, required returns, and exit timing set by project agreements

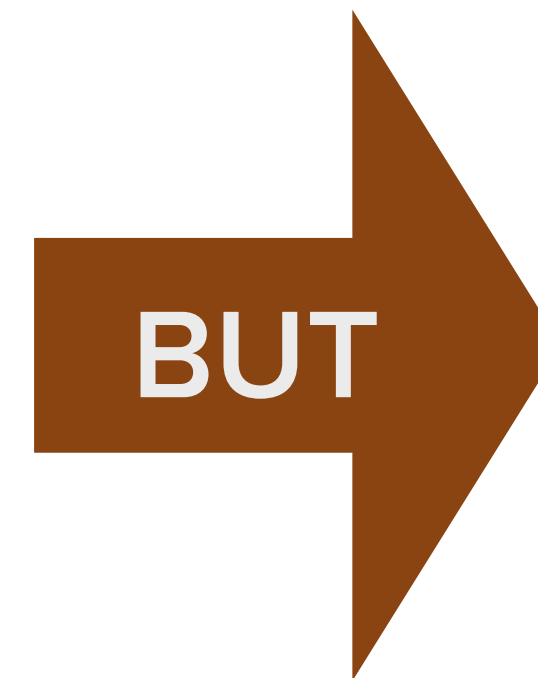
How to unlock investment?



Risks may not suit
Maori capital

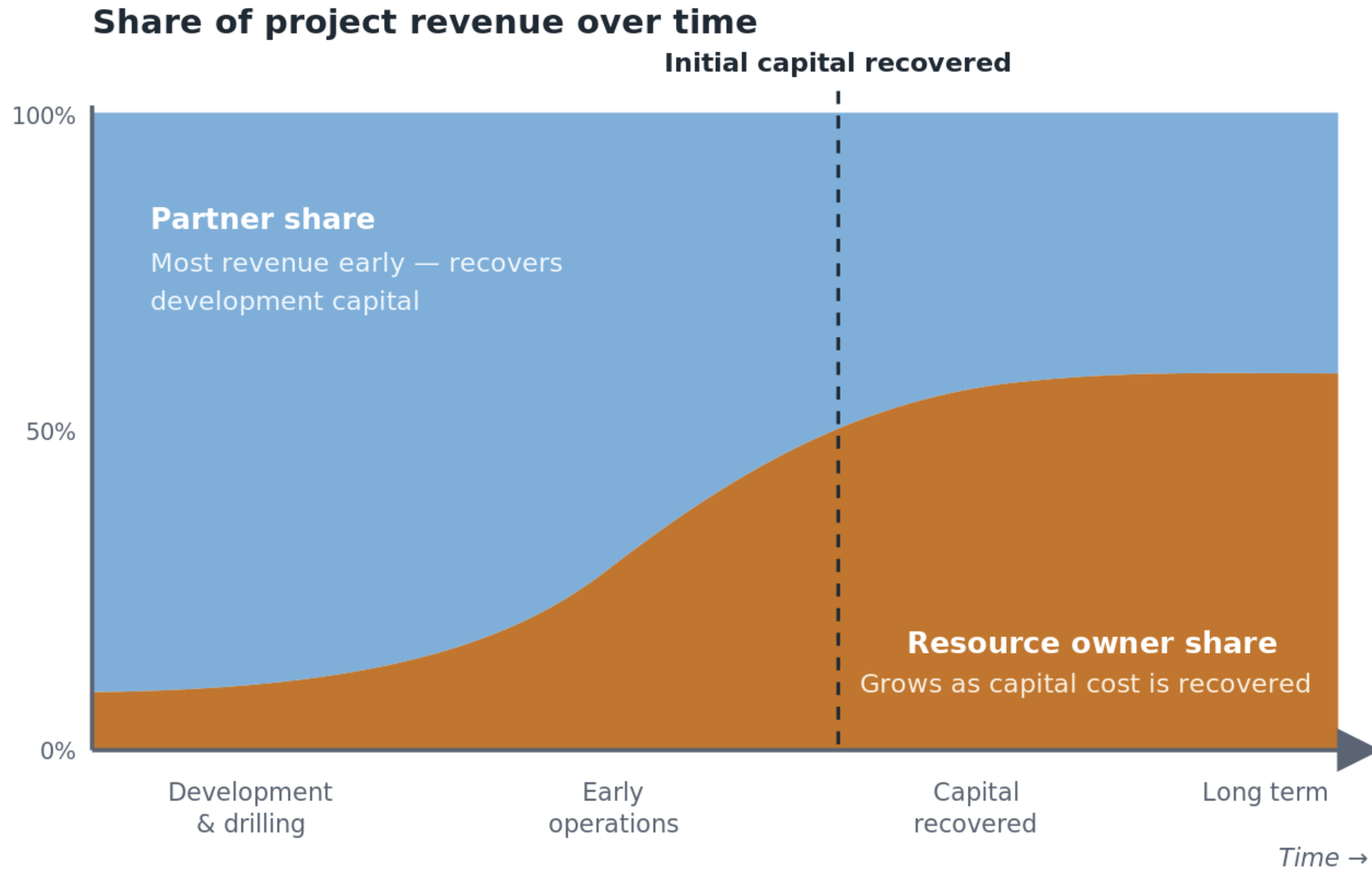
Awkward to spread
capital across projects

Partners want
minority exposure



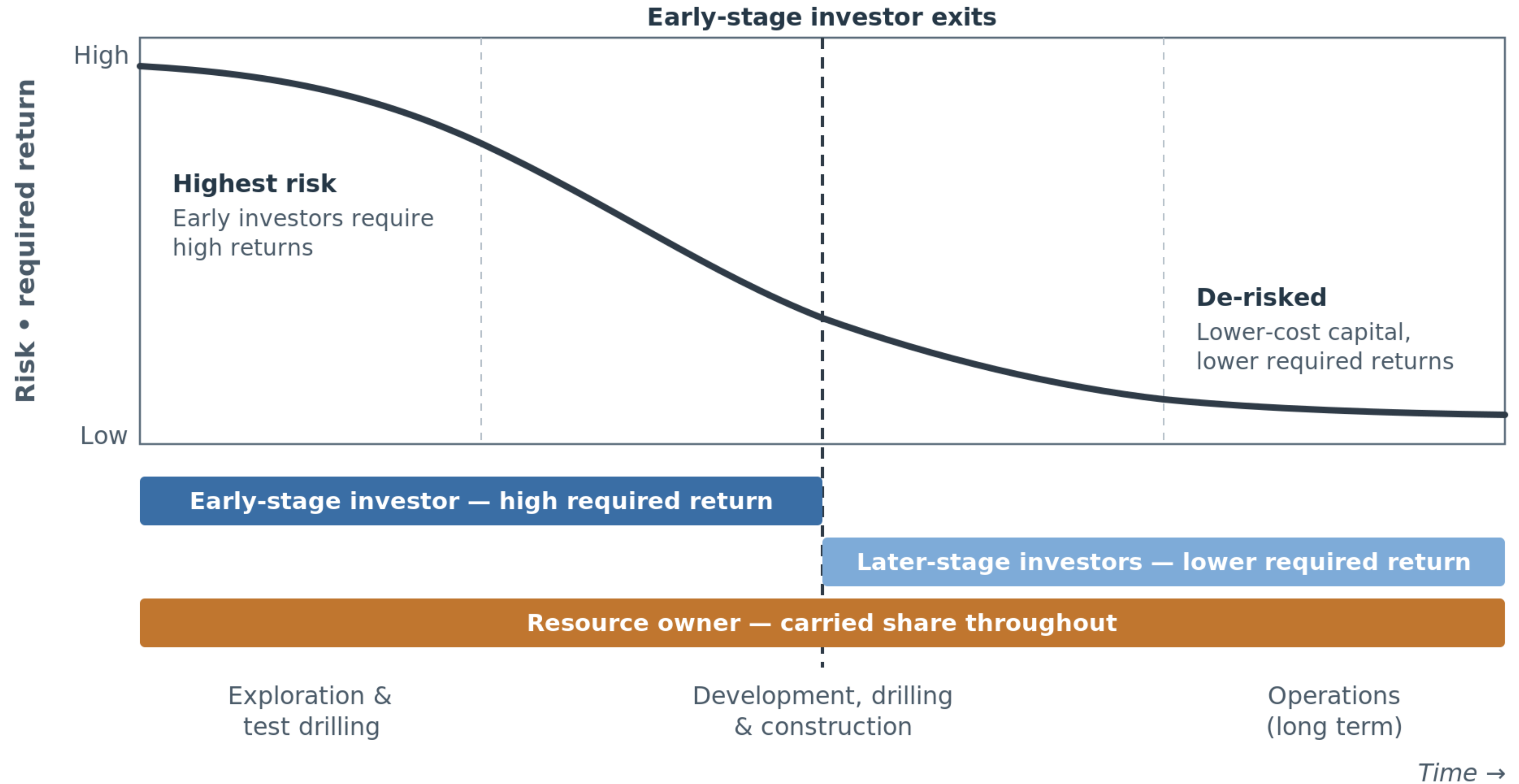
Long-term asset
owner.

Simple financing model



Illustrative shares — actual split set by JV agreement

Investment risk and investor staging over the project lifecycle



Illustrative — investor mix, required returns, and exit timing set by project agreements

Example of a model

