

roebling

Faster To FID

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99.5%

of capital projects deliver late, over budget, or underperform. ¹

80–99%

of projects that start FEL-1 never reach FID. ^{1,2}

Why? Projects are Risky!

BUILD

Can you build it?

Will project be built on-time and on-budget?

ASSOCIATED RISKS

Construction	Logistics
Force majeure	Management
Interface	Permitting

MAKE

Can you make stuff?

Will project produce product at expected rates and with expected costs?

ASSOCIATED RISKS

Basis	Market
Environmental	Operations
Equipment	Regulatory
Force majeure	Scaling
IP	Supply
Logistics	Technology
Management	

SELL

Can you sell the stuff?

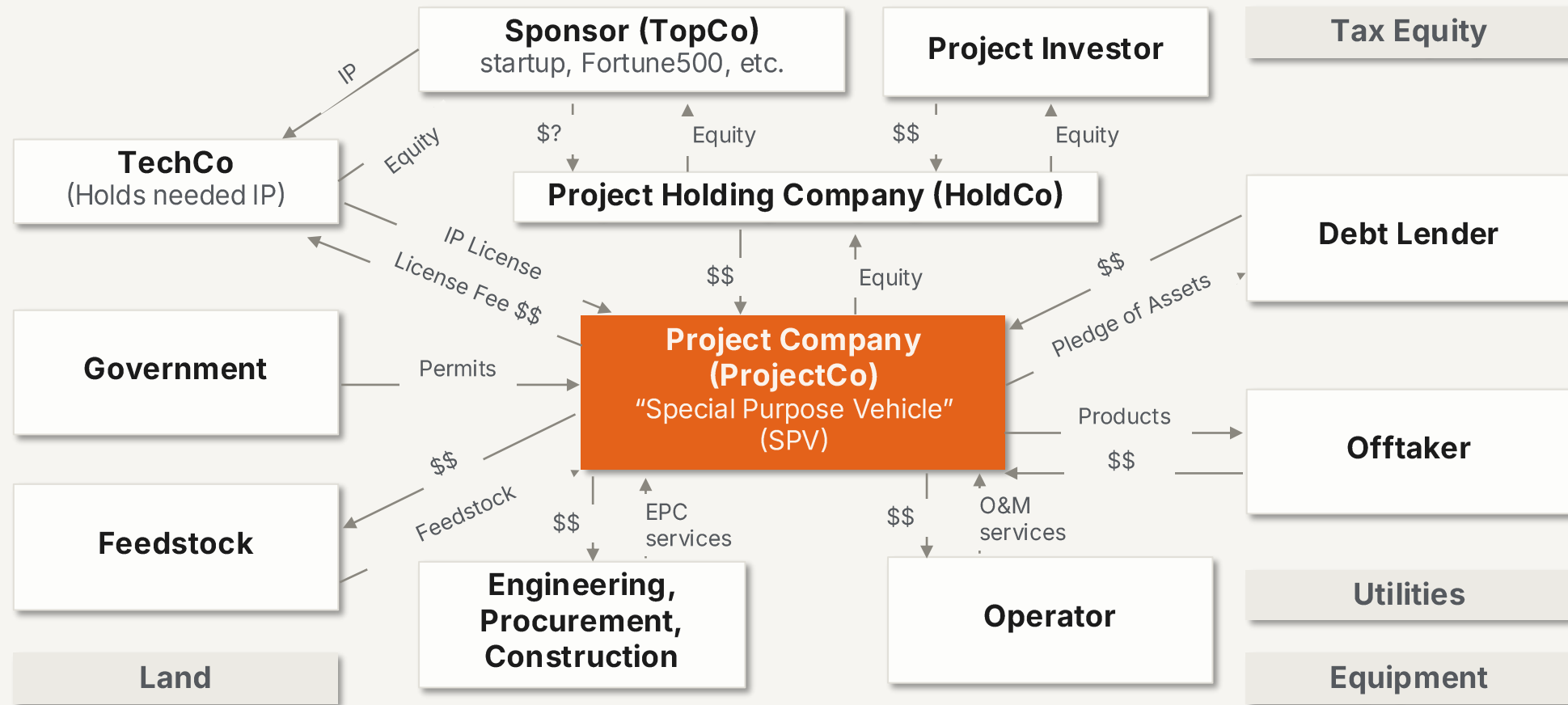
Will a buyer purchase the product at expected price?

ASSOCIATED RISKS

Basis	Offtake
Logistics	Regulatory
Market	

Project financing exists to transfer risks.

A simplified view



The typical data room can't size the risk.

DATA ROOM

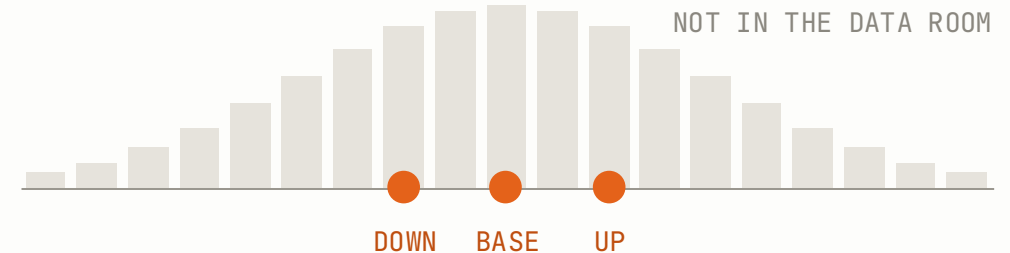
The financial model isn't linked to the process model.

☐ Financial model.xlsx	SPONSOR
☐ Process model	ENGINEER
☐ Cost estimate.pdf	EPC
☐ Technology report.pdf	INDEPENDENT ENGINEER
☐ Offtake term sheet.pdf	OFFTAKER

RISK ANALYSIS

No real sensitivity on the key parameters. No distribution of outcomes.

A base case, maybe an upside and a downside. That is often the whole risk analysis.



You can't tell how big each risk is, or what it would do to the project.

Projects invariably change.
The legacy process to design them hasn't.

30+ yrs

The FEL stage-gate process was designed in an era with minimal compute. The constraints have changed, but the process hasn't.

A project changes as you develop. That's the point.

In the legacy process, almost every revision is a change order, a cost adder, and a 6+ week cycle.

Each risk is studied by a different party, in a different document, on a different schedule.

You can't de-risk a moving target with static engineering.

~~6+ weeks~~

Hours

Time to see what a change does to your capex, your opex, and your IRR.

Change one input, it flows everywhere.

Flowsheet, process model, equipment sizing, design basis, cost estimate, financial model.



A new kind of engineering firm.

PEOPLE



Senior engineers and
subject matter experts

Decades of first-hand experience
in your process, or the closest one
to it. 100+ specialists behind the
core team.



PLATFORM



Proprietary AI
grounded in physics

AI does the assembly. The
solver computes. Every
number traces to its source.



RESULT



Faster to FID with
greater certainty.

Better planning creates better outcomes.

Bring us your project!

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