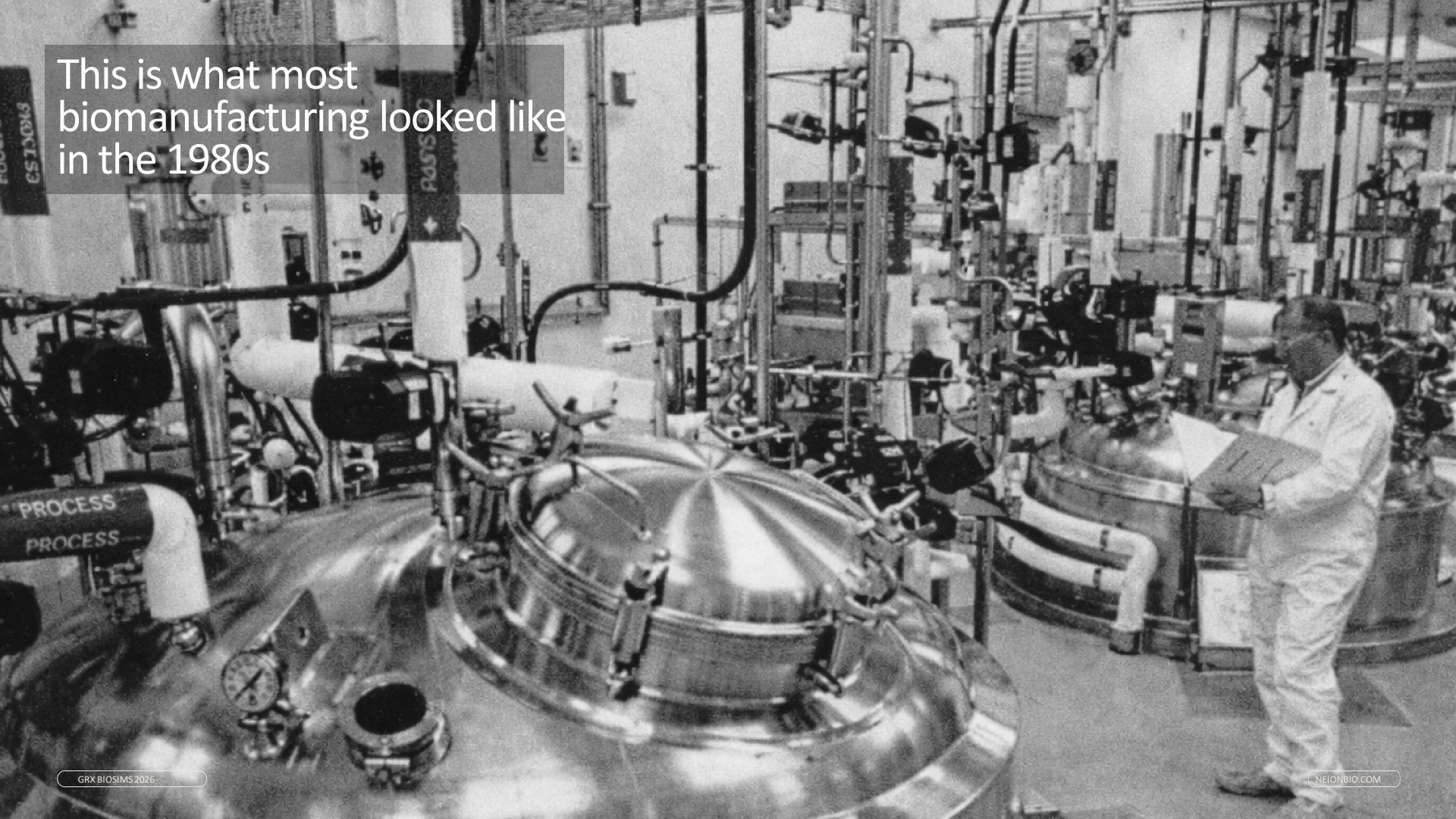


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200 million years of evolution.
Frontier genetic engineering.
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DO NOT DISTRIBUTE


This is what most biomanufacturing looked like in the 1980s
PROCESS
PROCESS

This is what most biomanufacturing looks looks like today



$200-400/g

COGs

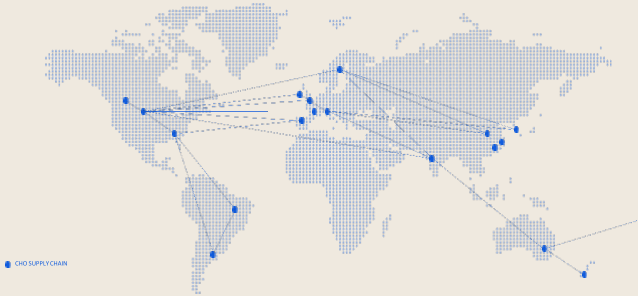


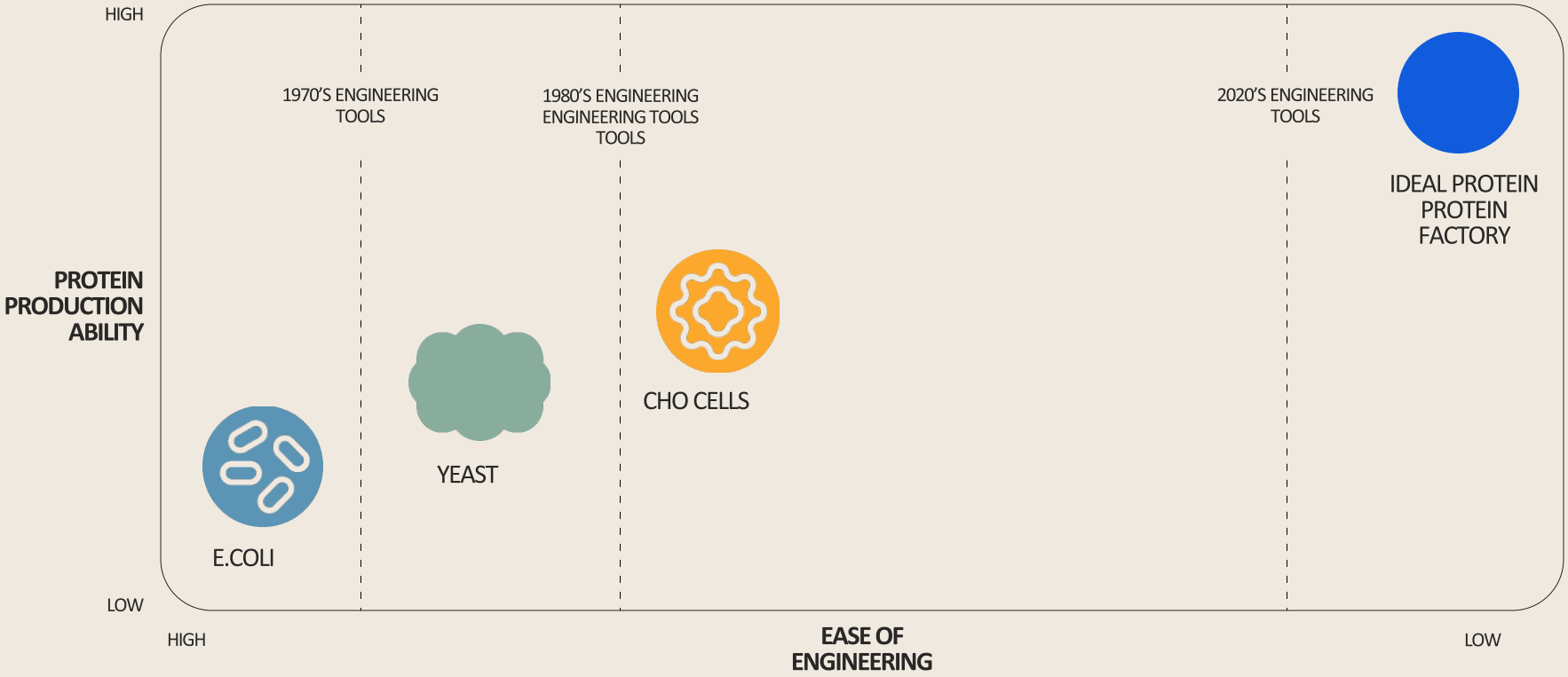
$500M-1B

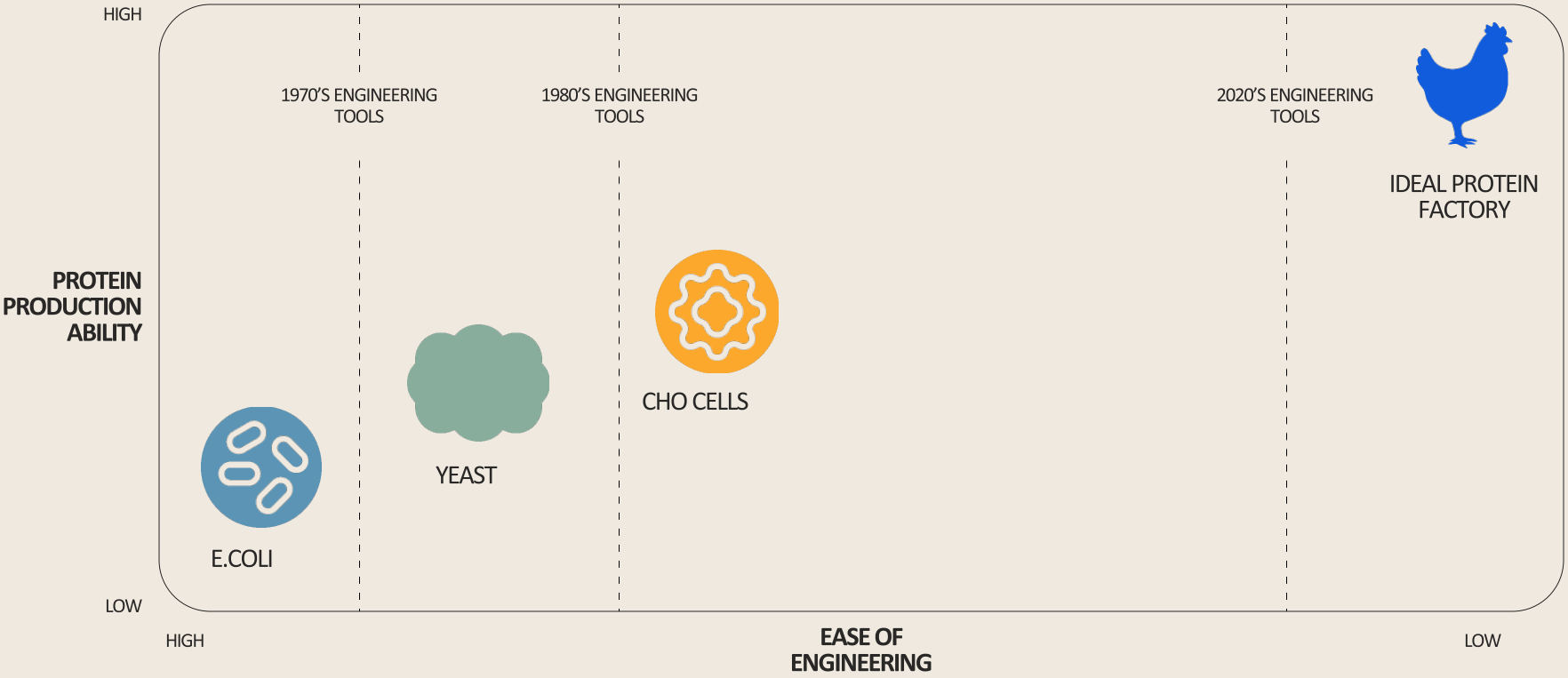
CAPEX

100s

INPUTS, EX-US



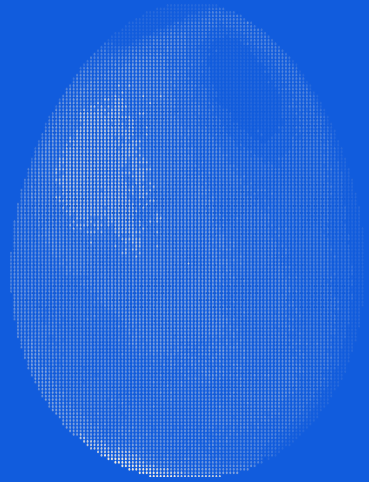

HIGH
1970'S ENGINEERING TOOLS
1980'S ENGINEERING ENGINEERING TOOLS TOOLS
2020'S ENGINEERING TOOLS
IDEAL PROTEIN PROTEIN FACTORY
PROTEIN PRODUCTION ABILITY
CHO CELLS
YEAST
E.COLI
LOW
HIGH
EASE OF ENGINEERING
LOW


HIGH
1970'S ENGINEERING TOOLS
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E.COLI
LOW
HIGH
EASE OF ENGINEERING
LOW

Chickens are nature’s best protein factories



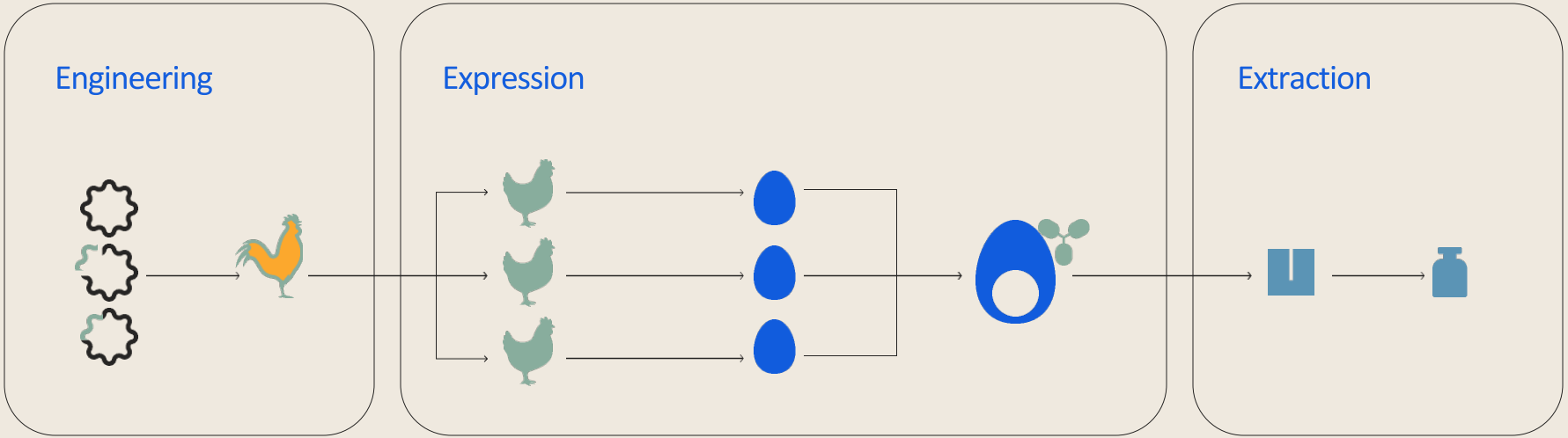
300 eggs per year each containing 6g of protein



Naturally sterile , protein stabilizing, stabilizing, cell free matrix

Eggs are ideal protein vessels

We use genetic engineering to farm medicines

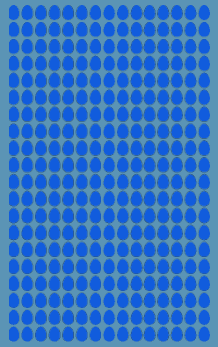


We could produce the world’s supply of Humira with a small farm

1 chicken



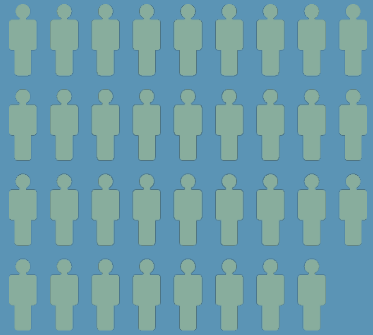
~300 eggs per year



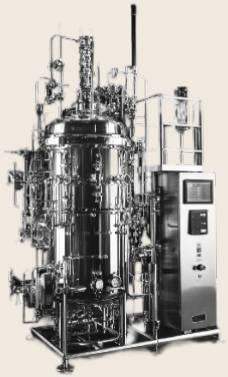
~900 doses per year



~35 people / year

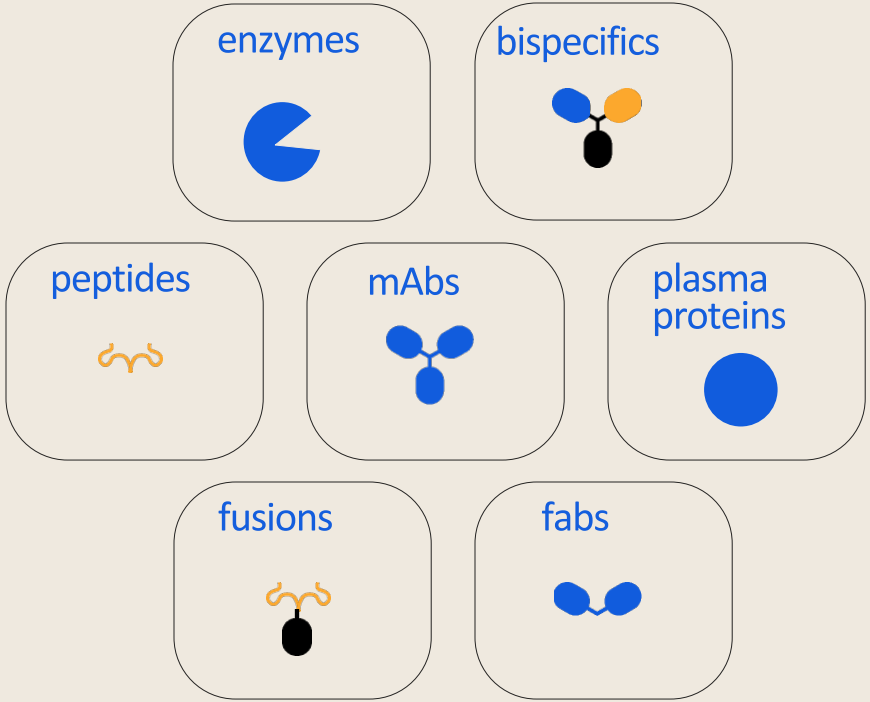


Cheaper, More Scalable, and More Resilient

Traditional CHO Infrastructure		Raptor™ Platform
	COGS	10X LOWER
	CapEx	100X LOWER
	Scale-Up Risk	ZERO SCALE-UP RISK
	Supply Chain Resiliency	SIMPLE INPUTS
	Scale-Up Speed	3-6X FASTER
	Batch-to-Batch Variability	LOW
	Purification	SIMPLE, CELL FREE
	PTMs	COMPLEX N-GLYCOSYLATION



Cheaper, More Scalable, and More Resilient





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