

# Plausible tomorrows 2035-2049



Vinod Khosla  
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**Experts extrapolate the past... and do harm when  
people believe them!**

**Skeptics never did the impossible**

# Every 5 years there is a major improbable change

## COULD EXPERTS IMAGINE...

1985: a PC in every home

1990: email for grandma

1995: the internet, Google

2000: pervasive mobile

2005: facebook / iphone

2010: AirBnB, Uber, Tesla

2015: remote work, Zoom

2020: AI

# Large change is driven by entrepreneur led companies

**SpaceX, Rocketlab**

**Tesla**

**Amazon**

**AirBnB**

**Uber**

**Genentech**

**Sun**

**Juniper**

**Microsoft**

**iPhone**

**Waymo**

**Google**

**OpenAI**

**Twitter, Facebook, Youtube, Netflix**

**Entrepreneurs, with passion for a vision, invent  
the future they want**

# **#1: Expertise will be near free**

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**We will be capable of having near free AI doctors for every person & AI tutors for every child, 24x7**

## **#2: Computer use will grow expansively**

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**There will be a billion+ programmers all “programming” in human language, dramatically increasing the scope of computers**

**Computers will adapt to humans, not humans to computers**



## **#3: Internet access will be mostly by agents**

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**Most consumer access of the internet will be agents acting for consumers doing tasks and fending off marketers and bots. Tens of billions of agents on the internet will be normal**

## **#4: AI will play a large role in entertainment & design**

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**Music and entertainment will be plentiful & personalized for you & your mood! Diversity of content & creativity will increase**

**The celebrity-fan relationship won't change**

## **#5: Scientists will be supercharged**

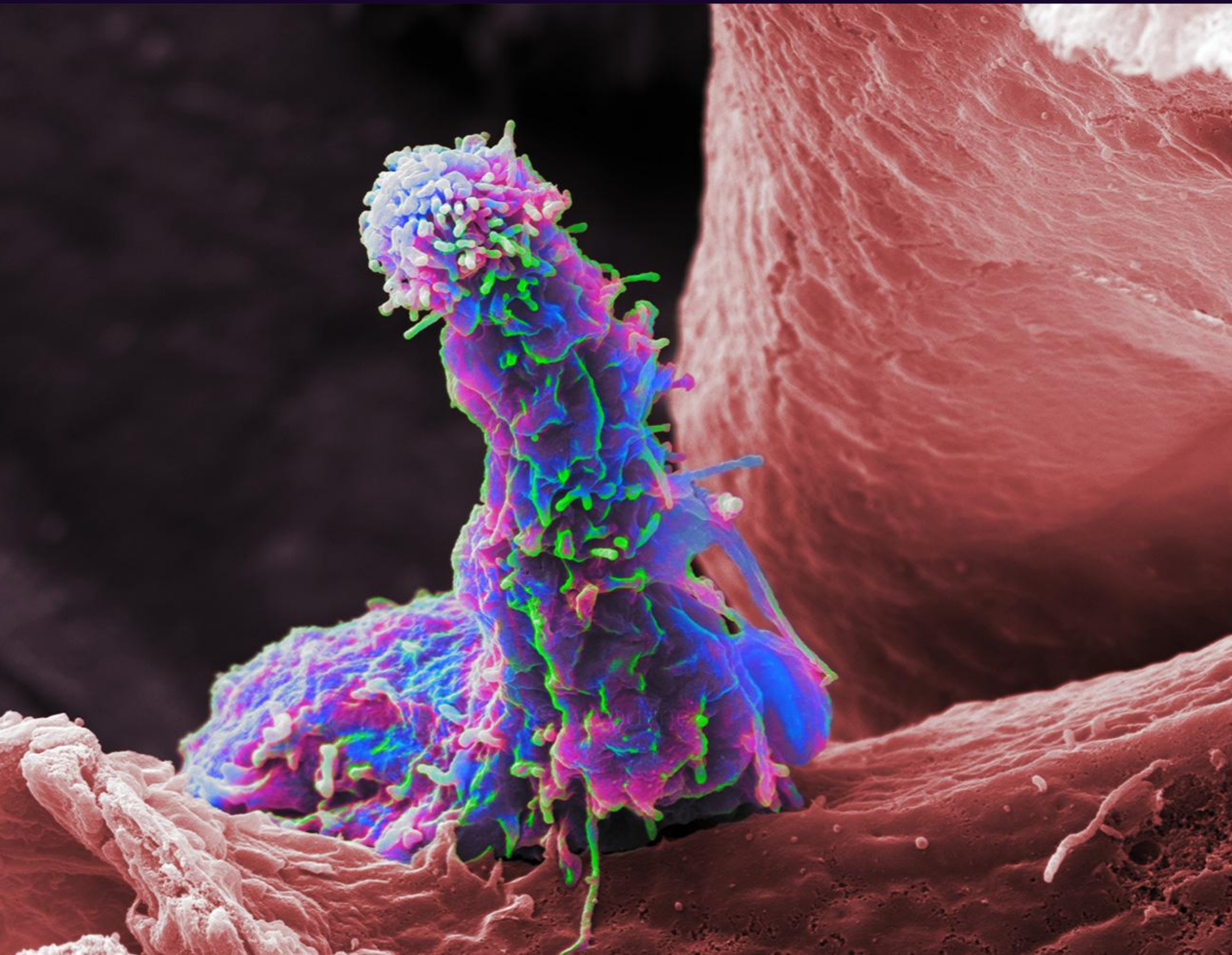
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**AI scientists, working alone or with humans, will become super scientists, able to 10x or 100x their capability, creativity, and volume of research**



# #6: From the practice to the science of medicine

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We will be capable of providing precision care based on patients' -omics, as well as AI models for each individual, enabling simulation of each body for therapeutics, dosages, etc



## **#7: Labor will be near free**

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**We will have a billion bipedal (and other) robots  
freeing humans from the servitude of  
undesirable jobs**

## **#8: Manufacturing and bio manufacturing**

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**We will have text to product manufacturing capability enabling hyper-personalization and democratization**

**Manufacturing and bio manufacturing will be intelligent**



## #9: Cars could be displaced in cities

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**We could replace majority of cars in cities with personal autonomous transit as on-demand, affordable, public transit, increasing street throughput dramatically**







## **#10: Flying will be faster**

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**We will have Mach 5 planes that get us from NYC to London in 90 minutes – on sustainable aviation fuel, making the world closer!**



# **#11: We will have new food & fertilizers**

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**We will have much better alternate protein production to replace traditional animal protein, & “green” fertilizer. And taste will far exceed that of traditional cows!**



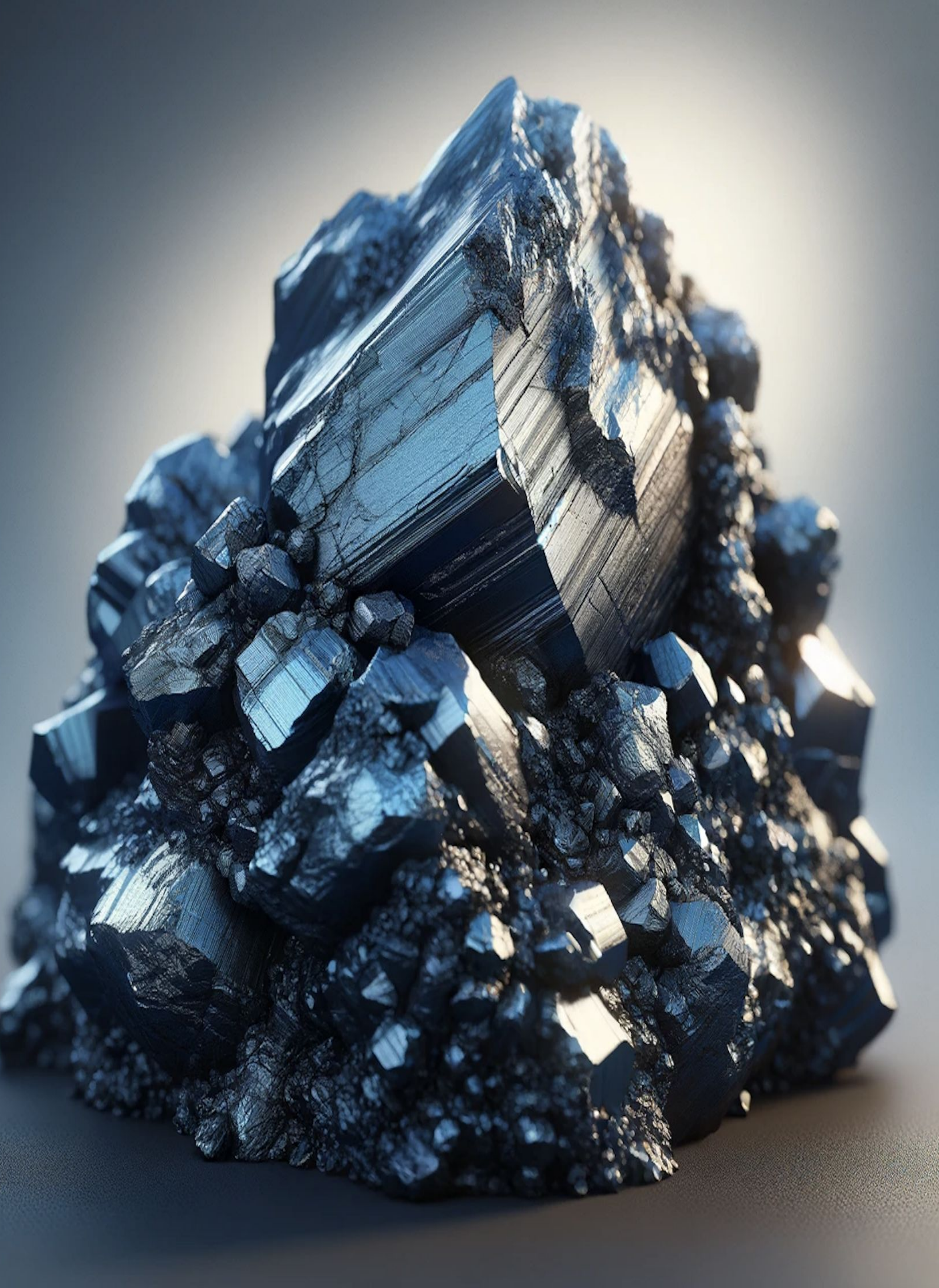


## **#12: There will be clean, dispatchable electric power**

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**By 2050, fusion boilers will retrofit and replace coal and natural gas boilers reducing the need to build whole new fusion plants. Superhot geothermal >400C is also a real alternative**





## #13: Resources will be plentiful

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**We will discover more natural resources than we consume & prove resource doomers wrong on lithium, cobalt, copper... even water**



## **#14: Carbon will have solutions ... if we have time**

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**Carbon emissions could be a smaller issue because entrepreneurs will develop & scale better technologies for cement, steel, agriculture, transportation, power production, DAC, etc**

**A few entrepreneurs, aided by policy, can make  
this future happen**

# ... things that might slow down predictions

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**Incumbent resistance**

**Politicians capitalizing on fear for personal / populist gain**

**Tech failures or delays**

**Financial market conditions may kill a good idea**

**Anti-tech sentiment**

**Luddites hijacking the would-be advocate**

**A few bad AI-related outcomes that get sensationalized**

**Left field events**

**Instigators/entrepreneurs may not show up to make it happen**

**Abundant, awesome, technology-based, “possible tomorrows” are likely if we allow them to happen**

**...and entrepreneurs make them happen!**

***“The real problem of humanity is we’ve got paleolithic emotions, medieval institutions, and god-like technologies.”***

**-Edward O. Wilson**

**...problem or opportunity?**



