

Plausible tomorrows 2035-2049



Vinod Khosla
April 2024

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

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

#1: expertise will be free

**We will be capable of having accessible
AI-based near free tutors for every child, and
doctors for every citizen 24x7**

#2: labor will be near free

**We will have a billion bipedal (and other) robots
freeing humans from the servitude of
undesirable jobs, creating a larger industry than
the auto industry**

#3: computer use will grow expansively

There will be a billion+ programmers all “programming” in natural, human language, dramatically increasing what can be done with computers. Computers will adapt to humans, not humans to computers, democratizing computers

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

Music and entertainment will be plentiful, and personalized for you and your mood! Content creation would be commoditized, but not change the celebrity-consumer relationship

#5: internet access will be mostly by agents

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

#6: there will be clean, dispatchable electric power

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

#7: cars could be displaced in cities

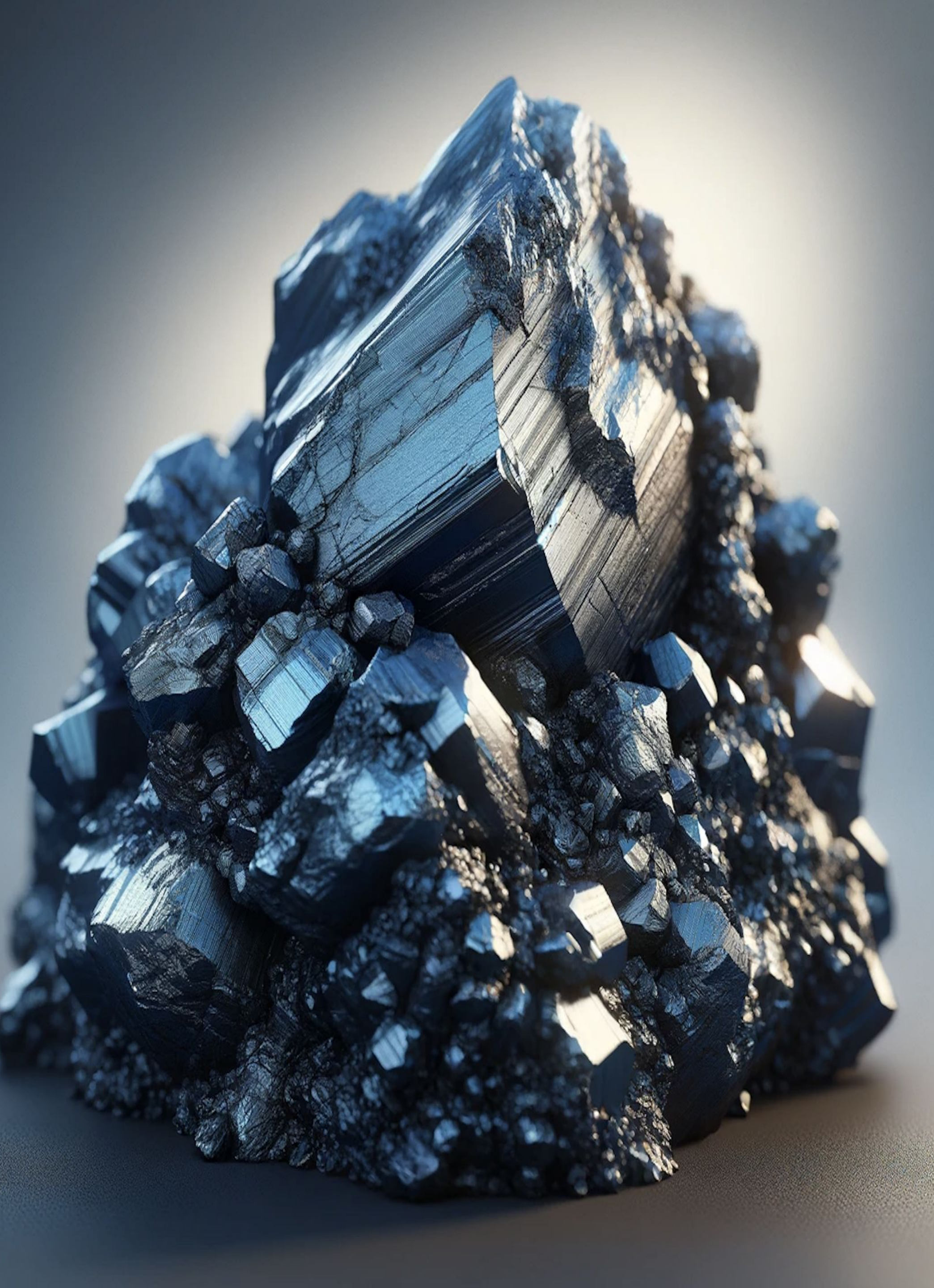
We could replace the majority of cars in most cities with personal autonomous transit as on-demand, affordable, public transit with little public financing. This will reduce congestion, increase city street throughput





#8: flying will be faster

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



#9: resources will be plentiful

We can discover more natural resources than we consume & prove resource doomers wrong on lithium, cobalt, copper...

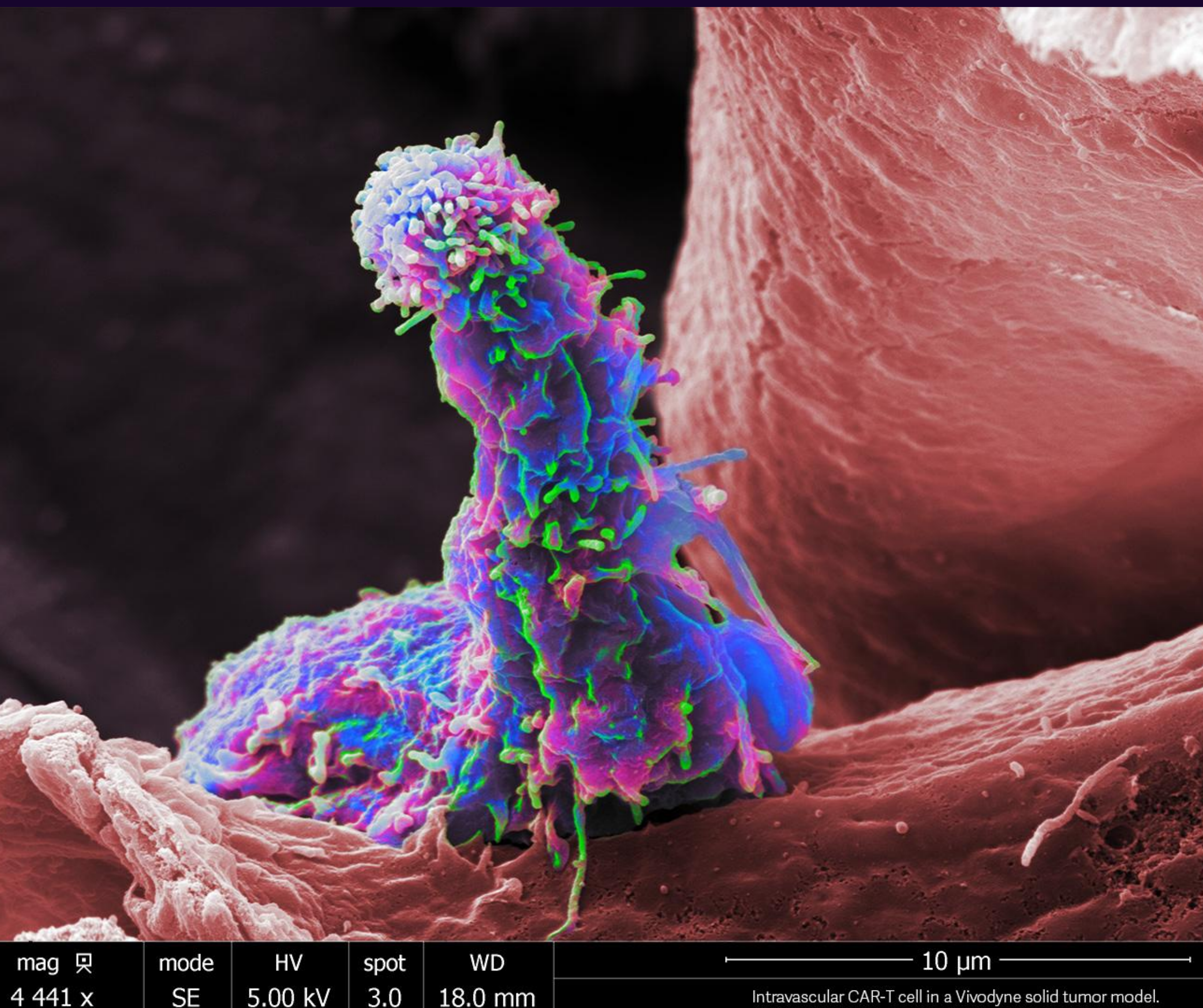
#10: we will have new food & fertilizers

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



#11: from the practice to the science of medicine

We will be capable of
providing precision care
based on patients' -omics,
as well as AI models for
each individual enabling
N=1 personalized
simulation, therapeutics,
drug dosage



#12: carbon will have solutions, if we have time

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

A few entrepreneurs, aided by policy to prevent short termism, can make this future happen

... things that might slow down predictions

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

