

Mega Trends



Big Ideas by Cathie Wood, CEO of Ark Invest

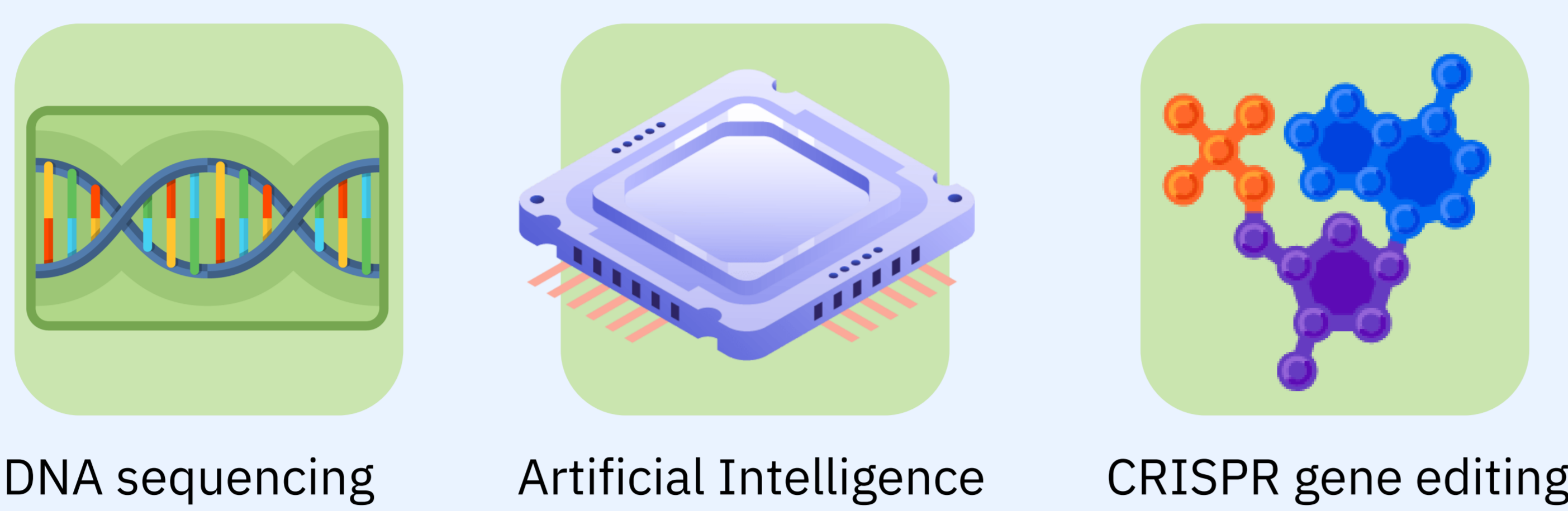
"Technologically enabled innovation - better, cheaper, faster, more productive, more creative, especially solves problems."

Early Creative Destruction



2003 It took **\$2.7 billion and 13 years** of computing power to sequence the first whole human genome.

We believe that we will be able not only to reprogram our genome to correct the programming error, but we will also be able to discover when our bodies are setting up to move into a disease state. Thanks to the convergence of:



Present
We're down to \$500 per whole human genome in a few hours of computing power.

Near future
Perfection will take 20 to 30 years. But we do believe that the next ten years are going to bring such hope already.

Here in the United States, we **spend nearly 20% of our GDP on health care**, double the rest of the world.

Our biggest liability as a country here in the United States is the **medical retirement liability**.

We believe that liability, as we're actually curing disease and identifying disease and targeting our therapies more appropriately, more specifically, and more precisely, **our medical retirement liabilities are actually going to go down.**

2014 **Founded Ark Invest**
WHY: Not enough research and investing in Innovation in the public equity markets.

2015 We gained our first exposure to **Bitcoin** in 2015 when it was a \$6 billion network. **Present 2021** It's about a **trillion dollar network** in a \$2 trillion new asset class.

Bitcoin is the first private, global rules based monetary system that the world has ever known.

Currently, at **\$60,000+** and we believe the number will be **\$200,000** if it were adopted fully throughout the emerging markets.

The President of El Salvador has given every one of his citizens \$30 worth of Bitcoin in Achievable wallet.

Only 1.2 million out of 4 million adults have banking accounts already. **Today, roughly 3 million have downloaded the Chivo wallet and are using it not just to get access to that \$30, but to do peer to peer exchange.**

2019 Transformative Innovation Market Cap is **\$7 Trillion** (less than 10% of the total public equity market cap) **2030** Projected Growth will be **\$220 Trillion** in market cap

Creative Destruction - Disruptive Innovation

We've never had five innovation platforms evolving at the same time

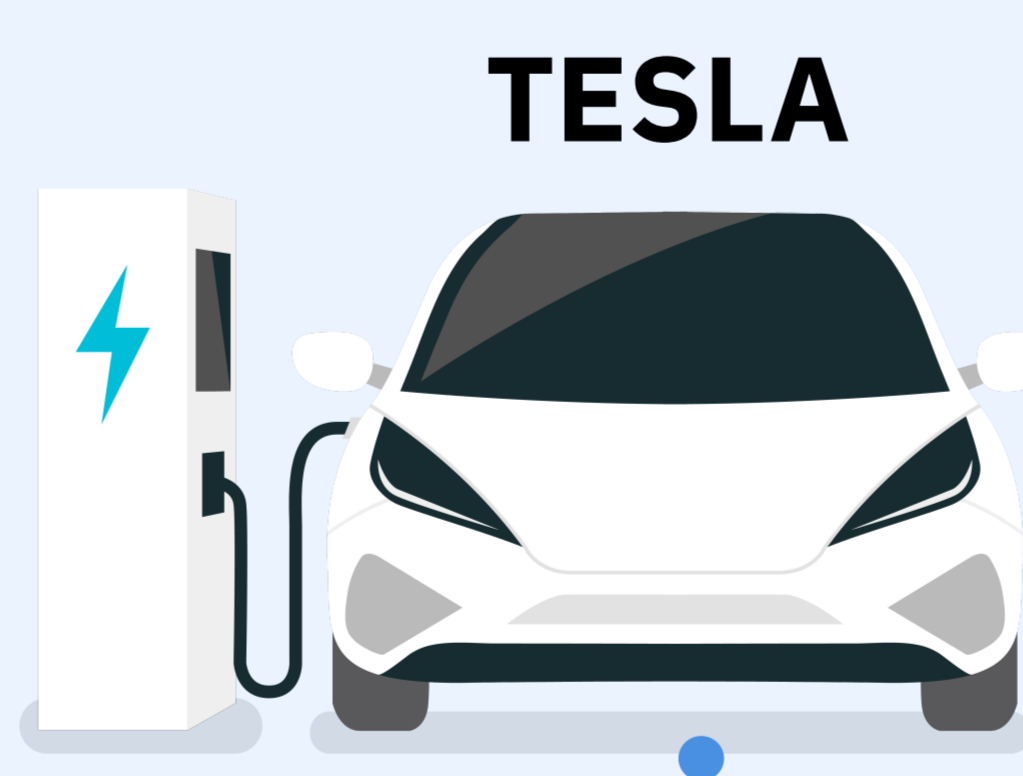


2021 Zero revenue **2030** \$10 Trillion globally in revenue
Autonomous Taxi Networks

Current Energy Crisis **The energy crisis is going to accelerate the shift towards electric vehicles.**

Energy prices and oil prices are much higher not because of the demand side but because of the supply side.

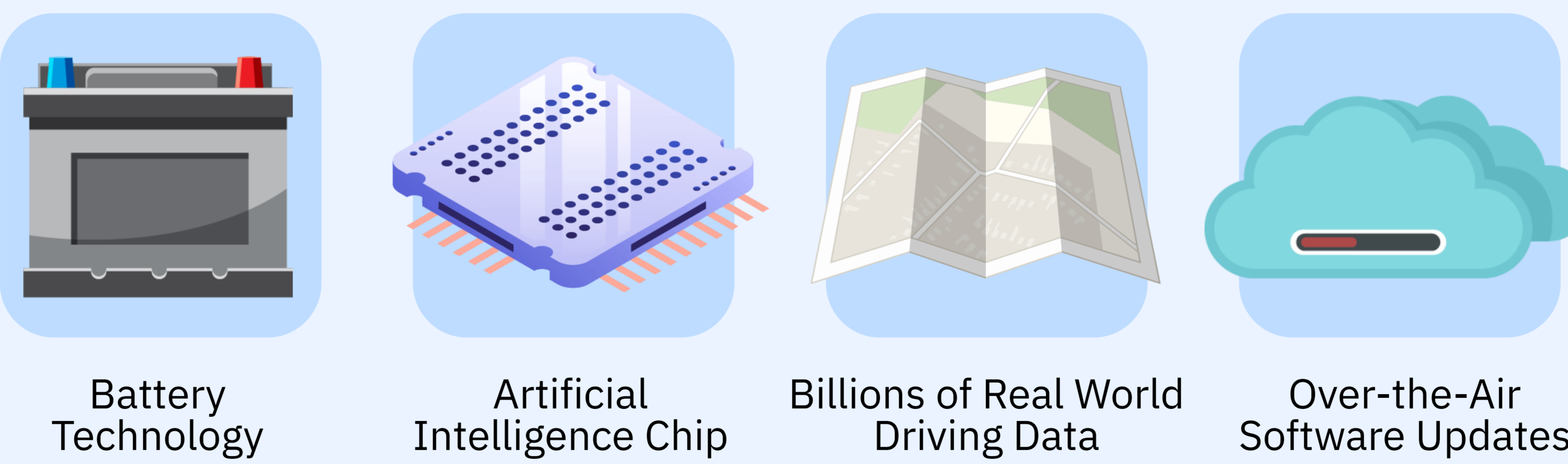
There is an accelerated shift towards electric vehicles to address the supply concerns.



Compounded at roughly **48% revenue growth per year for the last 5 years.**

Our forecast for the next ten years is in the 50% to 60% range. Depends if you take bull or bear case.

Four barriers to entry that seem to have gotten higher in Tesla's favor.



We believe **Tesla will take 25% of the total vehicle market in five years**, and we think electric will be nearly half of total vehicles sold.

Covid19 Pandemic A lot of people bought new and used cars with 60% increase in used car prices

They represent excess in inventory brought upon by the Corona Virus with many companies reporting decline in sales.

Technologically enabled productivity is going to accelerate. Productivity is going to accelerate. And to the extent wages are going up because of labor shortages.

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