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3rd QUARTER 2020

“The Future Is Faster Than You Think”

Future of health care via Peter Diamandis's talk, recent book

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Peter H. Diamandis, MD

Ok, so that is a pretty snazzy resume. Not only that but Peter has founded 22 companies and counting.

Due to the shutdown and lack of travel, an annual conference that lasts longer than we like to be away (especially during normal tax season) and is also costly, went virtual this year. It will be interesting

(see *Future*, Page 2)

Ian Bremmer, political scientist Effects of virus, geopolitical relations in future

Back in 2016 at a national conference (live, in person) we first crossed paths with Bremmer (a stand out thinker and political scientist) and wrote about his comments on the then coming election.

Fast forward to the virtual Strategic Investor Conference,

again an ill-timed and pricey conference that for over a decade we were on the fence in attending; but, virtually available due to the situation, we jumped on the chance, especially with transcripts, slide decks and downloadable MP3's of the event.

(see *Global*, Page 6)

INSIDE:

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• Tsunami of solutions could be coming is good news

• Healthcare, technology blend exponential fast for benefits

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Future expectations fast-tracked by necessity

(continued from Page 1)
to see if in years to come, virtual stays as an option. For us, the virtual option was terrific and offered the ability to attend a star-studded conference we would have otherwise passed.

What follows are the high points of Peter's presentation at the conference along with sprinklings of his book released in January, 2020, *The Future Is Faster Than You Think*, which we consumed via audio in order to get greater details on his thoughts.

While a variety of topics were discussed, from robots to automated cars, we wanted to focus only on the health care related topics. In true confession format, the conference occurring in April and with his book released in January, Peter commented that much of his book, which was

attempting to give a road map of the next decade, became stale due to the virus and the massive changes associated with the horsepower to find a cure.

If you read only the bold text below, which will summarize our findings, you should

gain the gist of what Peter is attempting to do and prove. After that, we will dig deeper into future expectations coming over the next 12-18 months and beyond, many of which will be fast-tracked by necessity.

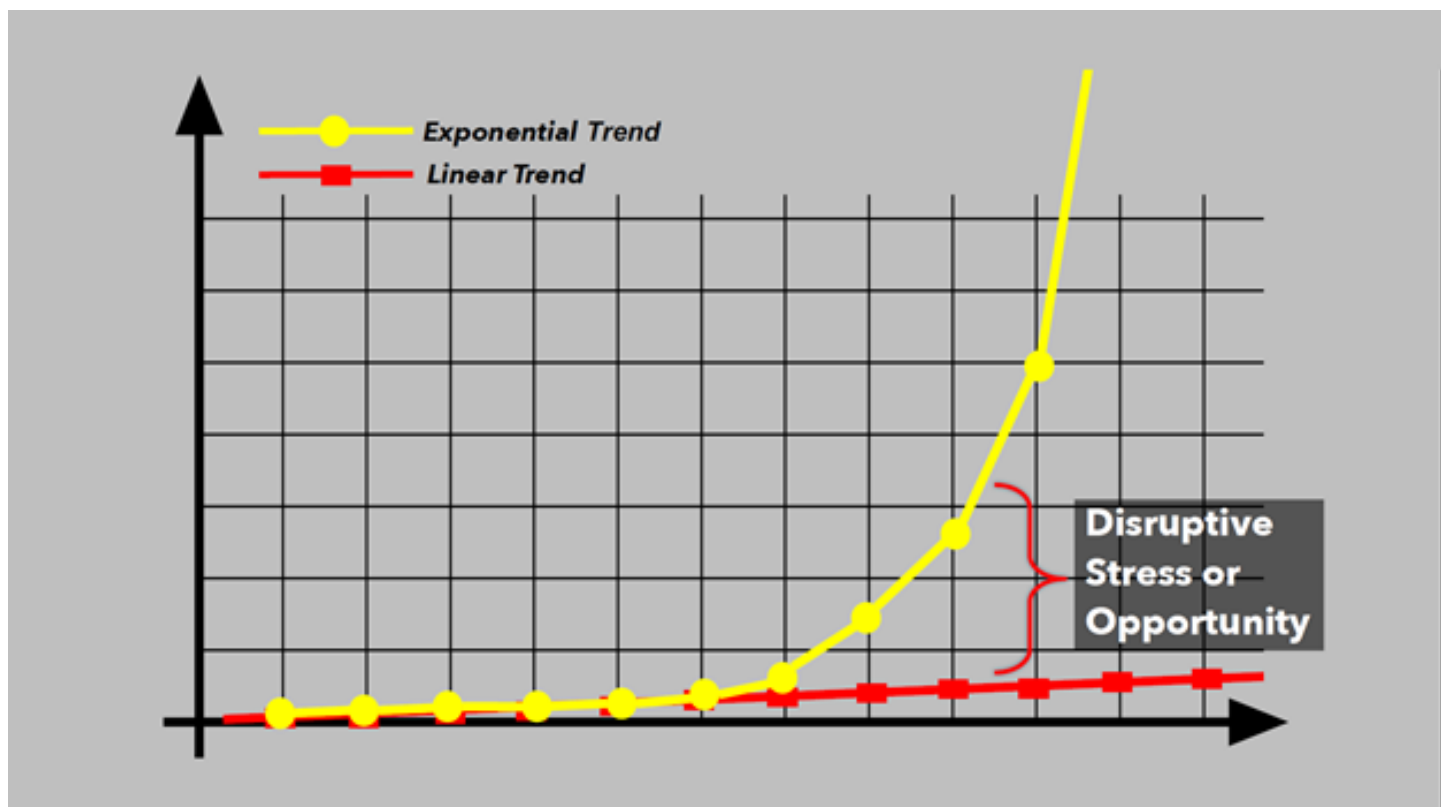
(see Tsunami, Page 3)

The human race has a singular enemy. Never before has there been unity across the globe to find a cure.

Between 100-200 million professionals are working on a cure. Peter estimates that not only will a cure be discovered but many multiple cures will be discovered due to the collective minds across the globe.

Pairings such as Johnson and Johnson with Google (blending of medical and technology minds) will fast track multiple cures and springboard medical and technological advances for years to come. Peter believes, due to the global urgency of the need to find a cure, the next 4-7 years of research and discovery will be pulled into the next 12-18 months, essentially fast-tracking a cure and speeding multiple discoveries on the heels of the cure.

More than a decade of discoveries will likely be pulled into the next 3-4 years in fast track urgency fashion, truly turning a terrible negative into a fantastic positive, given time for it to play out.



Tsunami of solutions could be coming is good news

(continued from Page 2)

This is the end of the CliffsNote version. Time to go deeper.

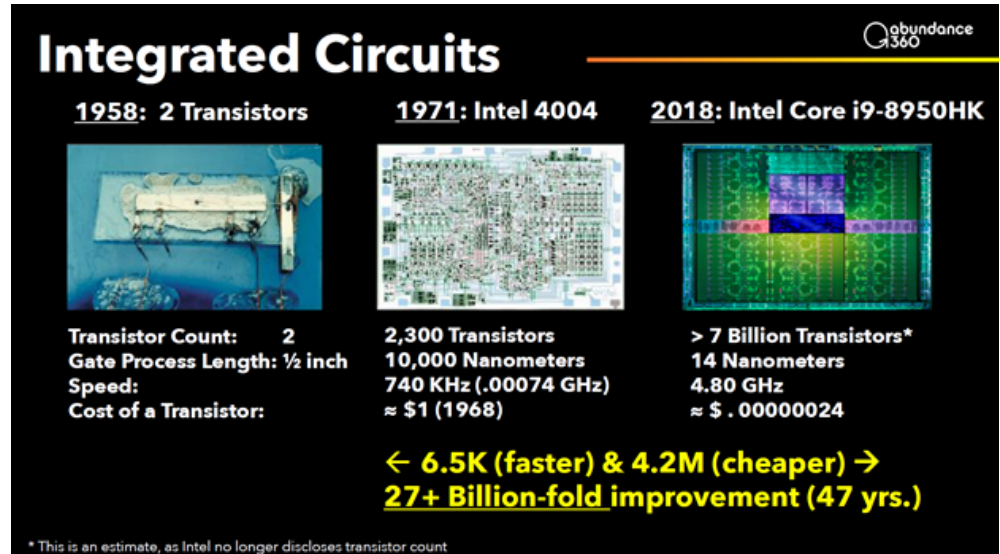
The world has a singular enemy.

According to Peter, there is good news in our current situation. The good news:

- (1) A singular enemy
- (2) A tsunami of solutions coming
- (3) It could have been much worse
- (4) Massive transformation coming
- (5) An opportunity to evolve your business

Given the gravity of the world's desire to find a cure (100-200 million researching), Peter fully expects that not only will a cure be found but multiple cures and due to the necessity, collaboration of the brightest minds around the world and cooperation of medical and technology companies occurring, fast tracking of technological medical advances are about to occur in the next year to year and one half.

Add the fact that many regulations are being loosened in order to help the fast tracking process, the future is very bright, according to Peter, and if we can look through the valley, a cure is fast approaching but the byproducts of collective minds, moving in fast



pace will change the direction of medicine and technology velocity and findings of cures.

Linear vs. Exponential-thinking, events and technology

As humans we think linearly (Red line in chart at bottom of Page 2). COVID-19 is an example of an exponential event. We went from just discovering to lockdown in an astonishingly fast period of time. Personally,

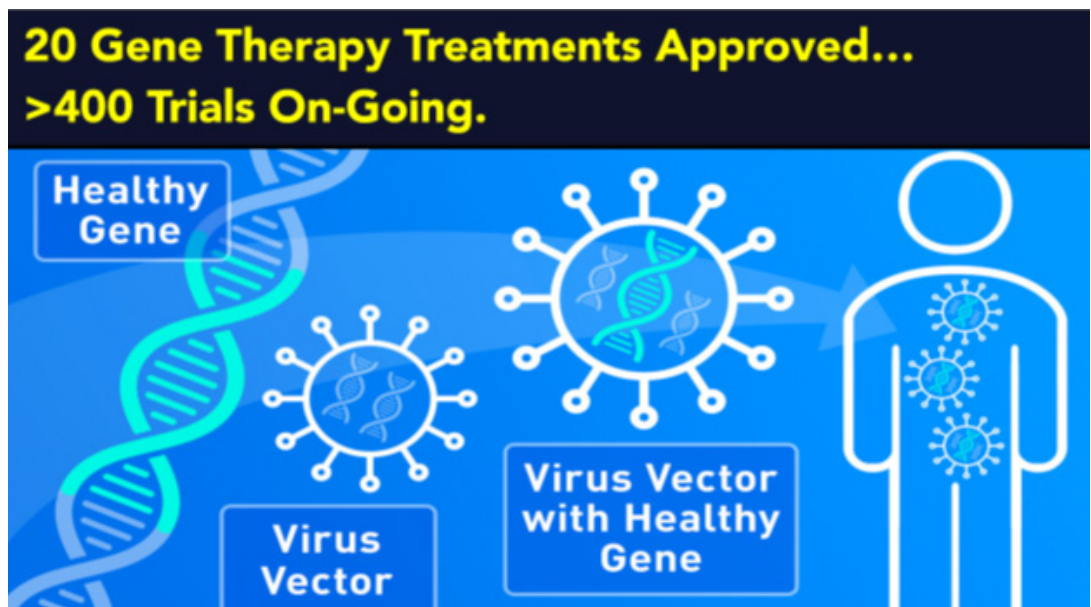
it was stunning how fast the exponential spread occurred.

Take note of how slow it starts but once it gets going, it rapidly outgrows linear movements.

Moore's Law – computer processing will double every two years

Moore's law, created by Intel founder in the early '70's, theorize the microchip processing power would double

(see Healthcare, Page 4)



Healthcare, technology blend exponentially fast for benefits

(continued from Page 3)

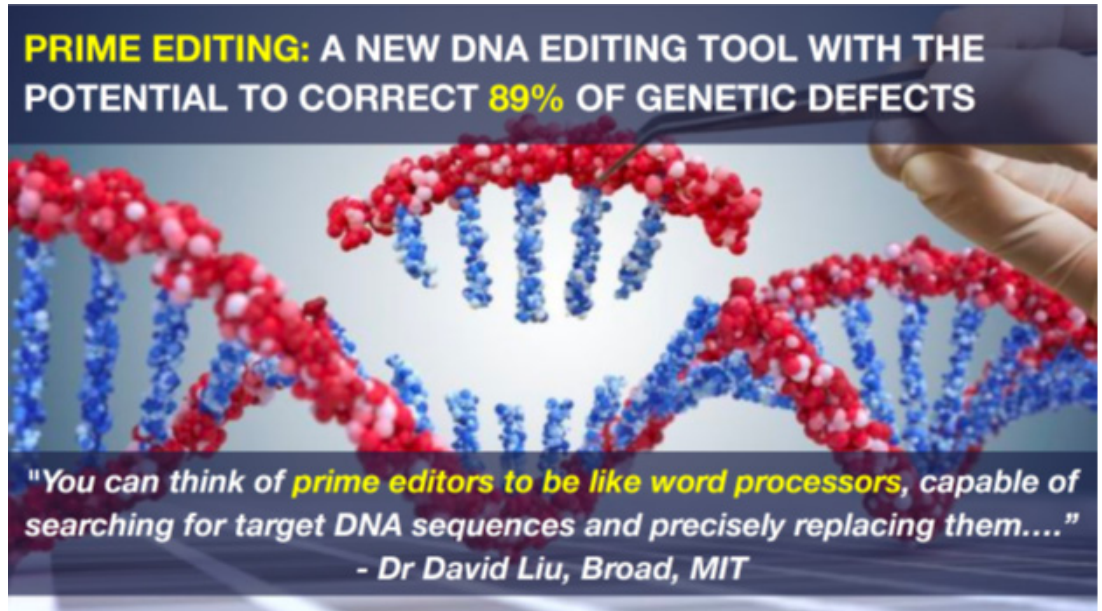
every two years.

He was wrong. It has doubled faster. (See chart at top of Page 3)

This blending of technology, along with sharing of healthcare progress will be made extremely fast, exponentially fast, both on the conquering of the coronavirus and an avalanche of other external benefits, according to Peter.

Gene Therapy

A virus is inserted into a person that carries a corrective gene. The replacement gene actually repairs the incorrect gene. (See chart bottom of Page 3.)



This was invented 30 years ago; think exponential slowness in beginning.

CRISPR and prime editing

MIT and Harvard University precisely corrected a bad gene through prime editing. In

Peter's book, he mentions that of the terrible 32,000 viruses, over half are caused by two bad genes. He also mentions that they are getting very close to being able to fix the gene, making for a whopping possible 16,000 cures and fixes in one

(see Future, Page 5)

The Promise of CRISPR & Gene Therapy

HEADLINES:

"CRISPR being used to fight Cancer"

"CRISPR could correct 89% of genetic defects"

"CRISPR could cure HIV/AIDS"

"CRISPR could be the next antibiotic"

"Gene Therapy could lead to Anti-Aging Therapies"

"Gene Therapy could cure HIV and Sickle Cell"

Future may be brighter, faster than we all think

(continued from Page 4)

swoop. (See chart at top of Page 4.)

The blending of computing power, exponential achievements in healthcare and editing should lead to headlines such as these in the chart bottom of Page 4, according to Peter.

Longevity, lifespan – David Sinclair, PhD

Peter mentions a goal of making age 100 the new 60. Why can many species live several hundred years? It's either a hardware or software problem. Good news! We are making huge strides in both areas.

Dr. David Sinclair (buddy of Peter) and author of the book *Lifespan*, which we also read in shortened format, not only

"Making 100 Years old, the new 60"

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HUMAN LONGEVITY, INC.

FOUNTAIN LIFE

- **Advanced Diagnostics** (HLI)
- **Stem Cells** (Celularity & Fountain)
- **NAD+** (Harvard University)
- **Senolytic Medicines** (Unity Bio)
- **wnt Pathway** (Samumed)
- **New Organs** (UnitedTherapeutics)
- **mRNA** (Moderna)
- **Vaccines** (United Neurosciences)
- **GDF-11** (Elevian)
- **CrispR/Gene Therapy** (Editas)
- **wnt Pathway** (Samumed)

believes he can get to age 100 easily but that aging is a disease that can be reversed. (See chart above.)

Peter is either an investor, advisor or associate at all of these companies, with a goal of longevity to age 100 and beyond.

Stem Cell Recreation

Peter mentions that our

bodies were meant originally to live to around age 30 and as we age, the stem cells drop in count dramatically.

In his book, he expands on this as nature's way of getting rid of the old to make room for the new, next generation with the least conflict and pressure on resources.

Fast forward to today, with technological blending with healthcare, stem cell

replenishment is available, extending life and the quality there of as well.

Ok, so that is a lot and you may not believe everything Peter says. That's ok but what happens if he is 90%, 75% or even 50% correct?

The future really may be brighter and faster than we all think!

Stem Cell Exhaustion

abundance 360

CFU-F/10⁶ MNCs

Loss of Stem Cell Quantity and Quality with Age

$R^2 = 0.51$

Drs. Hariri & Caplan showed: Number of stem cells in our body diminish 100x – 1000x; The stem cells undergo epigenetic changes and loose their effectiveness.

Global rise in wealth lessens effect of slowdown

(continued from Page 1)

Changing the order of Bremmer's talk, he ended his talk with what we found as the most important and as such are leading with it in our analysis.

The possible Goldilocks economic situation

Could this be a Goldilocks economy? Bremmer asks.

Yes, because this crisis could bring geopolitical institution updates.

Geopolitics are cyclical. When the institution is set up, it is aligned at time. The Security Council of the United Nations has permanent members based on their importance in the aftermath of World War II. Bremmer makes very valid points that over the years and governmental changes, different countries become friend and foe.

"Geopolitics change but the institutions do not without law or crisis," claims Bremmer.

As an example, Germany and Japan lost World War II so they cannot get into Security Council of United Nations. Today, neither are threats and these earlier structures are outdated, according to Bremmer.

NATO set up during times of Russian and U.S. conflict, so its structure was geared to protect that. Today, it's the most important security alliance, as military, conventional and nuclear weapons are becoming more irrelevant, according to Bremmer.

This situation has the possibility to break loose some of the outdated, stale



Ian Bremmer, political scientist

structures formed so long ago they are now outdated and may lead to a more Goldilocks global situation, albeit more isolated.

Why it may not feel as bad

Taking 10% out of the economy now may not feel as bad as times before since we are wealthier now. Bremmer, comparing our current economy to the great recession, where many could not eat, mentions the global rise in wealth has helped many living standards.

No doubt it is a major slowdown, and he acknowledges that but one from a much higher standard of living and likely less pain than that of an early century recession.

Inequality – this might be just what we needed to fix it

Much to many surprises, Bremmer says this maybe is the crisis needed to really make some big items change; i.e. inequality, anti-establishment governance.

With longer-term double-digit job disfunction, Bremmer

positively thinks this may be what is needed to push many across the finish line so to speak and have action.

Who are the winners?

The big winners are tech players that make the economy go: surveillance, geo tracking and tracing. Imagine if this were a cyber attack and it hits banks and the virtual economy would be much worse situation, ask Bremmer. This would leave old companies to thrive as opposed to the tech companies that are leading us forward now, states Bremmer.

This comment was an overwhelming common thread throughout the conference. Technology, the mixing of healthcare with technology and the immediate more acceptance of technology in our lives goes along with relaxation of rigid rules to accelerate the use, repair and solutions.

Analysis of three biggest economic players

China

China can make long term bets that no other country can do, even if inefficiently, they can do it, according to Bremmer; i.e. locking up energy, fossils long term at low rates.

The bad news according to Bremmer is China will be dominant in the weaker and poorer economies; i.e. 80% sub Sahara Africa debt is China now and will be growing.

China will mop up but

(see *Protectors*, Page 7)

Protectors, institutions will be brought up to date

(continued from Page 6)

Bremmer thinks it will be with the weaker economies.

USA

“No matter what you think politically, no matter what you think economically, the USA stays out of the way of entrepreneurs. As a result, best tech companies in the world and other bright folks come to the U.S. to start companies,” Bremmer states.

Tech companies will get super strong and have more power; i.e. Google Apple blending data app.

The bad news is that those not in the knowledge economy will feel pressure because of big data and deep learning Artificial Intelligence. The U.S. will really get moving due to tech innovation, according to Bremmer.

This is a recurring theme throughout our conference high points; the blending of technology for economic, health and safety is a key theme.

Europe

Bremmer thinks this situation is neutral to Europe.

He also thinks Brexit will splinter with many countries thwarting the rules.

Europe remains a power but has mostly a neutral effect, according to Bremmer.

A few points from a high economic level

Bremmer feels the U.S. dollar is likely to stay strong even with the stimulation and extra debt.

More fragmentation, which

RECURRING theme

This is a recurring theme throughout our conference high points; the blending of technology for economic, health and safety is a key theme.

leads to less interdependence, which leads to more home grown and less just in time workings; i.e. pharma, medical supplies and labor continuing the trend to come back to U.S., exaggerated by current events.

Unilateralism, not isolation; i.e. Canada, U.S. and Mexico will become more connected unilaterally.

Will we have a new global order? Nah, it will be just an acceleration of what was happening anyway. There will be displacement of technology, inequality, unilateral hub and spoke (close to home friends) type of situation according to Bremmer.

Final points according to Bremmer

· DOJ (Department of Justice) and others will start with trials towards China and their possible lack of response.

· China President Xi Jinping may feel political pressure with an election in 2022 and be able to be more of a risk taker due to political pressures. For example, the doctor who originally discovered COVID-19

has been hailed as more of a celebrity than villain.

· South Korea and Vietnam as well as Hong Kong did very well due to early and quick movement to stop the spreading of the virus. Not their first rodeo. (i.e. SARS)

· China is the most important adversary now, technological, and economical, not a military issue.

· Bring up to date the protectors and institutions.

· Existing institutions have outlived their utility and need to be brought up to date.

· Regarding the virus, he believes we will get an antidote. Immunity passports or QR (Quick Response) passports, which Ian believes are not very hackable or easy to counterfeit, become a reality sooner rather than later.

· This QR technology will push the Americans forward as transactions via secure technology occurs and are more acceptable. Ex: China very much ahead of the rest of the world on this.

· Interesting side thought, of getting a vaccine and trying to get it around the world and who the winners and loser will be during the ramp up time.

There you have it, another fantastic view from both high, low, inside and out of various countries and economies. We hope to cross paths again with Bremmer and hope you enjoyed our review of his thoughts and expectations.

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The opinions voiced in this material are for general information only and are not intended to provide specific advice or recommendations for any individual. To determine which investments may be appropriate for you, consult your financial advisor prior to investing.

Parting thoughts for you...

This is one of the most unique newsletters we have ever created. Due to the travel restrictions related to COVID-19, we had the opportunity to virtually attend multiple conferences we would usually not and experience nearly 100 hours of recorded speeches, slides and transcripts of some of the most brightest individuals both in finance, healthcare, economics and academics.

In this newsletter we focus on the accelerated health and technology achievements very likely induced by the current situation and our summary

and analysis of what we feel are the most important areas.

While some of this may seem impossible, please read with an open mind and take a moment to ask yourself, if you are really skeptical, what if maybe even half of this were to occur? We are less skeptical and think a great deal of this may occur and likely happen faster than many think!

Hope you enjoy. Thanks for your time, stay safe and be well.

Dates:

July 4 - Independence Day; July 3 -Capital markets closed

July 15 - Extension for Regular 1040 due

Sept. 7 - Labor Day - Capital markets closed

Things to do now:

READ *The Future Is Faster Than You Think* by Peter Diamondis for further in-depth information into his ideas for the future.

LISTEN to Ian Bremmer's podcast or pick up one of his books to learn more about globalism.