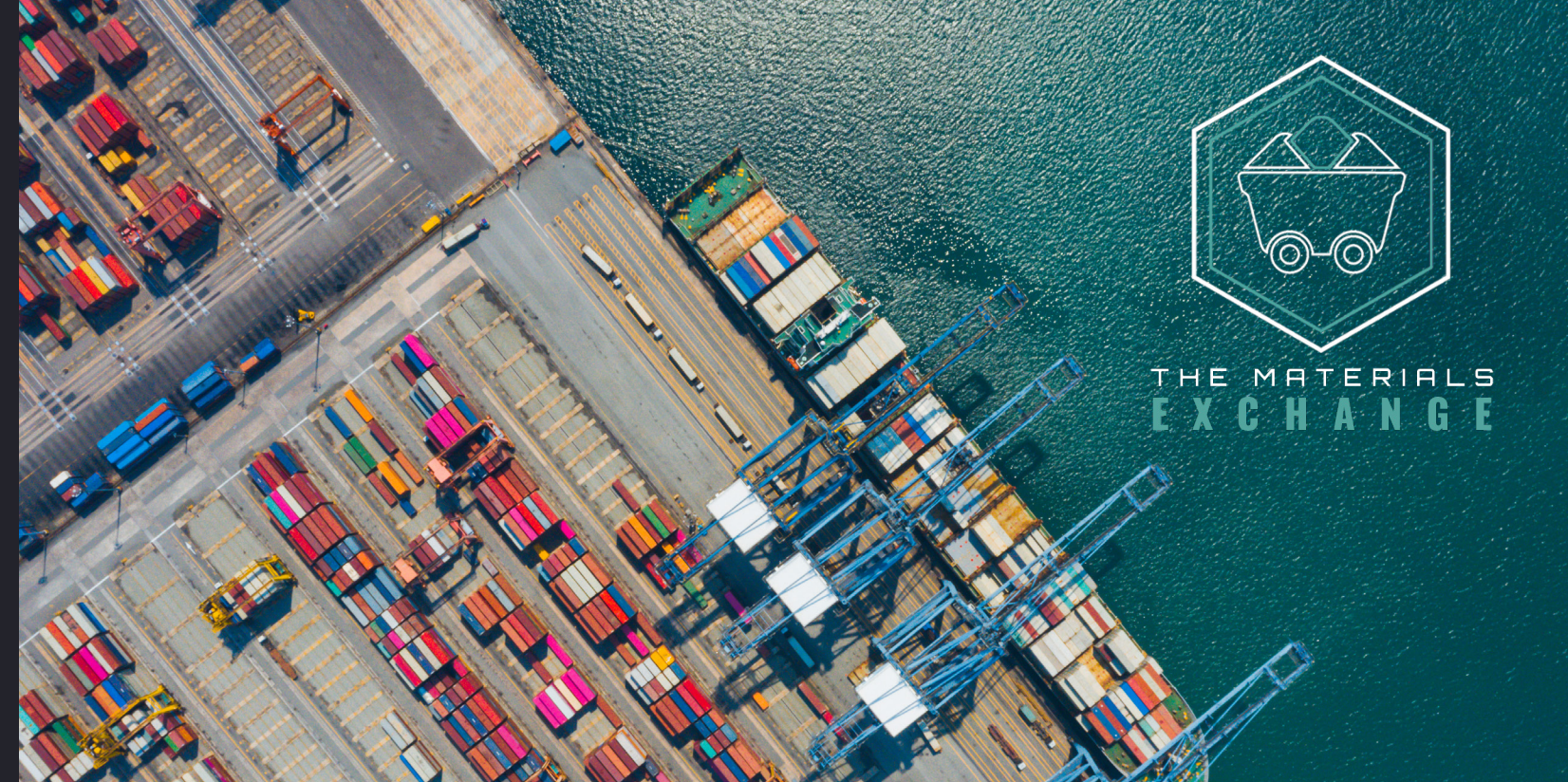




THE MATERIALS  
EXCHANGE



Blockchain Buttonwood  
Agreement

## MATERIALS SECTOR MISSION STATEMENT

Our mission is to horizontally and vertically unite Chemicals, Construction Materials, Containers, Packaging, Metals, Mining, Paper and Forest Products on our NexGen Blockchain in order to DEMOCRATIZE the Materials Sector Experience for your HUMAN IDENTITY.

### MATERIALS SECTOR ROLE IN THE BLOCKCHAIN ECOSYSTEM AND HOW THE BUTTWOOD AGREEMENT WILL HELP ACCELERATION OF SECTOR INDUSTRY

The Global Industry Classification Standard used by Morgan Stanley defines the materials sector and industry as comprising companies primarily working in a wide range of commodity-related manufacturing industries. Included in this sector are companies that manufacture chemicals, construction materials, glass, paper, forest products and related packaging products, and metals, minerals and mining companies, including producers of steel. Using CrowdPoint's next generation Blockchain all members of the ecosystem benefit from the transparency, speed and immutable transactions associated with Chemicals, Construction Materials, Containers, Packaging, Metals, Mining, Paper and Forest products.

### MATERIALS SECTOR BLOCKCHAIN ECOSYSTEM ACCELERATION OF OPPORTUNITY

Even though the Materials Sector carries the smallest sector weight of 2.5%-2.64% depending on source (S&P, Bloomberg, D&B) the global Materials market is expected to continue its upward growth over the next few years, reaching \$4.3 trillion U.S. Dollars by 2025 (Current Market Cap of \$2.62Tr with CAGR of 13.5%).

Economic growth in emerging regions, the surging need for natural resources to produce longer-lasting batteries, along with IT/Communication expansion are all major factors that are contributing to the projected market growth.

### TOTAL ADDRESSABLE MARKET:

According to various market research firms the TAM for the Sector should be \$902.48B in 2021.

### HOW OUR MATERIALS SECTOR EXCHANGE WILL ACCELERATE VALUE CREATION

The Materials Exchange on the Blockchain Ecosystem enables the networking of participants with shared business processes and relationships to create and allocate business value. An Exchange in a Blockchain Ecosystem is an assembly of distributed e-Commerce Marketplaces where participants, despite having different business models, different role, or even being competitors, own the Exchange. There are 17 sub-industries within the Sector, each sub-industry having hundreds if not thousands of members, and all of these members meet on the Exchange platform to complete transactions thereby accelerating value while decreasing costs.



THE ENERGY SECTOR  
EXCHANGE



THE MATERIALS  
EXCHANGE



THE INDUSTRIALS  
EXCHANGE



CONSUMER DISCRETIONARY  
EXCHANGE



CONSUMER STAPLES  
EXCHANGE



HEALTHCARE SECTOR  
EXCHANGE



FINANCIALS SECTOR  
EXCHANGE



INFORMATION TECH  
EXCHANGE



COMMUNICATION SERVICES  
EXCHANGE

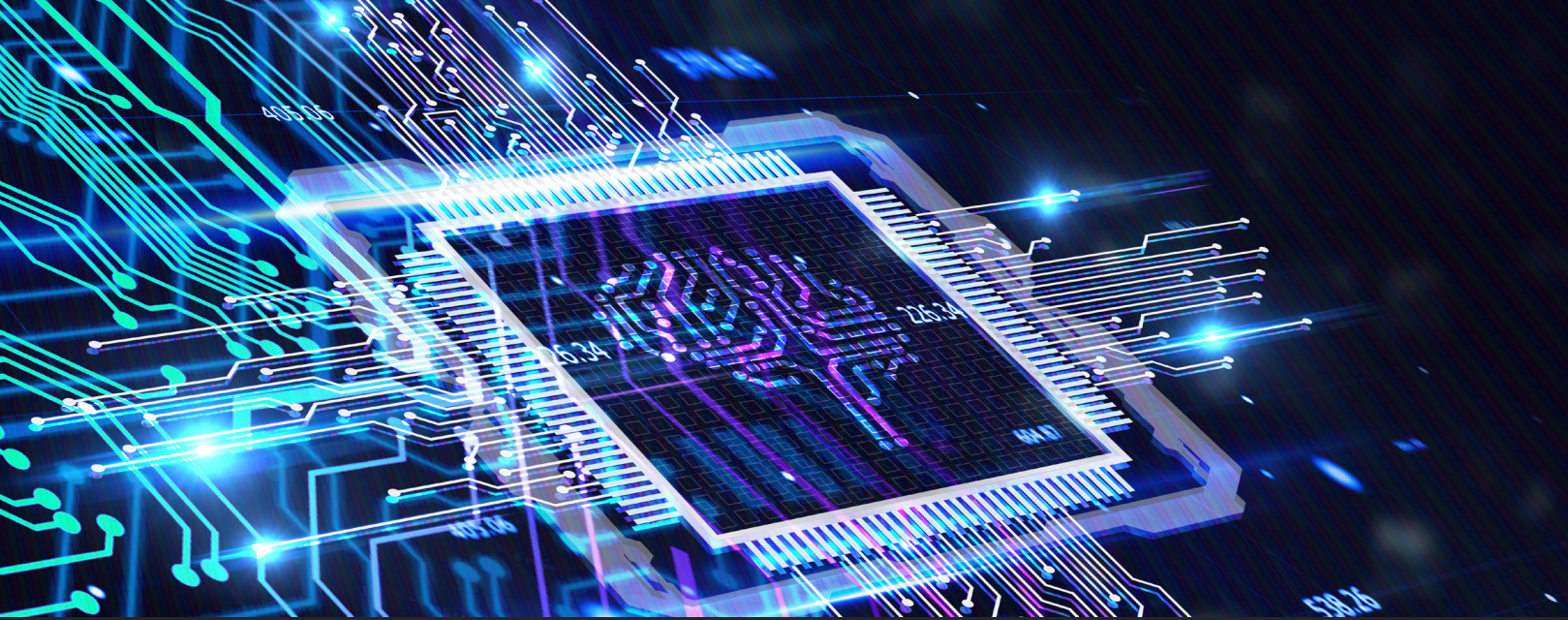


THE UTILITIES  
EXCHANGE



THE REAL ESTATE  
EXCHANGE





## BIG DATA ANALYTICS

Big Data Analytics today are housed in centralized systems that are fed through surveillance capitalism, designed to herd the human identity to make a purchase. In the Blockchain Ecosystem, our members focus on how to democratize Big Data to serve the most precious global currency today: The Human Identity. Our use of Big Data surfaces future buying habits as non-fungible attributes to the Decentralized Identity (DiD). The members use Big Data instead of being used by Big Data; members make informed decisions without compromising their Human Identity.

## ARTIFICIAL INTELLIGENCE TECHNOLOGY

We define Artificial Intelligence as the intersection of software and hardware technology mimicking human behavior. This intersection allows for effective decision-making which grows even more effective over time and added experiences. A.I. works within the Materials Sector Exchange to connect industries and businesses with everyday people to support a positive business experience.

A.I. in combination with other technologies like Big Data and IoT, can positively affect the Materials Sector. A.I. can balance demand and supply thereby actively managing the extraction of minerals in mines. The effects of AI are many, but focus on two key points will help in understanding the nexus of A.I. and value in the Sector. We will focus on 1) the supply of Minerals, and 2) the effect(s) within the commodities market.

**A.I. AND MINERALS SUPPLY:** Just as A.I. assists in the satellite discovery of untapped oil resources and the regeneration of mature wells from downhole imaging technologies, similar practices will help in finding and extracting minerals such as copper, zinc, potash, lithium, and nickel from mature mines thought to be “played out,” and discovering new deposits using ground-penetrating technology that A.I. can monitor and report in real time. Instead of wasting weeks and months in a mature mine searching for hidden deposits, A.I. can determine the presence, or not, in hours. Satellite imaging can locate new deposits and determine the projected output in hours, saving time in gathering mining permits and

leases. This time-saving technology saves hundreds of thousands of dollars not to mention monetized time.

**A.I. AND COMMODITY MARKETS:** The commodity markets fluctuate greatly based upon business and personal demand for a particular commodity. The severe and prolonged droughts in the US West and Southwest have lowered the level of Lake Mead to the levels of the first month after construction of Hoover Dam. Water is “drying up” in the lake faster than Nature can replenish it with snowfall and rain in the Rocky Mountains. Nevada, Southern California, and Northern Arizona are subjected to water rationing. A.I. monitors the water usage in each area affected by shortfalls in available water, leveling the supplies so each area is not totally cut off from water due to overuse. A.I. monitoring transfers water in pipelines to the most affected areas, keeping costs down but supply constant. A.I. keeps the transfer of information moving quickly; it can help suppliers predict need before the demand appears in the marketplace.

In the Forest Products Industry, A.I. monitors the number of trees harvested for lumber and the by-products of milling the raw timber. Georgia-Pacific and Weyerhaeuser, corporate giants in the timber-to-lumber industry, must plant 8” seedlings for every tree harvested. A.I. can project how much lumber will be needed and how many seedlings will be needed to replace the timber needed to produce the lumber. This intelligence saves millions of dollars for the industry and increases the Sector valuation.

## COMPACTION TECHNOLOGY

The Materials Sector has many micro devices and is rapidly adopting the Internet of Things (IoT). With the volume of data passing between businesses globally on a daily basis the value of data compaction capability that shrinks, secures, and speeds data transmission on the blockchain is immense. This will not only significantly reduce the size of machine-generated/IoT data, but also include built-in, ultralight security. There is no other technology that can consistently and significantly reduce the size of IoT data messages; even the most advanced data compression algorithms are generally ineffective for IoT data.

With highly versatile use cases in computing, satellite communications, and more, our mission is to become the universal standard in data transmission and storage. With the unique ability to effectively triple or quadruple existing network capacity with software, combined with a very small footprint, and without losing valuable data due to compression “squeezing” algorithms, Compaction has the potential to reimagine how data is transmitted. With the push for “green energy,” the Utility and Industrial Sectors and their corresponding businesses can immediately know how much mineral production is available for producing long-life batteries needed in Solar and Wind energy systems.

## BLOCKCHAIN TECHNOLOGY

The Energy Sector is uniquely positioned to marry A.I. with everyday people. The Materials Sector can apply CrowdPoint's NexGen Blockchain in order to fuse vertical and horizontal transactions to remove constraints, identify ICPs, and identify optimal smart contracts. The Blockchain Ecosystem is accessible to Main Street USA but ensures benefits for Wall Street. Our Blockchain is secure and provides transparency and confidence for every transaction no matter the expenditure within the transaction (\$5 is just as important as the \$5M expenditure and just as secure and transparent).



## MATERIALS SECTOR EXCHANGE SUMMARY OF ACCELERATION OPPORTUNITIES

CrowdPoint's Blockchain Ecosystem contains a Materials Exchange that is an assembly of e-Commerce Marketplaces. Our use of Big Data enables businesses and individuals to democratize their information and reveals future buying habits as non-fungible attributes to a Decentralized Identity (DiD).

Using Artificial Intelligence, CrowdPoint will marry the Materials, Industrials, and Utilities Sectors with everyday people to build a safe, secure, and positive environment that will mimic the individual decision-making process. A.I. will assist in mapping hidden mineral deposits in mature, “played-out” mines and in discovering new, untapped reserves. A.I. will efficiently, in real time, note changes in consumer demand and transfer that data to suppliers leveling the supply-demand curve, reducing costs. A.I. can help companies note real world conditions to prevent over-harvesting of trees thereby preventing soil erosion. A.I. can help predict future effects of mining in over-worked mines to prevent possible flooding and other accidents that will affect costs. Governments and corporate management will have information in real time to determine the various courses of action needed

to shape policies that will assist the Sector by increasing profits reducing costs, all without compromising safety.

Along with A.I., CrowdPoint offers state-of-the-art Compaction technology to become the universal standard in data transmission and storage. This new, reimagined transmission of data will foster transparency never before experienced within all transactions. Transparency leads to trust in an untrusting world.

CrowdPoint's Blockchain Ecosystem brings business, technology (A.I. & Compaction), and everyday people together on a single, one-of-a-kind Exchange platform. On this platform people and companies can safely conduct business and transfer information through the non-fungible DiD each member of the exchange possesses. No more pop-ups, no more cookies tracing your keystrokes; Big Data analytics now work for you instead of you working for Big Data purchasing companies. You can take advantage of the dividends CrowdPoint provides to further your business on the Exchange. CrowdPoint's Blockchain Ecosystem leads the way to a trusted, more profitable business experience.

