Breathing Space Accelerator
A Cutting-Edge Consortium of Health Technologies
Breathing Space Accelerator: BSA

Who We Are

Data Collection

BSA is a consortium company supporting multiple users, while maintaining state of the art security and encryption.

Hybrid-Cloud

...using the rapidly adapting interoperable BSA data mesh to securely store and accelerate— in as little as minutes— the harmonization and sharing of large volumes of data, both on and off the cloud.

Expert Leaders

Leading Multi-Talented Scientists, Health API Specialists, AI and ML Blockchain World Class Technologists, Secure Data Architects, System Integrators, Researchers, Medical Experts and Health Care Professionals from around the world

Who We Are

Breathing Space Accelerator: BSA

8

A National Accelerator
For A Global Solution

Founder
Dr. Yvonne Cagle MD
Astro Surgeon
Flight Surgeon
Retired USAF Colonel

A National Accelerator
For A Global Solution

© Copyright Breathing Space Accelerator 2021
The course of technology-driven change has been diverted this year due to the impact of the coronavirus pandemic...

Nowhere is this more true than in healthcare...
And every key trend, from biotechnology and smart medicine to virtual and augmented reality, smart cities, digital twinning, and robotics, have had their part to play.

"In 2020, every company has had to become a tech company.... In 2021, every company will learn to become a healthcare company, too..."
The COVID-19 pandemic has created both a public health crisis and an economic crisis, worldwide.

This pandemic is expected to plunge most countries into recession, with per capita income contracting in the largest fraction of countries globally since 1870.

This would represent the weakest showing by this group of economies in at least sixty years.

Limited initial supplies, supply chain blunder and over a dozen states disregarding federal priority guidance have resulted in only slightly more than 3 million people in the US receiving vaccines before the close of 2020. That’s less than 1% of the US population and 17 million fewer than the goal of 20 million established by the government late last year.

Dale Smith, Jessica Dolcourt, Website, Jan. 8, 2021
Our Business Model and Strategy

Our collaborating companies are working together to achieve one common objective; seeking to solve the universal issue of COVID-19.

- **IDENTIFY**
  - Focus on an immediate healthcare issue
  - Ex. Combating the COVID-19 outbreak in a major city

- **INTELLIGENCE**
  - Immediately, data and research is obtained
  - Ex. In a matter of minutes, significant data is gleaned

- **ANALYZE**
  - Industry experts evaluate real, relevant intelligence
  - Ex. Data is interpreted

- **RESULTS**
  - BSA fabric allows for acceleration and sharing of data
  - Ex. A grid system is developed, showing the hotspots of COVID-19

- **TREATMENT**
  - Specialized medical care can strategically be implemented
  - Ex. Staging for triage care, such as telehome vs. telehealth is determined

- **BROADCAST**
  - Clarity in communication and action, so information is no longer siloed
  - Ex. Residents understand why a specific area is quarantined

© Copyright Breathing Space Accelerator 2021
Our Offering

Privacy | Cyber Security
Prevent unauthorized access and changes to customer data, providing secure data transfer

IoT | Wearables
Smart thermometer, health bands, breathalyzer and pulse oximeters provide clinical information in real time on how a patient’s condition

Data Aggregation | Data Mesh | Blockchain
Universal medical network adapter deployed blockchain secured data mesh fabric. Amplifying the data aggregation, sharing, and broadcasting of critical healthcare intelligence instantly

Research | Innovation
Better diagnostic and decision support. Accurate and informed insights. Deliver personalized treatment. Accelerated clinical trials. New research areas & datasets mitigating further risks

Artificial Intelligence | Machine Learning
Leveraging state of the art AI/ML to provide adaptive and proactive data analysis to stay in front of the crisis, using tools such as chatbots

Broadcast | Secure
Triaging and addressing disaster response throughout the country during times of crisis. Be able to scale out and broadcast to the nation or localized areas. Secure in and across clouds/sites

© Copyright Breathing Space Accelerator 2021
The BSA Approach

Our Distinctions

Expert-vetted AI Intelligence

BSA combines diagnostic health monitoring with hybrid-cloud technologies to capture, connect and process distinct datasets securely, with integrity, worldwide.

Rapid Interpretation

Our unique data fabric allows for the immediate transmission and distribution of data to central HIE/analytics platforms to track patient encounters.

Emergency Intervention

Private blockchain capabilities integrated within public healthcare systems validate true COVID intelligence mapping, in real-world, real-time.
BSA & COV-IRT

COV-IRT is a unique collaborative team that brings together all the capabilities needed to address the COVID-19 pandemic – computational expertise, biologists, clinical experience, advanced laboratory proficiency, and a deep knowledge of human and coronavirus genetics.

COV-IRT Project Goals:

- Enhance public datasets to reveal host infection dynamics for SARS-CoV-2 to improve medical treatment options for COVID-19 patients
- Determine and design optimal targets for therapeutics against SARS-CoV-2
- Creating new drug delivery systems based on targets
- Test newly developed therapeutics in both *in vitro* and *in vivo* SARS-CoV-2 models
- Apply for human clinical trials
- Develop tools and resources for the public to use to allow of safer and easier ways to assess risk and reopening

Modeling Clinical Scenarios/Data Analysis  |  Microbial
---|---
Host-Viral Interaction  |  miRNA & Non-coding RNA
Radiobiology & Imaging  |  Machine Learning
Knowledge Graph  |  Pediatrics
Inflammation  |  Ethnicity
Virus  |  Long-Term Impact
Neurology  |  Funding
Mitochondria-bioenergetics

The COVID-19 Exposure Assessment Tool facilitates understanding of the relative importance of factors that contribute to increased exposure.

© Copyright Breathing Space Accelerator 2021
NetApp specializes in industry-leading cloud data services, storage systems, and software.

We bring the enterprise-grade data services you rely on into the cloud, and the simple flexibility of cloud into the data center. And we do it with industry-leading solutions that work across diverse environments and the world's biggest clouds.

We're shaping the future of cloud by taking a step back from what the technology looks like today. We spot opportunities that others in our industry miss, and we get to work on them first.

People who understand cloud technology know to come to us first. We're big believers in a narrow niche with expertise that runs deep, and we hire in our own image.
NASA has launched their Health Stabilization Program, and looks take it off planet.

Since human spaceflight began, NASA has had an investment in telemedicine, telehealth and remote diagnostics. With the development of COVID-19, a heightened awareness has been placed on wellness tracking for improved population health.

With its Health Stabilization Program, NASA is using remote health accessories not only to curb the spread of COVID-19, but to give their employees a base to monitor daily health and wellness. The program can be extended from the ground to space, as well. Currently 150 astronauts are taking part in this program.
Medcheks, a Trxade Group company (Nasdaq: MEDS), is launching a personal electronic Health Passport for air and cruise travel, entertainment and sports venues, businesses, corporate offices, and many other locations.

**Easy Access**
- Download Medcheks Health Passport App. Sign up and build your profile.
- The Medcheks Health Passport App is available 24/7 with a quick response time and guaranteed uptime.

**Instant Upload**
- Upload your test results and vaccination records in one simple click.
- Through state of the art encryption and blockchain methods, your health data is completely concealed.

**Instant Verification**
- Green Light means you can return to normal life. Red Light means stop, your health record is not compliant.
- Low monthly payments for access to your own individual, secure health passport.

**Access The World Safely and Securely**
- Travel & Tourism
- Corporate & Industrial
- Entertainment
- Sports Event
- Retail & Hospitality
- Eldercare Facilities
The core of Ever Medical Technologies, Ever Infrastructure is the groundwork upon which all else is built. With the security, customizability, and interoperability that blockchain technology establishes, data collection, sharing, access, and analysis can be done with ease.

Innovation In Hospital System
Transform your hospital utilizing data-driven changes and unleash the power of data-driven innovations.

Healthcare Claim Processing
Eliminates reconciliation in claim processing through automated Ever's smart contract, immutable logs and supporting platform.

Data Exchange Platform
Blockchain-based HIE for well-governed data exchange in a care network or a hospital group settings.

Health Data Engineering
Utilize our AI and Health Data platform from the initial medical data labeling to predictive health and deep learning for medical images.

Epidemiology Surveillance System
Holistic platform for outbreak prediction and geo-spatial data analysis for epidemic surveillance.

- Blockchain-based HIE Core
- Ancillary Services Integration
- Tele-Suite System
- Telemedicine, PHR application, and Chatbot
- Epidemiology Suite with BI and Alerting System

© Copyright Breathing Space Accelerator 2021
BSA Consortium Companies

BSA & Unisys

• Healthcare and Medical Device information protection
• Blockchain protected Medical Supply and Pharmaceutical supply chains
• Networking and cloud infrastructure upgrades
• IoT and multi-device collaborative usage optimization
• Research field engineering services to improve potential new cures

Provide intelligent, real-time decision-making support through predictive analytics, as well as logistics management through innovative technologies, so you’ll be able to better focus on helping patients get better.

As an incorruptible transaction ledger, blockchain serves as a single source of truth, delivering transparency, data integrity, and information immutability.

INDUSTRIES
• Commercial
• Communications
• Life Sciences & Healthcare
• Manufacturing
• Retail
• Transportation
• Financial Services
• Government

SERVICES
• Digital Workplace Services
• Cloud and Infrastructure
• ClearPath Platforms & Services
• Advanced Analytics
• Application Services
• Industry Solutions
• Security Solutions

© Copyright Breathing Space Accelerator 2021
BSA Consortium Companies

BSA & Everbridge

Everbridge is a Global Critical Event Manager (CEM) Service

• Emergency Management
• Employee, Traveler, Visitor and Lone Worker Safety
• IT Alerting, On-call Scheduling
• Crisis Management
• Supply Chain Disruptions
• Performance Management of Incident Response

A Critical Event Management platform uses technology to take manual processes and automate them. Amplifying ad hoc data feeds to provide richer intelligence and correlating threats with locations of assets and people, ensures more rapid and comprehensive incident assessment and remediation.

 PRODUCTS
Safety Connection, Visual Command Center, IT Alerting, Mass Notification, Public Warning, Care Converge, Crisis Management, Control Center, Digital Wayfinding, Risk Center, SmartWeather + Threatview, Mobile Apps, Jarviss

 BY INDUSTRY

 IMPACT
Keep Employees Safe Everywhere, Alert Residents & Visitors, Automate IT Incident Response, Anticipate & Prevent Disruptions to Operations, Accelerate Clinical Response

© Copyright Breathing Space Accelerator 2021
Quartolio is an AI-powered learning platform that accelerates research by connecting the dots across scholarly documents, data, and discussions.

OUR MISSION
Moonshots Within Reach™

SPECIALTIES
Responsive Precision & Expansive Reach

APPLICATIONS
Responsive AI Insight Automation for Research in the lab, library, or with patients.

INTEGRATION
Tap into streaming insights with zettabytes of science as they're automatically transformed into knowledge on-demand, in the cloud, in real-time.

SYNTHESIS
Leverage Leads, not Lists. An impossible list of documents to read doesn't accelerate R&D. Scientific leads, uncovering previously unknown pathways inside those documents, does.
BSA Consortium Companies

BSA & CareSpace

CareSpace HealthBand is a wearable health band that continuously monitors temperature, heart rate, pulse-oxygen levels, and stress levels in real-time, and will light up either red or green depending on whether or not a person has elevated COVID-related symptoms.

Contact Tracing
A comprehensive option provided through the Health Band gateway and app via Bluetooth using the contract tracing module via Coalition, an open source contract tracing integration.

Touchless Payment Processing: The Purewrist chip turns your Health Band into your wallet on the go, made simple, safe, secure, and contactless.

Visual Vitals: Integrated mobile tool via Health Band app that uses a mobile camera to collect clinically-validated visual vitals using PPG and RPPG technology to report biometrics, including: heart rate, heart rate variability (HRV), oxygen saturation, respiration, blood pressure, blood glucose and blood alcohol concentration.

ACCESSIBILITY
Independently works with and without mobile devices through beacon technology.

INTEGRATION
The Health Band SDK supports the integration to third-party apps and platforms.

SECURITY
Security and Privacy are our highest priorities. Data is encrypted on device and transmitted via HIPPA compliant platform.

BATTERY LIFE
One year continuous battery life with replacement. Manufactured with quality in the U.S. by Avnet.

© Copyright Breathing Space Accelerator 2021
MEET AIE

OUR VISION
Our vision is to foster healthcare accessibility by delivering affordable software solutions leveraging cutting edge technology in support of best practice patient experience.

OUR TECHNOLOGY
Our platforms use artificial intelligence and machine learning to better classify large amounts of data. It generates faster, more accurate, more compliant results in a matter of seconds.

OUR IMPACT
The products and service we offer range from Tele-Health PHI Protection, Healthcare Storage with HIPPA compliant data sharing, Data Conversion with Cloud integration, and AI & ML Powered Custom Software.

mareedi
Smartphone-generated vitals

• Digital health and wellness monitoring without the need for a wearable
• Tracks heart and respiratory rate, examines symptoms, provides exposure survey, logs daily health score
BSA Consortium Companies

BSA & IDCC

Inspire Diagnostics Canada Corporation

IDCC markets a viral screening kiosk branded Clear2Pass

KEY COMPONENTS

- Facial recognition
- Proper mask positioning detection
- Forehead fever detection and thermal printer
- Hypoxia detection via pulse oximeter
- Self sanitizing after each use
- RFID and QR code reader
- Hand sanitizer dispenser
- Secure networking via cellular LTE, Wi-Fi or RJ45

Clear2Pass is an initial viral screening system that securely and safely insures a user is not displaying any obvious COVID-19 related bio-markers and is obeying mask policies prior to entering or proceeding through an establishment.

- Video and audio conferencing to front desk or cellular phone
- Foot pedals for hands-free interaction
- Remote managing and monitoring capabilities
- IP65 standard enclosure manufacturing
- On screen customized banners and messages
- White label branding option

ADDITIONAL SPECS

- Integral printer to print user likeness, test results, date of test, QR code, etc.
- High definition camera suitable to facial recognition.
- Can intake answers to displayed questions via integral foot pedals
- User interaction is less than 25 seconds

INTERACTION

- User approaches kiosk and is recognized via facial recognition. Vaccine database is searched OR user presents QR code/RFID card, vaccine database searched
- Clear2Pass assesses for proper face mask positioning and obtains user’s vitals.
- Once user passes assessment Clear2Pass prints passport with user likeness, test results, etc. OR Clear2Pass interfaces with building access system.
- If user fails assessment, user interacts with an administrator of establishment, OR user is provided the location of the nearest COVID testing center.

The Clear2Pass passport can be used to gain access to cruise lines, airlines, shopping malls, offices, theme parks, businesses, entertainment venues, etc...
Market Verticals

Time is of the essence.

The lack of unity in pandemic screening, vaccination tracking, and treatment analysis is the driving factors behind our relentless, unprecedented innovation. It’s time to coordinate.
Mitigating the loss of life is our profession.

In the wake of COVID 19, healthcare across the world has had to reinvent itself. We are aiding in that reinvention, teaming up to prove that there is strength in numbers when fighting for a collective cause. Amongst all nine of our partnering companies there is one common goal; track, assess, and eliminate the devastating impact of COVID 19.

The coronavirus pandemic has shown us that there is a willingness to share our personal data when the benefits to our health are clearly communicated. This has been proven with track-and-trace systems that have reliably kept infection levels in check in participating regions. Big datasets will create more equitable healthcare, confirming the need for universal coordination. We are working to further the progression of tele-health solutions for all of humanity, in a unified manner, around the world.

We need to apply common sense and breakthrough systematic understanding if we hope to evolve past the complex conundrum that is the healthcare system today.
Whether the objective is “Back to Work” or “Back to Travel”, one of our main missions is enabling life to return back to normal across the world.

We’re seamlessly stepping into the international travel industry. With IDCC installing user screening kiosks on cruise lines, in airports or outside commercial businesses, AIE launching their health symptom-tracking app, and NetApp securing all encrypted data on their hybrid cloud system, our geographical footprint is extensive, to name only a few. Our ability to track and trace sensitive health data to ensure passenger safety takes a leap into the major task of controlling and containing the impact of COVID-19.

The implementation is seemingly endless…
Our U.S. Military relies on their unwavering ability to remain mission-ready at all times.

With wearable bands for daily monitoring coupled with oversight admin dashboards, sailors, airmen, and all military personnel can be cleared for travel or access to military establishments with dependable accuracy.

Prior to boarding ships and aircraft, health data can be tracked for weeks in advance with any of our numerous Applications, all secured with NetApp storage, on-premise, hybrid, or via the Cloud. The user can reliably be cleared to enter quarters based on their daily vital recordings and contact tracing. Those presenting with ailments or known exposures will be routed for quarantine with continued medical monitoring.

We arm our protective forces with state-of-the-art tele-health technology for even the most remote areas around the globe.
The BSA Value Proposition stands on its unparalleled consortium makeup, compromising of nine well-known, high level, advanced technology companies from around the world. BSA is ready to deploy anywhere... anytime... for any means... to solve even the most pressing global health issues.
Create a standard that grades businesses based on their adoption of emergency standards and measures to fight COVID-19.

Q2

• Conduct Funded Research
• IP may lie with Funder or Organization or both
• Conduct Independent Research
• Could be Grant-Based Research
• Publish Research Internally & Externally

Q3

Develop Course Materials on:
• Up-to-date CDC and OSHA workplace safety protocols.
• Complete and accurate state-mandated training elements.
• Up-to-date state-specific workplace safety protocols.
• Industry-specific workplace safety guidance, if applicable.
• Employer workplace safety policies and practices.

Q4

COV-IRT is a place for member companies to meet, collaborate, and brainstorm with other companies, fellow professionals and scientists, creating a foundation for developing new products and markets.
Be part of the transformative technology revolution.

We are seeking organizations that are working to be ahead of the curve in crisis medicine, eager to integrate BSA into their current operations.

CONTACT US
Breathing Space Accelerator

E-MAIL
bsa1.ecosystem@gmail.com

WEBSITE
bsa-1.org

For more information contact for company decks.

© Copyright Breathing Space Accelerator 2021