2022 Final Report



Held in conjunction with the



Grow Local is the official title sponsor for the 2022 TEHNS Summit. Meridian Technologies, The Chef | Heaven's Kitchen, Corporate Connections, Develop Us Worldwide, Alles IOT, Open Hand, and THS National were supporting sponsors.



Preface

Last year (2021), Congressman Jim McGovern began a journey to make the White House Conference on Hunger, Nutrition, and Health (WHCHNH) a reality. Mr. McGovern led a bipartisan bill requiring the White House to convene the Conference with Senators Cory Booker (D-NJ), Mike Braun (R-IN), and Congresswoman Jackie Walorski (R-IN) AND secured \$2.5 million in funding for the conference. The Conference was held on September 9th, 2022 and was designed to catalyze public and private sectors toward a coordinated strategy. This strategy would accelerate progress and drive transformative change in the U.S. to end hunger, improve nutrition and physical activity, and close the disparities surrounding them. The WHCHNH proved to be a success, was oversubscribed, and continues to produce meaningful outputs today. Outputs from the WHCHNH are expected to increase over time; a trend is already visible in the first several months succeeding the event.

Grow Local CEO (Chris Mau) attended numerous events leading up to the WHCHNH, held a regional convening, and attended the WHCHNH itself where he met with numerous organizers, supporters, attendees, and key stakeholders, including representation from The White House and House Chairman, Congressman Jim McGovern himself. In doing so, The White House held a continual open dialogue with Grow Local leading to an outline of WHCHNH commitments to be formulated and presented by Grow Local for consideration by The White House.





The process revealed that the WHCHNH needed to defy its own boundaries to meet its potential and perpetuate durable and meaningful outputs in relation to the five pillars of the WHCHNH. Although massive reductions in hunger and malnutrition resulted from the 1969 effort; complexities of food systems, educational models, social dynamics, advancements in health, science, and technology required that the 2022 Conference be less definitive and more dynamic, lasting, and siege-like. It was recognized that Grow Local could leverage its position, intellectual property, programming initiatives, and relationships to engage others to effectively tackle important elements of these challenges. This resulted in a series of commitments, beginning with a Summit.

The size and gravity of the commitment, along with significant alignments with the WHCHNH compelled The White House to recognize Grow Local's commitment at the WHCHNH:

"Food technology company Grow Local and its in-home aquatic gardening subsidiary AquaTree will lead a \$500 million effort over the next five years to launch a national publicprivate partnership that will: facilitate scientific research on nutrition and healthy habit formation; partner with health systems to maintain more intensive nutritional care for patients coming home from the hospital, and to provide nutrition education and guidance services for kids after school; implement a K-12 digital platform that provides nutritional education, food advocacy, and entrepreneurial skills to thousands of schools; and organize an annual Tech, Education, Health, Nutrition, and Sustainability (TEHNS) Summit to bridge silos between the health care, education, food, and technology communities and promote healthier eating for all."



Subsequent conversations with White House staff and meetings with Congressman Jim McGovern and his staff, led to full support and encouragement of immediate action on the first public-facing step to fulfill Grow Local's WHCHNH commitment: the launch of the TEHNS Summit (Technology, Education, Health, Nutrition, and Sustainability) which was agreed to be held before the close of the 2022 calendar year.



Congressman Jim McGovern commented to Grow Local:

"I am so thrilled to see exciting initiatives like the TEHNS Summit come about as a result of the White House Conference on Hunger, Nutrition, and Health," **said Chairman McGovern**. "This is exactly the kind of collaboration, cooperation, and involvement that I was hoping would come out of our work, and I hope that those who care deeply about the issues of health, nutrition, sustainability, technology, and education use this summit as a launch point for the kind of bold, innovative solutions we need in this country to support healthy, sustainable lifestyles." - Jim McGovern (D-MA), Chairman of the House Rules Committee

On behalf of Grow Local, and the participants of the inaugural TEHNS Summit, we are pleased to present this report. Though Grow Local has already made significant investments toward its mission and its commitment announced at the WHCHNH, the first public-facing steps were designed to begin with the launch of the TEHNS Summit (Technology, Education, Health, Nutrition, and Sustainability), held in conjunction with The White House Conference on Hunger, Nutrition, and Health.

Report Summary

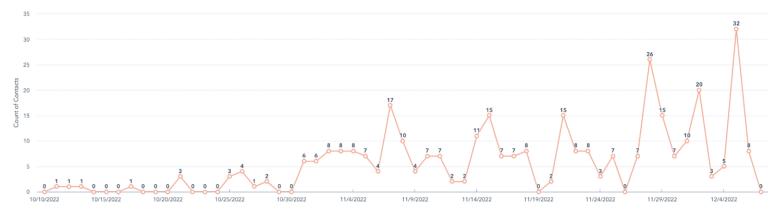
On Tuesday December 6th 2022, at the Shriners Oasis Center in Charlotte, NC, Grow Local, with its mission to "Feed the Future", hosted the inaugural "TEHNS Summit." The Summit featured sustainable (behavioral, programmatic, financial, and environmental) approaches to addressing health and nutrition challenges using education and technology.

The event came together quickly, moving from approval to greeting people at the door in the span of 10 weeks, and attracted industry leaders to equip, amplify, and drive impactful results in Global Health and Nutrition. TEHNS generated excitement across the U.S. and around the world as the event garnered global attendance; attracting people and organizations at the top of their fields, uniquely positioned leaders and impassioned people wanting to promote and affect healthier eating and access to nutrition while connecting people with the knowledge and habits needed to ensure success and sustainability.

Inquiries resulting from outreach, which numbered in the thousands, and actual in-person registrations, which numbered in the hundreds, reflected considerable interests. The Summit was largely invitation only; however, seating was reserved for participation from the public. Virtual participation was open to anyone who wished to participate. Ticketing was provided on a first-come, first served basis. Because of the commitment Grow Local made to serve as the Title Sponsor and the generosity of the event's supporting sponsors: Meridian Technologies, The Chef | Heaven's Kitchen, Corporate Connections, Develop Us Worldwide, Alles IOT, Open Hand, and THS National there was no cost to attend the TEHNS Summit other than necessary travel and accommodation from attendees. Registration proved significant despite little time to arrange travel, exhausted budgets, re-scheduling prior commitments, considering other competing events, AND this being an inaugural launch of the event.

Daily In-Person Registrations (October 10, 2022 -December 5, 2022)





Invitations to the event along with social media posts and limited, localized media outreach promoted the Summit as an event intended to convene *"industry leaders to equip, amplify, and drive impactful results in Global Health and Nutrition by utilizing Technology and Education in intentionally Sustainable ways."* The event also was labeled as *"the beginning of a nationwide campaign to address food insecurity, nutrition, and health outcomes for millions of Americans."* While 345 people pre-registered for the event, nearly 3,000 participants across 5 different continents attended the event (in-person and virtual combined) as individuals or as part of listening groups.

Organizers, CEOs, celebrities, generals, officers, athletes, teachers, administrators, dieticians, nutritionists and doctors highlight a cross section of the types of the attendees. Leadership from numerous federal agencies including the CDC Foundation were present along with delegations from over a dozen major universities such as Tufts, Cornell, NC State, Texas A&M, and many more. Leadership and representation from organizations such as Aldersgate, The Department of Defense, Blue Cross Blue Shield, Meridian Technologies, LifePoint Health, Atrium Health, Charlotte Mecklenburg Schools, Sysco, Compass Group, Duke Power, and Bank of America were in attendance.

The following is a full list of participating organizations:

100 Gardens	Bank of America
360 Health & Hygiene	BASF
Aldersgate	Bell Scale
Algrow Biosciences	Bespoke Analytics, LLC
Alles IoT	BGW CPA
Angels and Sparrows	Bonnie Stephens Photography
Appalachian State University	Brand V
ArtPop Street Gallery	Brian Bunn Films
Atrium Health	Browne
B.Blossom	Browngirlgreen LLC
Babylon Micro-Farms	Business Forward
Bahakel Communications	C3L Associates



Calcul8ors Pty Ltd (Australia) Camino **CAMINO Health Center** Capgemini Carolina Farm Trust Carolina Off-Grid Solar Carolina's 1st Choice Agency LLC CDC Foundation Celebrate Your Wellness Cellular Farms Cellular Farms Inc. Cerkl Charlotte Mecklenburg School System Chase Bank Chazni Group Chi Logistics City of Charlotte City of Greensboro **Coastal Carolina University** Coke-a-Cola Comextaa **Community Health Systems** Companion Health, PLLC **Compass Group** Consultant Cornell University **Corporate Connections** Costco **Creative Co Crop Convergence CS** Renews Dare To Soar Enterprises Db3 **DCI Home Resource Defrost Films** Defrost Films, LLC **Department of Defense** Develop Us Worldwide **Digital Mind State Dishefs LLC DIYECS Health Doctors Without Borders** Douglas Goldstein **DPR** Construction Duke Energy

Eat for Prosperity, Inc. Elevate Outsourcing Elior North America Elliott Davis, PLLC Ervin design Eva Clayton Rural Food Institute **EvanLEE** Organics Faith and family Family First Life **Fearless Athlete** Fellowship Hall Fit & Green Wellness Fit Emmett Fitandhealth Food Is Medicine Coalition (FIMC) From Seed to Spoon, LLC **FROST ATELIER** Further Culinary Group Gaia Human Capital Galactic Headquarters Marketing Galilee Ministries of East Charlotte Garrett. PLLC **Genems Systems Inc** Glocal GTM Good Days Marketing Co Granite River Consulting Green Brothers Juice & Smoothie Co. Grocery Shopii **Growing High Point Guided Insurance Solutions** Habitual Roots Hall Booth Smith, P.C. Harvard University Harvesting Humanity Hawksbill Peak Farm HCA Healthcare Health Exchange Concierge Medicine/HealthCoin Exchange Hempire Innovations LLC **Hispanic Federation** Holy Angels Homegrown Heroes Hoppy Planet Foods House of oubai Hub City Farmers Market



I AM WHOLE IG IMPAC Impact Health Impact International Liberia Inc. In Scope Ventures **Inquiry Health** Insight Architects, PC Insperity International Center for Community Development (ICCD) **IPIVX Growth Solutions** Jess Diamond Coaching Johnson & Wales University Johnson C. Smith University JP Morgan Chase Karma Contracting Kitchenology **Knepley LLC KRTL** International Corp **KRW** Packaging and Machinery La chica de los seguros LAWA LEAD Charlotte LeadBaller League of Women Voters League of Women Voters Charlotte Mecklenburg Live To Be Happy Loaves & Fishes Loaves & Fishes/Friendship Trays Local Food Forest M3 Innovations, LLC MAIDSTRIBELLC MaKee Company LLC (MKC) Mananalu Manolo's Bakery Master Builders Solutions Materia X Ltd Meals on Wheels Greenville County Mecklenburg County Meridian Staffing Services Meridian Technologies., Inc. Microhound Midan Marketing

MUFG Muggsy Bogues Foundation MyLÚA Health Nailed It Services. LLC National Association of Medication Access and Patient Advocacy National Birth Coalition NC General Assembly NC House of Representatives NC State Student Government NC State University NC State University Department of Food, Bioprocessing and Nutrition Sciences NC Tech Paths / The Masthead Network Charlotte **NEXDINE Hospitality** Norcity North Carolina State University North Group Novo Nordisk One Stop Wellness Center **Open Hand Atlanta Open Sustainability Collaborative OurBRIDGE for KIDS PACEs** Connection PAH International (Eastern Europe) Palmetto Infusion **Pappas Properties** Paris-Infra Pascuales Farm PDQ South Phillips Companies LLC Plumb Line Capital Partners, LLC Political and Energy Consultant PowerUp EDU **ProFarms Gateway** ProMotion Training Systems, Inc. **Propel Comprehensive Wellness** Queen City Loft, LLC Queen Hemp Company Queens University at Kingston Queens University of Charlotte Ranika Speaks, LLC **REACT Holdings Inc**



Reimagine Your City Relation Relationship Counseling Group, PLLC **Rensselaer Polytechnic Institute** Republica de El Salvador **Rich Tucker, LLC Rise Against Hunger Rivendell Farms of the Carolinas Rockwell Automation Rosa Parks Farmers Market** RTI Saint Joseph's University Saluda Community Land Trust Samaritan's Feet International Sealed air Sherwood Design Engineers, LTD. Shot Free Allergy SinnovaTek Slice of Jess, LLC Smart Bottle Inc Smarter Life International Sol-Cap Ltd co South Carolina State University South Side Food Forest **Sparks Spaces Sprung Structures** Starmount Healthcare Management Stealth Startup **Steeper Grown International** SunBelt Packaging LLC Sunny Creek Farm Sustaino LLC Swanson Girard associates Syracuse University Svsco Foods Tabbris **TechWorks Gaston Teens for Food Justice** Tenant Health Texas A&M AgriLife Research Center El Paso The Big Salad The Bulb The Bulb Gallery (Ebonee's Table) The Chef Heavens Kitchen

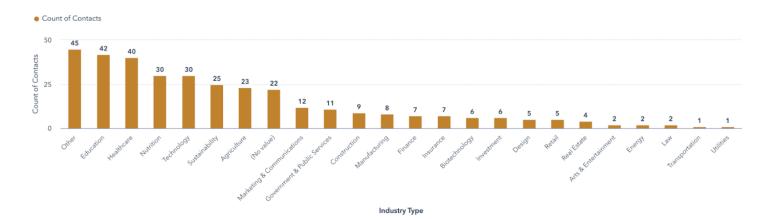
The Eikon Group The Federal Republic of Nigeria The Growth Syndicate The Hanes Group Government Affairs The Learning Innovation Group The National Birth Coalition The Queen's Collective The Silver Palette THEMUSHHUB COMPANY THS Tikka Shack Touio Trader Joe's Trees Charlotte **Trinity Health TSI-Global Companies Tufts University Tuxedo School Studios** U.S. Foods UCITY Family Zone / UNC Charlotte **UISAC/ CAACC ULG Navigators** Unite Us University City Partners University of Ghana University of North Carolina at Charlotte **US Green Building Council** Value Partners LLC **VEMAS North America** Verenovo Energy Vertical Solar LLC WCCB/Bahakel Communications Well with Ness, LLC Wellness by AO Wells Fargo Williams YMCA Windstream WIP International Services LLC World Wide Technology YMCA of Greater Charlotte YMCA of Greensboro Yoga FitTribe Youth United for Sustainable Development (YUSUD) Zolingo's Spice for Life



Virtual participation included numerous organizations, individuals, and listening groups spanning 5 continents and included participants from the following countries:

United States Canada Mexico El Salvador Argentina Brazil Columbia Ecuador England Germany Poland South Korea India Zaire Nigeria Democratic Republic of Congo Liberia Ghana Senegal Malawi Zimbabwe Somalia

In-Person Attendance Consisted of the Following Industries:



In leading the TEHNS Summit, Grow Local 's efforts also further developed connections between siloed verticals; focusing on health care, education, food, technology while highlighting existing and upcoming programs that better integrate those verticals across communities to promote healthier eating. The Summit showcased new programs and technologies, demonstrated public-private partnership opportunities, and equipped participants with new tools and understandings so that they could take immediate action to scale, broaden, or increase the effectiveness and reach of their efforts. Efforts focused on supporting positive change in the areas of nutrition and health and echo those efforts across a world stage. Simultaneously, this event birthed a special coalition (The TEHNS Coalition); assembled to constitute and engage an "Army of Doers" to leverage unrelated organizational efforts and achievements toward goals held in common.



Globally, Grow Local has been working with a myriad of health, aide, environmental, government and intergovernmental organizations along with various world leaders to address local challenges that impact millions of people. Grow Local's U.S. efforts are designed to be saleable and easily adapted and replicated abroad. The TEHNS Summit not only fostered domestic synergies but also highlighted how even the most local, granular efforts can forge connection and parity across the globe; fueling commonality and amplifying the good work of an "Army of Doers." Furthermore, U.S. technological ingenuity and programming featured at TEHNS have proven to be attractive and provide hope for humanitarian initiatives, promotion and safeguards for human rights, general environmental and community improvements, and stabilization for leaders like:

- King Shotobi of Ikorodu Nigeria who needs more nutritious and stable food systems for his people;
- Robert Chapman who is running for President of Zimbabwe on the hope of eradicating inequities and improving the health of his countrymen/women;
- AND even leaders labeled as controversial; like the president of El Salvador, Nayib Bukele, who recognizes that the basic needs of people transcend governments.

Ultimately, the TEHNS Summit provided a window into the work of Grow Local and numerous other entities along with a platform replete with powerful tools to address challenges in the U.S. and other developed, underdeveloped, and/or overstressed geographies and their inhabitants.

Goals

The TEHNS Summit was successful in achieving its primary goals which were to:

- 1. Facilitate high value connections and access to new resources.
- 2. Reveal novel ways to sustainably engage and educate.
- 3. Highlight real application of bleeding edge technology.
- 4. Share knowledge from innovative and provocative thought-leaders.
- 5. Show how public-private initiatives are materialized and driving impact.
- 6. Improve attendees' abilities to achieve success and scale efforts and awareness of their progress.
- 7. Report on and announce new programs, collaborations, commitments, and efforts.

Each goal was achieved as follows:

- 1. TEHNS facilitated high value connections and access to new resources by:
 - 1.1. providing a format conducive to facilitate conversation during the summit. A mixture of seating options was provided to allow people to freely move throughout the venue throughout the day. Primary seating was arranged in the form of large circular dining tables arranged on terraces that ascended up and away from the stage.
 - 1.2. Encouraging participants to collaborate with each other and get to know each other.
 - 1.3. Leading a workshop that required all participants to interact with each other.
 - 1.4. Explaining the purpose and function of the TEHNS Pledge and the coalition that was formed as a result of signing it.
 - 1.5. Providing a coalition resource registry that will be announced in the new year.
 - 1.6. Announcing and providing detail on programming initiatives that are currently running or coming available through organizations like Grow Local, Open Hand, Aquatree, NC State University, Food Is Medicine Coalition, Teens For Food Justice, PowerUp EDU, etc.

2. TEHNS revealed novel ways to sustainably engage and educate by:



- 2.1. Discussing new adaptations of existing programming and the introduction of new programming that is being implemented through Grow Local and its partner organizations. Programming that considers existing behaviors and systemic frameworks while deploying and utilizing new methodologies and insights to offer effective training.
- 2.2. Recognizing challenges as opportunities for innovation while considering how private sector interests and consumer habits can be evolved to advocate for public benefit.
- 2.3. Showcasing Sinnovatek and Aquatree technologies.
- 2.4. Showcasing technology and programing in real time.
 - 2.4.1. Aquatree table-top units were placed throughout the venue to not only help create ambiance but to allow people to interact with the technology first-hand.
 - 2.4.2. The event's lunch was made, in part, by pairing the technology and programming being discussed at the Summit. Matt Pieper of Open Hand discussed how Aquatree technology could be used to further involve individuals with their diet, how the technology could serve as a training tool and behavioral influencer, while providing access to the freshest and most nutrient-dense produce anyone could have. Chef Mendoza provided an example of the technology in practice as he used the produce to make the lunch that attendees ate. Note: all Aquatree produce was grown from seed to harvestable product in a 48 hour period.
 - 2.4.3. An Aquatree Ecosystem container was placed on site for demonstration purposes allowing participants the opportunity to be immersed in the technology and to experience the technology at scale.

3. Highlight real application of bleeding edge technology by:

- 3.1. Live interactive demonstrations.
- 3.2. A panel presentation by NC State University demonstrating the use, effect, and impact of a new continuous flow microwave technology and subsequent discussion of new technologies and programs and how they can be sustainable from programmatic, behavioral, financial, and environmental perspectives.
- 3.3. A lecture by Jason Cooner, Founder of Parisii, concerning digital exchanges and how carbon credits and Environmental, Social, & Governance (ESG) spend can be regulated and applied to help address malnourishment and access to food when paired with technologies like IOT and Aquatree.
- 3.4. Making an announcement concerning a new partnership with Grow Local and the CDC Foundation in the areas of research, education, nutrition and health.
- 3.5. Featuring programs from Charlotte Mecklenburg Schools, 100 Gardens, Open Hand Atlanta, Teens For Food Justice, Chef's Heaven Kitchen, Dr. Carlos Jorge, Dr. Marvin Mondaca, Dr. Josip Simunovic, and many others.

4. Share knowledge from innovative and provocative thought-leaders by:

4.1. Utilizing top-tier, expert speakers. See Speaker listing in next section.

5. Show how public-private initiatives are materialized and driving impact by:

- 5.1. Encouraging speakers to discuss effective program initiatives.
- 5.2. An armchair chat between philanthropist and Zimbabwe presidential hopeful Robert Chapman and Lisa Waddell, Chief Medical Officer of the Center for Disease Control Foundation.
- 5.3. A lecture by Jason Cooner, Founder of Parisii, where a discovery was made, via connections and exposure to technologies featured at the TEHNS Summit, whereby technology like Aquatree could provide additional profit streams to governments, communities, farmers, and



others; when paired with a platform like Parisii. Additionally, it was noted that such efforts would aid in achieving climate change mitigation while increasing the nutritional quality, health value, and security of the US food supply.

- 6. Improve attendees' abilities to achieve success and scale efforts and awareness of their progress by:
 - 6.1. Providing valuable information and insights to aide in efforts and understandings.
 - 6.2. Providing awareness of new and existing programs and technologies. Note: Additional information and access will be extended to attendees post Summit as is appropriate and desired. This information is also available to coalition members and others upon request.
 - 6.3. A workshop was conducted by Develop US Worldwide specifically to improve attendees' abilities to achieve success and scale efforts and awareness of their progress.
- 7. Report on and announce new programs, collaborations, commitments, and efforts by:
 - 7.1. Embedding such information in Summit programming and discussions.
 - 7.2. Making a series of announcements during the Final Remarks of the Summit.
 - 7.3. Providing this report for review and reference.

Speakers Preface

World-leading authorities along with national and global experts presented their views at the TEHNS Summit. They shared incredible stories, held thought provoking panel discussions, and collaborated with attendees on how to implement new resources. Powerful speaker and panel line-ups were paired with the debut of new technologies and announcements of new programs and partnerships. This delighted, empowered, and equipped attendee to drive results following the summit. The TEHNS Summit was a catalyst and game changer for many according to both outspoken speakers and attendees.

Speakers, Program, Bios

9:00 – Grow Local CEO: Chris Mau has traveled the world, dined with Kings, Queens, Heads of State, executives, and celebrities but still mows the lawn, takes out the garbage, and makes time to play with his kids. He has negotiated and consulted with governments, their agencies, militaries, appointed representatives, and lawmakers, foreign and domestic. He has informed multi-national policies and conducted business with some of the most impactful individuals and organizations in the world concerning digital technology, automation, supply chain, economic development, and business operations in the areas of healthcare, education, agriculture, defense, and manufacturing.

As Grow Local's CEO, Chris vowed to lead the organization through a period of significant expansion and scaled growth, promoting Grow Local's mission to "Feed the Future", and ensuring the integrity of the effort. The first public-facing steps begin with the launch of the TEHNS Summit where Chris brought together experts in Technology, Education, Health, Nutrition, and Sustainability, to further the education, collaboration, and the overall mission.

Chris's wit, sense of urgency, and tenacious nature, paired with his 20+ years of experience, skill, and international relationships, will prove to be invaluable ingredients for success. We are here to help Chris assemble an army of doers that deeply care about nutrition and health to sustainably drive the strategy, research, collaboration, innovation, education, and results that will help "Feed the Future."



9:00 Segment Summary: Opening Remarks.

This is the beginning of many good things to come. This event coming together is a testament to the will of people and the tenacity of folks when they decide to work together. There was only 10 weeks to go from an idea to this event materializing and to do that is an insurmountable feat to many.

Challenges, however, are inspirational. Challenges give an opportunity for creativity and that leads to innovation. We were inspired and embraced creativity to put this event together and meaningful action should come from it. Certainly, efforts like this test resolve and integrity -and sanity. But big things need to be done. There is no question about that.

A statement from the U.N. says: "The world is off course to meet nutrition targets. At our current pace, hunger, undernourishment, overweight and obesity will continue to burden all countries and hinder social and economic development around the world. An acceleration of progress is needed." If we consider the U.S., we are one of the most developed nations in the world yet we still have a measurable amount of our population that struggles to get enough food to eat in the course of the day. On top of this, we have an increasing percentage of our population that is dealing with obesity; yet are malnourished. In fact, malnourishment in the U.S. is rivaling many undeveloped nations around the world and many do not realize that fact.

This speaks to large issues that we have. If you want to look at how big these issues are, consider the fact that obesity adds about \$147B in healthcare costs as a nation and that's just our country (Center for Disease Control). This effects so many others. These are issues that the world is struggling with. Outside of obesity, if you look at malnourishment, it is also a real challenge for us. \$15.5B a year in additional healthcare costs; just here in the U.S. according to a PloS One Study.





So, clearly, things need to change but where do we make those changes? And how do we make those changes? And where do the resources and will come from to make those changes?

Some of the answers are here at the TEHNS Summit. Some of the answers are yet to be figured out. But we need to figure it out. Perhaps this will help highlight some of what is happening and the urgency that is behind this and how oddly things have developed over the years: If we look at 200 years ago, back to 1822, the average person ate between 1 and 7lbs of sugar in a year depending largely on their financial means. Today, the average American consumes 100 to 150lbs of sugar in a year. Sugar is not being picked on here. Sugar isn't bad. It is the quantity. It is the level of intake.

This is just like medicine. If you look at food as a medicine. Medicine, no matter what it is, is not bad. It is the dosage that we need to be concerned about. Too much of anything is not good for you. Not enough of certain things is not good for you.

It is looking at issues like that. That is why the WHCHNH was held. It had been 50 years since it was last held and, clearly, a lot has changed in those 50 years. A lot has changed in the last 200 years certainly but a lot has changed in even the past 10 years. If you look at supply chains, how food is made, even something as simple as bread, it has changed.

A recent conversation talking about bread revealed that the bread given out in the breadlines during the depression era is chemically not even the same thing as the bread that is commonly eaten today. It has changed. But there are things outside of this that we need to look at. It is not just supply chains. It's not just additives in our food. It's our habits. It's the disconnection that people have from their food.

So how do we address this? We think that people and organizations need new tools, resources, and programming. They need opportunities and they need awareness of the efforts that are being made every single day. Today, it is the hope that together, we will start filling the gaps and begin making big moves.

Big moves are what is needed here. At this summit, you will see things that are happening right now. You will see bleeding edge technology in real life right here in the room and just outside of the venue. And you will experience new and novel ways to engage and educate. And education is a big piece of what is being done here. You will also see and hear about challenges but we hope you begin to see challenges as opportunities. We will highlight public-private partnerships that are materializing and look at how we can help you improve, scale your efforts, and get more involved.

Key partners and sponsors were acknowledged.

Key partners included: Open Hand Atlanta, Sunny Creek Farms, PowerUp EDU, NC State University, Teens For Food Justice, DevelopUs Worldwide, and CorporateConnections.

Grow Local is the official title sponsor for the 2022 TEHNS Summit. Meridian Technologies, The Chef | Heaven's Kitchen, Corporate Connections, Develop Us Worldwide, Alles IOT, Open Hand, and THS National were supporting sponsors.

Special thanks was given to Shriners Oasis, Grow Local Staff, and the TEHNS Planning Committee.



The TEHNS Pledge was acknowledged. It was explained that the pledge was designed around common ground with low threshold ways to connect so that alliances could be formed that did not exist previously to expand reach, audience, and capabilities. Everyone is here to move the needle on Technology, Education, Health, Nutrition, and Sustainability. So, let's work together in ways that we can find common ground to do this.

9:15 – Dr. Marvin Moncada Ph.D. has a long and impressive history in food science and food technology. He has a PhD in Food Science and Nutrition, and work experience that includes roles as a food scientist and plant manager at the Louisiana State University AgCenter Food Incubator. He has received the Certified Food Scientist award from the International Food Science Certification Commission and the Institute of Food Technologist. To say that he is an expert in this topic of food science is an understatement. His research interests focus on alternative and innovative food ingredient technologies from upcycling plants, fruits, vegetables, and grains. He currently serves as a Principle and Co-Principal Investigator, leading research activities on industrial and USDA research projects, and is the Assistant Professor, Plant Food Processing at NC State University.



9:15 Segment Summary: A presentation focused on sustainability & upcycling at the farm and industry level. The discussion focused on the mitigation of food waste and how to allow the farmer an opportunity to gain value and increase revenues while achieving environmental goals and improving supply chain and food access. 1.3 billion tons of food are wasted in the U.S. currently which equals 15.3% of produce that never even makes it to market.

New technologies introduced with programming at regional and Federal levels can greatly improve sustainability and add new profit centers where there have traditionally been losses and waste. Environmentally, such technologies can be significant since 85% of greenhouse gas emissions come from food waste (considering all sources: field to landfill), water usage can be significantly reduced, and food miles can be reduced.

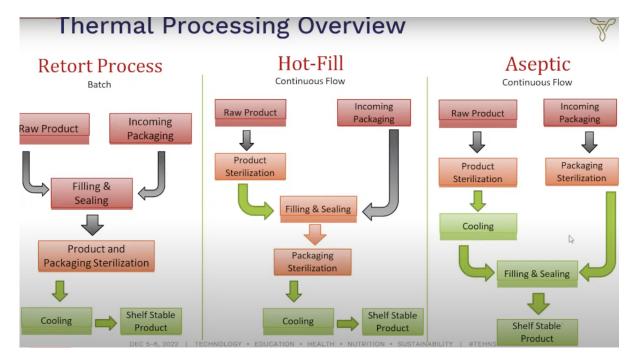


Examples of NC State affiliated emerging technology for farm and industry that promote sustainability include:

• Refractance Window Drying which offers the highest retention of bioactive compounds.



• Thermal Processing.





• Continuous Flow Microwave Sterilization which retains most bioactive compounds.



New technology and associative programming can eliminate nearly all food waste at the farm level since it makes changes to current industry practices. The significance of this is staggering as NC, where the TEHNS Summit was held, sees 42% of its crops go to waste, having never been harvested. This fact takes on additional meaning when considering food insecurity effects 14% of the population in the rural areas where this waste occurs.

9:45 – NC State University Sustainability Panel with Dr. Marvin Moncada Ph.D.

Dr. Josip Simunovic Ph.D. has focused his work around food science and nutrition, leading industry innovations including continuous flow thermal processes and the development and implementation of equipment, tools, and software that reduce waste and increase shelf life without the use of additives and preservatives

Dr. Carlos Jorge MD has a focus on holistic care and has been in healthcare over 20 years, is the only triple board certified doctor of family medicine, lipidology, and functional medicine & anti-aging physician in Charlotte, NC.

Jennifer De La Jara, Charlotte Mecklenburg, School Board (At-Large) has used her decade+ of experience, including her work at International House, to effectively serve as an influential campaigner and delegate for diverse local, national, and global communities within the education sector promoting representation, inclusion, and cultural understanding.

Conner Knepley, Co-Founder, Alles IOT is an innovator and entrepreneur that arose from one of the largest global industrial automation providers in the world. Conner is a digital transformation expert with a particular focus on the convergence of people, technology, and sustainable food production.



Katherine Soll, CEO Teens For Food Justice is using her passion and experience to lay the foundation for a sustainable youth- led social justice movement to close gaps in food access, health, and opportunity and advise in various capacities for organizations Like the Food and Nutrition Innovation Council and the Healthy Living Coalition.

9:45 Segment Summary: Panel discussion on sustainability: environmental, financial, programmatic, behavioral. Summarized Q & A below.



- Q: How can people, institutions, and agencies be incentivized to put in the effort needed to sustainably change or alter their behaviors?
- A: [To Change behaviors food systems need to be re-thought and re-designed; requiring rethinking the way we grow, process, distribute, and consume food. It is critical to embed information from events like [The TEHNS Summit] into education systems and make children aware of political realities and systemic injustices that lead some people to be over-fed while being undernourished. There are structural reasons why healthy food is absent or hard to get in certain communities (including schools). People also need education about other types of food and technology to assist. If we want to make these fundamental changes, we need to look toward our youth and have a collective change in mindset.] -Katherine Soll
- A: [Government plays a large roll in policy change. The NC State Education Board will be reevaluating State science standards this year. As programs like those by Teens For Food Justice are aligned to State standards, there are opportunities for advocacy to allow change so that new standards can be developed and incorporated. More research is needed to support dedication of class time toward these areas and factually support the effort to make changes to standards. Funding must accompany any changes so that the effort is successful.



Providing access and education to parents is sometimes a struggle. Creative ways to reach and engage parents is needed. Teaching children and engaging parents through community-based learning is important as well.] -Jennifer De La Jara

- A: [Gamification is critical; especially in a world of instant gratification. Gamification can be used to make behaviors become a habit. Corporations already to this in many ways i.e. wearing a pedometer to track your steps and compete with a co-worker to reach corporate health goals or to get money off of health insurance programs. PowerUp Edu has an example of how to gamify education at the Summit today. All parties: schools, individuals, agencies, and institutions can incentivize through gamification.] -Conner Knepley
- A: [This is difficult given requirements of insurance companies to support patients/clients to do the behaviors that they need to do. We pay for sick care and that is a problem. The conversation needs to shift to: how do we maintain optical wellness? The underprivileged communities are the ones often suffering because of the food policies that exist.

This is not just an issue in the U.S.. The fastest growing population of diabetics is in India. In fact, it is a public health pandemic. Abroad or here in the U.S., political, school, healthcare, and other policies need to unify in what they want to accomplish.] -Dr. Carlos Jorge M.D.

A: [Speaking to the industrial food processing framework, what is needed is a solid science basis, a foundation -and that has existed for decades. Next, we need technologies to assist with solving the problems. Appropriate training and education is then needed to incorporate these new technologies. Technology and education must be updated to match with goals and outcomes. Food should not be overprocessed and "safe enough." We are wasting nutrients and profits and resources like energy and burdening our environment with unnecessary pollution.] -Dr. Josip Simunovic Ph.D.

Programs & Technology

- Q: What are some of the greatest program and technology barriers to sustainable health and nutrition efforts in schools and healthcare?
- A: [We are losing nutrients by using current, industry adopted, technologies. Delivering food as fresh is critically important.] -Dr. Marvin Moncada Ph.D.
- A: [There are 4 big crops that we dealing with: Soybean, corn, wheat, sugarcane. Most of us need to be eating whole, plant-based nutrition. It doesn't mean we should not eat those things. Nutritious people are eating with a sense of nutritional purpose. Part of what we need to do is find a way to deliver food that is actually nutritionally dense; and while this is great, we also need to look what we are growing and how we grow our food: health regenerative planting and our food sources. It is the key to reversing a lot of the health-based issues we are dealing with.] -Dr. Carlos Jorge M.D.
- A: [We also need to look at alternative methods of farming that are saving water, that are relieving the land of its obligations to grow under strained conditions. Closed environmental agriculture has the ability to produce leafy greens, microgreens, tomatoes, and many other crops and can remove the land burden and when you pair regenerative



agriculture with closed environment farming, it can take the burden off of the land and society to produce health food and make everything more feasible.

One of the biggest barriers we have is that when we are looking at these issues, we are not taking a wholistic approach -from a system-by-system standpoint. As an example, schools' programs to teach kids are not connected with school programs to feed kids. Systems need to be connected on a far grander scale however: farm, industry, school, community, healthcare. A comprehensive strategy and approach is needed. Instead of treating disease and problems, we need to be preventing disease and problems.] - Katherine Soll

- A: [Last year we (Charlotte Mecklenburg Schools) spent \$550,000 on a farm to table program but it doesn't come without challenges at a basic level, we do not have kitchens facilities that are capable of processing foods to the degree we would like to. Some of our schools are in such poor condition that we have to process food at other sites. The State of NC has not issued a structural security bond since 1996. We hope to have a school bond at the county level in 2023. We are woefully behind in facilities and structures and how schools are designed. This comes down to policy change and political will. Voters need to create a groundswell indicating that they want this change. We either make the investment on the front end or pay for it on the back end. We need to think about investing in the future.] -Jennifer De La Jara
- Q: How can challenges be met head-on with new technologies and programming to drive positive sustainable positive outcomes concerning nutrition and health?
- A: [Approaches must be sustainable, practical, and maintainable long-term. Skilled worker shortages are an issue. People are retiring and taking that knowledge with them and younger generations are looking for a different lifestyle that does not align with farming operations. Automation and IOT technology are critical to bringing sustainability. A software program can imitate knowledge and enforce it through automation. This creates circumstances that are attractive to a younger generation who is interested in interacting with new technologies. This is sustainable.] -Conner Knepley
- A: The food industry needs to not just look at just substituting meats but also replacing meatbased meals with options that are non-meat-based. Vegetarian options are rare and few between yet are far more sustainable and healthier. We can learn a lot from countries where their cuisine that are mostly based on vegetables, beans, and alternative grains. We have a lot we can learn from India and Africa. We have the technology and means to implement change but we need "big industry" to get on the bandwagon so we do not keep repeating variations of the same formulations. -Dr. Josip Simunovic Ph.D.
- A: [I was recently at the Food and Nutrition Innovation and Council by Tufts University Friedman School of Public Health and we were talking about challenges that large food processors have and their response was "but it's got to taste good and we have got to be able to sell it." People's tastes are formed very young, so if we are not providing kids with a different pallet, flavor profile, and texture profile from a very early age, we will not accomplish these goals. The greatest potential for impact is in schools and daycares and other settings where kids are congregating and where many children are, sadly, getting



their only meal of the day. We need to institutionalize thinking about how we change people's pallets and understandings of flavor and texture.

If we are going to build this technologically driven change, we must train young people to be participants and leaders. Farming is not farming anymore. Farms are fully automated. We need to prepare young people for a different world in how we grow food and how we consume it.] -Katherine Soll

A: More and more there is a gamification of exercise movement and nutrition AND the healthcare application of technology. Food reporting is one of the most tedious things to do -going into an app and identifying all the things you have eaten. This leaves room for opportunity on the technology side of the equation however to simplify what they are eating and what good options are. -Dr. Carlos Jorge M.D.

Finance & Environment

- Q: Can we use technology to drive costs down for healthy foods?
- A: [A bottle of water in Mexico costs three times more than a bottle of Coke. The reality is that until Madison Avenue is taken out of food advertising, we are facing an uphill battle.

Currently, we export the world's worst diet to every country. Latin America, Africa, Asia are all experiencing higher levels of chronic diseases because we have exported the world's worst diet to their countries. A lot of that is driven by profit.

In the United States, insurance companies, healthcare companies, and pharmaceutical companies are subject to the same motive and are not fully incentivized to prevent disease. Prevention effects their bottom line. As a healthcare provider it is a frustrating and disappointing to see disease figures every day like that, we spend 17% of GDP on healthcare. Of that, 85% of \$3.2 Billion dollars is attributable to preventative diseases. Our outcomes are not good. We rank about 67th of all other developed nations. We have to find a way to sell [prevention].]. -Dr. Carlos Jorge M.D.

- A: [Represented here are different groups that represent different parts of the overall system. This shows an integrated food system; at least to an extent. The way that food technology can help is by reducing the cost, increasing nutrient retention, and increasing accessibility. Good PR is needed.] -Dr. Josip Simunovic Ph.D.
- A: [There is great hope that technology can decrease costs. We must keep food costs at or below \$4.34/meal for reimbursement from the USDA. The reality is that it is very hard to provide fresh, highly nutritious food at that price point that is desirable plus then consider: texture, pallet, etcetera. It is necessary and worth it to advocate in Washington for policy change, more freedom, flexibility, and budget.] -Jennifer De La Jara
- Q: What does improved nutrition and health mean to the bottom line of nations, economies, businesses, schools, individuals and society at large?
- A: [Our healthcare costs are not going down, despite that we keep spending more.



- The average person spends \$12,000.00/person/year for healthcare in the U.S.. The next highest is around \$7,500 \$7,800 per person.
- 30 years ago, most States had less than 20% or less of their population that were obese. Now, no States have 20% or less of their population that are obese.
- 40% of our population is obese in the United States

Most of our healthcare costs are related to nutrition, stress, and other preventable factors and we are dealing with a population that is getting sicker and this puts strain on all of us.] -Dr. Carlos Jorge M.D.

A: [The idea of blowing up the food system and starting from scratch is something we should think about. How would you remake the food system? Kids can partner with food programs at schools (the cafeteria) using technology programs in the classroom to keep costs under the USDA cap. We have done this successfully.

Think about this... we don't have enough insulin to meet the needs of the existing diabetics in this country. Also, food is a national security concern. Numerous generals and other top officials have told us that due to obesity as a condition to underlying health issues, people are not fit to serve. If we are setting our population up to be unfit, it is a crisis. Our government programs subsidize certain kinds of food: soybean, corn, wheat, and sugarcane and our government does not subsidize the production of fresh fruits, vegetables, and microgreens or foods that are nutrient dense.] -Katherine Soll

- A: [We should look at blowing up nutrition labeling because it does not realistically reflect what is in the food that we are eating. Bioactive ingredients should also be identified and labels should quantify how processed food is and what it takes to get it to the consumer. Color bars could be used for each ingredient or the product as a whole. People are pretty smart about consumers and this could be used as a tool to push back against overprocessing, outdated technology, and getting more nutrition. People are paying for nutrition but are just not getting it.] -Dr. Josip Simunovic Ph.D.
- A: [Security concerns are an interesting concern to consider. The disproportion of the effects of health conditions played out in our communities is another circumstance we need to think about. Health disparities influence our education. We know that health disparities affect in-school time of students. In many ways we are in a crisis, we look at labor, health, academic performance, it all affects the bottom line. These are real concerns that we have we need to address barriers and challenges to the wholistic approach.] -Jennifer De La Jara
- Q: What are you most excited about and what keeps you fighting the fight?
- A: [In this room we have representation of key players and we are all trying to do something about the issues. If we teach new systems, we are providing the change needed!] -Dr. Marvin Moncada Ph.D.
- A: [Actionable change. The role data plays in that is exciting. Never before have we had access to the data that we have today. Data that drives real behavioral change. Information can stick to people and drive change. Personal data is driving personal



change (Apple watch, Aura ring). The more access people can have to data, the more can be done.] -Conner Knepley

- A: [Actionable change being driven by students. Giving them the opportunity to help problem solve. What a great way to fundamentally change the future by having the children lead. It will solve for generations to come if we take that approach.] -Jennifer De La Jara
- A: [Electrification of the food industry. Any industry that has had an opportunity for a quantum leap changes dramatically. Once chips enter the game, things change drastically. We are at the beginning of this. Africa can feed this planet ten times over. It has many needs. Technology will drive change. Africa is not burdened by gigantic systems like the U.S. so, if given resources, it can get there quickly.] -Dr. Josip Simunovic Ph.D.
- A: [All of these conversations are happening at the global, federal, state, and local levels. In 2013, many people did not even know what food security even was. There are many diverse stakeholders looking at the issues to affect change. The kids keep me excited.] -Katherine Soll
- A: [Awareness that people are having around these issues. Patients are listening and providing feedback about changes that are what are driving the tsunami of change that will change our health, environment, and the future.] -Dr. Carlos Jorge M.D.

11:00 – **Nikki and Bradley Bozeman** represent The Bradley and Nikki Bozeman Foundation which was started in 2018 to help combat food insecurity in cities across America. During Covid-19 the Bozeman Foundation shifted all of their resources and efforts to feed families in their area. Since 2020 The Bradley and Nikki Bozeman Foundation has served over 3 MILLION meals and counting. Their cornerstone program, The SYNC (Sink) Snack Program provides meaningful food and academic support to children living in our disadvantaged communities. These boxes are distributed through their partners at local Police Departments daily to children living in underserved communities. The small white 6×6 SYNC[™] Snack Boxes consists of kid-friendly snacks. The contents of the boxes are paired with critical academic and instructional resource materials delivered to the children through QR placed on the outside of the boxes. The kids are able to scan these QR codes to access additional food support, educational resources, leadership and healthy lifestyle programming. This program aims to mend the divide between our local law enforcement and their communities one box at a time!

11:00 Segment Summary: A dialogue focused on impact and persistence.





People have to work hard every day to get initiatives off the ground -much like sports. Bradley has done this with his athletic career and through the work of Bradley and Nikki and others at the Bozeman foundation. A player on the field can transition persistence into impact in the outside world and help level the playing field in the lives of people in the community.

The Bozeman Foundation started as an anti-bullying campaign. The campaign delivered a high level of impact to approximately 100K kids. The impact happened as a result of the persistence of Nikki and Bradley and using minimal resources, their notoriety, and a camper. The work was done by the pair traveling the country in a camper and visiting schools desiring their presence and message. The Bozeman's began receiving emails from children to help with more basic needs, specifically food. They discovered that many kids receive all or nearly all their meals from school.

The Bozemans began a new program assembling boxes of food for kids containing milk, eggs, bread, and other staples. Kids were not eating the staple foods because they couldn't do anything with it and it did not coincide with their tastes and preferences, so the Bozeman's engaged the kids and involved them with determining what went into the food boxes. While some might disagree with the food selections included, kids were now receiving and eating food.

The duo went a further step and made a conscious choice to focus on the inclusion of name-brand foods and avoid generic foods. The purpose of this decision was to help give kids a sense of normalcy and allow kids to feel more accepted and on an equal footing with their peers.

At this point, the police began getting involved in programming since people had trouble physically getting to the Bozeman's and back home due to transportation issues. Police involvement helped greatly and continues to expand offering needed food assistance, especially in times of crisis while improving relations with law enforcement. Police departments that have implemented the program have kids flocking toward police cars rather than avoiding and fearing them.



QR codes have also been introduced as programming expands allowing kids to interact with the Bozeman Foundation. These QR codes are found on food boxes and other carefully selected locations. When it was discovered that kids walk miles to access WIFI and that WIFI was being used to lure kids into afterschool programs, it was discovered that technology could be a good way to further engage children and better address needs.

Undoubtedly, the food box programing offered through the Bozeman Foundation is impactful, but its inception, development, and expansion never would have materialized had it not been for healthy amounts of persistence. "Everyone has a platform and a way to give back. It comes down to having the will and persistence to [drive impact] and do it." -Nikki Bozeman

11:15 – **Richard Seline** comes with a powerhouse background that includes senior-level roles in business, economics, and technology-focused strategic development for federal and state agencies, academic research institutions, civic-led initiatives, and the private sector.

Just a few of his roles include, Deputy Assistant Secretary of the US Department of Commerce – Economic Development Administration, Chief of Staff of the President's Commission on Executive Exchange, Congressional Liaison to the Persian Gulf Task Force for the Environmental Protection Agency, Director of Client and Industry Relations for the US General Services Administration, and White House Liaison to the Economic Summit of Industrialized Nations.

He's served as the Senior Advisor and co-lead for reorganization of several Cabinet-level and agency operations, and co-chair and author of the National Council of Public-Private Partnership's Transforming Federal-Private Partnerships for New Investments and Alternative Resource Allocation that led to significant changes in policies, rules, and practices in procurement reform.

He serves as the Co-Founder and Managing Director of the Resilience Innovation Hub and Collaboratory Network, as well as the Managing Partner of The ROAR Partnership, a national investment advisory firm connecting pre-disaster risk mitigation and resources for locations identified as "Most At Risk and Most In Need".

His immediate attention is towards launching and scaling "Community Disaster Resilience Zones" and "Smart Watershed Management & Mitigation Networks" in collaboration with private-philanthropic-public sectors.

11:15 Segment Summary: Technology and innovation to address nutrition.





Since 2002, the U.S. has experienced \$4 trillion of losses tied to disasters. 50% of these losses have been in the last 7 years. The problem is that we are stacking disasters -one on top of the other. We are in a continual sate of preparing, experiencing, and recovering from disaster. This is not sustainable.

The Wharton School of the University of Pennsylvania said that it is a 6:1 better investment to spend ahead of the curve. Grow Local and all of those participating at the TEHNS Summit understand this and are focused on building resilience and thriving; not just surviving. We should all be focused on a resilience model. Coincidentally, we have developed this into a program:





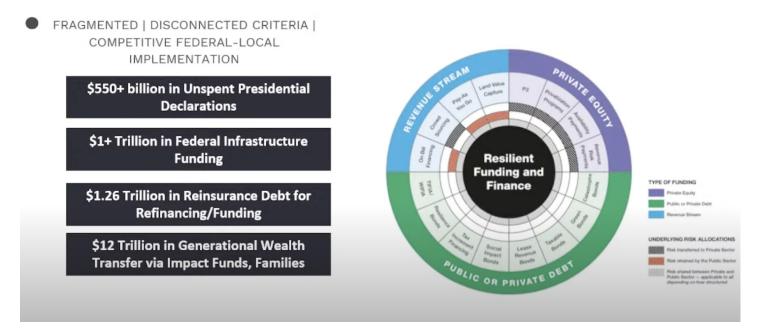
This programming will change people and the dynamics of disasters. People currently know that police, fire, and EMS will save them during a disaster. Instead, we need to become the first responders and more self-reliant. Supply chains break and we saw this with Covid. We can fix this by unleashing innovators and allowing them the ability to drive lasting change.

Currently, a disaster happens, there is a response from government: police, fire, EMS, the national guard, and often checks are written. Nothing changes. This is not sustainable. Technologies like the ones shown at this Summit with people trained on how to use them will, however, drive change. The Aquatree and the Aquatree Ecosystem container at this Summit shows not just a short-term solution to addressing nutritional needs during a disaster but a long-term commitment. This is what we ought to invest in. There is money to do it and this and other technology fix other problems spoken about at this Summit too!

Food scarcity does not exist in this country. We have a distribution and allocation problem. We do not have food scarcity. For those who say it is a money issue, money is not an issue either. Instead, there is an application issue. Look at this:

Abundance of Resources: A Challenge for Innovation





The reinsurance industry realizes that the more a community is thriving, the more economically sound the individuals within that community are. There is \$1.23 trillion of reinsurance money that must be reinvested in 2023. There is not a money issue.

There is a will to make change. Look at the White House Conference on Hunger Nutrition and Health. Look at you here. Look at the bipartisan effort on Capitol Hill where legislation moved through the Senate and into the House regarding the creation of Community Disaster Resilience Zones. This is a truly bipartisan effort. 837 of these zones were created and capital can be deployed in a new way. Now we need to find good locations within these zones to put this money to work. We



are looking to find locations to pilot and demonstrate what we can do to unleash the innovators and invest in lasting change.

Now, we need to get people to join the army that Chris is recruiting with Grow Local. As part of this, we want to deploy the Resilient Citizens Corps. We have identified 55 different jobs in the resilience category that no one at the Department of Labor has yet caught on to. We can train, employ, and deploy a wide range of citizens and organizations. An example of this is Norcity:



We need to be sustainable with what we do. We need to be more resilient. We need to break out of unsustainable patterns and unleash innovation and funds that can allow people to thrive. We need to be better at allocating, distributing, and supporting this effort. We need to make the commitment.

11:40 – Chef Roberto Mendoza is an internationally recognized culinary innovator, educator, television persona, humanitarian, lecturer, and founder of chef heavens kitchen. All this in addition to being a semi-regular chef at The White House. He has cooked for numerous world leaders including every U.S. President dating back to the Bush years and is an expert specializing in international cuisine, ayurvedic diet, and the medicinal potential of food.

11:40 Segment Summary: An introduction to lunch, the nutrition mission, and personal story.





Chef Mendoza shared that he is working to bring new technologies to the country he is from: El Salvador. With Sinovatek he can help make sure food is not wasted and more food can be brought to the United States.

The produce used in the lunch served at the Summit came from the Aquatree technology seen inside the venue (they look like living lamps) and the Aquatree container displayed outside the venue.







A Mung Dal salad was made mostly of produce growth in the Aquatree. It also contained apple, cranberry, and spices. Mung Dahl is a nutritional salad. There was also a chicken salad wrap made with nutrition centric ingredients from Aquatree. For a dessert, a nutritious take on the cookie; containing fig, coconut, and nuts. Ayurvedic food like this is used to prevent disease according to Chef Mendoza.

Fusion drinks from Peru made of vegetables and fruits were also available for attendees to try. The fusion drinks contained bioactive compounds, no sugar, no preservatives and were designed to support specific health goals.

Chef commented (in summary): "I have cooked for Sri Sri Ravi Shankar, who is regarded as a living God in India. I have cooked for presidents, and many others; but it is an honor for me to cook for all of you. I have been excited to do this for months."





Chef Roberto Mendoza

The Chef Heaven's Kitchen Founder

Chef took a moment to share a book created with the Levine Cancer Institute containing input from every country in Latin America and parts of Africa on how to use food to help prevent cancer and then shared his personal story dealing with adversity, struggle, hope, persistence, love, passion, and dedication. Starting from his youth and his experience with starvation he worked his way up from poverty, dealing with abduction, natural disaster, deportation, salvation, and his rise to the top cooking for everyone from the homeless to the most wealthy and famous people in the world.

12:00 – Lunch

12:30 – **Matt Pieper** has been an integral part of Open Hand Atlanta for the past 13 years. Open Hand is a not-for-profit that cooks, packages and delivers over 5,000 medically tailored meals a day to neighbors in need in metro-Atlanta and many surrounding Georgia counties. Open Hand also provides nutrition education and counseling for clients facing a chronic disease diagnosis.

In addition to his role as Executive Director, Matt serves as a Vice Chair of the Board of Advisors for the national Food Is Medicine Coalition, and as President for the Meals on Wheels of Georgia Board of Directors, and serves on the Board of Directors for Rotary Club of Buckhead where he has been a proud Rotarian since 2010. He is also an active member of the Atlanta Regional Collaborative for Health Improvement and speaks frequently as a public policy advocate for the role community-based nutrition interventions play in helping to achieve better health outcomes.

In 2016 and 2017, Matt was listed in The Atlanta Business Chronicle's Top 50 Influential Nonprofit Leaders in Atlanta. Additionally, he is a member of the Georgia Council on Aging, Metropolitan Atlanta HIV Health Services Planning Council, and is a member of Leadership Atlanta's Class of 2018.

12:30 Segment Summary: The Food Is Medicine Movement and Open Hand's contribution to helping people to achieve better health outcomes, patient satisfaction, and lowering cost of care.







As a country, we spend more money on healthcare than just about any country around the globe and yet we have some of the worst health outcomes. The WHO says look at our food supply. They also say: stop smoking and exercise more but the food supply and what we have been feeding ourselves over the last half-century is, frankly, killing us.

We demanded fast food. We wanted processed food. We are not cooking fresh food anymore and as a result, we have some of the worst health outcomes in the world. That is the problem we are trying to solve.

Open Hand's vision is to create greater access to healthy food and truly medically tailored food and help at-risk individuals have greater access so that they can have a better chance of overcoming or preventing chronic disease which will lower costs for our country.

It is a myth that healthy food is expensive. We can feed a person for 9 months for the same cost as a 1 day stay in the average hospital -The American Hospital Association Annual Survey 2019. When looking through this lens, nutritional services as a low-cost intervention.



Nutrition is an inexpensive health intervention



Hospital Adjusted Expenses per Inpatient Day

Open Hand debunks the thinking that good, healthy, nutritious food cannot taste delicious. There is a lot of science and creativity behind this. Aside from cooking and delivering food and better health outcomes, Open Hand does research and pilot programs to demonstrate effectiveness and ability. Still, it is not enough to put food in front of people, so Open Hand helps people understand good food and health outcomes. There are a variety of interventions and teaching/training programs Open Hand provides ranging from cooking classes to one-on-one counseling to group counseling.

Perhaps most of all, Open Hand provides love. Open Hand serves both sides of the socio-economic spectrum and actually cares and shows this through interactions with clients and the level of care that goes into its services. During the Covid pandemic, Open Hand worked with authorities to continue and expand services.



Open Hand is community-based, and has a storied history of serving the community

- 34 Years of Service
- 34,000,000 Medically Appropriate Mea
- 14,000 Annual Volunteers
- 5,000+ Meals Each Day
- Statewide service
- 120 Employees
- 8 Registered & Licensed Dietitians
- 400 Meals to choose from in

client-centered menu options





Open Hand does not charge clients for its meals. Instead, the organization works with a number of government programs, non-governmental entities, and donors to garner funding in support of services. As a result, Open Hand has been able to keep people motivated, and stay on a plan to get people into a controlled state and even in some cases reverse chronic health conditions.

Medically-tailored meals: Menu development critical to succes

- Developed by a team of experienced Registered Dietitian Nutritionists, cooked fresh by our team of chefs, and frozen to lock in important nutrients.
- Heart healthy, with controlled sodium and saturated fat levels
- Diabetes-friendly, with controlled carbohydrates and fiber levels
- Aligned with or exceed recommendations from the Food and Drug Administration, American Heart Association, National Kidney Foundation, and American Diabetes Association









1:00 – Dr. Dariush Mozzafarian is a cardiologist, the Special Advisor to the Provost, Dean for Policy, and Jean Mayer Professor at the Tufts Friedman School of Nutrition Science and Policy, and Professor of Medicine at Tufts School of Medicine. He has stepped away from his role as Dean for the 2022-23 academic year, returning on July 1, 2023, to focus on the translation and dissemination of scientific evidence into public awareness, policy, and innovation, including to help inform the White House Conference on Hunger, Nutrition, and Health.

His work aims to create the science and translation for a food system that is nutritious, equitable, and sustainable. He has authored more than 500 scientific publications on dietary priorities for obesity, diabetes, and cardiovascular diseases, and on evidence-based policy approaches and innovations to reduce diet-related diseases in the US and globally. He has served in numerous advisory roles, and his work has been featured in a wide array of media outlets. Thomson Reuters has named him as one of the World's Most Influential Scientific Minds.

1:00 Segment Summary: Integrating food and nutrition into healthcare and education through thinking about food as medicine, not reducing it into drugs, and using the power of food to prevent and treat disease.



All physicians should be interested in nutrition. In fact, nutrition should be the top focus for all physicians. Poor diet is the top cause of death in the United States; estimate to cause 600 thousand deaths a year. So, to care about health, we must care about food.

More adults are sick today than are healthy and this alone should make us stop, take notice and fix our food. Only 1 in 15 adults are metabolically healthy meaning 93% of U.S. adults are unhealthy. The same is true among children. By the time kids today reach the age of 35, 57% will be obese. Minorities have it worse where 65% will be obese.



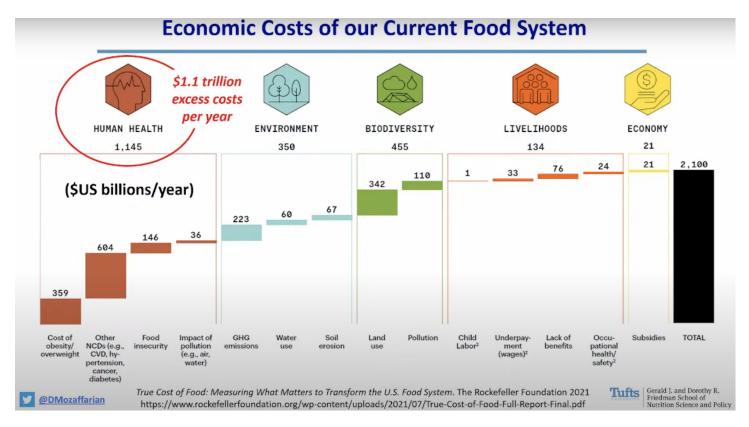
More American adults are sick than are healthy: 1 in 2 have diabetes or prediabetes 3 in 4 have overweight or obesity Only 1 in 15 are metabolically healthy Among American teenagers: 1 in 4 have prediabetes

1 in 4 have overweight or obesity

1 in 6 have fatty liver disease



All of these facts lead to crushing healthcare costs. In 50 years we have moved from 7% to 18% of GDP accounting for healthcare costs; now composing approximately 30% of our national and state budgets. 80% of this spending is for preventable diet related diseases. Just looking at spending for diabetes, the U.S. alone spends 160 Billion dollars a year.



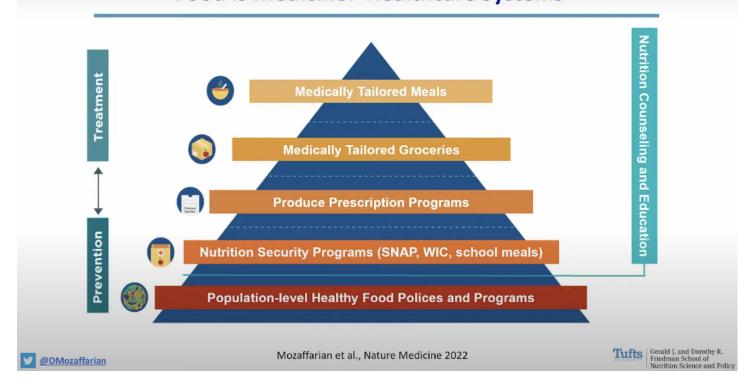


To shift as a society and fix the problems, we need to get our policies right. Instead of focusing on sugar free or low fat, we need to focus on the whole diet. Also, there are protective foods that we should be eating and focus on increasing. There is a lot we need to better understand about processed foods, including synthetic ingredients, additives, contaminates, etcetera and how they impact the microbiome of the gut.

There are clear evidence based things we need to do and areas we need to focus:

Healthcare	Govt. Nutrition	Science &	Public Health	Business	National
Systems	Programs	Research	& Education	Innovation	Coordination
 Medically tailored meals Produce Rx RD counseling MD nutrition education EHR screening Billing & quality metrics 	 Nutrition in school meals, SNAP, WIC Summer EBT Fresh F&V programs School garden programs National procurement 	 NIH: National Institute of Nutrition (NIN) USDA: nexus of production, health, sustainability Public-private partnerships OSTP PCAST 	 Limits on salt, added sugar Front-of-pack labels Warning labels U.S. Dietary Guidelines Marketing to children Qualified health claims CDC DNPAO Surveillance 	 Market expansion Tax policy for food/nutrition innovation ESG investor metrics BIPOC food entrepreneurs B Corp status Opportunity zones 	 National Director of Food & Nutrition National strategy (e.g. NEPA) Interagency Task Force White House Conference

We must have a national plan. We need to integrate food as medicine into the healthcare system: Food is Medicine: Healthcare Systems



All these programs including nutritional education and counseling are very important. This is where technology can really play a role. In produce prescription programs, using technology can be as



simple as using a voucher card or even online apps. It is very exciting to think about technology in healthcare to deliver nutrition to patients. There are many programs underway:

_	Food is Medicine: Rapidly Accelerating Actions
	 2016 John Hancock: Vitality, first life insurance program to reward clients for buying healthy food, up to \$600/year + premium discounts
	• 2018 U.S. Farm Bill: \$25 million to test Produce Rx in healthcare
	 2019 Kaiser Permanente: Food for Life, a major new focus on nutrition security including SNAP, MTMs, community interventions
	 2020 Massachusetts: \$150 million for ACO Flexible Services on food and housing; new bill Food and Health Pilot Program (H.4278, S.2453)
	 2021 U.S. House: New bill Medically Tailored Home-Delivered Meals Demonstration Pilot Act (H.R. 6774)
	 2022 North Carolina: \$650 million in Medicaid pilots to test food, housing, transportation, and stress interventions
	 2022 California: new 1115/1915b Medicaid waiver ("CalAIM") to test whole person care in lieu-of services food and nutrition interventions
@DMozaffarian	https://theconversation.com/food-is-medicine-how-us-policy-is-shifting-toward-nutrition-for-better-health-107650

The farm bill is including more money to test produce prescriptions and large organizations and states are spending money to accelerate food is medicine. The WHCHNH brought together key stakeholders to inform a new national strategy. One of the most game changing areas in the strategy is to integrate nutrition and food as medicine into healthcare and to test and pilot produce prescriptions. Another exciting area is in schools: to reorient meals and food from an ancillary service to an integral component of the school day. Refocusing schools on providing the highest quality meals and moving toward universal school meals. This means that we must fund training and equipment, expand the relevant workforce, and expand nutrition education for children.

We are at a watershed moment where everyone can all get together and share that we care about these issues and that these are some of the most important issues of the day. If we all work together, we can fix the food system.

1:15 – Spencer Phelps spent 10 years of progressive experience in outpatient and acute care settings leading to 10 years as a Clinical Research Coordinator for a high-volume endocrine clinic. He's consulted to AbbVie, NovoNordisk, and Bayer on matters of study patient engagement and development of best-practices for site operations on specific studies. His roles have included US National Study Coordinator on global panels for NovoNordisk's DEVOTE, PIONEER-6, and SOUL studies, and currently serves as the Director for the Office of Clinical Research in Trinity Health's NY Region, which serves St Peter's Health Partners in Albany, NY as well as St Joseph's Hospital in Syracuse, NY.

1:15 Segment Summary: Research, clinical trials, and good data.





Research coordinators are the "GSDs" (see Richard Seline) of operations when it comes to running clinical trials. In a previous role, Mr. Phelps was the research coordinator for one of the busiest endocrine research practices in the country, if not the world. At the time, the biggest focus in endocrine research was diabetes and a succession of trials looking at cardiovascular outcomes involving two big classes of medication involving Bayer and Johnson & Johnson.

When the results of the two trials we submitted to the FDA, the FDA noted that follow-up was missing on 28% of the patients. Given the risk of mortality, this was significant. The FDA made Bayer and J&J go back to the drawing board to figure out what happened to the patients so that the outcomes could be validated. As a result, the trials were analyzed to try and better engage patients to get more complete data.

They turned to study coordinators and principal investigators who were on the ground, working with patients to learn what the issues were. What was learned was that critical elements include: picking good sites, good study coordinators, and good principal investigators were critical. But what is good?

Good for the study sponsor is somebody who recruits a lot of patients. But recruitment is an expensive piece of research, and it takes time. As an example, a 5-year study might mean that it is an 8-year project. A 2-year study might mean it is a 4-year or 5-year project depending on the quality of the planning.

When applied to food, all the elements seem to be here. Good sites are identified, the base information and the people are already in the room. In the clinical trials previously mentioned, the goal was, at the end, to be able to follow up on 100% of the patients enrolled. 100% was almost achieved but in the end, it couldn't be achieved. The missing 3% came from various factors that will always be there. The improvement came from patients who had developed a connection with study coordinators at each site. Study coordinator turnover and change in staff cause people to fall away



from trials. So, pick good sites, make sure you have good study coordinators, and make sure that there is good training in case there is turnover in staff.

There is a lot of promise for food research. A typical doctor will see 30 patients a day. That means 15 minute appointments. Doctors want to talk in-depth about lifestyle. They want to talk in-depth about diet. But they don't have the time. They know it is a very personal discussion. There are people capable to have that discussion. Some of those people are: registered dietitians and certified diabetes educators and they are the best people to do that work of personalizing a meal plan: at least in the diabetes realm.

There is a lot of potential in food research. There is likely a lot of interest from patients and practitioners. The biggest question that remains is: What specific question can be asked to get food quickly on a treatment plan for a physician? And it is exciting to see what that would look like.

1:30 – Jason Cooner is a world leading expert in large-scale software infrastructure design and development for blockchain technology and digital exchanges. He holds a unique level of expertise as these areas begin to serve as tools to regulate carbon credits and abide by standards and protocol of the Paris Agreement and Kyoto Climate Accords. His experience includes developing and deploying the Department of Defense's internet management portal, helping architect the Interactive Financial Exchange protocol to drive all communications between banks globally, and creating the business model for the Machine-2-Machine sector, today known as the Internet of Things.

1:30 Segment Summary: How Can Carbon, Carbon Markets, and Paris Agreement Improve Nutrition?





Kyoto Protocol was the first international treaty to attempt to mitigate global warming. The Kyoto Era was centered around the notion of whether carbon markets or carbon tax were the better public policy to facilitate climate change abatement. Carbon tax was unpopular because it was a fee imposed directly on the individual. Carbon markets became the more preferred model for several reasons, and worked reasonably well, primarily due to government-level financial support and legislation. With carbon markets, governments issue carbon allowances primarily to energy providers annually, who then submit them to a regional or national carbon market. Then companies that emit fossil fuels buy them up to cover their own GHG emissions.

Paris Agreement was the first international treaty to get both developed countries and developing countries to agree to reduce GHG emissions. Paris Agreement is voluntary and didn't have any real financial penalties for lack of participation. However, the financial industry has "picked up the charge, so to speak" and is now requiring companies to adopt climate disclosure accounting and reporting to receive loans, which is effectively mandating the Paris Agreement indirectly through financial requirements.

Mark Carney founded GFANZ (Glasgow Financial Alliance for Net Zero), which is a group that was able to get over 2000 banks and financial institutions to commit to adopting climate disclosure rules as part of their business practice to qualify loans and other financial services for customers. The "Country Platform Action Plan" from GFANZ states that financial institutions representing over \$130T are committed to targeting Paris-aligned lending and investment to achieve Net Zero targets, primarily for climate change mitigation in Emerging Markets and Developing Nations (EM&DCs). This will represent an overhaul of the existing financial system for Paris aligned goals per Nationally Determined Contributions (NDCs). Country Platforms provide technical assistance and public and private finance for Paris Agreement goals. This could enable \$1T in financial investment annually by the latter half of the decade. This may be the biggest economic overhaul we're going to see in our lifetime. Estimates are that if the Paris Agreement is implemented properly, it could potentially expand the global economy by 20%. It's a significant opportunity for people who understand that the future of our investment dollars will be driven in large part by climate finance.

When you consider the difference between Kyoto-era and Paris-era policies, Kyoto centered around the discussion of carbon tax or carbon markets. Paris-era, after learning over 20 years that carbon markets are the preferred vehicle, the UNFCCC started realizing that the climate accounting and reporting, as well as non-market mechanisms, should be included in policy directives to expand Paris Agreement policy into real-world implementation.

Article 4 is the main Accounting and Reporting component of the Paris Agreement, with other Articles in support.

Article 4, Paragraph 2 specifies a concept called Nationally Determined Contributions (NDCs). The NDCs are submitted every 5 years and provide country level plans for achieving emissions reductions over time, targeting Net Zero outcome. The financial accounting and reporting requirements in the financial sector are developing into GHG Protocol accounting and TCFD reporting as the two standards being adopted by GFANZ and the financial sector at large.

Article 6 is the monetization of carbon assets (carbon allowances, carbon offsets, carbon credits, etc.) per Paris Agreement.



Article 6, Paragraph 2 is the international trading of carbon, defining an internationally tradable carbon instrument called an Internationally Transferred Mitigation Outcome (ITMO).

Article 6, Paragraph 4 is to sustain the domestic trading of carbon under national boundaries as Emissions Trading Schemes (ETSs) and Cap-and-Trade models.

Article 6, Paragraph 8 is "non-market mechanisms". It doesn't mean no market involved, just any mechanism that doesn't involve carbon markets to monetize the carbon assets.

Paris Agreement has expanded the use of carbon assets as a financial mechanism under the policy directives therein.

Regenerative Agriculture (Regen AG) is the practice of full organic farming and ranching, and if done properly can significantly sequester carbon in soil at global scale. By growing cover crops in the Winter, adopting no-till planting for cash crops, and implementing animal rotation over paddocks every few days, full Regen AG for ranching and farming is possible. Regen AG allows the soils to redevelop from monoculture single crop farming (current commercial practices that deplete soil nutrients over time) to completely restore the natural soil microbiome, which dramatically improves nutrient uptake of plants. This alone makes the fruits and vegetables far healthier. It also removes fertilizers and other artificial toxins from being applied to soils during growing cycles, which avoids uptake into the fruits and vegetables we eat. The same practice in turn prevents these toxins from leaching into the water supply, which will serve to clean up the natural water supply over time.

As for the profitability of Regen AG, current monoculture single crop farming is producing about \$1-\$3 per acre in profit. Leading farmers utilizing Regen AG practices like Allen Williams are making over \$100 an acre currently, year over year. Gabe Brown in South Dakota is generating over \$200 an acre annually utilizing full Regenerative Agriculture practices. If done worldwide, Regen AG has the potential to naturally reverse the 1 trillion tons of GHGs being emitted annually by industrial and commercial practices. Regen AG is the only identified natural process we have to reverse Climate Change in its' entirety. The USDA has indicated that one of their goals is to incentivize farms and ranches in the US convert to Regenerative Agriculture by 2030. Removing synthetic fertilizers, pesticides and herbicides from farming and ranching practices is tantamount to a healthy food supply. Regen AG might be the best way to clean up the food supply worldwide.

Biochar is sequestering carbon for a much longer period of time than natural soil sequestration alone, and makes for an excellent all-natural fertilizer for crop supplementation. Due to this, the production of Biochar by companies like Puro.earth is allowing them to produce carbon offsets that are worth 15X more than standard soil sequestration offsets.

Nutritional food production programs like AquaTree are considered a Carbon Capture technology. AquaTree can provide significant sequestration of carbon while providing highly nutritional food supply locally at global scale, which produces carbon offsets as part of the growing process. Another company has created a portable filtration system at industrial scale to turn sewage water into potable water in minutes, which generates carbon offsets as well. Other technologies like Geometric Energy's hyperspectral imaging satellites will allow measurement of GHG emissions from space, but also serve to benefit carbon reduction by monitoring the rate of carbon capture for industrial processes worldwide. Geometric Energy has also developed the world's first "green battery", which replaces battery acid with a sodium ion crystal. We are working to generate carbon offsets from the use of their battery in production.



The reason why we're focused so much on carbon is that we really believe it's the asset class that's really going to help drive a lot of conservation efforts long-term. We also think that it's going to be a great profit stream for any conservation effort in Agriculture, specifically with any practice that's going to go organic, which significantly increases the nutrient supply in foods.

When you start putting all these pieces together, you start to realize that the Paris Agreement might be the best means we have to improve the nutritional quality itself and eliminate a lot of the toxins here on this planet.

2:00 - Break.

2:30 – Robert Chapman and Lisa Waddell

Robert Chapman is a US-based businessman and philanthropist. Zimbabwean born, British groomed, and American taught. He is also an entrepreneur and family man whose unconventional story is both powerful and inspiring. Having lost both his parents tragically at an early age, Robert had to learn from others in his life about what it means to be a man and be successful. Upon finishing school and moving to the U.S., Robert turned his job of being a deli slicer into a career as an executive and entrepreneur. Now, Robert is on a path to give back, confront challenges, and inspire others. Dr. Lisa Waddell, MPH, is the Chief Medical Officer for the CDC Foundation. Dr. Waddell is a preventive medicine and public health physician with over 30 years of local, state, and national public health leadership experience. She has a passion for public health and is committed to promoting and protecting the health of populations. She has a particular interest in addressing the needs of vulnerable populations, the needs of moms and babies, and those with disparate health outcomes.

2:30 Segment Summary: A conversation with Robert Chapman and Lisa Waddell on working together to address hunger and health with technology. The CDC Foundation tag line is: "Together our impact is greater."





We all know that the goal is to reduce hunger and improve health. There are so many chronic health conditions that are impacted by nutrition. To have the opportunity to have more conversation to increase awareness is very important.

Food, particularly when there is a shortage of it, affects every person on the planet. Food insecurity is a very interesting topic and there are two aspects of it that will be covered here:

1) Food Insecurity: Access to food and quality of food are issues that are especially prevalent in underserved, vulnerable, and multigenerational families. Food insecurity particularly is tied to those who have transportation issues. This is an issue in urban and rural areas alike.

Covid jammed up the supply chain and further inflamed the issue. But this is even escalating now. Underserved communities might offer surprises to many. When we think about the term "food desert," it stands out that a lot of people do not realize that Queens, New York is typically listed as a food desert. This is because of the quality of the food it is not obtainable or affordable.

It makes us question that if there is money being put toward subsidies, should we also be looking at how communities can have food technologies, like the Aquatree shown here at the TEHNS Summit, so that people can have access to nutritious foods? And what impact could tech like this have on the health perspective?

So much of the conversation at the Summit has been about innovation, partnership, creativity, and technology. If we step back and say: What are we really trying to do? We are fundamentally trying to improve lives, health, improve outcomes. If we have identified an issue and a challenge and the communities that are suffering most, and we have the potential of technology solutions

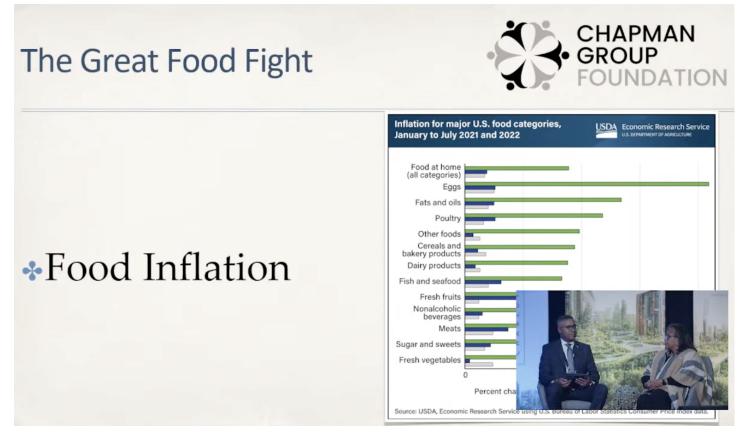


and innovation and creativity, it makes sense to place and leverage those because in the end, we as a society will do better.

2) Food Inflation: The cost of food is too high. There are so many health inequities, and this requires consideration of the social determinates of health. There are long-standing social, institutional structures, and policy elements in place that impact people's ability to earn an adequate income. So, while people may have good intention or awareness about what they should be eating, the reality is that if food is at a certain price point, and people cannot get the jobs, fair wage, or perhaps other reasons, then these social determinates of health force people to stretch resources. We see these sorts of impacts play out and we know we can have an impact on issues.

At a recent World Bank conversation in Washington, DC this conversation came up with some larger banks. One of the things they were trying to figure out was food inflation. So, they are looking at food technology and different ways of growing, along with climate change, and issues with fertilizer. Right now, the agricultural side of things is heavily inflated. In fact, Zimbabwe has the highest food inflation in the world and a drought is expected, which we can't do anything about.

Typically, both these aspects are grouped together or confused.



One of the things that is intriguing about food technology is the way the food industry is moving in the direction of technology. It allows us to bypass challenges that are out of our hands or takes years to fix. But when food becomes available, it costs so much because of what it took to get it there; and we throw away 40% of it.



The CDC Foundation works on several issues to improve and saves lives in collaboration with the CDC. Data and data modernization helps the CDC Foundation be more effective. During Covid, with the help of donors, the CDC was able to flip resources back into the community; particularly through community-based organizations. What was learned however was that there are a lot of gaps in the data. There is a significant potential through public-private partnerships to leverage data sources and to use mapping and data overlays to determine where needs are and how do you leverage technology to best meet needs.

Right now, 2 billion people globally are living insecurely and malnourished. Jamie Oliver had a whole show where he was going through schools trying to find healthy alternatives for what kids were eating for lunch while trying to meet the school's budget which is very difficult. When it comes to hunger, famine, population health risk, and disease control, all these things play into the quality of food. Many chronic health conditions are adversely impacted by lack of quality food and access to it. We need to flip the table and ensure that people have access to fresh fruits and vegetables that are affordable.

When we talk about solving these problems, many wonder: Why these problems not being talked about? Why are they not getting attention? Why are they not at the forefront of conversation? Why doesn't this resonate with everyone? It may be because resources are not directed toward the problems.

A lot of private sector folks are working with amazing technology around the world and some are in the room at the Summit. Look at the Netherlands. As small as they are, they have made a huge investment. Government and private sector got very aligned on their agendas and now they are believed to be the second largest exporter of food in the world. If Africa could work well, they would be able to do this. Africa, however, faces its own challenges. Resources are going toward mining. If natural resources are found under a productive farm, agriculture will lose that battle.

To meet global needs, mining must increase. To get the minerals and metals needed means that mining will have to increase 17 times to meet the demand; meaning emerging markets are in a very tough position. Furthermore, when yield is accumulated from agriculture, it gets sold off internationally. It does not really find its way onto local shelves and communities. Where food technology makes a big impact is that it can be put into communities anywhere.

In a conversation with one of the largest banks in the world, concerning the ESG (Environmental, Social, Governance) sector, food has not been at the top of the priority list. They are just now beginning to talk about it.

As a result of the WHCHNH, the CDC Foundation has had a number of conversations with various industry sectors and many commitments that they have made with what they can do and what they can redirect. What we are hearing is that there is a lot of interest and a community of practice. The CDC Foundation is in a neutral zone where it can convene people to have the conversations to redirect investment, helping to navigate what commitments are, what best practices are, how people and organizations can work together and distilling out the kinds of policy changes that are needed. We will begin to see more redirection occurring when we can highlight successful examples and outcomes. The research is important.

Putting funding behind the research and development is important. It is one thing to see investments on paper, but it has been exciting to see those investments start to materialize. With the Aquatree

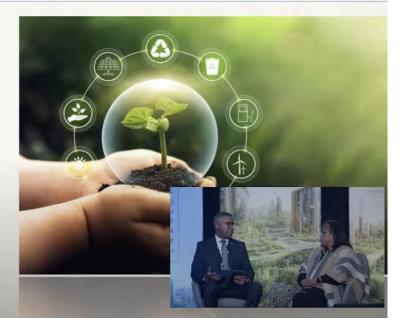


technology that is here at the Summit, it has been exciting to see this type of investment in person. Again, it is one thing to see it on paper but then be able to walk inside the container unit and look at it here and see it and be able to say OK, this makes a lot of sense. Looking at the statistics and the numbers, technology like this makes us think about how we can deploy better. Having good policy around this is important.

Investment



- Redirect Resources
- Results Focused
- Policy: Government & Pvt Sector
- Industry Open Source



When we look at things like yield and distribution, the way we look at land, is another way for us to look at resources. If, for example, we are saying our national parks are protected, but we also know that there is agricultural land that is not being used we should consider zoning it for year-round growing purposes using compatible food technologies. This is something the Netherlands did. The U.S. can do it. Hopefully, Africa can do something like this so that in ten years, if they find diamonds in the ground, we don't tear everything apart.

Another way we can likely get some movement is utilizing the power of the voice of communities and the power of the voice of children and young people. Whether it is the issue of climate change, or another important issue to our youth, the degree we can get young people involved is important. Young people can help drive us and push things along.

If you have an organization that represents the industry of food technology, you are looking at policy making, expansion, and getting the word out. If you look at this technology as "open source" like Tesla, this technology is out there for the industry to benefit from; which allows the ability to turn the tides as an industry; which affects policy. What is happening here is fantastic and it solves the problem today. We are not waiting on the climate to get better. We are not waiting for the population to go down. We are not waiting on something that is outside of our own control. We are putting technology in place and we are producing food.



We heard about blockchain earlier. Well, there are many aspects of deployment to consider. There is a tremendous amount of data from the health sector we can use to pinpoint problems and put resources into those areas to provide the things that are needed; and pilot programs with partners are an important next step. One of the things Grow Local helps organizations look at is the effective use of food technology to solve problems; and with the partnership with the CDC Foundation, with its ability to work with the data, the food tech industry can solve some of these problems. This touches a sweet spot for the CDC Foundation.

The CDC Foundation is a non-endowed foundation that is fortunate to find these areas of interest in areas that people care about and put resources together. The CDC Foundation has great experience bringing entities together to form private-public partnerships and solve issues with the help of donations. The CDC Foundation has done quite a bit with communications companies to create communication initiatives that reach people. When organizations provide resources, the CDC Foundation can turn around and invest them into community-based organizations.

Looking at how much is being spent by larger international, multinational programs, The World Food Program for example spends \$22B but are we solving a problem or throwing money at it? There needs to be advocacy for food tech which needs to separate itself from agriculture; with its own logo and identity that works with organizations that are providing food, education, and care. Looking at that \$22B, can we deploy that money in, for example, disaster areas, like we just saw Puerto Rico and drop two or three of those Aquatree containers and it can create nutritionally dense food fairly quickly in a matter of a few days. Or even urban communities where technologies could come into the home and produce food.

The adoption rate needs to be faster and conferences like this add tremendous value to make this occur. Matching experts from all the different fields that are here and their ideas with data and opening that resource across industry is vitally important; so is branding it so people have awareness. This is also the beauty of how public-private partnerships can be effective. Finally, to the degree we can be innovative and creative we must think about the ways in which young people receive information and engage them to communicate their positive experiences and advocate for change.



"The Best Way To Predict Your Future Is To Create It."

- Quoted By Many





3:00 – Kelly Irons is the founder of DevelopUs Worldwide, a training and development firm having served clients in nearly a dozen countries around the world. Furthermore, she is the Owner and Executive Director of CorporateConnections® Charlotte, the local branch of a globally operating organization that brings leaders together from around the world to create opportunities and catalyze change in their businesses, communities, and lives. Her client list includes everything from NASA, and Bank of America, to the world's largest women's university, and the Royal Family in the Kingdom of Saudi Arabia. As the author of GET REAL, a book about building high performing relationships, she lives to help those around her make big things happen, as a coach, facilitator, strategic partner, consultant, colleague and parent, through the power of building intentional, mutually beneficial, high-performing relationships.

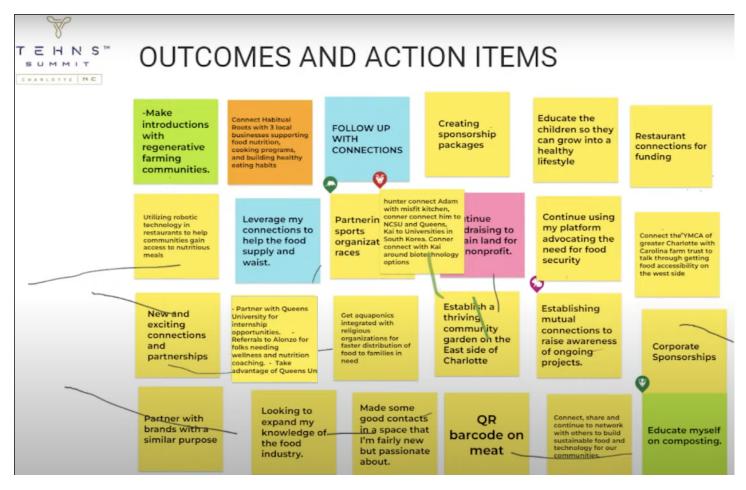
3:00 Segment Summary: A workshop designed to bringing leaders together to catalyze change.

Attendees engaged in a four-step process to GROW into action:



A platform was launched where groups of people could capture what they could and would do coming out of the TEHNS Summit. Here are some examples of what attendees contributed:





To conclude the session, the following was read:

"You can make a difference. You don't have to be smarter, faster, stronger, richer, or more talented than anyone else. You don't need a lifetime to get ready. It only takes courage now when the truth needs to be said, when the work needs to be done, when the help needs to be given.

You can make a difference.

By earning peoples trust, and giving them your respect, you can help build a world where good things happen for all of us. Because the only reason there is for being alive is to make the most of what you have. Your time. Your ideas. Your love. That's all you need.

You can make a difference."

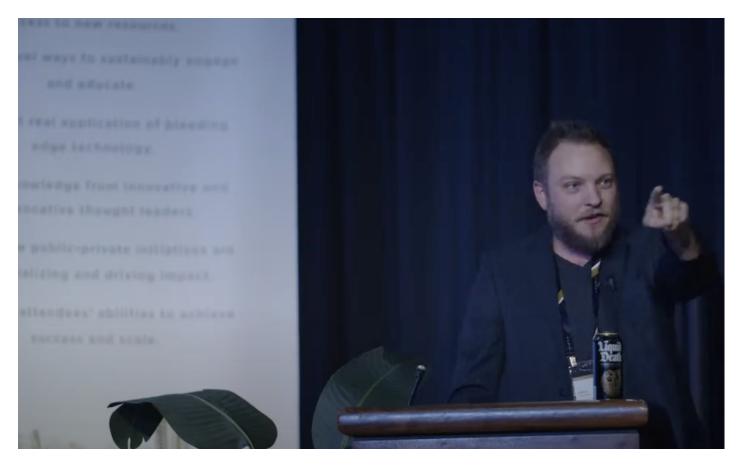
-Unknown Author



3:30 – Chris Coleman spent summers on his grandparent's farm in Mississippi, and was 14 when he started his first industry job at a local fish camp in a suburb of Charlotte, NC, working his way up through the ranks from busser to kitchen expediter. He was quickly promoted to head chef at the age of 21, and he's continued to build on that success in the Charlotte region. Now the chef and a partner at The Goodyear House in Charlotte's NoDa neighborhood, and the recently opened Old Town Kitchen & Cocktails in nearby Rock Hill, SC, he continues his culinary fame with appearances on Chopped, where he finished as the Champion, and "Beat Bobby Flay", and continues to appear on The Food Network.

3:30 Segment Summary: Going for the brass ring.

Merriam-Webster defines the brass ring as: a very desirable prize, goal, or opportunity. The value of the brass ring is the price that is paid to obtain it and, through hindsight, can become evident in an adult's life. References to a literal brass ring go back to the 1890s, as found in the Brooklyn Daily Eagle of September 1899 about the famous Coney Island amusement park carousel. "Reaching for the brass ring" is a phrase originating in the late 19th and early 20th century when carousels were popular in US amusement parks and boardwalks. Carousel riders on the outer horses would grab for rings on a mechanical arm. Most rings were steel with no value however one ring was the prized "Brass Ring". The rider who grabbed the brass ring won a prize – usually a free carousel ride. Derived from this children's game it's something that most strive for in their personal and professional lives.



Chris Coleman took attendees on a walk through his life and experiences and how he went for the brass ring. Starting from humble beginnings he worked his way to director of culinary experience at Charlotte Marriott City Center leading the team that reinvented food and beverage for Marriott



International to being a proprietor of The Good Year House and making appearances on the Food Network. Chris shared the purpose and fruits of his personal journey and inspired attendees to reach for the brass ring.

4:00 – Closing Remarks and Announcements.

Announcements

Announcement #1

The official unveiling of the TEHNS Coalition Led by Grow Local: An Issues-Based Letterhead Alliance– Requiring minimal commitment, on the day of the summit, 176 member groups agreed to put their name behind the mission through signing a pledge (exhibited below) and is steadily growing, post Summit. Participations does not require involve coordinating strategy or sharing resources. Coalition members may choose to work together at their discretion: sharing information and strategy, staying in touch, coordinating messaging, and so on. This coalition is managed by Grow Local however the coalition itself maintains a degree of informality and flexibility. Its members can announce that they are participants but refrain from representing themselves as the coalition itself or speaking on behalf of the coalition on social media, at press conferences or meetings with decision-makers as a few examples.

This coalition offers:

- The potential to build advocacy campaigns that are more powerful and effective.
- An opportunity for advocates to coordinate and share resources for the benefit of all involved using social media, technology, information, connections, etc.
- The ability to join forces with unusual or surprising allies of all shapes and sizes.
- The ability to exceed the capacity and impact of what your organization could achieve alone.
- Reciprocal exposure to new audiences to highlight the work your organization is doing to have an impact.
- The ability to amplify policy goals.
- Promotion of innovations and organizing.
- Sign-on letters/pledge.
- Opportunities for shared press conferences.
- Opportunities for shared information and strategy.
- Opportunities for coordinated messaging among members.

Grow Local facilitates greater integration and cooperation among its coalition members and promotes ethical and responsible efforts to sustainably address issues related to Nutrition, and Health using education and technology. Grow Local also sets out norms, standards, and conventions to facilitate cooperation and consensus building across organizations, industries, governments and respective populations.

As a virtual coalition manager, Grow Local operates on a non-partisan, multilateral platform to keep members focused on their shared interests, instead of only their institutional self-interests, smoothing out decision-making and ensuring the coalition is adhering to goals and plans. Grow Local recognizes groups do have institutional interests, and helps partners, as is



appropriate, achieve their own interests – as long as those interests do not conflict or compete with the mission of the coalition.

TEHNS Coalition Pledge

Technology:

We pledge to leverage technology to improve communities and aide in the efforts to engage and educate the public, contribute to sustainability efforts, improve access to nutritious foods, promote research to enhance the public good, and aide in the promotion and uptake of healthy behaviors.

Education:

We believe that successful education initiatives require real and meaningful engagement with others through dynamic and sustainable learning and instructional opportunities. We understand that "meeting people where they are," leveraging cutting-edge technology, pedagogy, and professional learning are critical to encouraging life-long learning and adoption of healthy behaviors.

Health:

We believe healthy behavior is an essential determinant of overall health and the prevention of disease. We pledge to directly confront cycles of preventable diet-related disease and expense by encouraging and supporting the delivery of proven and culturally competent approaches to diet, exercise, physical, and mental well-being.

Nutrition:

We believe nutrition is integral to people flourishing and to the treatment and management of diseases that threaten us. We know that without access to nourishment that meets the needs of the particular person, taking into account personal requirements, illness, allergies, medications and other life needs, we fail to create health in our society.

Sustainability:

We pledge to make sustainability a priority in life. We understand that our actions, behaviors, and choices make an impact on the society, environment, and our economy. We pledge to make intentional choices that will benefit quality of life for all and advocate for choices that benefit the lives of others.

Announcement #2

It was clarified that though Grow Local has already put millions of dollars behind its commitment announced by The White House in September 2022 at The White House Conference on Hunger, Nutrition, and Health, the organization will continue its investment and lead and assist other partner investors. The TEHNS Summit was the first public-facing step to fulfill Grow Local's commitment to



the WHCHNH. The TEHNS Coalition will help grow the general implementation framework for the remainder of the \$500M effort; of which Grow Local hopes to further engage yet to be discovered and referred businesses, non-profits, philanthropists, and other entities to expand and further magnify expected impacts.

Existing commitments will be applied as follows:

- \$100M for research in the areas of behavior, nutrition, health, and technology.
- \$100M for improvements to healthcare in the areas of nutrition access, education, training, and nutrition-oriented technologies.
- \$300M for educational programing and equipment targeted toward PreK 12+ home/school integration. Pilots are scheduled to start Q2 2023.

Announcement #3

To enable more funding toward scaling and expanding existing and future commitments, Grow Local called for additional investments, inviting stakeholders in communities across the globe to invest in the effort to double Grow Local's commitment.

Announcement #4

Grow Local announced it would increase efforts to working directly with agencies and lawmakers to strengthen support for partner initiatives and boots on the ground organizations, including key stakeholders of the TENHNS Summit and members of the TEHNS Coalition.

Announcement #5

Grow Local promised to begin construction of an impact toolbox including innovative technologies, digital and otherwise, along with informational resources and supportive educational tools to drive advancement of positive nutrition and health outcomes.

Announcement #6

Grow Local will seek further alignments on relevant national and global policy by continuing its dialogue with The White House AND will begin working with lawmakers from all parties on upcoming legislation and regulatory agencies.

Announcement #7

Grow Local announced its partnership with the CDC Foundation in the areas of research and education, while further developing and implementing new technologies and programs that move the needle in the areas of health and nutrition. Part of Grow Local's commitment to the WCHNH includes work with schools to provide nutritional education to address hunger, nutrition, and health in schools and bring the benefits from that work into the home. It is recognized that Grow Local's mission and resources are aligned with the CDC Foundation's efforts toward improving health outcomes and



helping to transform the systems, behaviors, and conditions that that affect them. Grow Local's partnership with the CDC Foundation will help mutually expand resources and access while sustainably empowering people with new programs and technology.

To drive this change, Grow Local has already secured key partnerships with education and technology leaders like Steve Wozniak through a collaboration with Woz Ed STEM schools and Powerup EDU, engaged with agriculture, education, and food advocacy groups like 100 Gardens and Teens for Food Justice to launch new and innovative K-12+ STEM curriculum by the 2nd quarter of 2023, and is working with U.S.-based hunger relief organizations like Open Hand Atlanta and Rise Against Hunger to address malnutrition and food access issues that exist within and far beyond U.S. borders. Grow Local has committed to continuous exploration of sustainable health efforts around nutrition and disease prevention with leading scientists, medical professionals, and nutritionists with healthcare providers and a range of diverse partnerships including the CDC Foundation and The Food is Medicine Coalition while driving awareness through influencers, culinary celebrities, and even major sports teams like the LA Kings and the New Jersey Devils to expose people to healthier lifestyles.

Announcement #8

Open Hand and Grow Local are in deep discussions to expand Open Hand's programming initiatives in the areas of training, education, nutritional programs, access, expansion into other geographies.

Announcement #9

Aquatree is expected begin piloting new, fully integrated STEM and CORE curriculum by late spring of 2023 in cooperation with PowerUp EDU, Open Hand Atlanta, 100 Gardens, TFFJ, NC State University, Resilience Citizens Corporation: Houston Community College, and many more...

The pilot program will later be made available to 140,000 schools across the United States.

Announcement #10

NC State University announced that they will continue research initiatives with Aquatree and will soon begin using the technology to produce alternative protein for plant-based meats.

Announcement #11

Corporate Connections declared that it has taken a special interest in Grow Local and will be actively partnering to scale the engagement of influential business leaders from around the world.

Announcement #12

Grow Local will be meeting with President Bukele and his staff in El Salvador in the first quarter of 2023 regarding health and nutrition programming.

Announcement #13



Jason Cooner of Parisii declared that he will be working with Grow Local on a new program for carbon offsets. Upon certification, the program will provide new profit streams to farmers, non-profits, government and non-governmental organizations and others while achieving climate change mitigation and increasing the nutritional, quality, health value and security of the US food supply.

Announcement #14

The TEHNS Summit will was a success and planning will begin in March to hold the event again in approximately 1 year.

Announcement #15

Planning will begin for the construction of a feature length documentary in 2023. The documentary will feature the sustainable application of technology and education to address nutrition and health issues in the U.S. and around the world. Specifically, the film will focus on the good work of people and the organizations that are trying to make a difference with their everyday actions.

Closing Summation

Respondent Survey:

1. Would you attend next year?

94% indicated they would likely or highly likely attend again.

2. How satisfied were you with the content of the Summit?

100% indicated that they were satisfied or extremely satisfied.

3. Overall, how would you rate the value of the Summit?

Respondents gave the Summit a combined score of 86%

Post Summit Commentary Samples:

Matt Pieper -Executive Director of Open Hand Atlanta: "After attending the TEHNS Summit, Open Hand Atlanta, one of the largest community-based nutrition agencies in the country, has made a commitment to incorporate AquaTree into our educational programming. Not only will we continue to teach thousands of people how to prepare healthy meals, we will also teach them how they can grow nutrient dense micro greens and vegetables in their own homes. Additionally, we found Tuft University's Dr. Dariush Mozaffarian's research results on the value proposition of integrating, medically tailored meals into our healthcare system incredibly compelling. He demonstrated that by including medically tailored meals as a fully reimbursable benefit via Medicaid and Medicare, we could save over \$14 billion dollars in just one year. We have been sharing that



research with health plans and managed care medical directors and now are in conversations with their leadership to include our services as a reimbursable benefit on their plans in Georgia."

Sam DaRosa - Local Farmer's Market Manager and Charlotte City Council

Member: "I have been to at least a hundred summits. I really appreciated the thought behind the speakers. I very much saw the selections as a perspective to the same objective, which is EXACTLY how we find overlap and solutions. The only 'out of sync' speakers was the Boseman Foundation. They gave perspective but they were not aligned with the overall mission to the Food As Medicine program. Still they brought a sensitivity that is relevant."

Davita Cooper -Certified Nutrition and Wellness Consultant: *"The TEHNS Summit was engaging, highly informative and inspiring."*

General Arnold Gordon Bray (US Army, Retired) - Principal Consultant at ANGB

Consulting: This six-hour conference provided both excellent opportunities for interdependent business relationships and platforms for advanced discussions health, medicine, and nutrition.

My personal interests were tweaked when I observed a panelist commenting on the impact of daily nutrition to make young people available for service to our nation. She was spot on! Nutrition is a critical element in education and fitness. The combination of effects of food choices and sources opines to a prophylaxis to prevent illnesses (food is medicine), maintaining healthy weight and enabling attitudes for mental acuity and associated social attitudes.

As a former Deputy Commander of The U. S. Army Cadet Command, I know why our Nation has struggled to recruit the needed quantities of men and women. For the past twenty years, only twenty-five to thirty-five percent of all high school graduates qualify for military service. The shortcomings of graduates include: physical fitness, medical dependency on impairing drugs and criminal records. All of the aforementioned prohibitors have a relationship to nutrition, the most indirect being the percentage of children who fall behind in school because energy levels wane throughout the day impairing capabilities. The associated impact is that literacy by third grade is a leading predictor of a criminal future.

My summary from this conference is that nutrition is directly affecting our national security via:

- 1) Economically costing all communities with increased health care due to preventable dependencies
- 2) We are currently impeding the number of qualified citizens who can don the uniform via diets in schools.
- 3) Our food sources are being produced with increased preservatives and outside of the US. These concerns should be under discussion.

I don't know if, or when, we will need to put large quantities of Soldiers, Sailors, Airmen, Marines and/or Spacemen on the battlefield for a major conflict but here we go again. In the prelude to WWI and before America's entry into said war Woodrow Wilson is rumored to have expressed a similar level concern about Americas unpreparedness due to substance abuse, civic commitment, and physical fitness. By 1912 heroin addiction in the U.S. was spreading rapidly with tragic consequences. In 1914, Congress passed the Harrison Narcotic Drug Act, which attempted to control the consumption of "mind-altering" drugs by limiting distribution to small amounts that doctors



prescribed. Accordingly, The National Defense Act of 1916, among major Army numbers being increased, it included the creation of a Junior Reserve Officers' Training Corps with the principal purposes of increased civic commitment and physical fitness, for our Nation's youth. A major component of the curricula included health and wellness and remains in the programs through today.

Regarding food quality and sources... at the mass production level, the US has no issue; however, quality and preservatives were highlighted during this conference. This conference highlighted many challenges including our excessive use of preservative and sugars adding to the sedentary lifestyles of our Nation versus our near peer competitors. However, this conference highlighted just as many solutions and these solutions should be considered by DoD and other relevant agencies and Governing bodies. The innovative programming solutions being led by Grow Local and its partners, along with technologies debuted like Aquatree, have a unique ability to bring solutions to major issues that are affecting our nation and its ability to thrive and defend itself. It is my recommendation that DoD, Commissary, lawmakers, and relevant agencies pay attention to what is coming out of the TEHNS Summit and strongly consider engaging with Grow Local.

Cesar Herrera -CEO KRTL: "The TEHNS Summit was an interesting gathering and we got to meet a lot of like-minded individuals that are on the same path to sustainability. The tech that was introduced was incredible. The Aquatree itself was an impressive apparatus and I can easily see how it could revolutionize food and nutrition. I enjoyed the fusion juices that were demonstrated as well. We can really re-examine how we take in vitamins and nutrition with these technologies and processing techniques. All together TEHNS was an incredible network of people and technology. The stories I heard were remarkable; especially Chef Mendoza. A lot should come out of it"

Kelly Irons -CEO of Develop Us Worldwide: The TEHNS Summit accomplished in one day what many have hoped for, for years. The aligning of forces to create real movement that will positively influence the state of hunger and nutrition around the world was palpable. With clear intentions and a commitment to sharing resources, I watched the attendees find ways to collaborate for the common good, not individual gain. A movement has started. Kudos!

Jason Cooner -Founder of Parisii: As a result of the TEHNS Summit in Charlotte, NC on December 6th, 2022, Parisii was able to identify several programs that could benefit from the Parisii Paris Agreement infrastructure to provide additional profit streams as well as achieving climate change mitigation while increasing the nutritional quality and health value of the US food supply.

Parisii is the world's first and only Paris Agreement software implementation on blockchain. By implementing the Paris Agreement properly, Parisii was able to remove all the inherent fraud associated with current market participants (double counting, double spending, double printing, and soon-to-be double retirement). The Parisii platform provides proof that the emissions reductions actually occurred, as well as calculates the carbon offset production in an automated manner for Aquatree farmers. Parisii is a "financial engine" designed to compensate farmers for adopting scalable nutritional food production system like Aquatree. Simply put, you can't have proper nutrition if you can't pay for it. Parisii and Aquatree solve some critical infrastructure issues with the existing US agricultural sector to increase nutrition quality and health of the national food supply. The USDA has already announced that they want all farms in the US to go "Regenerative Agriculture" by 2030. Aquatree and Parisii are a significant advancement and potentially core components in achieving US Federal Government goals. The Parisii program increases profitability of adopting



Regenerative Agriculture and improving the nutritional value of the food supply, and Aquatree is a Regenerative Agriculture solution.

The Parisii infrastructure creates a new profit stream for Aquatree by generating carbon offsets from the reduction of Greenhouse Gas (GHG) emissions the Aquatree system provides over existing modern commercial farming practices. The Parisii platform accelerates profits for Aquatree farmers in a manner that may be even more profitable than the farming practice itself, which will allow Aquatree to expand at scale for commercial farming operations, which can dramatically increase the nutritional benefits the Aquatree system provides, both in a single-family home or large commercial farming facility. Parisii can tell farmers how much GHG emissions were reduced per Aquatree facility, as well as how many carbon offsets can be created from the Aquatree practice in real-time.

From an accounting and reporting standpoint, the GHG emissions, electricity use, and other environmental data is captured on blockchain by Parisii for further incentivization such as tax credits. For instance, in Puerto Rico they have a new law going in effect in 2023 that will allow a 40% tax credit to be issued for any sustainability efforts, which Aquatree provides. There are also LCFS credits in California from the reduction of fossil fuels from the Aquatree process, since it eliminates most of the GHG emissions from the transportation of crops to grocery stores nationwide. The information captured from Aquatree farming will be made available to the Environmental Protection Agency for use, as well as provided to any country that is party to the Paris Agreement for purposes of achieving Nationally Determined Contributions per Paris Agreement guidelines, annually and longterm.

Dr. David Nayak MD: "The vision and implementation for TEHNS is nothing short of remarkable. The passion is contagio

us and inspires me to do more. Way leads to way. Can't wait to see what lies ahead."

Kathy Soll: "I was delighted and honored to be invited to the TEHNS Conference in Charlotte, hosted by Grow Local on December 6th, as a panelist and an attendee. I was also extremely impressed by the speed and efficiency with which this convening came together and the quality and diversity of the speakers and attendees.

The professionals I met at the conference reflected a comprehensive array of high-level, highly experienced individuals and organizations developing sustainable agricultural practices and equitable solutions to healthy food access on a local, national, and global level. Included were representatives from healthcare, the military, and the education, technology, government, policy, research, corporate and not for profit sectors from across the US and abroad.

Panels were well organized to allow speakers to collectively address topics that reflected these varying perspectives and points of view and scheduled breakout sessions and periods of reflection provided myriad opportunities for discussion and networking. The more intimate size of the gathering also helped to facilitate connections among participants and opportunities for exploring further collaboration to solve sustainability and equity challenges in our food system.

As Teens for Food Justice, a NYC-based nonprofit working to end food insecurity in a generation through school-based, youth-led hydroponic farming, the conference provided multiple cross-sector opportunities for developing our national expansion strategy. For example, I connected with education



leaders in Charlotte, NC, gaining insight into the financial and structural challenges faced by this region's school system in delivering both healthy food and the innovative, interconnected STEM, health and nutrition, and advocacy training that a school-based high-capacity hydroponic can allow. The conference also provided the next step in Teens for Food Justice's developing collaboration with Grow Local and PowerUp Edu to bring these resources and programming to communities throughout the Southeastern US and beyond.

Finally, at the conference, I had the opportunity to connect and speak with present and former government officials and gain further insight into the work being done on a national level both leading up to and as a result of the White House Conference on Hunger, Health and Nutrition and how to connect our program more effectively to these efforts and the national conversation around these issues."

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Closing Statement

This report is informed by the associated activities initiated by the WHCHNH, Grow Local, its partners, and associated stakeholders. The event aimed to align with and expand upon the effort undertaken by the WHCHNH and the nation's new strategy for addressing hunger, nutrition, and health.



Grow Local would like to give thanks and consideration to all the individuals and entities that contributed to the TEHNS Summit and this report. The relationships, ideas, tools, experiences, information, programming, and other resources referenced within this report and conveyed at the TEHNS Summit have already begun to impact lives and will serve as a reminder that the effort to hold the WHCHNH, as reconstituted by Congressman Jim McGovern and supported by so many, is significant and important to national and global interests.

Furthermore, events like the TEHNS Summit show that the WHCHNH is not finite as was broadly considered the case shortly after the original WHCHNH held in 1969. Instead, the WHCHNH seems to have generated a more lasting result that is not singular in nature or fading or withering away but instead growing. It is through bipartisan and non-partisan consensus and connection to for-profit and non-profit organizations, government and non-governmental agencies, key stakeholders, volunteers, "doers" and elected representatives that efforts and initiatives can exist. It is through the hard work and passion associated with these events that they can be birthed into existence, and it is through the support of sponsors and other funding mechanisms that these events have the means to occur.

It has been said that if you tell people the paint is wet, they must touch it to be sure. In this way, Grow Local "touched the paint" by participating directly in the WHCHNH on September 9th, 2022. The resulting fingerprints and subsequent interactions are revered, have attracted attention, investment, action, AND have served to inspire and encourage others. TEHNS Summit 2022 not only accomplished the goals it set out to achieve but allowed an opportunity for more people to touch the paint. Is the hope of all those who have participated to exercise a collective will toward supporting our national strategy and truly remedying the issues we have chosen to focus on here. Now we must stay relevant, support, encourage, connect, and imagine what else fingerprints can inspire.