Jobenomics deals with the process of creating and mass-producing small businesses and jobs.



Jobenomics SMRDI's goal is to facilitate creation of thousands new business and jobs over the next 5-years in the 4-county San Marcos region.

25 April 2018

Millennium Regional Development Corp San Antonio – Austin (TX) Metroplex Project

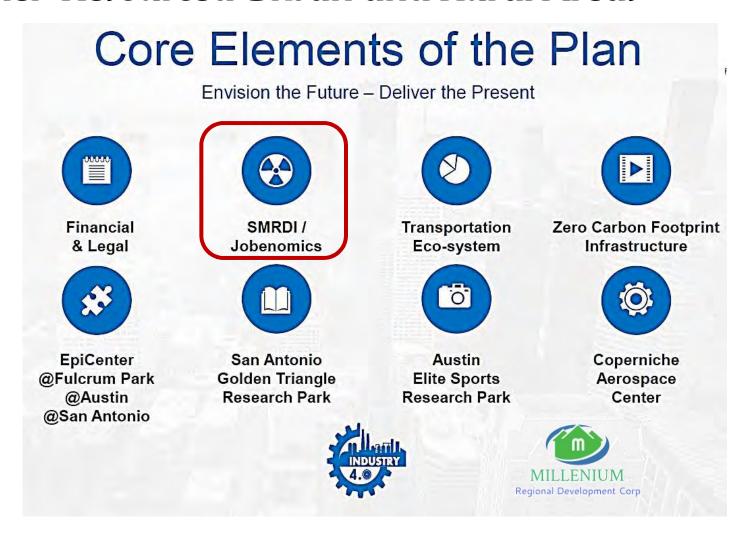




Jobenomics is teamed with MRDC to develop a 42,000 acre project to create the next generation of entrepreneur driven micro-economies.

Jobenomics Programs Focus On Serving Under-Resourced Urban and Rural Areas





MRDC is a master developer engaged in creating and delivering sustainable inter-regional growth without the sprawl and infrastructure problems of the industrial era.

San Marcos Regional Development Initiative (SMRDI)





Focus Area ≈ 42K Acres

- Urban: Austin San Antonio Corridor (I-35) Communities
- Rural: Guadalupe & Caldwell Counties
- Opportunity Zones: Capital gains tax deductions for investment in underresourced communities

SMRDI Opportunity Zones



SMRDI deals with the process of creating and mass-producing next generation businesses and jobs in urban and rural communities.

\$MRDI Demographic, Economic & Employment \$napshot



	Geography	Population	Jobs (Employees)	%	Median Household Income	Median Property Value	Poverty Rate	Minority Population
	USA	326M	148M	45%	\$60,336	\$217,600	13.4%	39.6%
	Texas	28.3M	12.5M	44%	\$59,206	\$172,200	16.0%	58.1%
	Austin-Round Rock MSA	2.12M	1.13M	53%	\$73,800	\$283,600	12.3%	48.0%
Sa	n Antonio-New Braunfels MSA	2.47M	1.13M	46%	\$56,774	\$170,100	15.2%	66.4%
	Guadalupe County	150,889	70,169	47%	\$66,187	\$175,000	10.6%	48.6%
Region	Caldwell County	40,544	18,238	45% 53%	\$51,346	\$124,300	17.7%	58.9%
	San Marcos	59,935	31,934		\$34,748	\$34,748	34.7%	51.3%
	Redwood	4,239	2,229	53%	\$48,082	\$60,100	19.2%	89.4%
Marcos	Uhland	1,233	551	45%	\$44,659	\$118,200	14.0% 8.2%	79.3% 48.3%
San Ma	Geronimo	937	612	65%	\$64,963	\$60,000		
	Hays County OZone	8,363	3,923	47%	\$27,468	NA	40.0%	NA
	Caldwell County Ozone 1	8,451	645	8%	\$44,772	NA	16.0%	NA
	Caldwell County Ozone 2	3,978	1,376	35%	\$35,562	NA	19.0%	NA



Economic, Demographic Data (Source: DATA USA 2017 based on Census Bureau ACS1-Year Estimate Data)

Opportunity Zones in San Marcos Region (Source: ESRI 2017 based on Census Bureau ACS 2012-2016 Data)

The San Marcos Region is economically underserved and would benefit greatly from a major business and job creation program.

Veterans Population



Texas Veterans

• **Population**: 1,583,272

Businesses: 215,217

• **Homeless**: 2,718

VA Facilities: 88

Age Distribution

✓ 18 to 54: 41%

✓ 55 to 64: 23%

√ 65 and older: 36%

1 Dot = 100 Veterans Veterans Health Administration Facility **SMRDI** Focus Area

SMRDI Focus Area Veteran Population

• 4-County San Marcos Region: 49,338

(Caldwell, Comal, Hays, Guadalupe)

• 5-County Austin-Round Rock Region: 108,697

8-County San Antonio-New Braunfels Region: 192,621

The 17-counties in and around the SMRDI focus area has 483,918 veterans—one of the highest concentrations in the United States.



Suggested Jobenomics SMRDI Proof-of-Concept Programs

- Controlled Environment Indoor Agriculture
- Urban Mining/Advanced Materials Reclamation
- Direct-Care/Remote-Care/On-Demand Care
- Digital Economy Jobs & Digital Academies
- Renewable Energy & Energy Services
- Business Generators & E-Clubs



Jobenomics National Grassroots Movement

focus is on mass-producing small businesses and jobs.



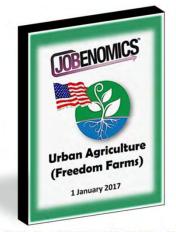


For Under-Resourced Urban & Rural Communities

Controlled Environment Agriculture



- Team: Jobenomics is teamed with ACTS Freedom Farms of America.
- Mission: Provide a solution to food shortage through self-sustaining and supportive livework communities.
- Vision: Provide quality foods in harmony with the global environment, eming individuals to become partners in high-tech controlled environment agriculture.
- Strategy: 1) home ownership combined with an agriculture career, 2) corporate owned indoor commercial growing operations and 3) train high-tech controlled environmental agricultural farmers.







Goal: Establish 25,000 new jobs within grow centers, and another 25,000 ancillary jobs.

Jobenomics SMRDI Rural Controlled Environment Agriculture Program







Designed by ACTSFFA/Oculus for veteran-owned businesses and homes in California.





1200 acre, 22.6 million sq. ft. of indoor controlled environment agriculture, greenhouse village, hotel, farmers market, winery, production and distribution facilities, commercial and community centers, and 300 single-family homes

50-Acre Controlled Environment Agriculture (CEA) System Rendering





The Jobenomics/ACTSFFA/Grow team is working with leading greenhouse, grow-house and CEA vertical and hydroponic suppliers.

10

1-5 Acre CEA Project





Jobenomics/ACTSFFA are currently pursuing 1-5 acre CEA pilot projects in Iowa, Washington DC, Baltimore, Chicago, Erie PA, Montgomery County MD, San Marcos TX, Las Vegas and Alberta Canada.

11

Live/Work Eco-Communities





Opportunity Zone Fund financing available.

Jobenomics SMRDI Urban Controlled Environment Agriculture Program





Goal is to create a dozen indoor-grow businesses in SMRDI within the next 5-years in under-served communities.

High \$ Value CEA Products



Common Crops

- Culinary Herbs
- Lettuce
- Spinach
- Tomatoes
- Strawberries
- Peppers
- Cucumbers



Specialty Crops

- Medicinal Herbs
- Flowers
- Mushrooms
- Ground Covers
- Ornamental Grasses
- Bamboo
- Hemp

The highest value crop is hemp. Cultivating hemp for CBD oil can generate as high as \$75,000 per acre in controlled conditions.

Hemp Products





The hemp-related product market is estimated to exceed, by a large margin, the marijuana market over the next decade.

Cannabis



Same Species With Different Chemical Compounds And Applications

Hemp

Cannabis Stativa



Cannabis Indica & Stativa

- Legal (2018 U.S. Farm Bill)
- Usage: agricultural, industrial, medical & pharmaceutical
- Primary compound: CBD (Cannabidiol) grown for its non psychoactive properties
- Main markets: medical, bodycare, nutritional, construction materials, fibers, animal food

- Federally illegal (10-States legal)
- Usage: mainly recreational with a few medical applications
- Primary compound: THC (Tetrahydrocannabinol) grown for its psychoactive properties
- Main markets: mood-enhancing (smoking, edible, vaping & infused beverages) products

The U.S. hemp-CBD market is growing faster than marijuana and will be a \$22 billion industry by 2020 (up from \$600m in 2018).

CBD Oil Extraction

JOBENOMICS

Son Marson (TK) Registral
Development Institution

- Cannabis extracts include pharmaceutical-grade CBD oil used for body, health and medical applications
- CBD product market will grow 700% to \$2.2 billion market in 2020.
- CBD oil extraction systems fit in highly-sanitized PODs.



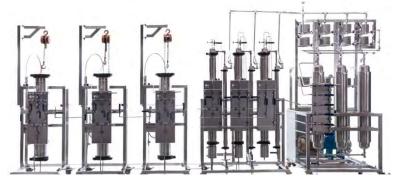
CO2 Extraction Systems Apex Commercial

Revenue/Day \$25,424-\$76,463



Eden Labs Industrial

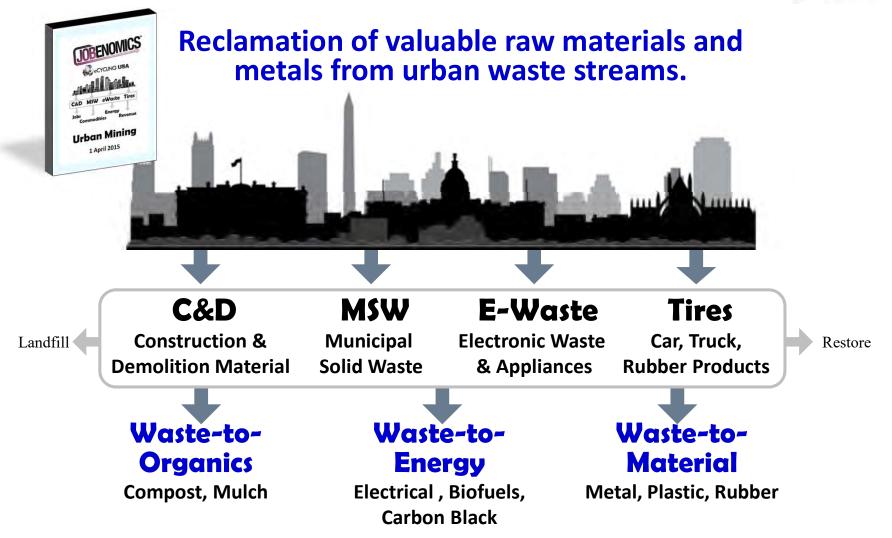
Revenue/Day \$163,440-\$217,920



The U.S. hemp-CBD market is growing faster than marijuana and will be a \$22 billion industry by 2020 (up from \$600m in 2018).

Jobenomics Urban Mining





Urban Mining Goal: Monetize urban waste streams to produce businesses, jobs and revenues for workforce development.





A new approach to urban mining, materials reclamation and business/job creation.

eWaste Material Reclamation Facility





100 Operational Sites

Operational within 12-months after contract award. Up to \$40 million/year profits and 200 direct jobs.

eCyclingUSA Plants

JOBENOMICS Son Marcos (TN) Regional Development Institutive

Two Line 10 Ton/Hour Plant:

(Refrigeration & eScrap Separate Lines)

- Equipment ≈ \$20 Million
- 40,000 square foot facility
- 10 to 15 acres

Combination 10 Ton/Hour Plant:

(Refrigeration & eScrap Shared Post Processing)

- Equipment ≈ \$13 Million
- 35,000 square foot facility
- 5 to 10 acres

eScrap Only 3 Ton/Hour Plant:

- Equipment ≈ \$5 Million
- 8,000 square foot facility
- 1 to 2 acres





eCyclingUSA can implement a turnkey plant within 12 months.

Revenue & Profit Projections



(10 ton/hour plant operating 3 shifts)

\$ Value of e-Waste Raw Materials

For Rough Estimating Purposes Only
10 ton/hour plant operating 3 shifts per day for 300 days per year

Feedstock: Computers, Consumer Electronics, Small and Large Applicances

Metal/Material	% of Feedstock	N	\$s per Metric Ton*		\$/Ton (2204 pounds)	(10 t	Total \$/Year on/hour x 23 hour/day x 300 days/year)
Iron/Steel (Fe)	40%	\$	350	\$	140.00	\$	9,660,000
Copper (85% Recovery)	5%	\$	3,945	\$	197.26	\$	13,610,802
Aluminum (Al)	10%	\$	1,499	\$	149.87	\$	10,341,168
ABS Plastics	25%	\$	1,675	\$	418.75	\$	28,893,750
Other Plastics	25%	\$	287	\$	71.75	\$	4,950,750
Computer Components	5%	\$	2,082	\$	104.10	\$	7,182,900
Source: Jobenomics, eCyclingUSA 110% Revenue**						\$	74,639,370
	\$	30,238,000					
* Scrap prices as of 12 M	\$	5,780,000					
**Does not include grants	\$	38,621,370					
incentives or tipping fees	52 %						

Profits from e-Waste operations can be used for community, micro-business and workforce development.



Jobenomics National Grassroots Movement

focus is on mass-producing small businesses and jobs.



Jobenomics Direct-Care Program delivers remote on-demand, health, social assistance, behavioral, child, and elder care services via a web-based direct-care center. Millions of new direct-care occupations are needed due the inability of traditional institutions to service ever-growing medical, health and societal needs of underserved urban and rural communities.

Direct-Care Program



- Direct-Care Services include:
 - Healthcare and social assistance, the fastest growing occupations in the USA.
 - Behavioral-care includes drug addition, PTSD, obesity, spousal abuse, chronic illness, etc.
 - Elder-care forecasts 17 million assisted-living bed shortfall by 2020.
 - Child-care is the single biggest cost keeping women homebound.
- Direct-Care Center would connect service providers and clients via a call and information center. The center would start home-based firms certified to provide in-home services while connected to tele-health and other providers.







Jobenomics Community-Based Business Generators would certify employees and small businesses for the Direct-Care Center.

Direct-Care Program Apps



Examples of On-Demand Direct-Care Programs

- **Teladoc** is the largest telehealth platform with 20 million members and over 3,000 licensed healthcare professionals.
- DoctorOnDemand connects patients in minutes to board-certified doctors and therapists over live video.
- Go2Nurse is an on-demand nurse/caretaker application service.
- referralMD's standardizes referral network communication between primary care physicians and specialists.
- American Well is a complete telehealth service for healthcare companies, employers, or delivery networks.
- MDLive's telemedicine system offers a patient experience, a provider experience, and a call center.
- SnapMD is virtual care management system with a patient interface, a provider interface and an administrative back-end.

In 2018, Canadian-based TELUS Health and U.K. Babylon combined forces to bring advanced digital health technologies to Canada.

CLINICSTOP Micro Clinic for Diagnosis, Counseling and Remote Care www.clinicstop.com



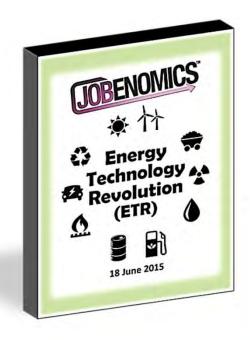




Ideal for pharmacies, churches, community centers that provide healthcare, social assistance, and behavioral care.

Next-Generation Business & Job Creation Opportunities









The ETR, NTR and Digital Economy will create 10s of millions of new jobs and millions of micro and nonemployer businesses.

Energy Technology Revolution



The ETR Is A Perfect Storm of Energy Technologies, Processes and Systems:

Renewable Energy Sources (Biomass/Biofuels/Wood, Hydroelectric & Hydrokinetic, Wind, Solar, Geothermal, Municipal Waste), Alternative Fuels, Advanced Batteries, Advanced Vehicles (Electric Vehicles, Fuel Cells, Hydrogen Vehicles), Nuclear (Small Modular Reactors, Fusion Reactors), Coal, Conventional and Unconventional Oil & Gas (Petroleum & Other Fluids, Natural Gas, LNG & GTL, Methane Hydrates), Exotics and Yet Unknown Technologies as well as new energy services including Energy Efficiency. Energy Conservation, Energy-as-a-Service (EaaS), Energy Assurance and Security and Energy Disaster Preparedness and Recovery Services.



The ETR Will Revolutionize Labor Forces, Economies And Nations Via The:

Renewable energy sources, micro-grids, net-zero communities, advanced vehicles, alternative fuels, energy storage devices and smart networks will allow energy generation to occur closer to the consumer. Generating power close to the point-of-consumption eliminates cost, complexity, interdependencies and inefficiencies associated with transmission and distribution over 3-5 million miles of power lines in North America.

California and Germany are at the forefront of the ETR transformation.

Renewable Energy Businesses & Green Jobs





The Energy Technology Revolution will create millions of new micro-business opportunities, such as independent contractors.

& Renovation Businesses

Green Jobs



 Jobenomics-EmeraldPlanet collaboration involves bringing the world's 1,000 best green job practices to local communities.

Dr. Samuel Lee Hancock

President & Executive
Director, EmeraldPlanet
International Foundation

Creator & Host, The EmeraldPlanet TV

www.Emerald-Planet.org



Chuck Vollmer

Founder & President
Jobenomics National
Grassroots Movement
EmeraldPlanet Board
Member & Partner
www.Jobenomics.com

- Our collaboration focuses on innovative, sustainable, and resilient "green" environmental, economic and community development practices and projects around the globe.
- EmeraldPlanet is also partnered with the U.N. Economic and Social Council and The World Bank Connect4Climate Program.

Goal: sustainable environmental, economic & social development.

Green Business & Job Creation Programs



Examples of highly-scalable Jobenomics-EmeraldPlanet green business and job creation programs include:

- Renewable energy: solar, wind, low-flow hydro in tall buildings
- Energy Efficiency: energy audits, weatherization, renovation; LED electrical upgrading
- Aquaculture: aquaponics, hydroponics, water gardens, and salt water ecological farming
- Storm Water Abatement: urban capture, processing and retention; home-side water capture and reuse; rain gardens
- Environmental Remediation: soil, watershed and marshland remediation and regeneration
- Affordable Housing: small/tiny home construction & installation

The Jobenomics-EmeraldPlanet collaboration emphasizes green microbusiness creation in under-resourced urban and rural communities. 31

Energy Services

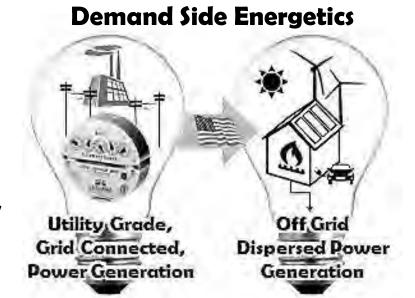
JOBENOMICS

Son Marcos (TX) Burnismu

Development Institutive

- Demand Side Energetics
- Net-Zero Communities/Buildings
- Services: "Energy's 3rd Rail"
 - Energy Efficiency/Conservation
 - Energy Assurance/Security
 - Disaster Preparedness/Recovery
 - Energy-as-a-Service (EaaS)
- Energy Technology Center







Jobenomics' Joe Sarubbi with President Obama and Mrs. Biden

Energy Services Jobs (Examples)



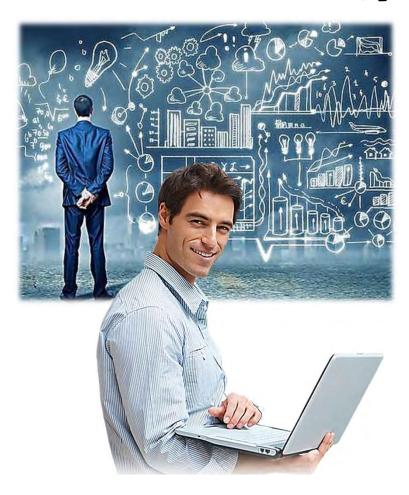
- White Collar Occupations
 - Demand-side Energy Management
 - Control Systems Management
 - Storage (Battery and Fuel Cell)
 - Intelligent Metering Services
 - MicroGrid Management
 - ✓ Photovoltaic
 - ✓ Wind
 - ✓ Hydro
 - √ Geo Thermal
 - ✓ Nuclear
 - √ Hydrogen
 - ✓ Electric Vehicle
 - Tax and GRANT Financial Specialists

- Blue Collar Occupations
 - Sustainability Consultant
 - Array Sizing Specialist
 - Project Managers
 - Design Specialists
 - Installers
 - Inspectors
 - Help Desk Personnel
 - Field Support Personnel
 - Operational Services Specialists
 - ✓ Security
 - ✓ Operations
 - ✓ Maintainability
 - **✓** Product Support

J-SMRDI will provide skills-based training and certification programs for these occupations.

Network Technology Revolution (NTR)







The Network Technology Revolution will create 10s of millions of new business and job opportunities, especially for digital natives.

\$124 trillion global economic impact by 2025.

Network Technology Revolution



The NTR is defined by Jobenomics as a perfect storm of transformative network and digital technologies, processes, systems and services including:

Big Data, Cloud Computing, Semantic Webs, Synthetic Reality, Mobile Computing, Ubiquitous Computing, Quantum Computing, 5G Broadband, Geo-Location, Near-Field Communications and Beacons, Inductive Charging, Spatial Sensing, Computer Vision and Pattern Recognition, Natural Language Processing and Speech Recognition, Data Mining and Predictive Analysis, Machine Learning, Transfer Learning, Deep Learning, Robotics, Telepresence and Telechirs, Nanobotics, Chatbots, Mechatronics, Memetics, Biometrics, Smart Cards, Blockchains, FinTech, Multifactor Credentialing, Emotive Surveillance and Management, Identity Management, Anonymity Networks, Ambient Intelligence, Artificial Intelligence and Intelligent Agents.



The NTR will be both brilliantly innovative and creatively disruptive:

Creating new global jobs and businesses,

Destroying existing jobs and businesses,

Revamping institutions and governments,

Instituting new and different ideas, beliefs, behaviors and cultures, and

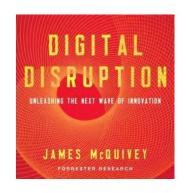
Changing the very nature of human endeavor and work.

The global economy will be shaped by the digital generation (Screenagers & Millennials) and the ideology of their mentors.

Digital Scaleups & Startups



"Digital startups are at least 100-times easier to create and have 10-times the number of innovators that can innovate at one-tenth the cost than traditional startups." (McQuivey)



- Top digital scaleup and startup platforms: Amazon (2 million third-party sellers), Apple Store (650,000 apps developers), Google, Facebook, eBay, Craig's List, unicorns and gazelles.
- Examples of digital occupations: Digital health (health care, elder care, wellness, behavior care), shared economy (Uber, Airbnb), content providers, construction, transportation, technology, and various forms of mom-and-pop firms.

Unlike other countries, U.S. policy-makers and decision-leaders are not concentrating on the economic impact of the digital economy.

Digital Economy & Academies







- Mobile Economy
- Sharing Economy
- On-Demand Economy
 - Apps/Bots Economy
 - Gig Economy
 - IoT Economy





The tradition economy growing at 2% per versus eCommerce growth of 15% per year. Jobenomics' team of eCommerce experts help set up websites to selling on all major platforms; Amazon, Google, Facebook, eBay and Shopify.

Jobenomics Community-Based Business Generator (JCBBG) Concept



A JCBBG mass-produces startup businesses by:

- Working with community leaders to identify high-potential business owners and employees,
- Executing a due diligence process to identify and assess work ad social skills and aptitudes,
- Training and certifying participants in targeted occupations,
- Incorporating highly-scalable small and self-employed businesses,
- Establishing sources of funding and contracts to provide a consistent source of revenue for new businesses,
- Providing mentoring and back-office support services to extend the life span and profitability of new businesses.

Most cities have Business Incubators and Business Accelerators, but not Business Generators for low-income citizens.

Jobenomics Community-Based Business Generator (JCBBG) Concept



Due Diligence & Candidate Selection Process Incorporate Self-Employed Business

Skills-Based
Training &
Certification
Programs



Pipeline To Full-Time Jobs (W2) Or Independent (1099) Work

Scaleup Existing Businesses
Startup Micro Businesses

Most cities have Business Incubators and Business Accelerators, but not Business Generators for low-income citizens.

9,000 Online Skills-Based Training And Certification Programs



- For many unemployed and sidelined inner-city citizens, earning a college education is not realistic.
- Skill-based training programs can provide citizens with federally- accredited skills within weeks to months.
- Some accredited online Training & Certification Providers:
 - UDC Community College: https://www.udc.edu
 - 360training: http://www.360training.com
 - ExpertRating: http://www.expertrating.com/
 - American Institute of Small Business: http://www.ed2go.com/business



Goal: "Lifelong Applied Learning" with "Certifications in weeks, jobs in months and careers within a year."

Entrepreneur Emment Centers



Club E (Atlanta) is a co-working entrepreneur emment center.



Club E Startups:

GiveBack
ALLIANCE

The
Toner Superstore.com

LifeSty es Vacation Club

Coulons

Corporation

ECentrs Fund is willing to expand to the San Marcos Region.

Elite Sports Program





Elite Sports Atlanta (ESA) is a full service sportstraining, player-development and promotional events company. See: www.elitesportsatlanta.com

- ESA partners with schools to develop customized educational curricula and after school programs geared towards keeping young people motivated while they receive physical conditioning.
- ESA's services include training, sports camps, scouting, recruiting, pro camps, job opportunities and resource offerings for college placement and physical training programs.
- ESA has a dynamic pool of experts, entrepreneurs, sports professionals, and investors to develop a \$95M, 700,000 squarefeet all-inclusive, multi-sport, indoor athletic training complex in 125-acre campus in South Fulton County, Georgia.

ESA is willing to develop an Elite Sports Complex in Texas to service the five million people in the San Antonio to Austin metroplex.



Contact Information

Charles D. (Chuck) Vollmer
Jobenomics Founder and President
cvollmer@jobenomics.com
703-319-2090 Direct

www.Jobenomics.com