

## FULCRUM CORRIDOR COMPLEX

Innovation, Opportunity – Accelerated

CONFIDENTIAL

## **Incremental Growth**

MILLENIUM Regional Development Corp

Innovation, Opportunity - Accelerated

### "Urban Sprawl and Urban Decay are synonymous"

Major development initiatives of today have resulted in congestion, sprawl, and incremental pressure on aging infrastructure. Large "magnet" development initiatives such as "live, work, play", Medical, Retail, Industrial, and Research centers are typically tied to cities that have the infrastructure and employment base to support the growth initiative. This results in innercity and extra-regional exodus to these work centers at least twice a day.



Regional Development Corp.

David Quinn CEO & President

## **Sustainable Growth**



Innovation, Opportunity - Accelerated

### "We can not change the world unless we have the courage to begin"

MILLENIUM Regional Development Corporation (MRDC) is a Master Developer engaged in creating and delivering sustainable inter-regional growth without the sprawl and infrastructure problems of the industrial era. We deliver the next generation of entrepreneurial micro-economies through problem identification, development of a long-term regional vision in conjunction with stakeholders, identification of underserved areas, feasibility studies, and development of actionable business and human capital eco-systems. We are builders of Smart Economies.



Regional Development Corp.

David Quinn CEO & President

## Agenda



## MILLENIUM Regional Development Corp

### Area of Concentration

Urban and Inner City Opportunity Zones are our initial focus

#### SMRDI Opportunity Zones



### Entrepreneur Driven Micro-Economies are Sustainable

Our Communities reverse the exodus model and create profitable businesses and plentiful jobs while establishing the business and economic base needed to support the Zero Carbon footprint infrastructure and initiatives of tomorrow.

### **Preparing for Tomorrow - Today**

Shovels in the Ground Today, Infrastructure for Tomorrow – a long term view of interconnected corridor projects

### How do we pay for it?

The eco-system of funding incremental growth

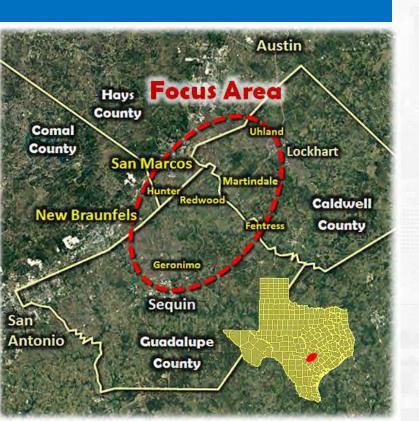




## Area of Concentration

Getting Started - Today

# **SMRDI**





## San Marcos Regional Development Initiative (SMRDI)

**Location**: Austin San Antonio Corridor (I-35) midpoint between the cities

Rural: Guadalupe & Caldwell Counties

**Opportunity Zones**: Capital gains tax deductions for investment in under-resourced communities, federal backing

Funding: Public Private Financing (P3)

Readiness: Immediate



# Assessment





In many ways, Guadalupe County has the best of both worlds at this point, as there are job opportunities for residents of all skill sets. However, many of those opportunities exist outside the county, as almost two-thirds of the community works in a county other than Guadalupe. As the county looks to the future, a challenge is to begin to attract and locate employers that require the labor force capacity of the western side of county. Success is this effort would also address a second challenge, as the county is leaking retail and consumer activity. Some of this is due to the rise of e-commerce, but some can also be attributed to the pattern of shopping in proximity to work, rather than just near your place of residence. Meanwhile, the historic pattern of growth following growth is evident, as the reach of and connection to San Antonio extends further and further east. As this pattern continues, there could be displacement effects on the eastern side of the county, as new higher-end housing could begin to drive prices up in way that could have a crowding-out effect for those already there. In sum, Guadalupe county in the aggregate has most of the ingredients in place for continued growth and prosperity. The overarching challenge is to manage the process (especially as it relates to infrastructure, transportation, and community amenities that serve as key attractors) to make sure that new activity is balanced and distributed throughout the county in such a way as to maximize the overall level of benefit and sustainability

### ANALYSIS: SMRDI Demographic, Economic & Employment Snapshot

|        | Geography                   | Population | Jobs<br>(Employees) | %   | Median<br>Household<br>Income | Median<br>Property<br>Value | Poverty<br>Rate | Minority<br>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%                  |
|        | Caldwell County             | 40,544     | 18,238              | 45% | \$51,346                      | \$124,300                   | 17.7%           | 58.9%                  |
| Region | San Marcos                  | 59,935     | 31,934              | 53% | \$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%           | 79.3%                  |
|        | Geronimo                    | 937        | 612                 | 65% | \$64,963                      | \$60,000                    | 8.2%            | 48.3%                  |
| San    | 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                     |



High Low

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)

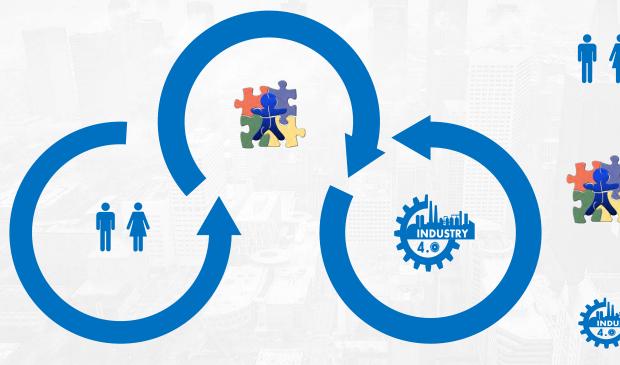
The San Marcos Region is economically underserved and would benefit greatly from a major business and job creation program.



## **Communities of Service**



We are Enablers of the Next Generation of Entrepreneur Driven Micro-Economies





### **Existing Population** Our Programs provide positive impact to the local community first.



### **Transitioning Citizens**

Veterans, Returning Citizens, Immigrants and US Citizens are all needed for growth.



### **Regional Economies**

Our programs are incubators for local economies and are designed to stimulate smart growth.

## Example: Veterans as Transitioning Citizens

## **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%

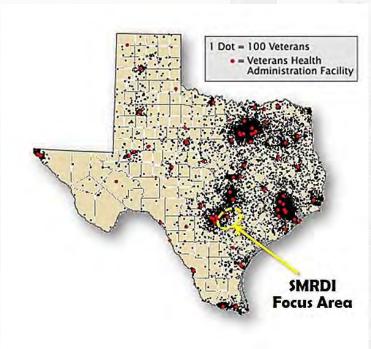
## **SMRDI Focus Area Veteran Population**

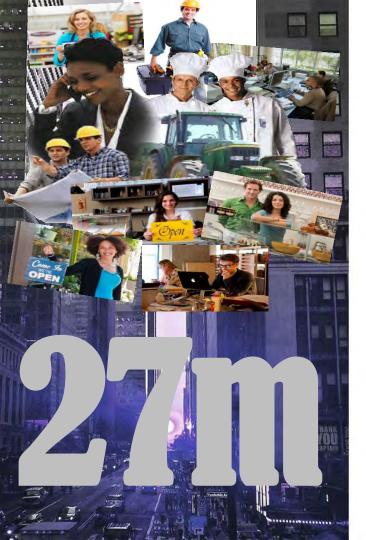
- 4-County San Marcos Region: 49,338
  - (Caldwell, Comal, Hays, Guadalupe)
- 5-County Austin-Round Rock Region: 108,697
- 8-County San Antonio-New Braunfels Region: 192,621



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









27 million small businesses create 79% of all new jobs in the U.S.

## **Entrepreneur Driven**

Micro-Economies for Sustainable Growth & Regional Impact

Microloans supported by incubators and accelerators improve successes

## **Core Elements of the Plan**



Envision the Future – Deliver the Present



Financial & Legal



EpiCenter @Fulcrum Park @Austin @San Antonio



SMRDI / Jobenomics



San Antonio Golden Triangle Research Park



Transportation Eco-system



Austin Elite Sports Research Park



Zero Carbon Footprint Infrastructure



Coperniche Aerospace Center



# Long Term Vision



The job can not begin until the first shovel goes into the ground

2019

- Initiate Master Developer Contract
- Initiate P3 Funding Phase 1 SMRDI
- Land Contracts, Project Development
- Funding Feasibility Studies / Team
- Infrastructure Plan and Economic Models



- Coperniche Aerospace Center
- Coperniche Aerotropolis
- Coperniche Research Park .

- Initiate P3 Funding Phase 2 SMRDI
- Initiate Corridor Transportation Plan
- Initiate Communications and Energy Infrastructure
  - 2020

2021



- Initiate P3 Funding Phase 3 SMRDI
- Initiate Golden Triangle Park San Antonio
- Initiate Elite Sports Austin

## A New Era of Prosperity Begins

Delivering jobs in economically disadvantaged areas is what we do for a living. We are generators of business and long-term regional success

### 1 Controlled Environment Agriculture

- 2 Advanced Materials Processing
- 3 Concierge Medical Services
- 4. Elite Sports Centers
- 5. EpiCenter Research Parks
- 6. Coperniche Aerospace Center



















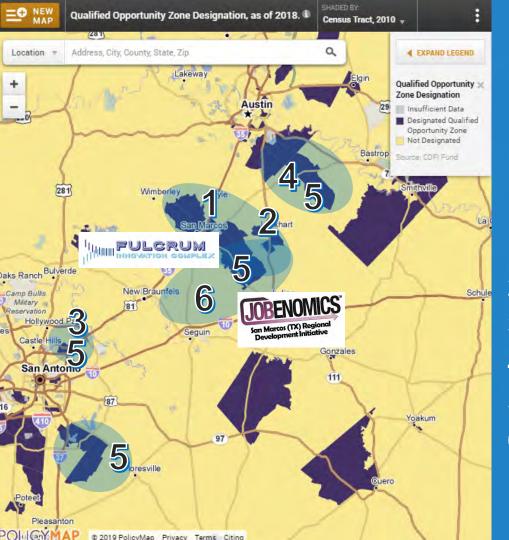




# **Preparing for Tomorrow**

**Envision Success** 





## Suggested Jobenomics SMRDI And Related Programs

- 1. Controlled Environment Indoor Agriculture
- 2. Advanced Materials Processing
- 3. Concierge Medical Services
- 4. Elite Sports Center
- 5. EpiCenter Research Parks
- 6. Coperniche Aerospace Center

## **Core Elements of the Plan**



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EpiCenter @Fulcrum Park @Austin @San Antonio

EpiCenter



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Zero Carbon Footprint Infrastructure



Coperniche Aerospace Center



# **High Level Budgets**

### **Budgetary Estimates Only**

#### **Controlled Environment Agriculture**

Feasibility Study:\$ 800K Eng Planning: \$ 2.5M Total Land: 4K Acres / 9M SF UR Est Budget: \$500M – 4 PODS



### SA GoldenTriangle & Epicenter

Feasibility Study: \$1.5M Eng Planning: \$5M Total Land: 400 Acres / 5M UR Est Budget: \$2B



Fulcrum Park & EpiCenter Feasibility Study: \$1M Eng Planning: \$1.5M Total Land: 200 Acres / 3M UR Est Budget: \$1B







Advanced Materials Processing. Feasibility Study: \$600K Eng Planning: \$1.5M Total Land: 125 Acres / 1M SF UR Est Budget: \$170M

### Austin Elite Sports & Epicenter



Feasibility Study: \$1M Eng Planning: \$1.5M Total Land: 225 Acres / 3M UR Est Budget: \$1B



### **Coperniche Aerospace Center**

Feasibility Study: \$15 M Total Land: 8,000 Acres Total Build: 2 Terminals Est. Budget: \$18 B





### **Concepts and Benefits**



### The EpiCenter vision is driven by a sustainable business model that focuses on economic development, stability and community vitality

| <b>Business Model</b>  | Vision  | Illustrative Financial Models  | Target Audience  |
|------------------------|---|--|--|
| Showplace              | Create a world class<br>entertainment,educational,and<br>inspirational experience                           | <ul> <li>Tourism (Ticket Sales)</li> <li>Special Events (Conventions)</li> <li>Broadcasting Network</li> <li>Speaker Series</li> </ul>   | <ul> <li>Over 22M small business owners in the United States</li> <li>Millions of Entrepreneurs in US</li> <li>Over 60M home-based business owners</li> <li>Academic / Angel Investors and Venture Capitalists</li> <li>Business Travelers &amp; Tourists</li> <li>Millions of Youth who operate a business or want to open one</li> </ul> |
| Business Collaboration | Develop a community of<br>coaching, connection support,<br>collaboration, that leads to<br>business success | <ul> <li>Endowments and Donations</li> <li>Incubation Services</li> <li>Patent Commercialization</li> <li>Referral and Support Services</li> <li>Entrepreneurship Awards Programs</li> </ul> | <ul> <li>Entrepreneurs and CEOs</li> <li>Small Business Owners</li> <li>Distributors of a product lines (like Avaya)</li> <li>Young entrepreneurs and college students</li> </ul>  |



- Entrepreneurship Awards Programs



- Deliver impactful and sustainable empowerment services to urban youth
- · Camps and Workshops
- · Programs and Curriculum
- Web Services
- Retail Items

- · Teens from all over the world
- Teachers and Educators
- · Youth organizations like Boys' & Girls' Clubs
- entrepreneurship philanthropy innovation

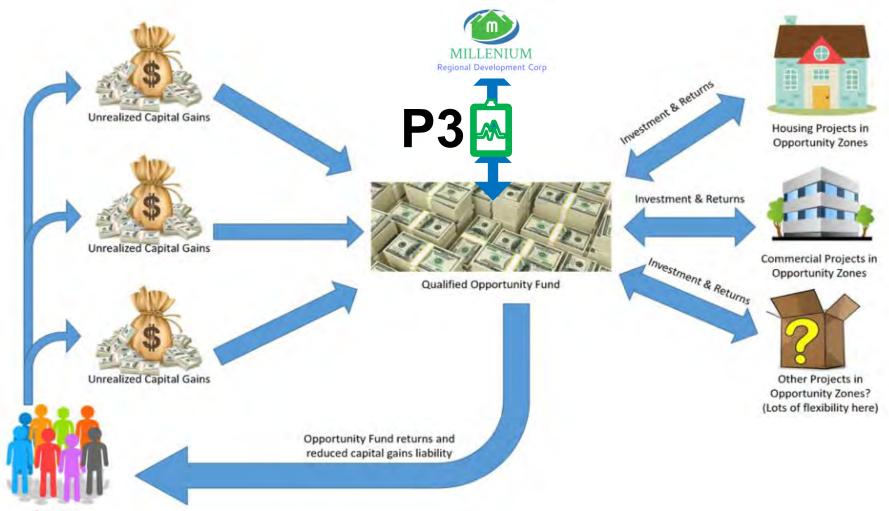






## How Do We Pay for It?

Each Business is selected for its ability to pay for itself



Investors

# **Infrastructure for New Cities**

### COMMUNICATIONS

02

03

01

04

A Distributed and Interconnected Fiber based Network Services Platform provides Internet Services and Controls that enhance Energy as a Service.

### DISTRIBUTED MICROGRID and ENERGY AS A SERVICE

Each project will be grid connected via a storage system that complies with FERC 841 and serves as a collection point for locally implemented renewables. Protection of the Energy Grid is critical.

### DC MICROGRIDS IN PROPERTIES

Distribution of High Voltage DC and in-building DC Microgrids eliminates the costly thermal transfer losses and delivers levels of efficiency that are beneficial to the services provided and the environment that we live in.

### ANAEROBIC DIGESTION and WASTE ECO-SYSTEMS

Creating Energy from Sewage instead of "treatment" offers grid contributed energy and outputs organic fertilizer

# Industrial Era Energy **INDUSTRY** 3.0 lt's a **Bitter** Story

### **Catastrophic Tailings**

Every Industrial Era Business just like the Agricultural Era has been good for advancement of our way of life but disastrous for the environment. Chemical Fertilizers used in Farming poison our rivers, streams and water tables, Nuclear Power Generation requires enriched Nuclear Fuel and leaves behind waste that has to be stored in the worst case for 24,000 Years (Weapons Grade Plutonium), Coal Fired Plants leave behind Coal Ash Ponds and Coal Ash which leaches Vanadium and other toxic metals into the ground under which it is buried or stored, and the Grid itself loses almost 40% of the energy it creates as power is delivered to our homes and businesses and it gets worse indoors.....

#### HEAT EXHAUSTION

Pick up your Laptop Power Brick – feel the heat? That's Thermal Loss. It's the same loss that every light bulb and trillions of inefficient Industrial Era products including grid power lines and transformers produce from the AC power system that we use today. Trillions of 24 X 7 X 365 heat pumps - every second of EVERY day spewing heat into our buildings which waste more energy cooling and into our outdoor eco-system ... its no wonder Global Warming is happening The Tried and True Model of Generation, Distribution, and Delivery has fueled our economy for years and we are the benefactors of its capability to support the socio-economic system that has fueled our daily lives. While this system has benefitted societies it has done immeasurable damage to the Environment in which we live. This model depends upon consumption thus practitioners in the industry are reluctant to discuss the power sipping realities of Distributed Direct Current (DC) in our homes and properties



INDUSTRIAL

Generation, Distribution, and Delivery Systems are part of a sustainable future ....





## **Energy As A Service**



**Power Plants** 

Energy Systems .. Evolved

Wind Farm with Cogeneration

### **Microgrids Serve Communities**

Wind Farm with

Energy Storage

The Energy as a Service Cloud is a next generation economic and integrated energy model that merges generators of energy with locally sourced supply (renewables) and consumers of energy. This model provides resilience and stability for the power grid while increasing business opportunities in communities that we build. Energy in effect becomes an all-property amenity made more attractive when distributing and using DC Microgrids in our developments and in our buildings. This opens profitable business opportunities to connected communities and maintains the Industrial Era jobs and industries of today.

Utility/Community



Living is to do something bigger than yourself every day

## WE ALL DIE. THE GOAL ISN'T TO LIVE FOREVER. THE GOAL IS TO CREATE

## SOMETHING

THAT WILL.

- "

Chuck Palahniuk Novelist and freelance journalist Author of the award-winning novel, Fight Club

# Thank you

Innovation, Opportunity - Delivered

