

Smart Cities Ecosystems

TDG (The Digit Group)

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Smart Cities Development Design | Construction | Operations Innovation Development and Delivery Housing | Transportation | Technology | Energy | Media

Forbes

"Changing The World"

July 2018



"An American Business Titan"

November 2017

Bloomberg

"Global Leader"

November 2017

Smart Cities Ecosystems



The Digit Group (TDG) plans, designs, builds, and manufactures holistic smart cities, using technology solutions as the basis of its designs. From the tallest of buildings to the smallest of villages, TDG creates smart cities solutions that provide greater security, increased safety, lower energy use, more efficient water management, safe and comfortable transportation, and a better urban experience. Its smart cities solutions have been implemented in China, Southeast Asia, India, the Middle East, Europe, and throughout the U.S. TDG discovers innovations, mixes these innovations together like ingredients, to create unique experiences, like recipes, for both greenfield Smart Cities and existing urban environments.

Art of the Possible

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Smart Cities Development

Innovative, High Performance Urban Environments

Smart Cities Guiding Principles

- 1. Energy
- 2. Information Communications Technology (ICT)
- 3. Transportation
- 4. Public Safety & Security
- 5. Green / Sustainable Buildings
- 6. Water
- 7. Waste
- 8. Education
- 9. Healthcare
- 10. Citizen Services



A Smart City is not a marketing campaign, a slick sales technique nor an amusing political catch phrase.

It is a series of solutions to a serious and urgent situation the world faces today.

Smart Cities are emerging as a civic action due to a "perfect storm" of the convergence of market conditions, technology innovation, social wants and government needs and the migration to urban environments that has accelerated on a global scale that dwarfs any previous mass movement of people in history.

青岛国际虚拟现实产业园



United Nations Sustainable Development Goals



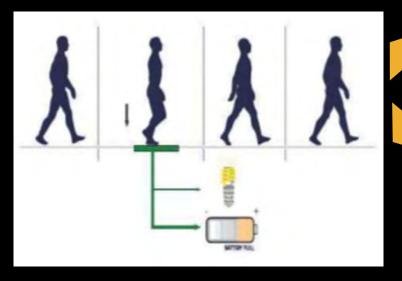


Innovation Ecosystems

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Kinetic Energy Piezoelectric

Georgia Tech



Piezoelectric material sits underneath floor finishes like carpet, ceramic tile, wood, etc.

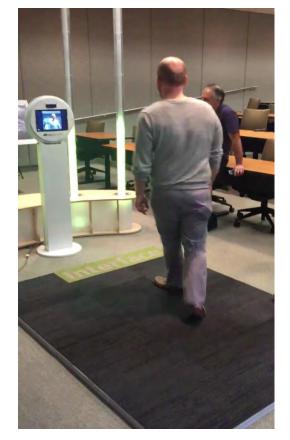




Piezoelectric is a Kinetic Energy solution that:

- Generates power from compression
- Stores and harvests this power in a Graphene Battery
- Distributes this power through wireless charging
- Captures and reports data of the exact location of the generated power dynamically

Dynamic Wireless Charging Graphene Batteries



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Kinetic Energy Piezoelectric

Atlanta Hartsfield Airport: Piezo Selfie Station

NASA Kennedy Space Center Visitors Complex: Piezo Universe

Mercedes Benz Stadium (Atlanta): Concourse and Playing Field Installation

Transportation Branded Autonomous Electric Buses

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NextGEN Bus

EV/AV LED Bus

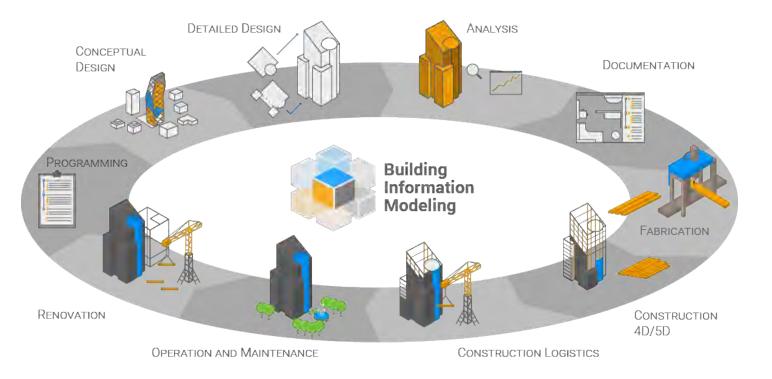
Piezoelectric / Wireless Charging

Bus Stop Sub-Station

Street Lighting



Central BIM Office Data Management / Project Control



BIM information coordination, management and project delivery

Data Classification System

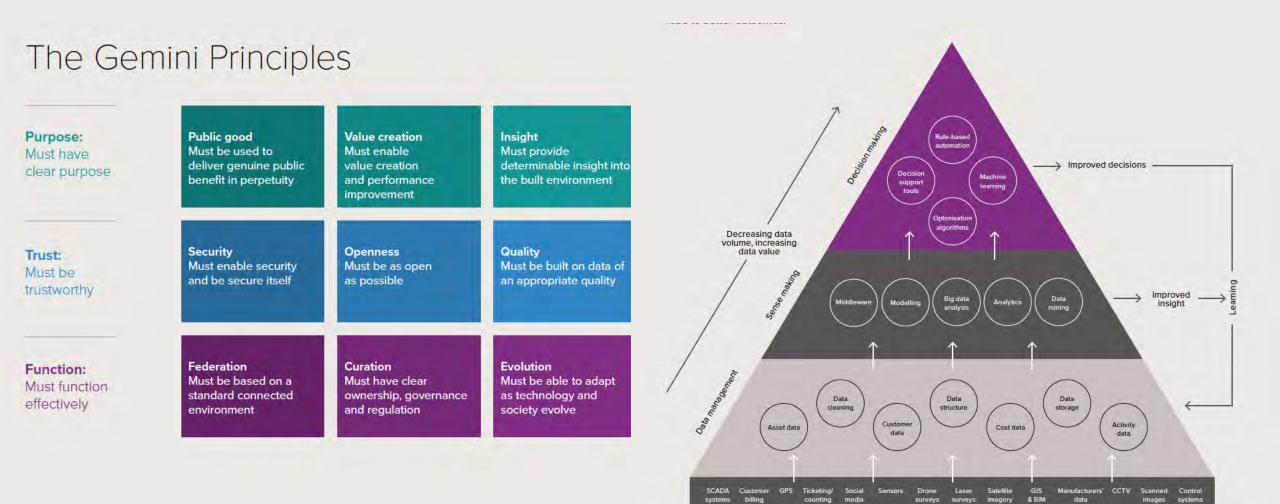
Digital DNA

Blockchain

Machine Learning / Al

Internet of Things / Sensor Management

Smart Cities



billing

counting

surveys

surveys

imagery

& BIM

systems

ORBI City Operating System **"Digital Twin"**

GENIUS PLATFORM

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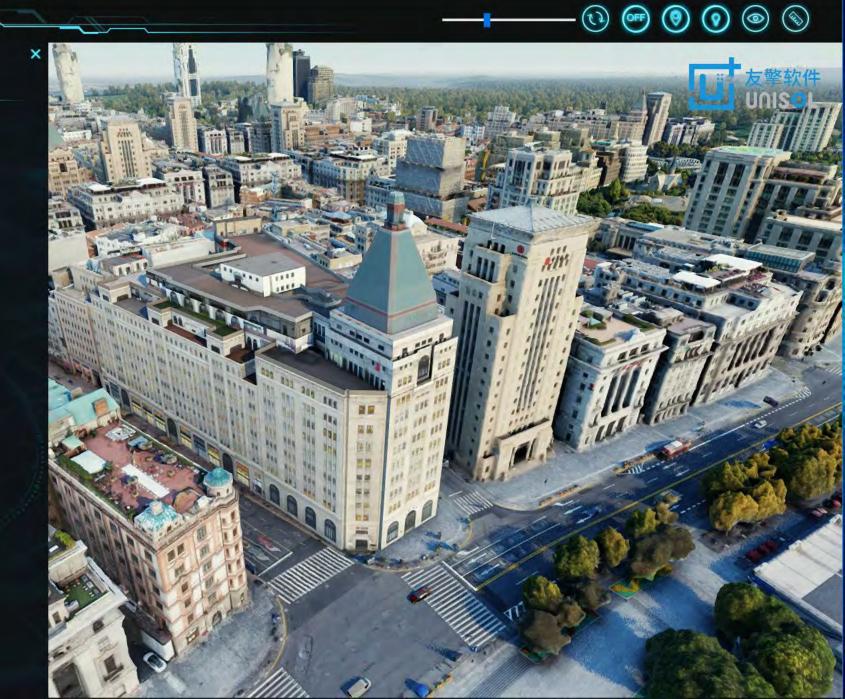
Unisol Smart Police Platform

- - ×

黄浦智慧警务系统

-标六实
○ 实有人口 ① 实有房屋
○ 实有方位 ② 实有安防
○ 实有力位 ② 实有安防
○ 实有力位 ② 实有鉴价
○ 实有方位 ④ 实有警价

中福花苑 塞元大厦 百汇公寓 南通公寓 仁宝公寓 和平饭店



Smart Cities Ecosystem Projects

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Greenfield Smart City Jeddah, Saudi Arabia

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شركة جــدة الإقتصــاديــة JEDDAH ECONOMIC COMPANY

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Jeddah Economic City

Tower

Energy

Transportation

Safety

Security

Quality of Life

Autonomous Public Transportation Nashville, Tennessee

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IMLER

Bus Vehicle

Autonomous Vehicle Less Batteries/Halo Wheel Well Installation Drive Train / Chassis LED Lighting (interior/exterior) Interior Design Innovative Advertising/Branding Revenues

Street Lighting

Curb Installed LED Lighting No Dark Areas Along the Bus Route 10g LiFi Internet Access

Piezoelectric / Wireless Charging

NextGEN Bus Storyboard

Bus Stop Station

Mobile Device Charging

Solar Powered

WiFi Access

LED Lighting

TDG AV Bus 2.0

Excess Energy Sent into the Bus Stop and then

Sold into the Power Grid Generating Revenues

Innovative Advertising/Branding Revenues

Road Surface Installation – Before/After Bus Stop Thin Film Piezoelectric on Inside of Bus Tires

Qualcomm Halo Dynamic Wireless Charge During Boarding and Offloading Process from Bus to Bus Stop









Modular Housing Automation Shanghai, China

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Modular Housing

One Home Manufactured Every 7 Minutes



BIM to Fabrication to Installation in one week

Modular Fabrication Factory

Sustainable 2500 square foot house every 7 minutes with zero defects and zero waste



Competitive Advantages



- Sustainable 250 square meter homes manufactured every 7 minutes with zero defects and minimal waste
- Once at the site, each home is prepared for move in quality in 7 days
- Pre-arranged agreements with local officials streamline the delivery process
- Technology Integration: Technology is a built into each home as a 4th Utility with Amazon's Alexa being one point of integration.
- House as a Platform: With each house as a computer, TDG Housing technology standardization compliments an array of services to the home owner
- Community as a Network: Each TDG Housing home can be connected like a computer network providing a higher level of safety, security and quality of life, including economies of scale purchasing of products, goods and services









Virtual Reality Industrial Park Oingdao, China

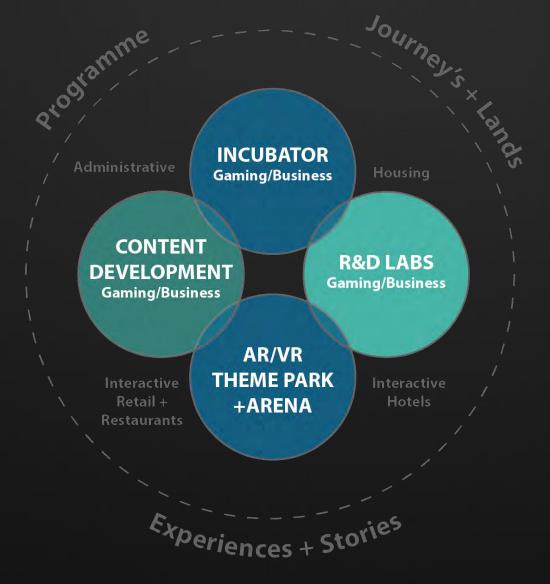
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Business Development

- VR Research & Development Laboratory
- VR Technology Incubator
- Retail / Commercial / Food & Beverage
- Smart Housing Smart Hotels Smart Health

Content Development (Studios)

Theme Park LEARNI - INNOVATE! - EXPLORE!

eTravel - eSports - eCulture

Rides & Simulations:

Superstars – Sports, Music, Entertainers Gaming – Individual/Multiplayer Business Showcase Convention / Conference Center Arena















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Qingdao International Virtual Reality Theme Park

Data-driven, human-centric Keep the bigger story in focus Embrace the collision of industries

Do good for our world

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