Smart Nolanville

Presented By: Charles Marsh, Veronica Luna, and Shannon Valkovich

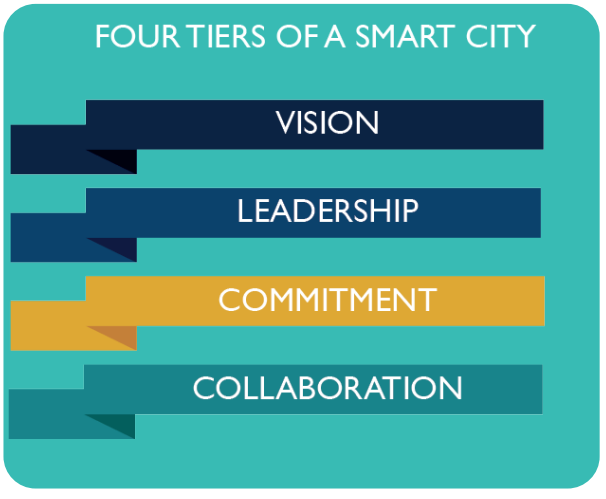
Our Mission and Goals

To create a network of strong connectivity, smart planning initiatives, and a sustainable environment for current and new generations of Nolanville in order to provide the future, for today.

- Provide Nolanville with smart technology that is appropriate for the city's needs
- Create a space that invites local business and economic advancement
- Plan for smart and human scaled interaction
- Ensure that ecological areas are enhanced and that natural resources are used whenever possible

What Is A Smart City?

- A city that uses technology to its advantage
- A city that plans for the future
- A city that initiates change for the best quality of life for its residents
- A city that prioritizes the health of its economy and its citizens



Why SMART Nolanville?

Nolanville has a unique opportunity to become the first small town to embody smart initiatives that can potentially become a leader in smart city development. Nolanville is at the proper age to explore these technologies and plans because it has the potential for growth in more ways than a typical town.

Technology For Nolanville

Present Technology

Touch Screen Kiosks

Smart Recepticles

Solar Panels

Charging Stations

Outlet Benches

Low Impact Development

In 10 Years

Automated Delivery

Medical 3D Printing

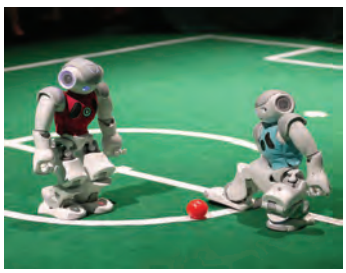
Common VR Use

In 20 Years

Realistic Prosthetic

Automated Trucks

Robotic Entertainment



In 50 Years

Autonomous Vehicles

Wireless World

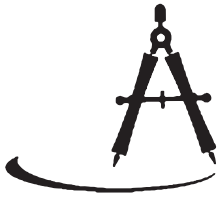
Bio Enhancement

Transportation

Connectivity

Ecological Resources

Smart Planning



AUTONMOUS VEHICLES

- DESIGN FOR THE FUTURE OF AUTONMOUS
- DEVELOP A SYSTEM TO ACCOMMODATE TO THE OVER-ALL WELLNESS OF THE COMMUNITY

SECURTIY

- DATA FROM SENSORS HELP CREATE A SAFER COMMUNITY
- BETTER TRANSPORTATION MEANS SAFER ROADS

SMART TECHNOLOGIES

- DEVELOP A A CENTER FOR GROWTH OF TECHONOLGY
- IMPEMENT TECH TO HELP THE LOCAL ECONOMY

SUSTAINABILITY

- FORM A PLAN TO MITIGATE DAMAGE FROM DEVELOPMENT
- INTERGRATE A NETWORK OF GREEN ENERGY TO POWER FUTURE DEVELOPMENT

driving

THE FUTURE

RETHINKING TRANSPORTATION

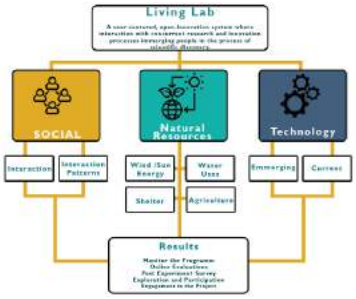
- **Developing a smarter transportation model for the future of Nolanville**.
- **Creating a prosperous comunity that pushes the boundries of technology and community design**.

SMART NOLANVILLE

LIVING TO LEARN

Legend

1.- Entrances
2.- Solar Panels Park
3.- Experience Route
4.- Energy Play
5.- Amphitheater
6.- Water Energizer
7.- Open Exploration
8.- Crops Garden
9.- Wooden Trails
10.- Vertical-Axis Turbines
11.- Green Roof
12.- Walkway
13.- Program Pavilion
14.- Learning Plaza
15.- Parking Lot



ABOUT

"Living to Learn" is proposed to be used as a living lab to experiment and co-create. Experiment current and new technologies, as well as, a learning environment for the young and old. Finding smart ways for a sustainable environment, using the natural resources and the everyday activities to help this site being able to maintain itself.
For this proposed area, three areas of study are identifying, social, natural resources and technology.

The social area can study the human interaction and learning patterns. The natural resources will be everywhere in the open area with different mechanisms to generate energy, get clean water, have recreational purposes, learn and interact with agriculture and shelter. Last but not least, technology, current and emerging technology can be found in the building and the pavilion. Having a sustainable space require smart solutions. Taking advantage of the nature light and wind can generate a lot of energy for the lighting in the green space as well as for the building. Smart ways to collect, filter and use rain water is ideal for irrigation and toilette water use.
A community garden is a smart way to educate the residents and visitors about the easy ways to grow their own crops and experiment to create new fruits and veggies.

Shaded Sitting
For comodity and promote interaction

A Different Walway
Colects energy from the sun and turn light on when you walt on it

Complete Streets
Bike/Pedestrian/Cars

SMART NOLANVILLE
LIVING TO LEARN

Presented By:
Veronica Luna

Smart Nolanville

A Complete Community

Presented By: Shannon Valkovich

A Complete Community Means...

A smart community means a walkable, healthy, and inviting place to live. Although technology is an essential element to smart communities, knowing how to integrate that technology in a small town atmosphere is key to understanding Nolanville. A smart community for Nolanville means to fuse a small town atmosphere with the future of city planning. This can be done using initiatives that ensure Nolanville's success and identity.

Smart Initiatives

- Low Impact Development strategies: rain gardens, green roofs, biswales, rain barrels and rain water capture.
- Smart Tiny Home Community: Provides a space that is efficient for multiple family sizes. It shows how a community can be walkable and easily planned out for everything necessary for everyday living.
- Complete Community: Everything necessary for daily life is within walking distance. Examples: Grocery store, business, post office, health clinic, hair salon, dentist, etc.
- Smart Technology: Smart street lamps, traffic crossings, speed bumps, solar parking, solar paneled roofing, permeable pavement, wifi hot spots, recycling containers, touch screen kiosks, etc.

Smart Planning

A smart plan for a city uses sustainable materials, healthy activities, and implements smart advancements that drive the community forward. Planning a smart community for Nolanville means to design for a human scale, while still being aware of drivers and autonomous vehicles.