



Technology has developed faster than urban planning.

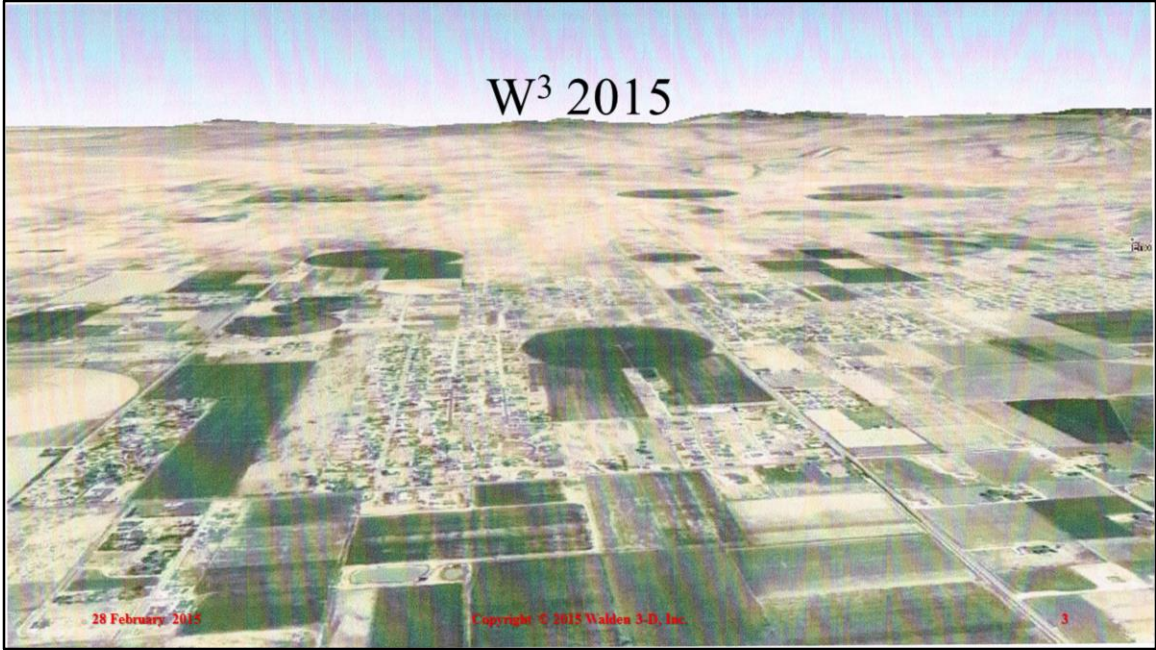
These slides introduce a plan to prototype a new technology based urban planning process called **The Urban Machine**,
Combining themes of **the wild west** and
environmental friendly information based technologies.

Think ***On Walden Pond*** by Henry David Thoreau and Star Trek in the Wild West.

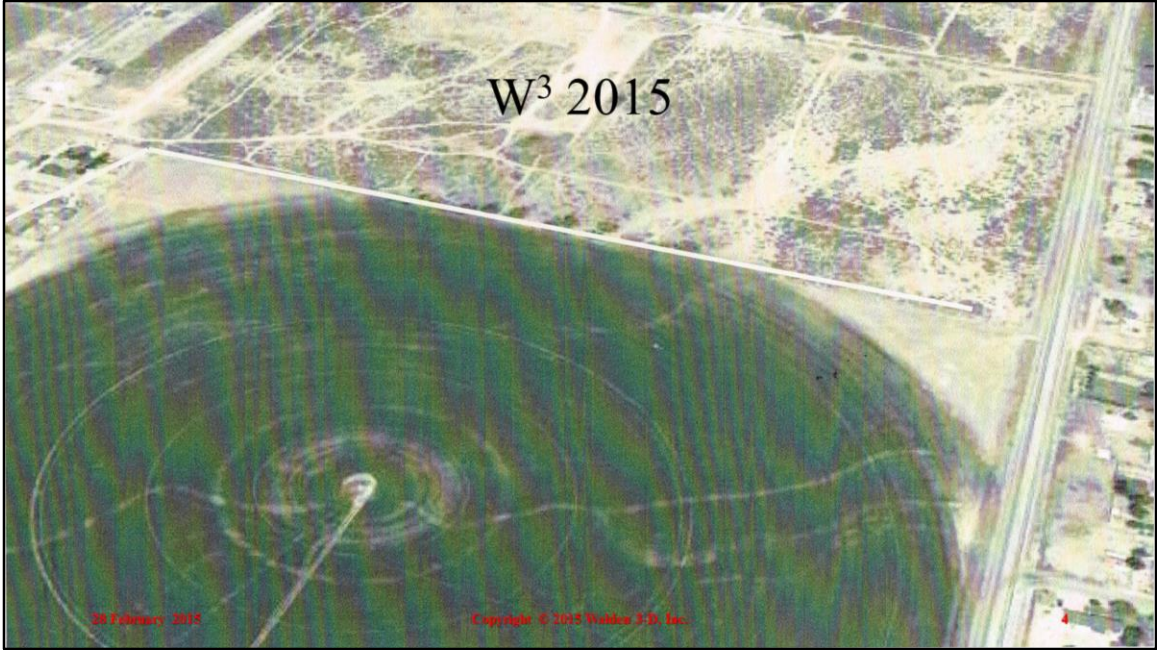
Wild West Walden 2015



H. Roice Nelson, Jr. grew up on the back end of a shovel on the Star Ship Enterprise,
and has been interested in urban planning since serving an LDS Mission
in southeast England from November 1970-November 1972.



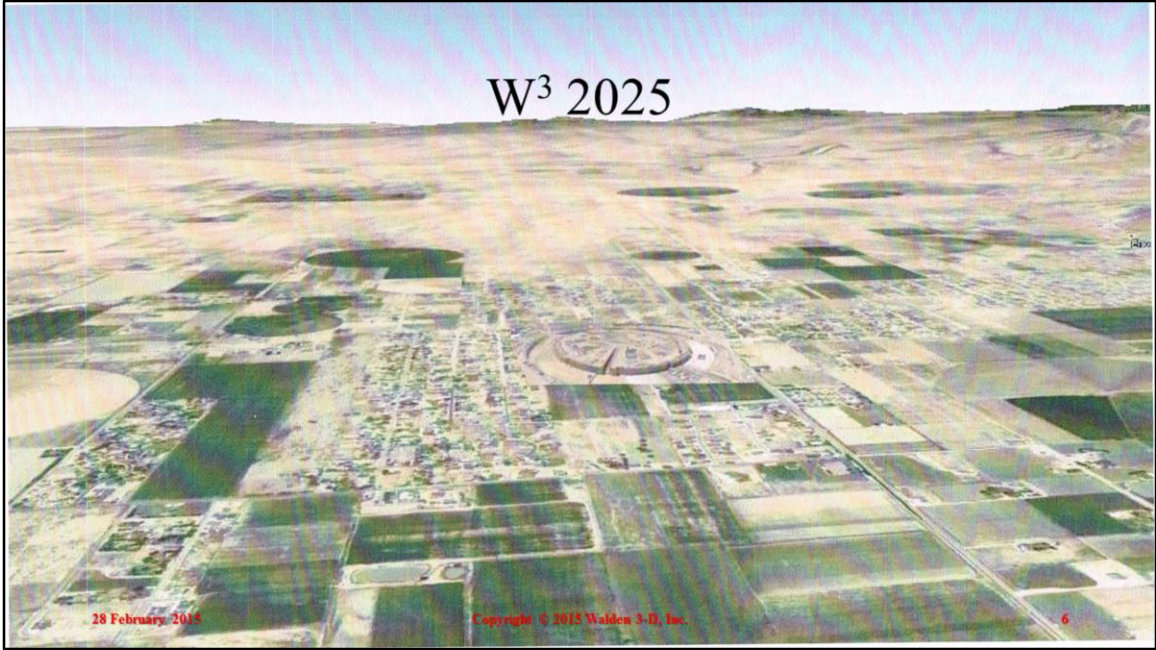
Roice has been concerned about the unsustainable and inefficient growth of housing in Cedar Valley ever since serving in England. A best friend, Cedar City architect Raymond S. Gardner, introduced Roice to the work of Paleo Soleri and his plans for *Archology, The City in the Image of Man*. This project is a practical implementation of these concepts.



Given an undeveloped piece of land in an area surrounded by growth, there is a unique opportunity in time and space to prototype a new type of urban environment, built around people and not around automobiles, taking advantage of new information technologies to measure, monitor, motivate, and maintain.



Within 10 years it is feasible to build a new type urban infrastructure,
where the housing and the urban services are integrated and unified whole,
so citizens have automatic delivery of groceries and mail and unique on-line access.



The project will be designed in virtual reality in order to get buy-in and design contributions from neighbors and the community, to be iteratively improved until there is a political consensus and an economic basis to proceed.



The Nelson farm is currently surrounded by low density housing in Cedar Valley, Utah.

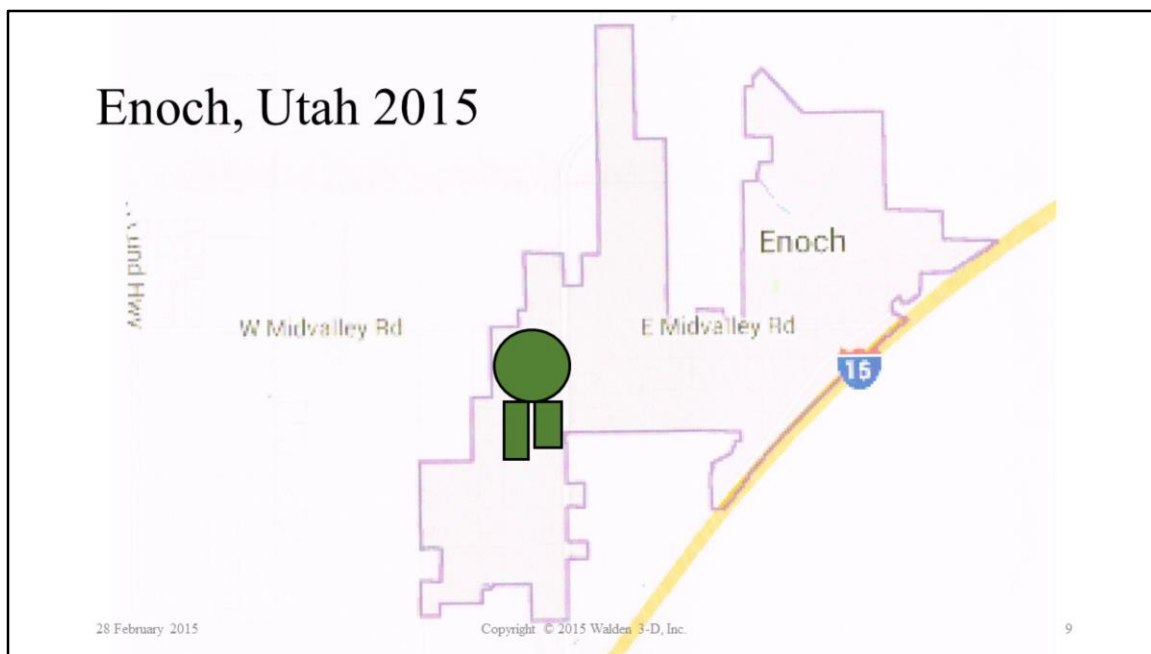
The highest and best use of the land is not growing alfalfa.
A high density urban center supporting the surrounding area
leapfrogs the value of additional low density housing.



Apple Computer is currently building the above innovative complex as a new office facility. The previous inserted images were derived from published photos of Apple's project in Silicon Valley.

The proposed Wild West Walden (W³) complex will look like an orchard from above, with trees on top of buildings, watered with recycled water, and tied to equestrian and 4-wheeler access to surrounding areas.

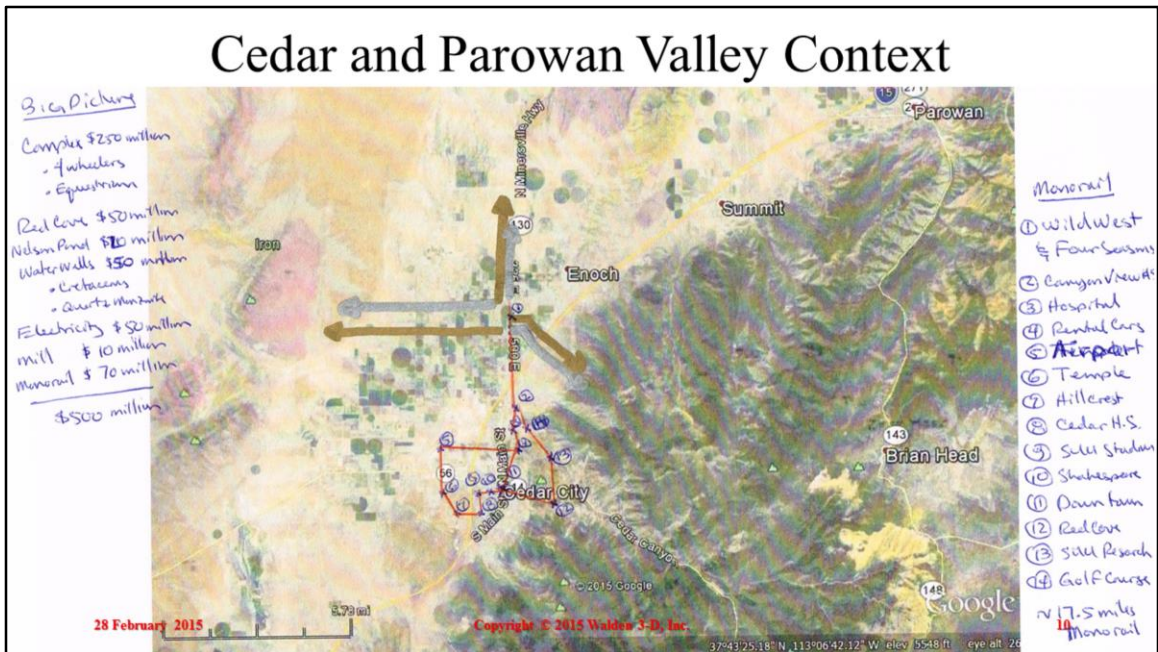
Enoch, Utah 2015



The City of Enoch is a special place in LDS scriptures. If built today, as described in the scriptures, Enoch would be a place where everyone wants to go, a shining ensign to the world, a place of gathering, with a modern Garden of Eden filling the in between spaces, a land to publish peace, a place of refuge where all poverty has ceased, where people have one heart and one mind, where there is no minority, where Enoch's towers glitter like the sun in the sky.

The Nelson farm is within the boundaries of Enoch, where a majority of the population is LDS. Enoch is a good place to prototype a new type of urban environment.

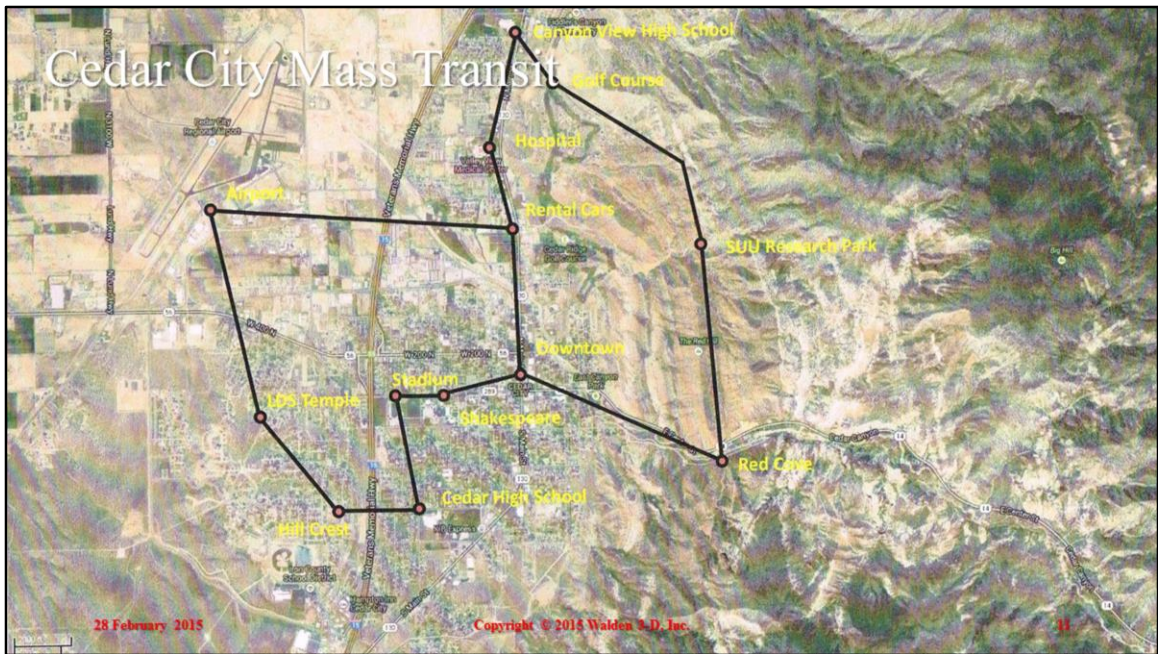
Cedar and Parowan Valley Context



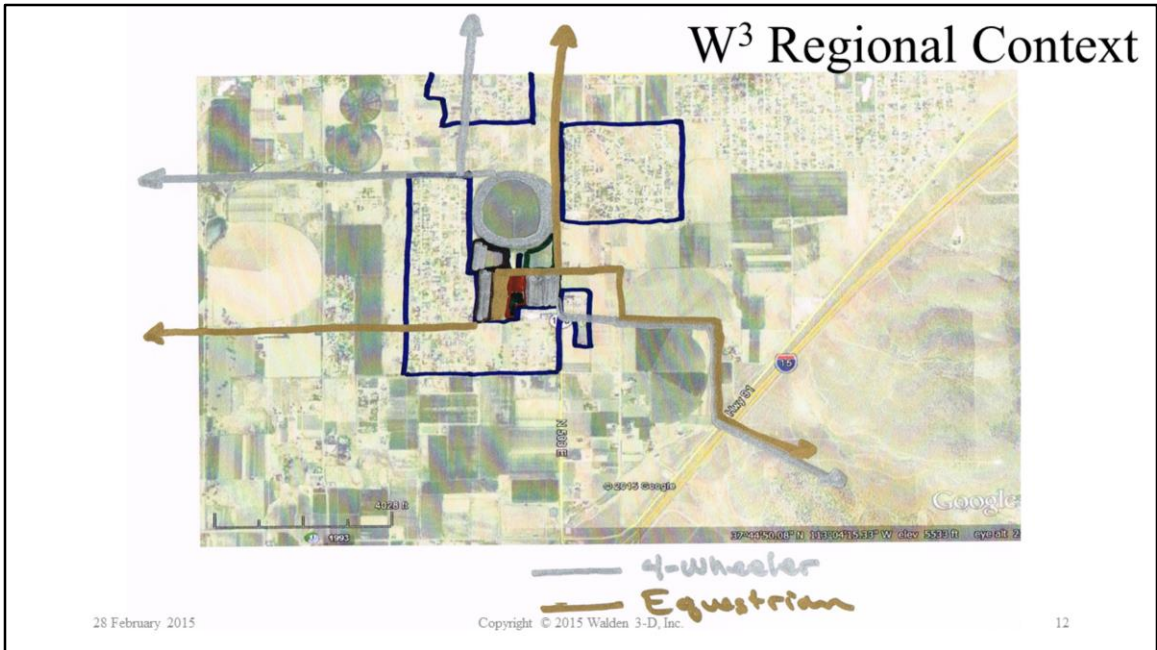
The big picture is these projects, if they happen, will be self funded.
The initial cost estimate is for \$500 million, as shown on the left.

The Nelson Farm is at the north end of Cedar Valley, with similar access to Three Peaks to the west, Rush Lake to the north, and Fiddler’s Mountain to the east. Worldwide fascination with the wild west, a community built around horses and 4-wheelers, and higher density housing than the surrounding area, are the concepts being explored.

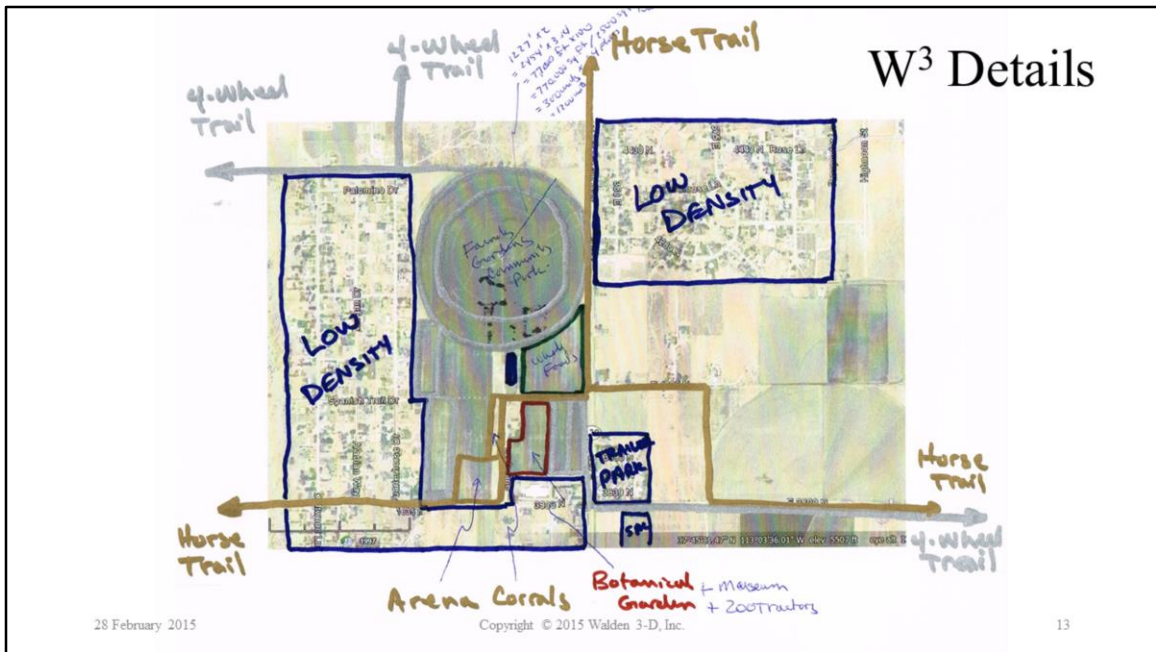
One key of a successful urban environment is the connection to the surrounding framework. Transportation impacts urban environments, as shown by the success of UTA TRAX in northern Utah.



Is there sufficient population in Cedar Valley to justify mass transit?
Ben Lamoreaux, <http://lamoreauxgroup.com> an engineer in Cedar City, has worldwide rail transportation expertise. Cedar has train connections to the world, there is not enough competition among rail transportation options, and a lower-cost monorail system connecting W³ to Cedar City connections could create a new monorail manufacturing business started in Cedar Valley.



To be successful, a new subdivision or community, needs to have a central draw.
There are no large grocery stores north of 200 North in Cedar City.
There seems to be an opportunity to make something like Whole Foods an anchor.
The idea of creating a rustic gravel road community with barns and corrals, and
an old west texture, would turn the prototype 21st century community into
a destination. Especially when the community would also have separate equestrian
and 4-wheeler trails to Three Peaks to the west, Rush Lake to the north, and
Fiddler's Canyon to the east.



The Nelson Farm is about 200 acres. If the cylinder motif is retained, taking the $\{[\text{radius (feet)} \times 2 \times \pi] \times 100 \text{ feet}\} \div (\text{average of } 2,500 \text{ square feet/unit}) \times 4 \text{ floors} = 1,200 \text{ units}.$

In 2012 Enoch, Utah had a population of 5,992 with a density of 1,047/square mile. With 3 people per unit, W³ would have a population of 3,600 in about 2030 with a density of 11,520/square mile.

With Enoch population growth at 4.87% per year, Enoch population in 2030 will be 14,102.

In 2030 this puts the population of W³ at 26% of the population of Enoch.

- Residents would help take care of horses, cattle, sheep, and pigs.
- Horses would be available for residents and visitors staying at the local hotel.
- 4-wheelers would also be available for recreation.
- Animals would be used for trail rides, then slaughtered on-site as range fed organic meat and sold in the store.

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