

# Sustainable Sandhills/Fort Bragg

Monday, May 05, 2003

## Who/Where/Innovations

Joan	Fort Bragg	Network – bike paths Short-range transportation
Betty	Harnett Co./Sandhills Family Heritage	Youth daily transportation Senior daily transportation
Mike B.	DOT Statewide Planning	Integrated transportation planning Multi-modal
Mike L.	NC Div. Of Coastal Mgmt.	Transportation using readily available local resources Implement EEP (Enviro. Enhancement Prog.)
Rob	Consultant/Kelly Springfield (mfg.)	Carpooling lanes/benefits Alternative fuels/lanes
Tammy	Mid-Carolina Council of Govts.	Alternative fuel vehicles with infrastructure
Sally	DENR/Div. Of Air Quality	Bike paths Statewide mass-transit to connect major cities and for local traffic
Roger	DOT	Integrated transportation and planning and land development Multi-modal High profile environmental stewardship
Irina	Fort Bragg Transp. Planner	Education planning Magnetic roads
Kurt	Sustainability Partners	Remove take/make/waste mentality and replace with closed system thinking

## **Things Associated with Transportation**

Accidents  
Water quality  
Tolls  
Expensive  
Interstate  
Resource consumption  
Quality of life enhancement  
pleasure/fun/relaxation  
beauty/aesthetics  
Golf carts  
Jet skis  
Time  
Stress  
Inter/intra area movement  
Horses  
Bikes  
Design/build  
Ozone  
Speed  
Inconvenience  
Safety  
Freedom  
Opportunity  
Necessity  
Congestion free  
Traffic  
Railroads  
Roads  
Environmental impacts  
Connectivity  
Fuel efficiency  
Gas guzzling  
Affordability  
Economical  
Travel  
Mobility  
Development (communities)  
Maintenance  
Access  
Economic growth  
Multi-modal  
DOT  
Highway Patrol  
Job creation

Air travel  
Mass transit  
Revenue generation ability  
Advertising  
Noise  
Visual pollution  
Light pollution  
What is transported? People/goods/advertising  
Disease transmission – SARS  
Terrorism

## **Sustainable Sandhills Cover Story**

### Group 1

Cover: Sandhills Region Leading the Nation in Transportation, Innovation and Community Development

Highlights and Quotes: - Solar Powered Vehicles - Hydrogen Fuels

What does your article say?

Multi-level highways expand upward, not outward. Creates wildlife corridors; saves land for other uses.  
Mono-rails becoming ever abundant replacements for outdated modes of power transportation. –High speed - Safer than individual transportation  
Combining mass transit and highway design makes Sandhills area easy to get around and attractive to business and industry and residents  
Sandhills Environmental Model  
Sandhills Living in Harmony with the Environment  
Community Reaches Sustainability Goals  
Most Walkable and Bikeable Community  
Integrated Transportation and Land Development Planning Generates Multi-Modal Transportation System that Shapes and is Responsive to Communities of the Future  
Through a Collaborative Effort, Communities in the Sandhills Have succeeded in lowering air quality levels, increasing travel times and reducing congestion and increasing mass transit ridership.  
Describes community  
Describes environment (clean air, clean water, low noise)  
Describes spirit of caring  
Describes quality of life  
Health children

What is the cover story headline?

Sandhills Region Leading the Nation in Transportation Innovation and Community Development  
Multi-Modal regions—AT LAST!!!  
Top 10 Healthiest, Greenest, Most Vibrant Communities  
Most Walkable Community  
Most Integrated Community

Where Does Your Article Appear?

USA Today  
Time  
Newsweek  
Southern Living  
AWMA  
Health Magazine  
Fitness  
Working Woman  
Fayetteville Observer

Key Words, images, bylines, highlights...

Fuel Efficiency!  
Ozone in great shape  
Intra-state system complete  
Solar powered vehicles  
Greenways  
Like walking on a nature trail  
Waterways  
Diverse species  
Drinking fountains  
Provide most direct route to your destination  
Rail system  
Bike/pedestrian paths  
HOV/bus lanes  
Connected developments  
Eco-systems preserved  
Intergovernmental planning  
Serenity  
Aroma of coffee  
Flowers and butterflies  
Buildings that capture sunlight  
Trees, gardens, shrubs  
Like a living spa  
Most abundant elements now fuel of choice  
Water recycled

No emissions  
Part of the hydrologic cycle

## **Group 2**

Cover: DESTINATION – Sustainable Communities

Highlights and Quotes: Sustainable Sandhills Leads the Way - Fully integrated transportation land use - Last Gas Pump Shuts Down

What does your article say?

Integrated  
Hydrogen fuel cell  
No roads needed. All travel is done off the ground on different levels.  
Guide to mode of transportation  
New mode of travel  
Ft. Bragg center of economic engine  
New map for collaboration  
Sustainable development

What is the cover story headline?

Sandhills Region Leads the SE in Economic Development and Environmental Sustainability  
Interstate I-40 Was the Last Road to be Destroyed  
Asphalt Nation: A relic of the past  
Voice Activated Vehicle Now on Display

Where does your article appear?

Life magazine  
Sustainable Community  
Kiplingers  
Mixed Land Use  
Travel Guide of the Future  
Time  
Fortune

Key words, images, bylines, highlights...

At the transit stops, secure bike parking provides transportation to home  
At the beginning of the millennium, what seemed impossible has come to pass. The Sandhills Integrated Transit System has ridership that exceeded drivership for the first time this year.  
Livability  
Low unemployment rate

All vehicles are lifted off the ground and travel on different levels  
All travel is done automatically. The driver only needs to tell the car where s/he needs to go  
All vehicles are made from bio-degradable material and use solar energy & wind, etc.

### Qualities of a Sustainable Sandhills

Integrated community development, land use/transportation planning  
Preservation of ecosystems thru less highway sprawl  
Regional mass transit availability  
Environmental stewardship incorporated into transportation systems  
Education on how to have a sustainable community  
Innovations like solar power, hydrogen fuel cell vehicles, magnetic levitation  
Use of 100% renewable, local, non-polluting sources of energy  
A corridor for inter/intra state/local movements/modes  
Extensive use and adequate infrastructure for multi-modal transportation systems (mass transit, Bikes, pedestrian, personal vehicles, tele-commuting, etc.)  
Alternative highway design, i.e. multi-level, more compact  
Need a Dept. of Greenways to ensure or work with development of pedestrian/bicycle infrastructure  
All vehicles and infrastructure made out of bio-degradable and locally produced  
Develop context sensitive/innovative design solutions for all transportation needs  
Increased road surface is not equal to improved mobility and accessibility

### Must-haves for a Sustainable Sandhills

Sustainability  
Integrated transportation/land-use planning  
Solar power vehicles  
Mono-rail – regional  
Less highway sprawl  
Alternative highway design to allow for sustained biodiversity  
Meeting sustainability goals  
Multi-modal  
Bike paths  
Walking paths  
Ecosystems preserved  
Connectivity of transportation types  
Alternative fuels  
Livability  
Reliable, fast, frequent transportation to other regions  
Community development and transportation planning together  
Monorail and mass transit  
Transportation and land use planning together  
Multi-modal transportation systems

Walking and biking  
Fuel efficiency and no fossil fuels  
Use 100% renewable sources of energy  
No pollution  
Sustainable transportation systems are a critical component of high quality; of life of communities  
Transportation innovations integrated with community development  
Mass transit design  
Easy to get around  
Greenways – walking trails and bike paths  
Highlights hydrogen fuel cell innovation and solar power  
Preserve ecosystems  
European – small environmental footprints  
Environmental stewardship 100% renewable, local, non-polluting sources  
People educated in the impacts that their travel has on the quality of life of communities  
Functionality  
Alternative fuels (hydrogen cell, solar)  
Community involved in development  
Ecologically sound infrastructure  
Fully integrated  
Hybrid vehicle usage  
Increased alternative fuel infrastructure  
Increased mobility  
Regional mass transit available  
Energy/fuel corridors to support new modes of transportation  
DOG (Dept. of Greenways) as a subgroup of DOT to ensure development of greenways  
Education and awareness for surrounding communities

### Positive and Negative Impacts

#### **Alternative Fuels**

(Positive)

Abundant in environment

No side effects/pollutants

Hydrogen cell emissions part of the hydrologic cycle

(Negative)

Expensive

Duration

Re-structuring on a local, state, federal level can be slow but required

#### **Community Development**

(Positive)

Integrated transportation reduces clear cutting, forces land preservation

(Negative)

Concentrated development increases/concentrates emissions

Little or no greenways

Community designed based on gasoline powered vehicles

Lacking infrastructure to support mass transit and alternative fuels

### **Economic Development**

(Positive)

Creates employment

Generates profits for automobile manufacturers and fuel distributors

Convenience

Jobs

### **Resources**

(Negative)

Extraction of materials from the earth to build vehicles and infrastructure

Extraction of non-renewable materials as fuels

Impacts to water quality

### **Infrastructure**

(Positive)

Increasing capacity of system without increasing footprint

Alternative Highway Design:

Increasing lanes vertically equals smaller footprint and saves land for other purposes

Creates biological corridors thus preserving the required biodiversity necessary for sustainability

(Negative)

Lacking infrastructure to encourage walking/biking (safety issues, showers at work)

Lacking commuter transit programs at major employers

Too many cars on the road

Poor roads in bad shape

High speed for conditions

Promotion of wasteful life style through abundance of freeways and lack of alternative transportation options

### **Equitable Accessibility**

(Negative)

Lacking community awareness (motivation to support)

Lower quality of life for all due to lack of transportation alternatives and auto dependency  
(more time spent in the car instead of with family, more \$ spent on community)

Discrimination of people without Drivers' License: elderly, young, immigrants with poor English due to heavy automobile dependency

## **Six Sustainability Impact Areas**

Air Quality  
Water Quality  
Economics  
Health  
Land Use  
Accessibility

Parking Lot from Monday, May 5<sup>th</sup>, 2003

Job loss concerns  
Awareness/training, etc.