# Capacity of the Marketplace and Availability



Southeastern States Regional In-place Recycling Conference Atlanta, Georgia – September 1<sup>st</sup>, 2011 Ryan Essex, P.Eng., MBA – The Miller Group Inc.

# **Presentation Outline**

- Introduction
- Pressures Concerns
- Capacity of the Marketplace
- Availability of:
  - Contractors
  - Equipment & Technology
  - Product & Materials
- Resources Available





## Introduction

- To know the capacity of the marketplace we must first understand it.
- What is the environment of the marketplace?
- How does recycling into this environment?

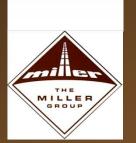




fit

## Introduction

- Sustainability is the new GREEN
- Taking steps beyond compliance to continually improve the Economic, Environmental and Social performance of a business, product or service.





### **Environmental Pressures**





### **Design Pressures**

- Take an adaptive approach
  - Change design standards (i.e. increase pipe sizes and increase rip rap to deal with more frequent large storm events).







## **Design Pressures**

Mitigation - reduce impact of:
 Construction Practices
 Materials

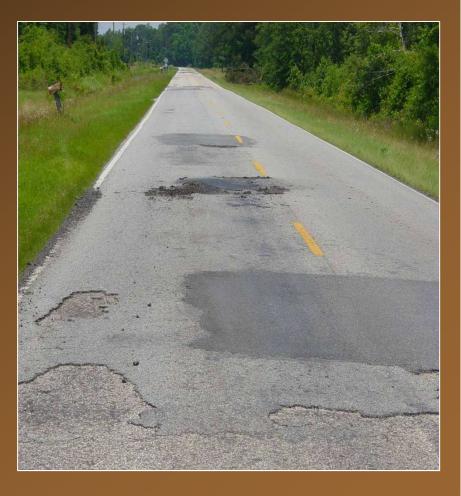






### **Monetary Pressures**

- Fix more with less
- Produce new materials from old.
- Treat an old road as an asset
- At least worth it's weight in GAB
- 1 mile = \$112k!
- Mine the existing materials.





### **Pressure to find solutions**



INNOVA TION SUCCESS EVALUATION DEVELOPMENT GROWTH SOLUTION PROGRESS MARKETING

## **Solutions for the Marketplace**

- Design (adaptive or mitigation) and construct utilizing <u>practices</u> that are sustainable, thereby balancing environmental, social and economic factors while ensuring technical performance.
- Capacity has been created in the marketplace because we have contractors, product and material suppliers, equipment manufacturers and owners who believe in these solutions.



### Solutions that achieve...

### Sustainable development

• development that meets the needs of the present without compromising the ability of future generations to meet their own needs.

UN World Commission on Environment and Development (WCED) "Our Common Future" (The Brundtland Report)





# **Cold In-place Recycling**

#### **Reduced Carbon Footprint**

# **Full Depth Reclamation**

WARNING

#### **Reduced Energy Consumption**

TEREX

# Hot In-place Recycling

#### **Decreased Virgin Material**

KOLO VEIDEKKE

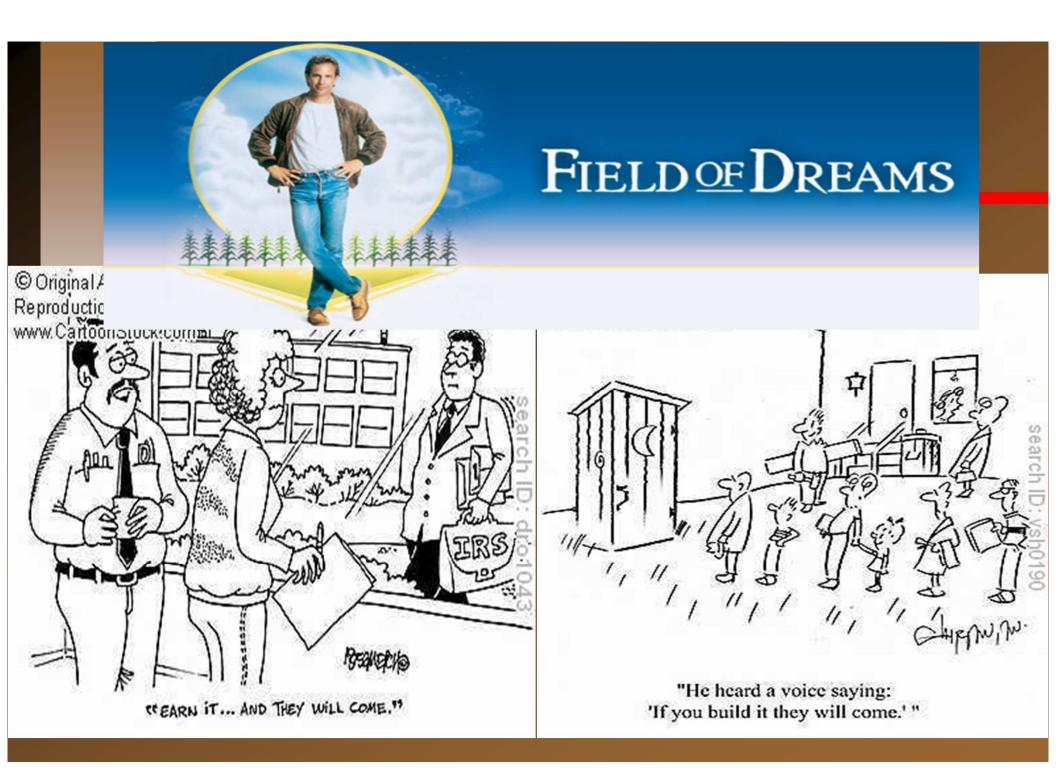
...

# **Owner's Concern**

- If I call the work, if I tender the work...
- Will I get bidders?
- ♦ How much can I call?
- ♦ If I bid it will they come?







# Reality

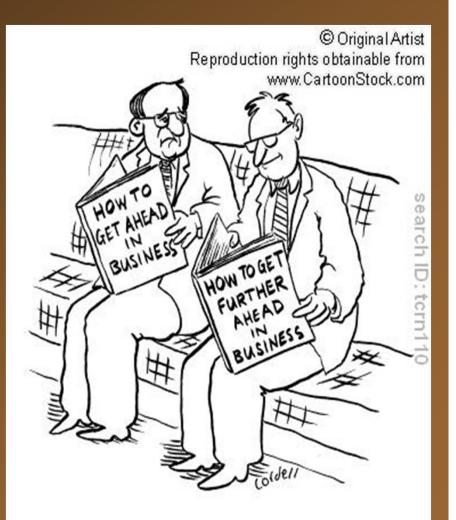
### • Before it has been built...they have come





# **Market Capacity**

- Southeast has a unique situation
- Incredible capacity exists even before there is a full steam ahead market.
- Has created a very competitive marketplace
  - Good for owners





# **Market Capacity**

- How has it been created?
  - Capacity has been created in the marketplace because we have contractors, product and material suppliers, equipment manufacturers and owners who believe in these solutions.
  - Capacity has been created because the necessary components exist in the Southeastern USA





# **Availability of Contractors**

- Reputable contractors
- Quality Contractors
- Spread throughout Southeast or...
- Have low-boy will travel to Southeast





# **Availability of Contractors**

21

### All disciplines

# **Experience of Contractors**

20 plus years of experience. Lessons learned and applied





# **Availability of Equipment**

- All major equipment manufacturers and suppliers have a presence in the Southeastern United States
- Take a look at our sponsors & exhibitors









# **Availability of Technology**

World class expertise, support & training
First rate technology in our own back yard.
Example - 2 major CIP manufacturers within 4 hours of Atlanta





# **Availability of Materials**

- ✓ Lime
- ✓ Fly Ash
- Portland Cement
- Asphalt Cement for expanded
- ✓ Asphalt Emulsions
- ✓ <u>We've got them all!</u> ...and more







# **Resources Available**

- Pavement Recycling and Reclaiming Center (PRRC)
  - Executive Director Dr. Stephen Cross
  - Technical Director Dr. Dragos Andrei
- Asphalt Recycling & Reclaiming Association (ARRA)
  - Basic Asphalt Recycling Manual (BARM)
  - Industry Professionals
  - Training Courses







Semi-Annual Meeting

November 7 - 8, 2011

Benson Hotel Portland, Oregon

Promoting Asphalt Recycling & Reclaiming since 1976

For reservations call 888-523-6766 or 503-228-2000, or email your request to reservations@bensonhotel.com. http://www.bensonhotel.com/



www.arra.org

Asphalt Recycling & Reclaiming Association

#3 Church Circle - PMB 250 Annapolis, Maryland 21401

Phone: 410-267-0023 Fax: 410-267-7546 E-mail: cerone@arra.org Register now for the ARRA Semi-Annual Meeting in Portland, Oregon

Visit the ARRA website at <u>www.arra.org</u> for complete registration information.

ARRA is part of the Pavement Preservation & Recycling Alliance

# ARRA is a founding member of the Pavement Preservation & Recycling Alliance



Along with partners, the Asphalt Emulsion Manufacturers Association and the International Slurry Surfacing Association







<form><form></form></form>	Come join ARRA's best		
Company Address       Fax ( , , , , , , , , , , , , , , , , , ,	ARRA MENBERSHIP APPLICATION of the address listed above. Please complete the membership application form below and mail today. If you please enroll the following as a Please enroll the following as a Please enroll the following as a Please enroll the following as a	Supplier Membership	
Signature         Sponsor         for membership categories, qualifications, fees and payment information         registration fees are generally deductible as ordinary and necessary outrigitation fees are generally deductible as ordinary and necessary outrigitation fees are generally deductible as ordinary and necessary outrigitation	Company       Fax ( )         Address       Fax ( )         City       Country         Country       )         Telephone       E-Mail Address         Website       Website         Official Representative To ARRA:       Name         Name       Title         Atternate Representative:       Name         Name       Title         Our firm is engaged in the following:       Date         Signature       Date	Image: Search and the search and th	

## Conclusions



### Pressures exist that create the market

- Design (Adapt vs. Mitigate)
- Environmental (Climate Change)
- Monetary (Do more with less \$\$\$)
- ♦ Sustainability is the new GREEN
- Capacity has been created at all levels to deliver solutions that needs of the presence compromising the ability future generations to their own needs.



### Conclusions



- ♦ Go ahead, keep building they have come.
- Tremendous capacity in the market to increase all forms of in-place recycling.
- Components for a competitive marketplace exist - availability.

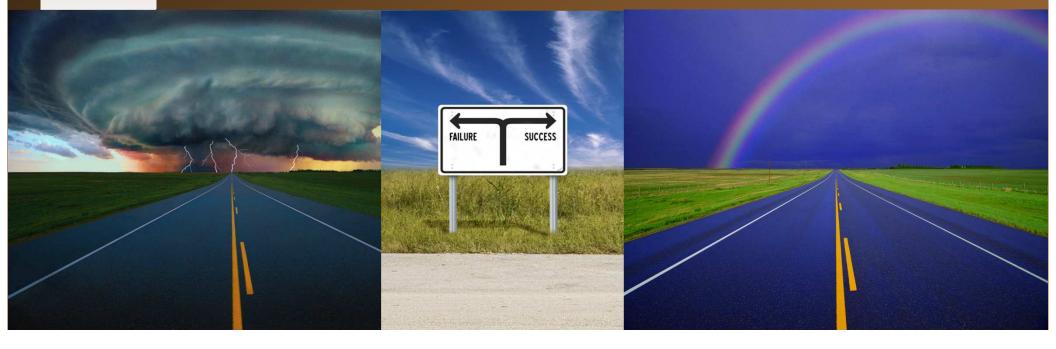




# **Final Thoughts**



- Vast amount of knowledge and experience exists in this market, throughout, the U.S., North America and the World.
- Let's continue to tap into those resources and expertise – no need to go it alone.



# Thank-you – Questions?



Ryan Essex, P.Eng., MBA Miller Paving Limited yane@millergroup.ca (905) 726-9518

building rural and urban infrastructures

