Capacity of the Marketplace and Availability

Southeastern States Regional In-place Recycling Conference
Atlanta, Georgia – September 1st, 2011
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 fit into this environment?
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.

Triple Bottom-line
You have a slight temperature - take an aspirin and call us in a few years if you're not feeling better.
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
Solutions for the Marketplace

- Design (adaptive or mitigation) and construct utilizing practices 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

Reduced Energy Consumption
Hot In-place Recycling

Decreased Virgin Material
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?
"Earn it... and they will come."

"He heard a voice saying: 'If you build it they will 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

♦ 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
✓ We’ve got them all!
…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
Register now for the ARRA Semi-Annual Meeting in Portland, Oregon

Visit the ARRA website at [www.arr.org](http://www.arr.org) for complete registration information.
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
Come join ARRA’s best

Join online at www.arra.org or print out the pdf application and fax to 410-267-7546
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 meet the needs of the present without compromising the ability of future generations to meet 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.