

RECYCLED RUBBER CHALLENGES & SUCCESSES

CDPHE

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Greenwood
Village, CO

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OUTLINE

- HOW & WHY WE USE 1,000'S OF TIRES/YEAR
- BENEFITS OF USING RECYCLED TIRE RUBBER
- NEW TRENDS FOR RECYCLED CRUMB RUBBER
- THE FUTURE



BACKGROUND

- DESIGNED AND BUILT OVER 200
FIELDS + 200 TRACKS
- REGISTERED CIVIL ENGINEER,
LEED-AP, AND CFB
USING CRUMB RUBBER SINCE 1982
- READ CRUMB RUBBER TESTS AND
REPORTS SINCE 2000



HOW & WHY

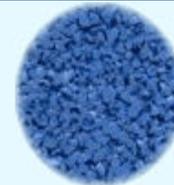
- RECYCLED COST IS 20-50% OF SYNTHETIC RUBBER



Beige



Black



Blue



Brown



Eggshell



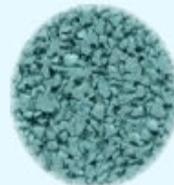
Green



Grey



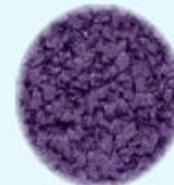
Lemon Yellow



Turquoise



Orange



Purple



Red

HOW & WHY

- 2,000 LB “SUPER SACKS”

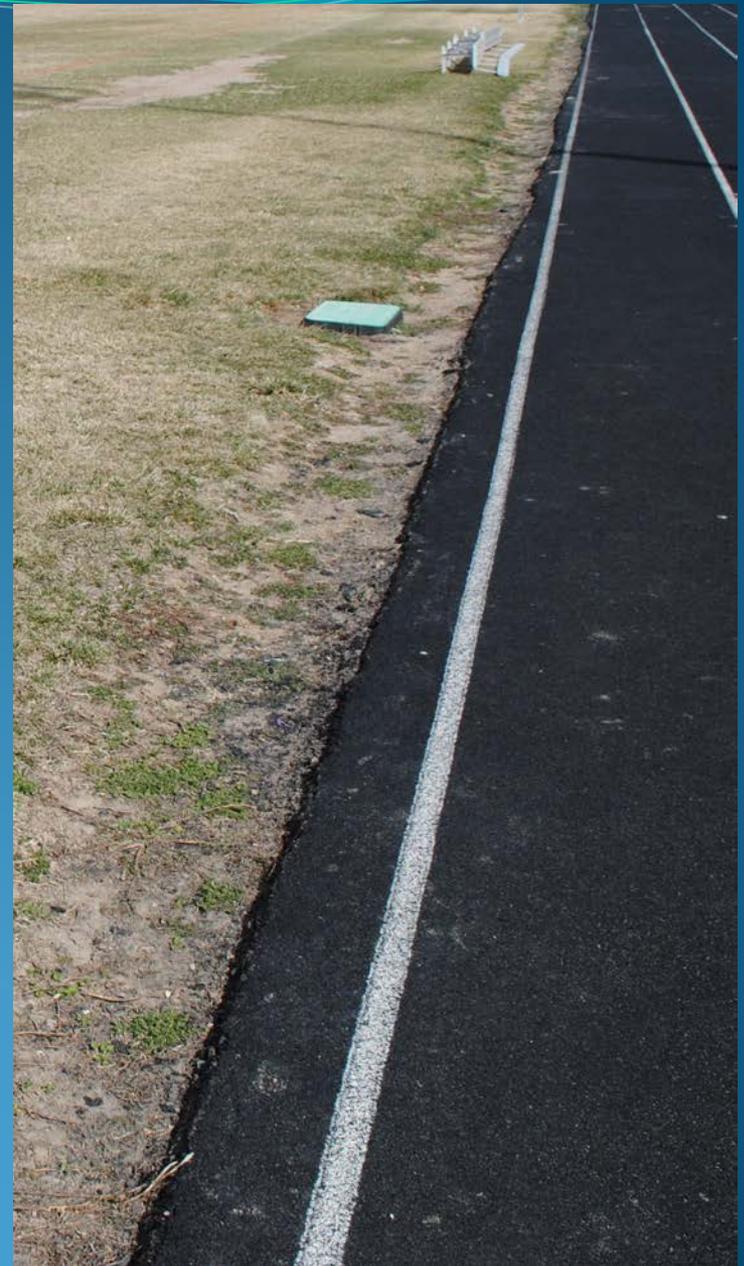


HOW & WHY



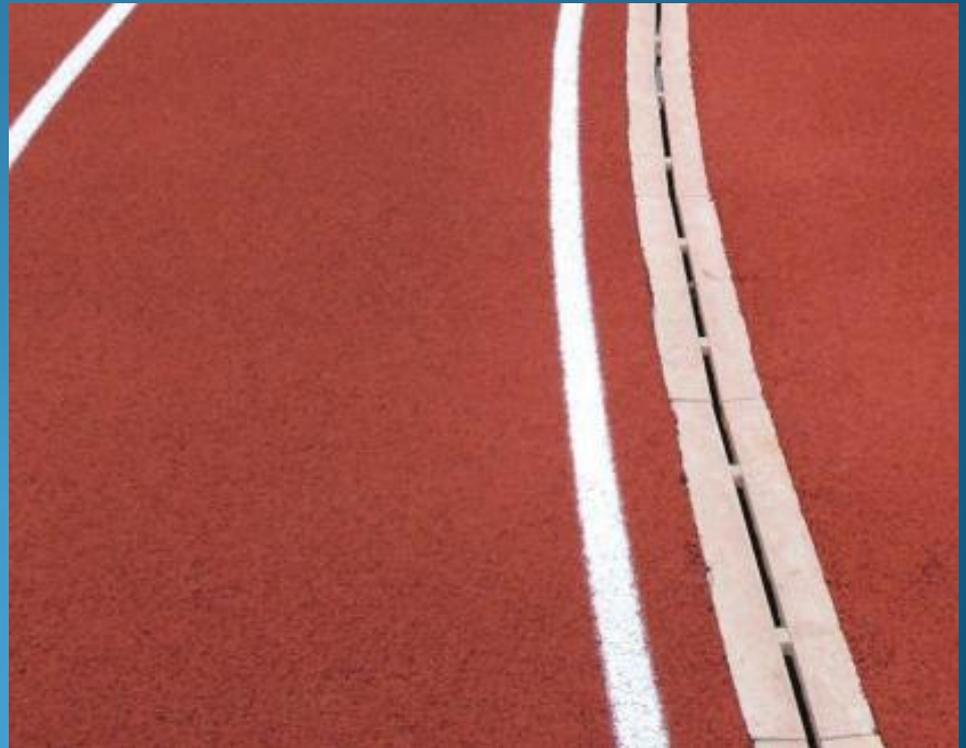
HOW & WHY

- FIELDS = 3-5 LBS/SF
- RUNNING TRACKS = 1.5-2 LBS/SF



BENEFITS OF USING RECYCLED TIRE RUBBER

- MANY “RED” TRACKS ARE ONLY “RED” ON TOP & AND HAVE BLACK UNDER



BENEFITS

- COST LESS THAN MOST OTHER INFILLS & OTHER ITEMS USING RAW MATERIALS



BENEFITS

SOFTER
LANDINGS
FOR
FIELD
SPORTS



BENEFITS

LESS OF THIS



BENEFITS

REDUCED
POSSIBILITY
OF THIS



BENEFITS

LESS
OF
THIS



BENEFITS

LESS OF THIS



USES & NEW USES

SYNTHETIC
FIELD
INFILL



USES & NEW USES



TRACK
SURFACING

USES & NEW USES



Bendable Recycled Rubber
EarthCurb Landscape Borders



LANDSCAPE
MULCH &
CURBS

USES & NEW USES

RR TIES



USES & NEW USES

ANTI-FATIGUE MATS



USES & NEW USES

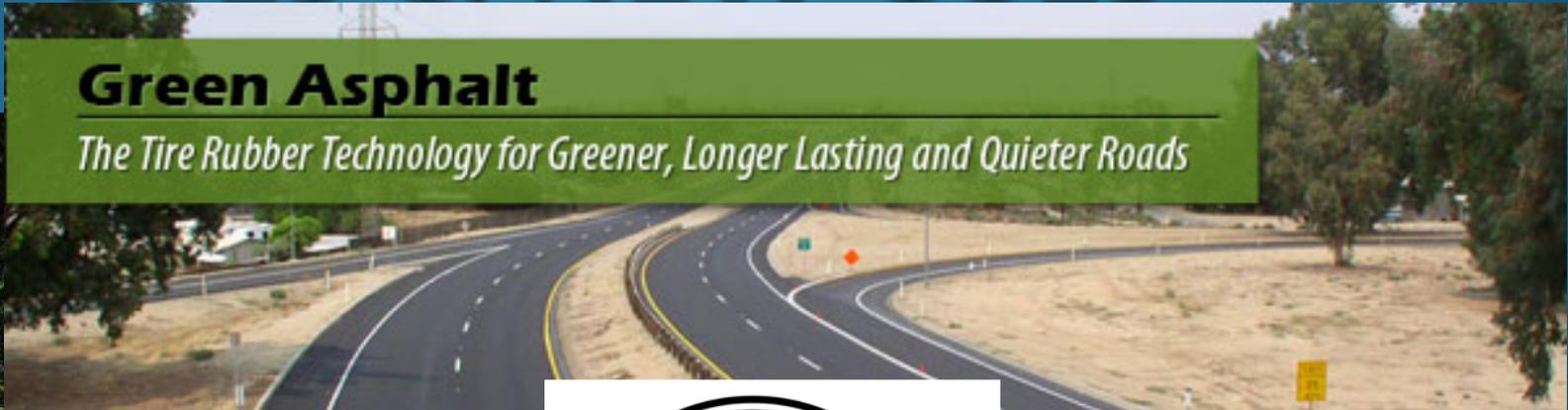
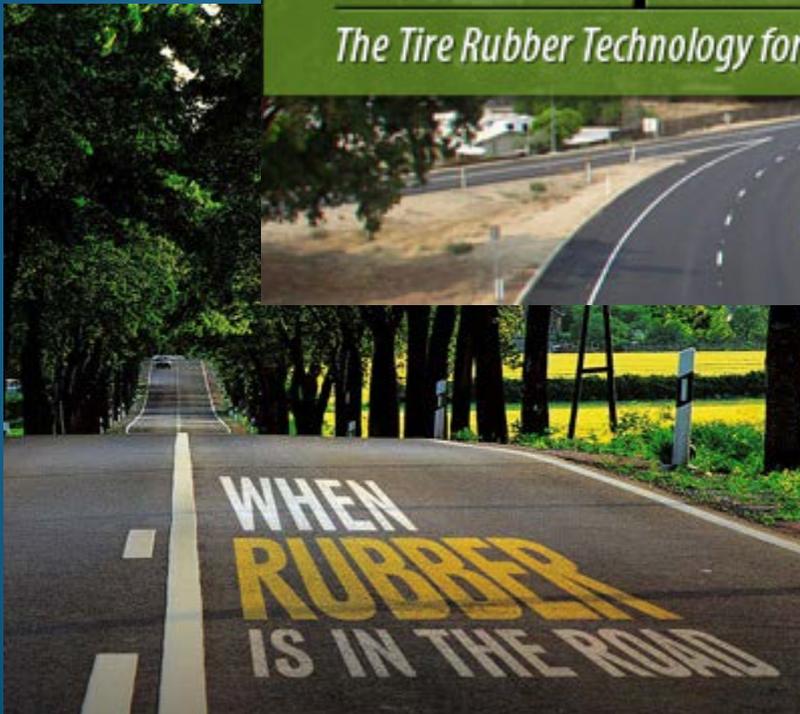


SPEED BUMPS/WHEEL STOPS

USES & NEW USES

Green Asphalt

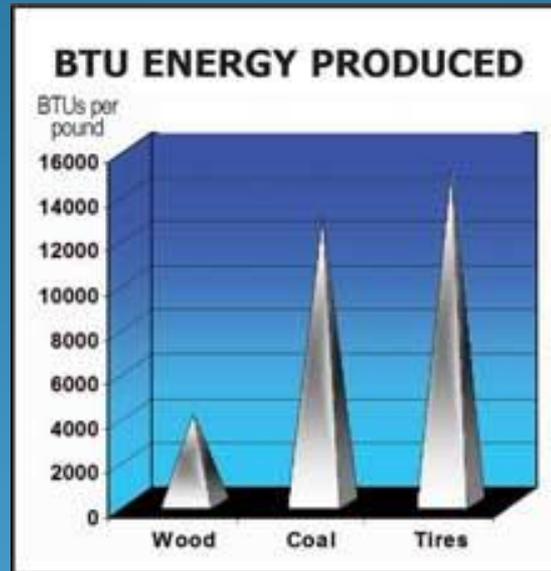
The Tire Rubber Technology for Greener, Longer Lasting and Quieter Roads



RUBBERIZED
ASPHALT

USES & NEW USES

- TIRE DERIVED FUEL
- LOWER SULFUR
- LOWER NITROGEN
- LOWER ASH



USES & NEW USES



AGGREGATES/FILL



USES & NEW USES

SOIL ADDITIVES



USES & NEW USES



SAFETY SURFACE

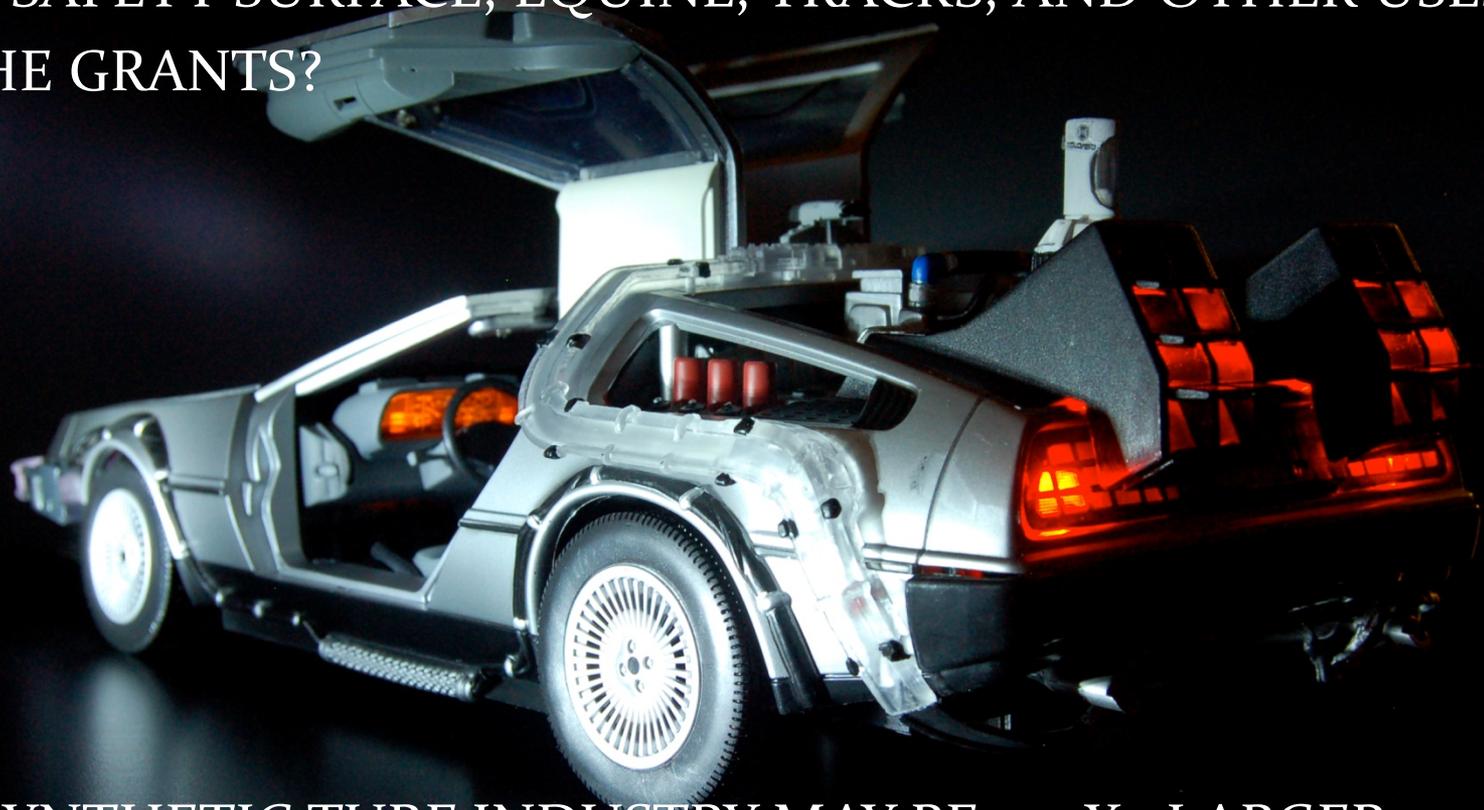
USES & NEW USES

EQUINE
FACILITIES



THE FUTURE?

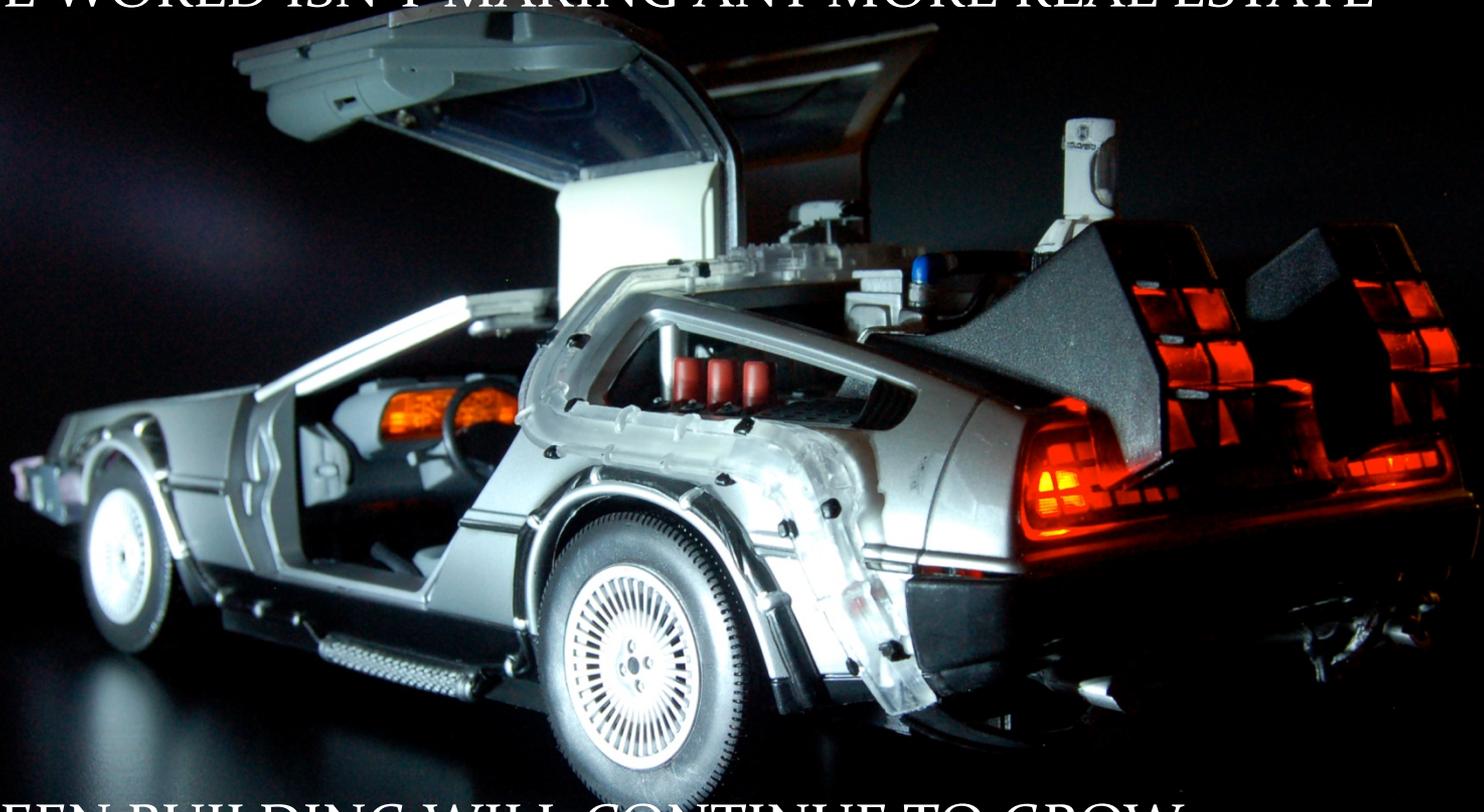
- ACADEMY SPORTS TURF 180 SEMI'S/YEAR AVE or 495,000 TIRES
- COLORADO INSTALLS 50-70% OF THOSE EACH YEAR
- PLUS SAFETY SURFACE, EQUINE, TRACKS, AND OTHER USES
- CDPHE GRANTS?



- U.S. SYNTHETIC TURF INDUSTRY MAY BE 50X LARGER
- LIBERTY TIRE RECYCLES 140 MILLION TIRES/YEAR (STEEL TOO)

THE FUTURE?

- THE WORLD WILL CONTINUE TO GENERATE WASTE TIRES
- TIRE RECYCLING CAPABILITIES WILL CONTINUE TO EXPAND
- THE WORLD ISN'T MAKING ANY MORE REAL ESTATE



- GREEN BUILDING WILL CONTINUE TO GROW
- PROCESSING AND TRANSPORTATION COST WILL COST LESS

QUESTIONS?

