

WHEN IT COMES TO SUSTAINABILITY

# DRIVABILITY MATTERS

## ASPHALT DELIVERS DRIVABILITY



SMOOTHNESS



NOISE



SAFETY



SUSTAINABILITY

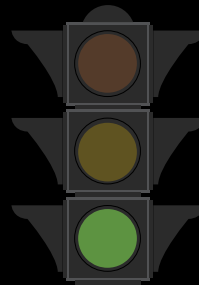
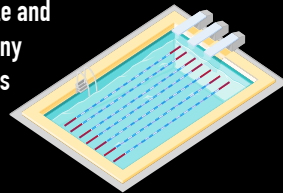


CONSTRUCTION

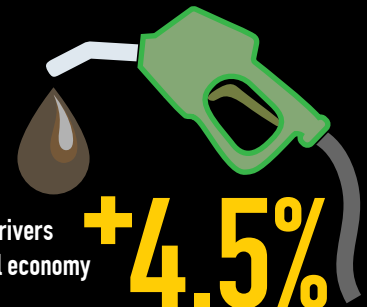
What is drivability? It's what makes a road the one you want to take. Whether you're building roads or using them, **SUSTAINABILITY** is critical. Completely reusable, asphalt is not only environmentally conscious, it's socially and economically responsible too. Asphalt's smooth surfaces reduce roadway noise and pollution, which is good for neighborhoods, and increase vehicle fuel economy, which is good for your wallet. Its recyclability reduces pavement material costs, and easy maintenance means fewer traffic jams caused by construction. Asphalt represents all three pillars of sustainability: environmental, social and economic. That matters.

# 13,500

Asphalt pavements are 100% reusable and are recycled at a greater rate than any other material in the U.S.<sup>1</sup> That means **13,500 Olympic-size pools** worth of landfill space are saved each year.<sup>2</sup>



Asphalt is easy to maintain and repair with **minimal disruption** for drivers.



# 3.2M

Nearly **3.2 million tons** of waste and by-products from other industries were recycled in asphalt mixtures in 2014.<sup>1</sup>



Smooth asphalt roads provide drivers up to a **4.5% improvement** in fuel economy compared to other pavements.<sup>4</sup>

# +4.5%

Quiet asphalt mixtures help **reduce highway noise by as much as seven decibels<sup>3</sup>**; a three decibel reduction is equivalent to doubling the distance from a sound's source.



# \$2.8B

In 2014, reused asphalt materials, saved taxpayers more than **\$2.8 billion**.<sup>1</sup>



By 2020, the USDOT estimates the use of Warm-Mix Asphalt will save more than **\$3.5 billion** by reducing the amount of energy needed to produce asphalt mixes.<sup>5</sup>

# \$3.5B



The Asphalt Pavement Alliance is a partnership of the Asphalt Institute, National Asphalt Pavement Association, and the State Asphalt Pavement Associations.

1. Hansen, K.R., & A. Copeland (2015). Annual Asphalt Pavement Industry Survey on Recycled Materials and Warm-Mix Asphalt Usage: 2014. Information Series 128, 5th Edition. National Asphalt Pavement Association, Lanham, Maryland.  
2. Newcomb, D.E., J.A. Epps, & F. Zhou (2016). Use of RAP & RAS in High Binder Replacement Asphalt Mixtures: A Synthesis. Special Report 213. National Asphalt Pavement Association, Lanham, Maryland.  
3. PIARC (2013). Quiet Pavement Technologies. Report 2013R10EN (F.G. Practicó & M. Swanlund, eds.). World Road Association (PIARC), La Défense, France.  
4. Sime, M., S.C. Ashmore, & S. Alavi (2000). TechBrief: WesTrack Track Roughness, Fuel Consumption, and Maintenance Costs. Report FHWA-RD-00-052. Federal Highway Administration, McLean, Virginia.  
5. Fox, A.R. (2013). Working to Improve Transportation Efficiency, Performance. Fast Lane: The Official Blog of the U.S. Department of Transportation, U.S. Department of Transportation, Washington, D.C.