The Pavement Connection?

Roadway construction accounts for 10 percent of traffic jams. Pavement type could be a factor causing traffic jams and other delays.

Congestion Costs...

- The average driver in metropolitan traffic spends 61 hours per year stuck in traffic.
- Traffic congestion is costing the American public about $65 billion per year.

The Pavement Connection

One significant source of congestion is roadway construction, which accounts for 10% of all road-user delays. Road construction is necessary to keep up with the increasing demands of road-users, but there are ways to reduce delays by simply reducing the time of construction.

Reconstruction Time

Placing (constructing) a concrete pavement takes only about 1/3 the time it takes to place a comparable flexible (asphalt) pavement. The reason? A flexible pavement must be placed in multiple layers and repeatedly compacted, while concrete pavements can be placed in one layer. Fresh concrete is typically transported to work zones in concrete trucks. The concrete is then fed directly to a slipform paver, which places a continuous pavement at the specified thickness.
Concrete is faster

A recent study measured the placement of asphalt and concrete pavements at seven different locations, all with similar designs.

The results of this study (Figure 1) show a 319% faster rate for concrete. The average placement rate was 7,876 sq. yd. for concrete pavement and only 2,467 sq. yds. for asphalt.

![Bar chart showing concrete and asphalt placement rates](image)

*Figure 1 – Concrete placement was 319% faster than asphalt.*

References