Do you believe that 100% of the binder in Recycled Asphalt Shingles (RAS) becomes available to the total binder component of an asphalt mixture incorporating RAS? If not, you believe in “Partial Contribution”.

State of the Industry
- AASHTO Standard Practice for RAS
- Construction Materials Recycling Association guide “From Roof to Road”
- Many US DOTs allow 3% to 7% RAS
- Canadian Agencies range from “up to 5%” to “not permitted”

The Challenge?
How do we get...
from this...
to this?

City of Calgary Experience
- Manufacturer’s Waste since 2007
- Post-Consumer first considered in 2012
- Performance-related testing
  Increasing Knowledge

So How Does an Agency Make Sure...
- Do We Know What the Mixture Properties Are?
  For partial RAS binder contribution the VMA and Film Thickness are lower. Durability???
- Do We Know What the Binder Rheology Is?
  Do we need to change the way we evaluate binder characteristics? Can we sacrifice high temperature performance based on a 100% contribution theory? Rutting???
- Can We Effectively Manage the Quality of RAS?
  The Agency has no “control” over RAS quality because there is not contractual agreement with Suppliers? Quality Management???

Require Best Practices from the Industry!