In an age where budgets are shrinking, demands are increasing, good materials are growing scarce and sustainability is growing in importance, there is a need to move away from traditional recipe based concrete mixtures.

This paper will present the current thinking on how concrete mixtures can be tuned to meet the needs of the pavement and the environment it is exposed to, using locally available materials, while minimizing cost and environmental impact.

The discussion will include how specifications need to be reconsidered, test methods developed and processes modified. A major part of the discussion will be a review of an innovative approach to mix proportioning that is being developed.