

### 6.3.1

## The Evolution of Hawaii DOT's Linear Referencing System

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Hawaii DOT has utilized some variation of a linear referencing system for many years. During that period there have been incremental changes to the usage and structure of their LRS. With the intent of keeping their LRS current, Hawaii DOT performed several detailed analysis sessions of their current Linear Referencing System (TLRM). These sessions resulted in HDOT's decision to move to a new Multi level Linear Referencing System (MLRS). The decision not only allowed Hawaii to make use of the many benefits of an MLRS system, but also to build a foundation for standardized maintenance activities and lower their cost for LRS related customization.

This session will cover the various aspects involved in the creation and management of Hawaii DOT's MLRS. Additionally, we will discuss the usage of lane modeling to more accurately reflect the way the data is collected. This future initiative will move HDOT's LRS in yet another new direction.