



# PMS Performance Models

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# **dTIMS**

The industry leading Commercial Off-the-Shelf (COTS) Asset Management Solution

Manages the roadway asset lifecycle at all levels:

- **Strategic Asset Management**
- **Tactical Asset Management**
- **Operational Asset Management**



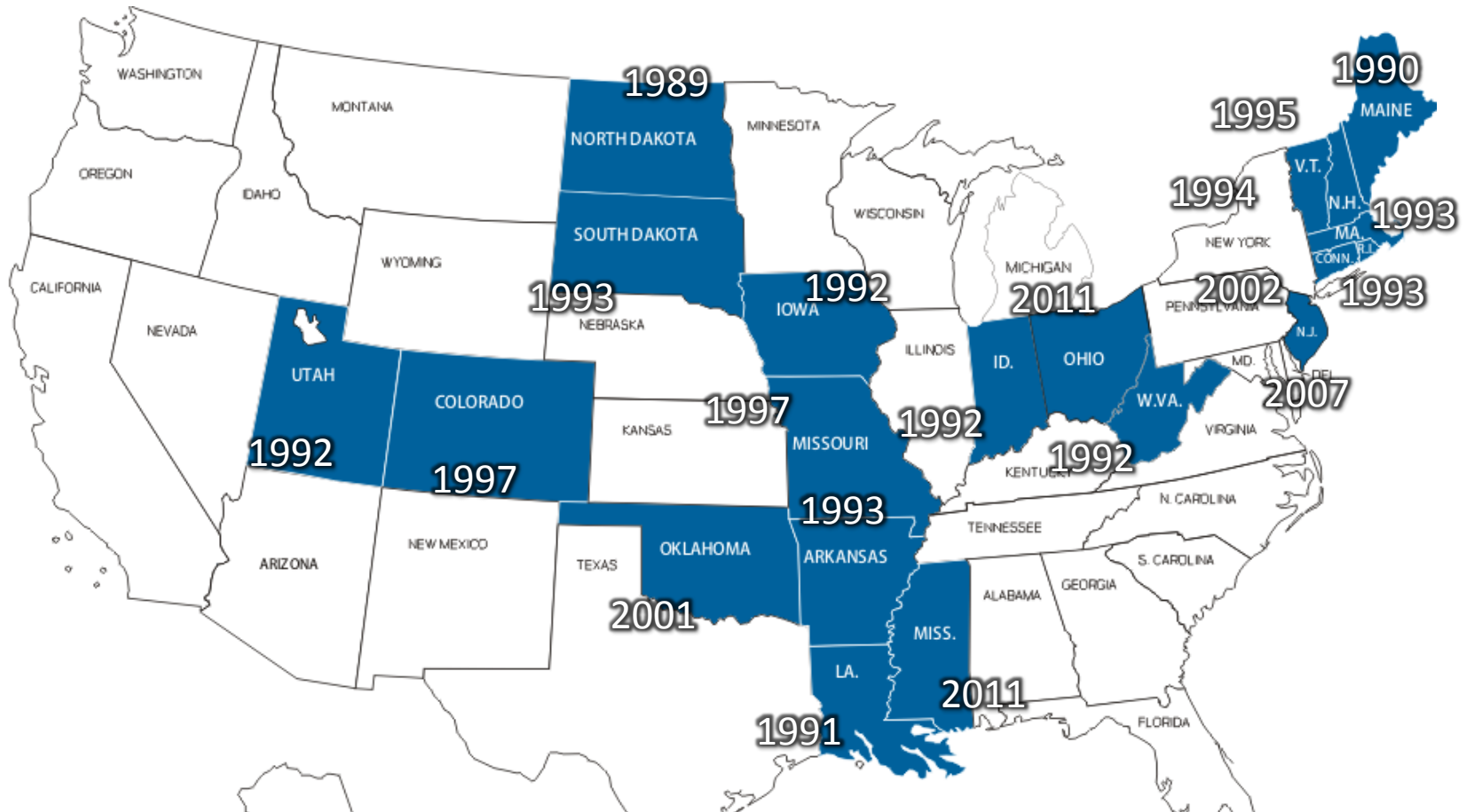


# Deighton's World Market Share





# Deighton's US Market Share



40% of the US State DOTs use dTIMS



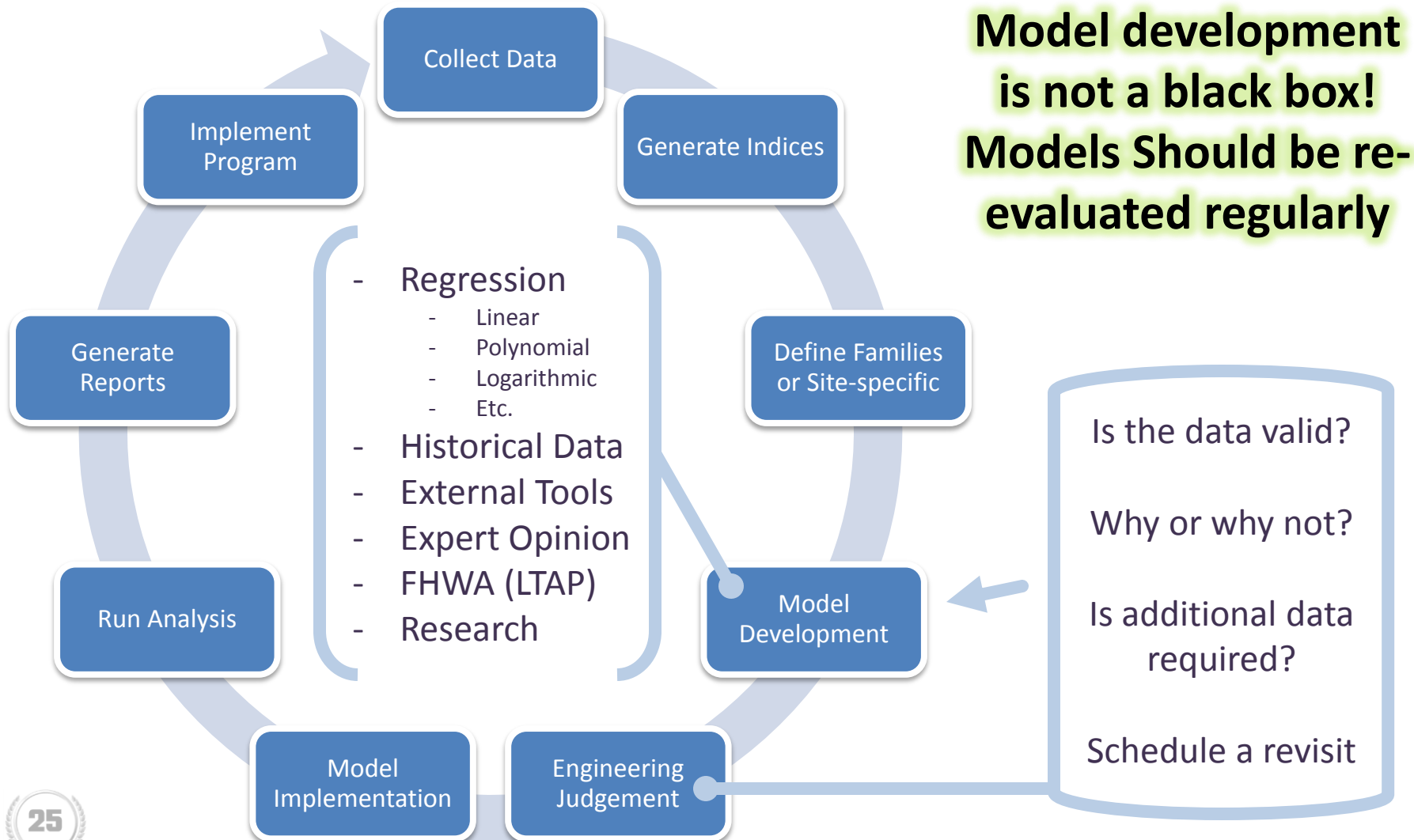
Performance Models

# PAVEMENT PRESERVATION





# Performance Modeling Life Cycle





# Current State of the States

	NH	VT	MA	RI	NJ	CO	LA	OH	Bridge
<b>Deterministic</b> or <b>Probabilistic</b> Models Logarithmic, polynomial, sigmoid or Markov	D	D	D	D	D	D	D	P	P
<b>Families</b> or <b>Site Specific</b> Models Pvt.type, region, func. class, traffic, etc.	F	F	F	F	F	F/S	F/S	F/S	F
<b>Statistical Analysis</b> or <b>Expert Opinion</b> Regression or Academia, Local knowledge	S/E	S/E	E	S/E	E	S/E	S/E	S	S
<b>Model Refinement Frequency</b> <i>Every few years</i> or <i>Continuous</i>	E	E	E	C	C	E	E	C	C
<b># of Indices Used in Analysis</b>	4	4	6	10	5	7	7	4	3 to 5
<b># of Rehabilitation Treatments</b>	4*	5	6	5	3	13	7	7	2 to 4
<b># of Preservation Treatments</b>	3*	-	9	2	7	5	3	4	1 or 2

\* *Treatment families*

**Rehabilitation Treatments include:**

Thick overlay, Functional overlay, Pulverize, Rubbilize, Stabilization, Crack and Seat, Break and Set, Full depth reconstruction, New Pavement

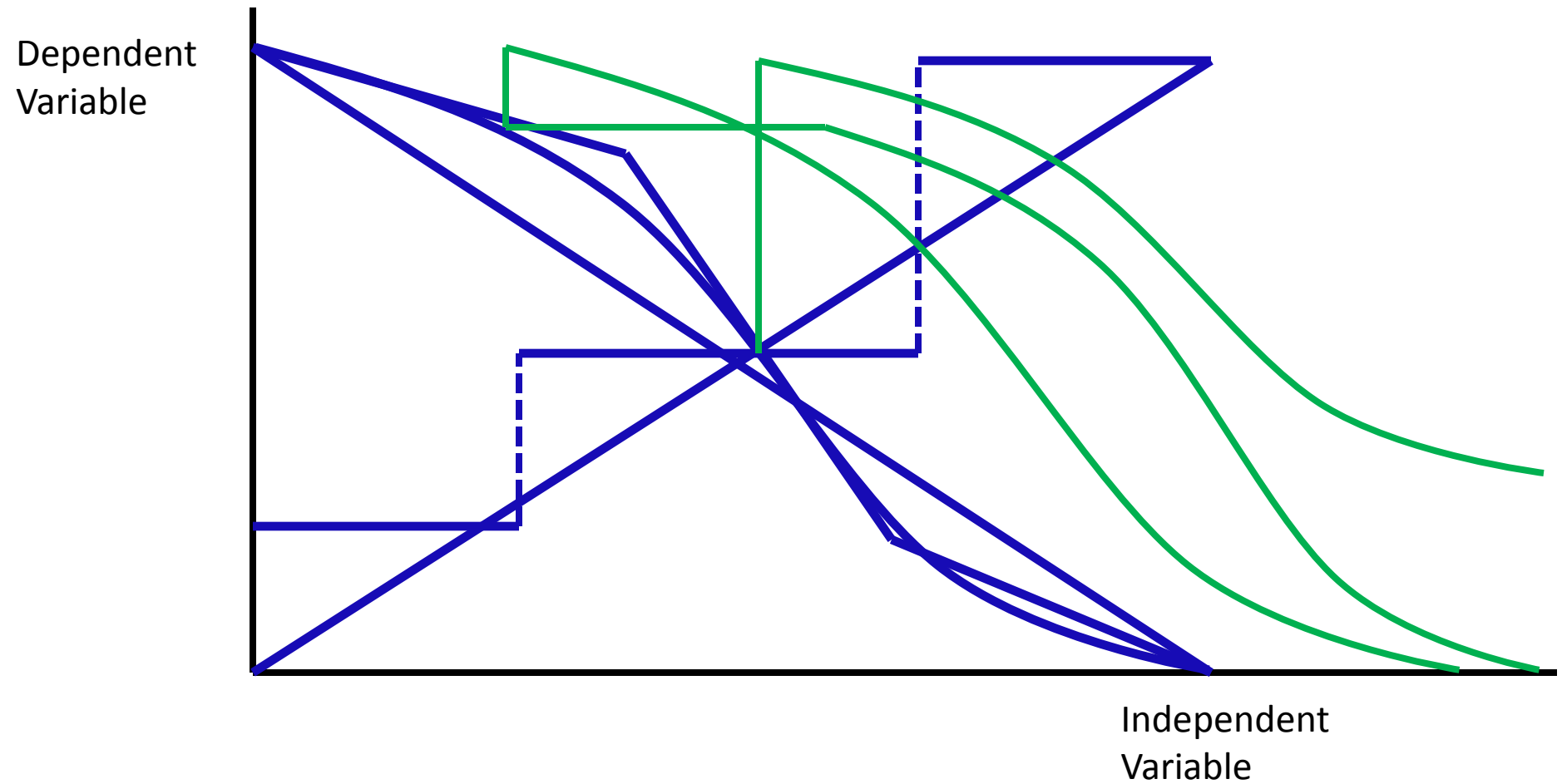
**Preservation Treatments include:**

Crack seal, Chip seal, Micro-surfacing, Thin overlay, Leveling, Diamond grinding, Micro-milling





# Performance, Impacts and Resets







## Questions? Comments?

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# Performance, Impacts and Resets

