Concrete Pavement Preservation at WSDOT

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WSDOT Concrete Network (13% of Total State Maintained)

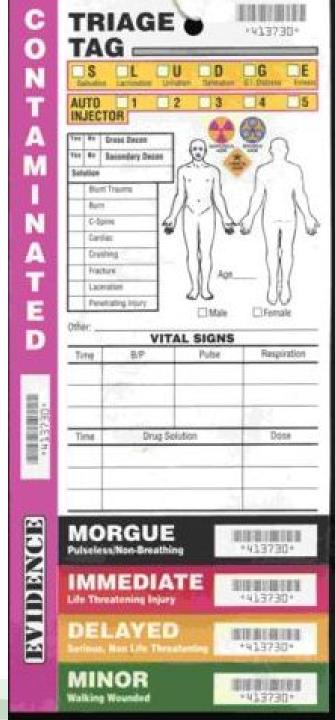
- Concrete pavements are in high-traffic locations
- 36 % of concrete pavements have had preservation:
 DBR (17%)
 - Grinding (11%)
 - Panel Replacement (8%)
- 64 % of concrete pavements untouched since construction
- 50% of concrete network is over 40 years old



"Triage" Approach for Concrete Pavement

- Past resuscitation
 Reconstruction
- Immediate (Life Threatening)
- Delayed
 - Serious, but non-life threatening
- Minor
 - "Walking Wounded"





"Triage" Approach for Concrete Pavement

 Selective panel replacement for structural failure





"Triage" Approach for Concrete Pavement (cont.)

- <u>Dowel Bar</u>
 <u>Retrofit</u>
 - Do early enough to slow rate of deterioration
 - Includes grinding





"Triage" Approach for Concrete Pavement (cont.)

- Diamond Grinding
 - Evaluated when ruts (from studded tire wear) exceed ^{1/2}"





"Triage" Approach for Concrete Pavement (cont.)

 Sealing & Patching



For example: Ure-Fast polymer concrete <u>www.liquidconcrete.com</u>











Washington State Department of Transportation







• Patch placed in 2005



