

- > Introduction
- > Research focus areas
- > Field testing
- > Laboratory testing
- > Research implementation



### Introduction

- > FDR-FA introduced to California in 2000
- > Pilot study in 2001
- > International research focus
- > USA research focus
- > California research focus
  - + Thick AC "evolved roads"
  - + Closure limitations
  - + Mix & structural design
  - + Construction factors



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Field Testing: APT			
	FDR-NS	FDR-NS	FDR-NS
	FDR-NS	FDR-EE	
	FDR-PC (6% + mc)	FDR-FA-C	
	FDR-PC (6%)	FDR-PC (5%)	FDR-PC (4%)
	50% RAP (R)	50% RAP	15% RAP
	25% RAP	25% RAP	50% RAP (WMA)
	25% RAP	25% RAP	25% RAP (WMA)
	25% RAP	25% RAP	25% RAP
CEA NCPRC			





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### Guidelines

### > Strategy selection

- + Each project should be designed
- + FWD, Cores, DCP, possibly GPR
- + Material sampling

### > Mix design

- + Two phase
- + Active filler mandatory on FDR-FA
- + Fines content
  - 5–12% recommended (excl. active filler)
  - >15%: monitor soaked strengths closely
- + ITS test, monitor fracture face

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