Condition Dependent DDBD Design of concrete mix, cover, w/c, Set Performance Level and geometrical properties. Using Life 365, FIB34 or AASHTO R19A No Does mix allow for corrosion to occur during life of structure Corrosion parameters Obtain Time to Corrosion No CL<10% Yes Update corroded effective properties Design of structure Apply DDBD Gravity loads check Yes Create and execute No Performace level < LS End Design and quality control and φRn>Ru maintenance plans