Main thread Set up capture configuration Create WB thread 1 WB thread 2 Comp thread 1 Take picture Take picture Take picture SIGNAL("captured", input, "WB 1") SIGNAL("captured", input, "WB 2") SIGNAL("captured", input, "Comp 1") Process image Process image Process image (no change) SIGNAL("processed", output, "WB 1") SIGNAL("processed", output, "Comp 1") Take picture Take picture Take picture SIGNAL("captured", input, "WB 1") SIGNAL("captured", input, "WB 2") SIGNAL("captured", input, "Comp 1") Process image Process image Process image (no change) SIGNAL("processed", output, "WB 1") SIGNAL("processed", output, "WB 2") SIGNAL("stopProcessing") Free resources Free resources Free resources Wait (i.e. camera) (i.e. camera) (i.e. camera) Terminate Terminate Terminate