### **Behind the Scenes**



- or -

### Where does the



# If Las Vegas sounds too tame for you,



software might be just the right gamble.

- Steve McConnell

Loss of personnel. Quality problems. Optimistic scheduling. Software project risk management takes more time than expected. Feature creep. Inadequate design. Silver-bullet syndrome. Shifting requirements. Project is larger than estimated. Schedule omits necessary tasks. Strict requirements for compatibility with existing system require more testing move with no adjustment in project than expected. Te ic/ entroce are not in place on time. Budget scope or resource ists on new requirements. Thirdcuts upset project amiliar hardware environment party takes longer C requires more training Notification on an unproven technology. Customer communication time is slower than expected. Operation in an unproven environment causes unforeseen problems. Product depends on government regulations or standards, which change unexpectedly. Not enough personnel for the project. Amount of paperwork slows progress more than expected. Tool little formality. Too much formality.



#### Waterfall Lifecycle Model

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I = I + 1IF(I.LE.LX) GO TO 9000 IF(J.EQ.12) GO TO 9001 J = J + 1CALL SUB(J) GOTO 80





Waterfall-with-Projects Lifecycle Model

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Flood control rules function

R

S

 $\bigcirc$ 

Regulation discharge method

Surcharge releases dispatched





What saves a man is a step. Then another step.

- Antoine de St. Exupery



![](_page_12_Figure_0.jpeg)

#### **Proposed Design**

#### Ease of testing

![](_page_13_Picture_2.jpeg)

Ease of developing unit tests

#### RiverWare

## Functionality not in RiverWare

Operating Level Balancing Flood Control Method

![](_page_15_Figure_0.jpeg)

![](_page_16_Figure_0.jpeg)

#### RiverWare

## Functionality not in RiverWare

Operating Level Balancing Flood Control Method If you're not confused by all this, it just shows you're not thinking clearly.

-Anon