

## § 2.2.2 "ADMIN" TASKS (AKA "UMBRELLA")

⇒ NOT "VALUE-ADDED"  
 NOT DIRECTLY  
 RESULTS IN  
 WORKING DELIVERED  
P&M

VA: ↘

1. REQTS SPEC
2. ARCH/MODEL/ANALYSIS (OOA)
3. DETAILED DESIGN  
+ CODING
4. BUG FIXING (NOT TEST)
5. INTEGRATION  
PACKAGE, SHIP

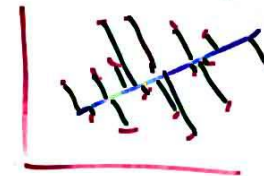
NOT V.A.:

- RISK MGMT
- PROJECT TRACKING
- TECH REVIEWS  
(CODE, DESIGN, ...)

- QA = "QUALITY  
ASSURANCE"

- AUDIT FOR  
GOOD PRACTICES  
(POLICY, PROCEDURE)
- TESTERS (NEWER)

- MEASUREMENTS  
(AKA "METRICS")  
 (★) FOR PREDICTION.  
 (AKA ESTIM)



EX: LOC ==  
"LINES OF CODE".

↓  
SLOC

"SOURCE" LOC

EX: "FUNCTION POINTS"

EX: CYCLOMATIC  
COMPLEXITY.

COUNT LOOPS

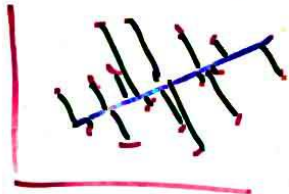
- ★ WORK PM  
MGMT  
EX: CUST  
SATISFAC  
TION

EX: PREL  
DESIGN  
DOC

Ⓢ CH4 SW

KNOBBS == P  
T  
TUNE WRG  
⇒ BA  
J. VON

- MEASUREMENTS (AKA "METRICS")  
★ FOR PREDICTION.  
(AKA ESTIM)



EX: LOC ==  
"LINES OF CODE".  
SLOC  
"SOURCE" LOC  
EX: "FUNCTION POINTS"  
EX: CYCLOMATIC  
COMPLEXITY.  
COUNT LOOPS

- ★ "WORK PRODUCTS"  
MGMT (NON-CODE)  
DOCS.  
EX: CUSE  
STATUS  
MONTHLY

EX: PRELIMINARY  
DESIGN REVIEW  
DOCS.

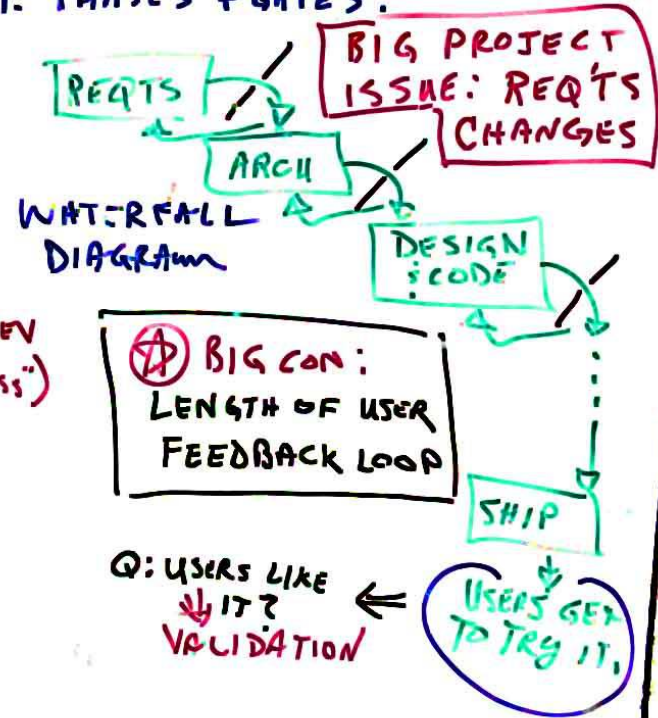
### CH4 SW DEV M.O.'s.

KNOBS == PARAMETER  
TO "TUNE"  
TUNE WRONG  
⇒ BAD ESTIMATE  
J. VON NEUMANN

(AKA DEV  
"PROCESS")

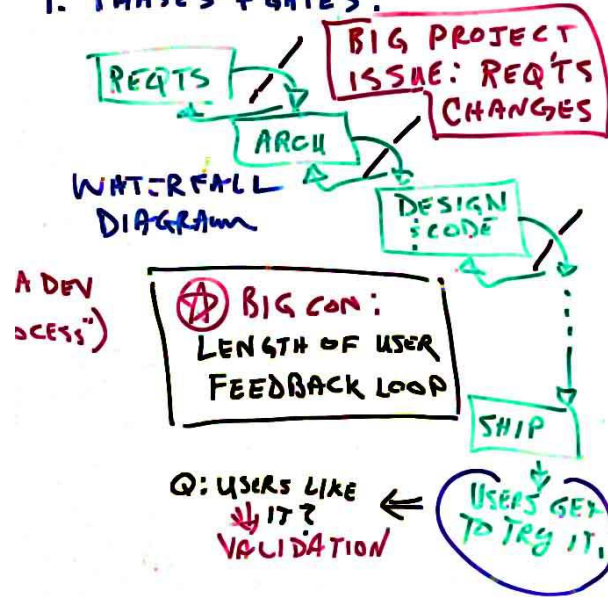
- Ø. ANARCHY = (ABSENCE OF)  
NO VISIBLE  
METHOD.

### 1. PHASES + GATES.

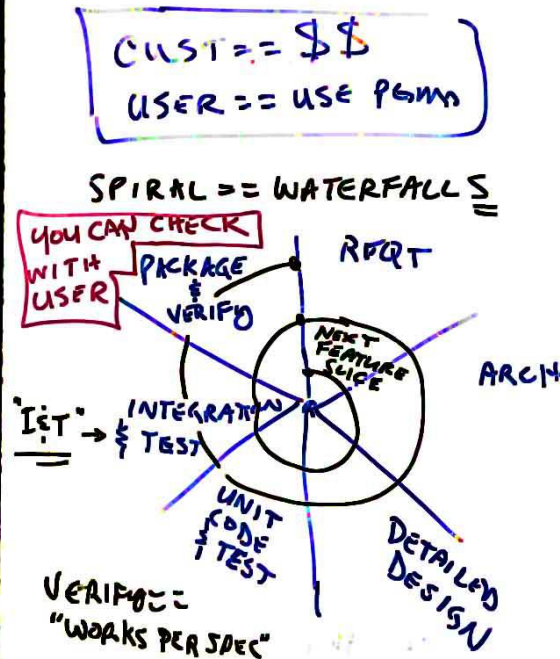


Ø. AN ARCHY = (ABSENCE OF)  
NO VISIBLE  
METHOD.

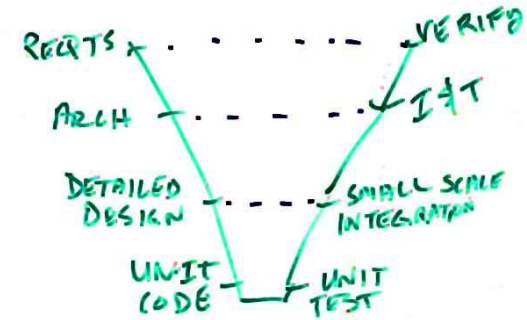
# 1. PHASES + GATES.



## 2. SPIRAL "MODEL" (- BARRY BOEHM)



## 3. V-MODEL (CUTE BUT UBSOLGTE)

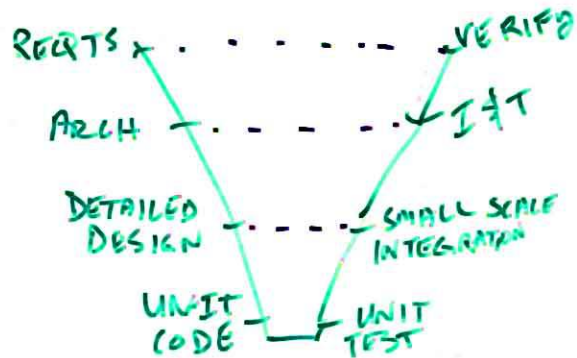


## 4. EVOLUTIONARY

— LIKE SPIRAL,  
BUT TEST EACH  
WORKING FEATURE  
SLICE WITH USERS



### 3. V-MODEL (CUTE BUT OBSOLETE)



### 4. EVOLUTIONARY

- LIKE SPIRAL,
- BUT TEST EACH WORKING FEATURE SLICE WITH USERS

### [5. CONCURRENT

- SPLIT TEAMS AT MULTIPLE GEOGRAPHIC SITES.]

RFP = "REQUEST FOR PROPOSAL"

→ TELL 'EM WHAT WOULD WORK & EXTRA THINGS/FEATURES NEEDED.

RFP = "REQUEST FOR QUOTE"

\$\$ FOR THE PROPOSED TASK

### [6. COMPONENT-BASED

- USE COTS ]

"COMMERCIAL (OR COMMON) OFF-THE-SHELF" S/W.

→ USUALLY:

1. 3<sup>RD</sup> PARTY LIB.  
→ YOU CALL FENS.
2. FRAMEWORKS  
→ YOU INHERIT & ADD METHOD OVERRIDES

### 7. AGIL

200

- 4 mo

Avol

- DE

10

- US

- OV

- GO

- C

- I

- I

### [5. CONCURRENT

- SPLIT TEAMS  
AT MULTIPLE  
GEOGRAPHIC SITES.]

RFP = "REQUEST  
FOR PROPOSAL"

→ TELL'EM WHAT  
WOULD WORK & EXTRA  
THINGS/FEATURES  
NEEDED.

RFPQ = "REQUEST  
FOR QUOTE"

\$\$ FOR THE  
PROPOSED TASK

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OVERRIDES

### 7. AGILE

2001 MANIFESTO (12 PTS/ITEMS)

#### - 4 MOTIVATIONS

AVOID:

- DEATH MARCHES  
168 HRS/WEEK
- USER SURPRISES
- OVERLY-RIGID DESIGN
- GOLD-PLATING
  - WE'RE GONNA NEED IT.
  - FOR LATER REUSE.
  - I THINK THIS IS MAYBE  
REQUIRED.