



EVENTSTORMING RECIPES

@ZIOBRANDO

WHAT'S EVENTSTORMING

Let me show you...



WHAT'S EVENTSTORMING

All the key stakeholders in the same
room

with an unlimited modelling space

using stickies as Domain Events

BUT BASICALLY...

IT'S A PARTY





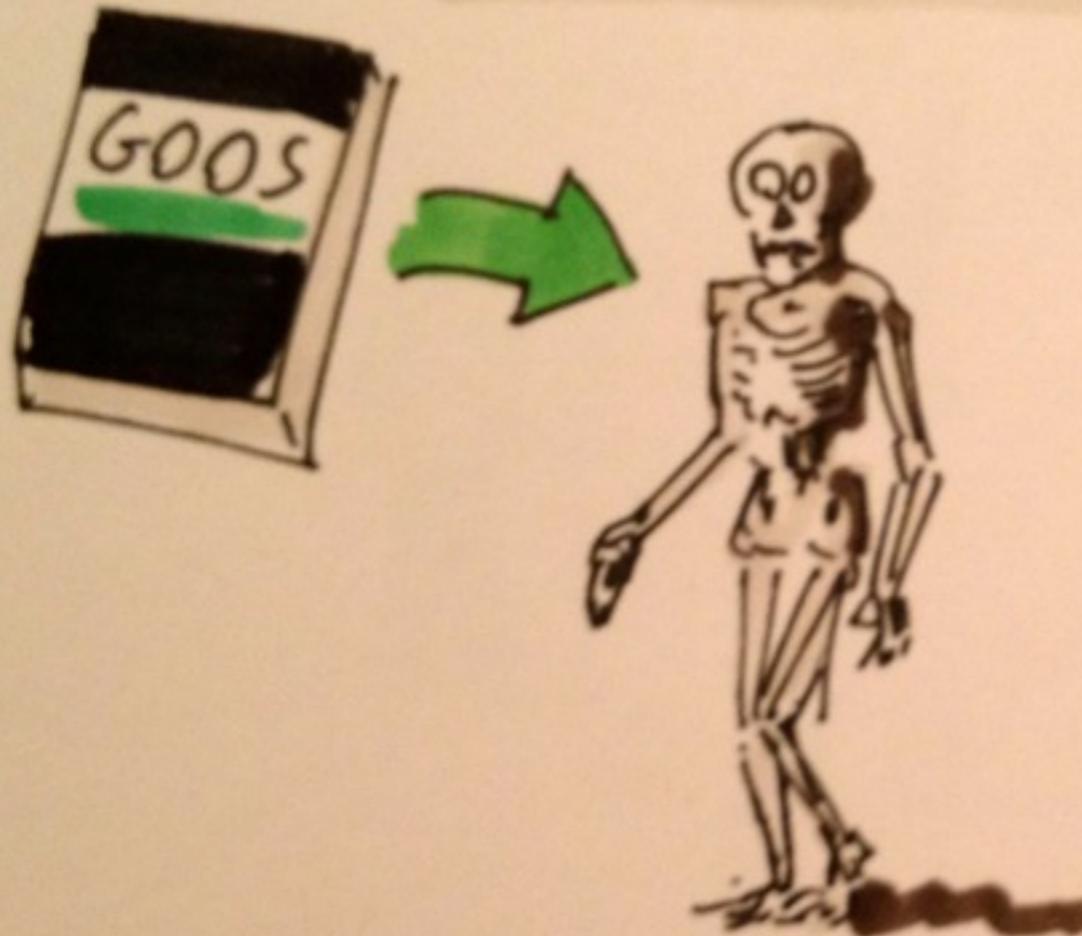
**WHO SHOULD WE
CALL?**

INVITE THE RIGHT PEOPLE

- THOSE WHO BRING THE QUESTIONS
- THOSE WHO KNOW THE ANSWERS"

(1) AND DON'T WORRY IF YOU DON'T GET ALL THE ANSWERS.

WALKING SKELETON REVISITED



IT'S NOT ABOUT
TOUCHING SYSTEMS

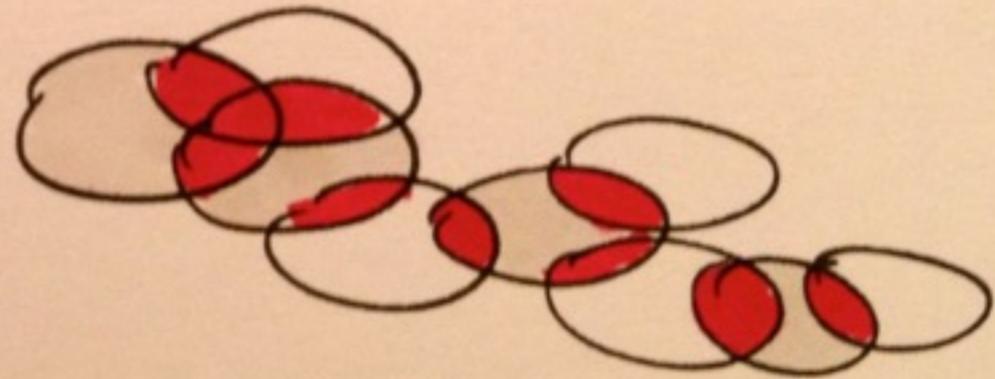
IT'S ABOUT TOUCHING
PEOPLE

AND I WANT TO TOUCH
THEM AS SOON AS POSSIBLE



VALUE IS IN THE
INTERACTION
BETWEEN PEOPLE

MISS ONE AND
YOU'LL MISS
 $(n-1)$ INTERACTIONS



REJECTED INVITATIONS

- SOME KEY PEOPLE WON'T SHOW UP.
- THEIR PROBLEM, NOT YOURS

MAKE THEM
REGRET IT



A photograph of a man from the chest up. He has dark, curly hair and is wearing a shiny, dark, spiky hat. He is dressed in a white dress shirt and a dark tuxedo jacket. He is looking directly at the camera with a neutral expression. The background is slightly blurred.

**YOU MISSED
THE PARTY**

BUT ALSO...



**YOU'RE INVITED
TO THE NEXT
ONE**



HACK THE PLACE

HACK THE PLACE

- THERE'S NO PERFECT ROOM FOR AN EVENT STORING



HACKING THE SPACE
IS UP TO YOU



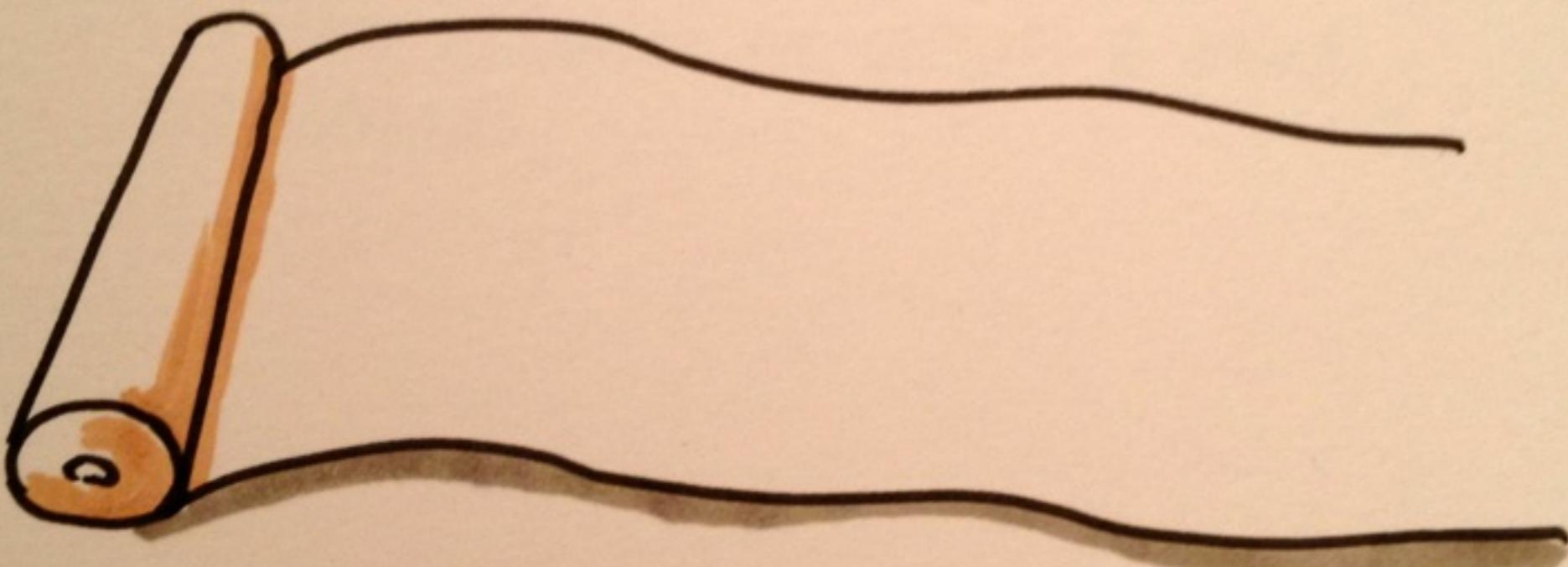
PORTABLE
PAPER ROLL

MOVE THINGS
AROUND

WANNA START
A CLASS
ACTION
AGAINST
ARCHITECTS?

UNLIMITED MODELING SPACE

- CAN'T TELL A PROBLEM SIZE BEFORE EXPLORING



REMOVE TABLES

TABLES CREATE THE WRONG PHYSICAL SPACE

- POSITIONS ARE FIXED, NO EMERGING ALIANCES
- POSTURE IS FAR FROM OPTIMAL
- TOO EASY TO SWITCH ON LAPTOPS & OTHER DISTRACTIONS

... BUT WE STILL NEED A SURFACE TO WRITE ON, SOMETIMES



NO SITTING



SEATS ARE POISONOUS

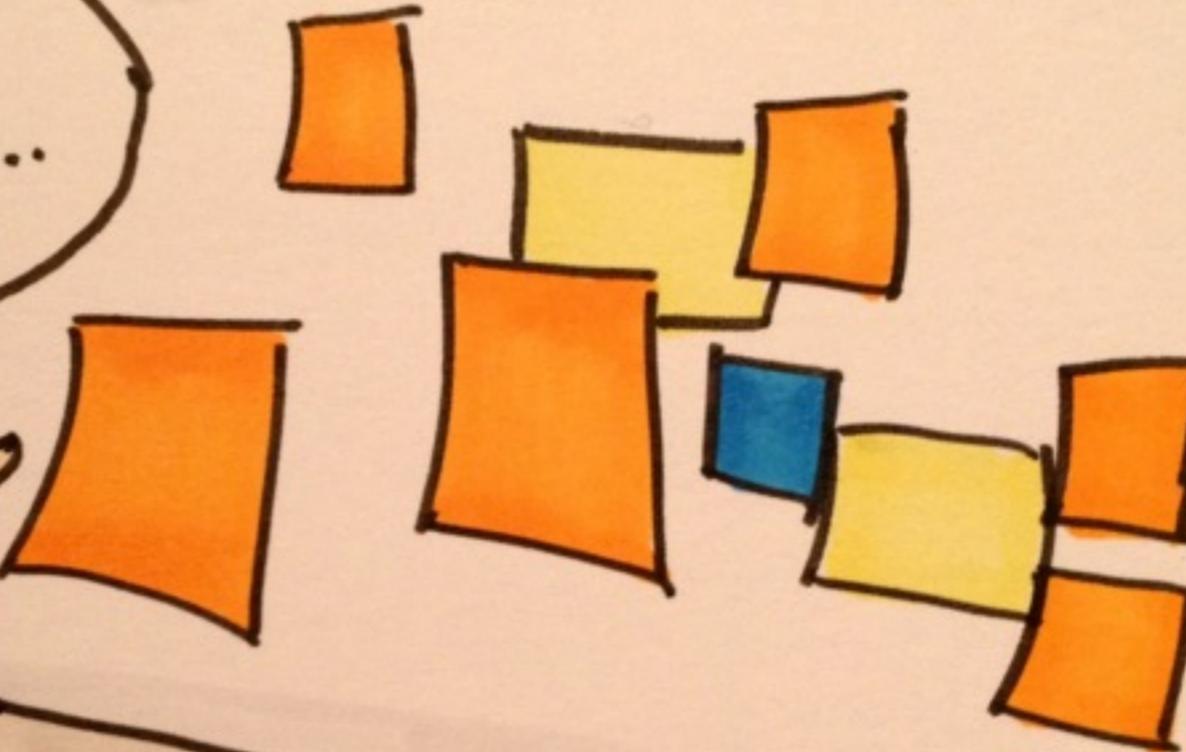
JUST TAKE THEM AWAY!

THERE'S NO BODY LANGUAGE
(WELL, THAT'S NOT TRUE)
THAT YOU CAN OBSERVE



UBIQUITOUS BODY LANGUAGE

IT'S NOT
EXACTLY
LIKE THAT...



A PHYSICAL MODEL
PROVIDES A SAFE SUPPORT
FOR SPOTTING CRITICAL AREAS
IN YOUR BUSINESS PROCESS.

DOMAIN EVENTS

FOCUS ON DOMAIN EVENTS

- SIMPLE SEMANTIC & NOTATION
- EASY TO GRASP BY EVERYBODY IN THE ROOM

ITEM PURCHASED

INVOICE SENT

INVOICE PAID

**ALONG A
TIMELINE**

ENFORCE NARRATIVES

#41

- PEOPLE LIKE TELLING STORIES, NOT JUST FILLING DIAGRAMS OR TEMPLATES.



ENCOURAGE EXPERTS TO TELL
A STORY

LOOK FOR CONCRETE EXAMPLES

LOOK FOR EDGE CASES,
THEY FIT PERFECTLY IN
A NARRATIVE. AND
THEY SHOULD FIT INTO
YOUR MODEL TOO!

AND EVENTUALLY TURN
THEM INTO TESTS

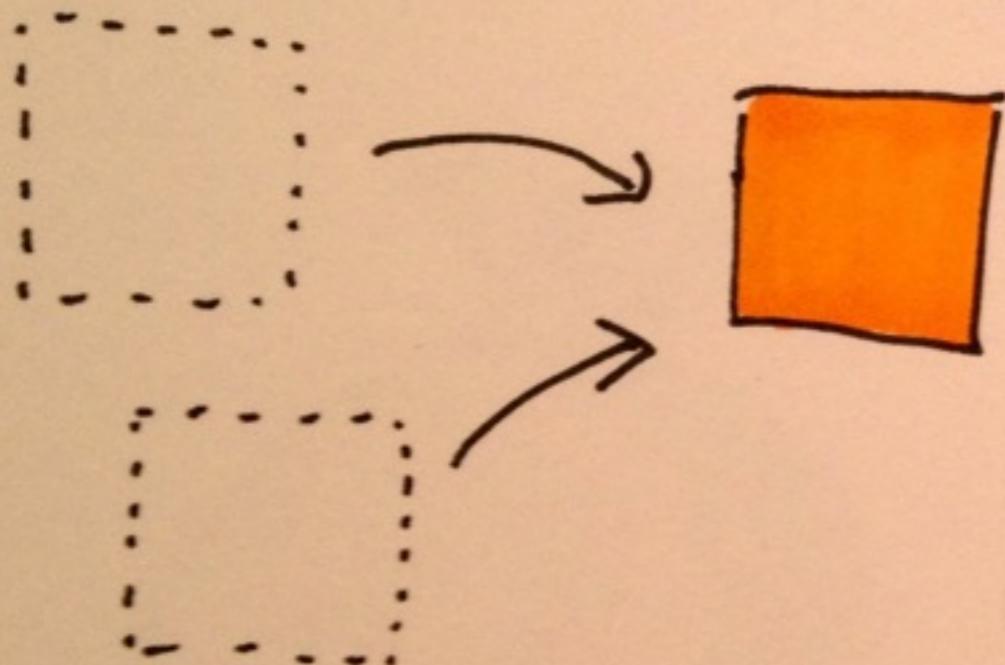
→ #42

SKETCH ACCEPTANCE TESTS

- CRITICAL OR AMBIGUOUS USE CASES MIGHT REQUIRE A PRECISE COMPLETION CRITERIA

GIVEN A REGISTERED CUSTOMER BOB
AND BOB IS A PREMIUM CUSTOMER
WHEN BOB PURCHASES GOODS FOR 100€
THEN BOB IS GIVEN A 20% DISCOUNT

REVERSE NARRATIVE



"WHAT WAS THE PATH
THAT LED US HERE?"

"WHAT NEEDS TO HAPPEN
BEFORE, SO THAT THIS
EVENT CAN HAPPEN
TOO?"

MONEY FOR NOTHING

WHERE IS THE MONEY COMING FROM?



DEVELOPERS ARE GOOD GUYS. THEY CAN IGNORE MONEY...

→ LOOK FOR

PIVOTAL
EVENTS

... BUT WAIT!

**LET THE MAGIC
HAPPEN!**

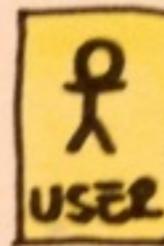
NO UML
NO BPMN
NO ...

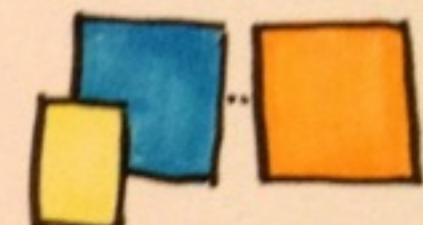
MODEL AFFINITY

**DOMAIN EVENTS
ARE JUST A
SWEET SPOT**

NEXT STEPS

WHAT DOES TRIGGER EVENTS?

- A **COMMAND** FROM A GIVEN 
- OR AN **EXTERNAL SYSTEM**
- OR SIMPLY THE TIME
- OR JUST ANOTHER EVENT



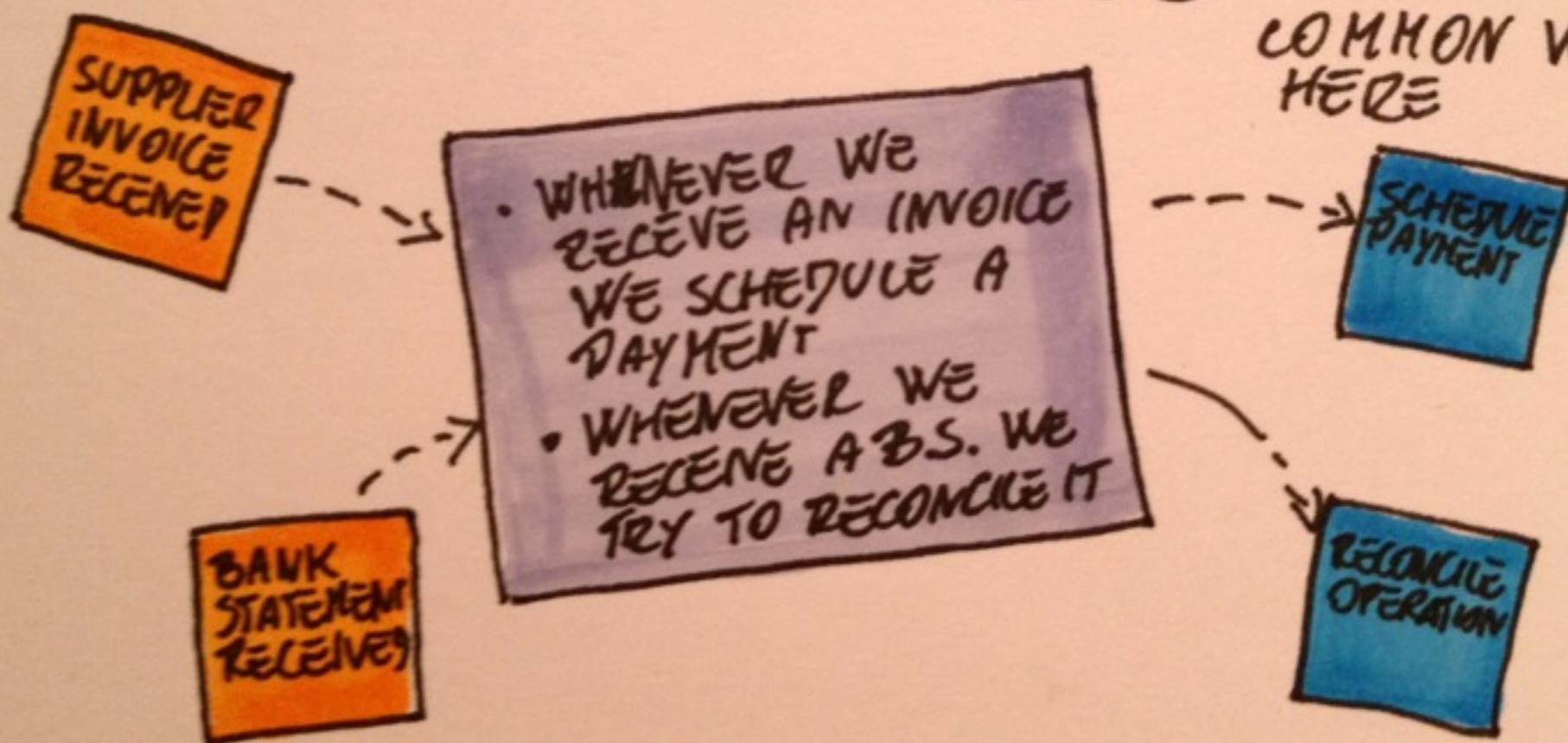
SOMETHING
MAGIC
HAPPENING
HERE

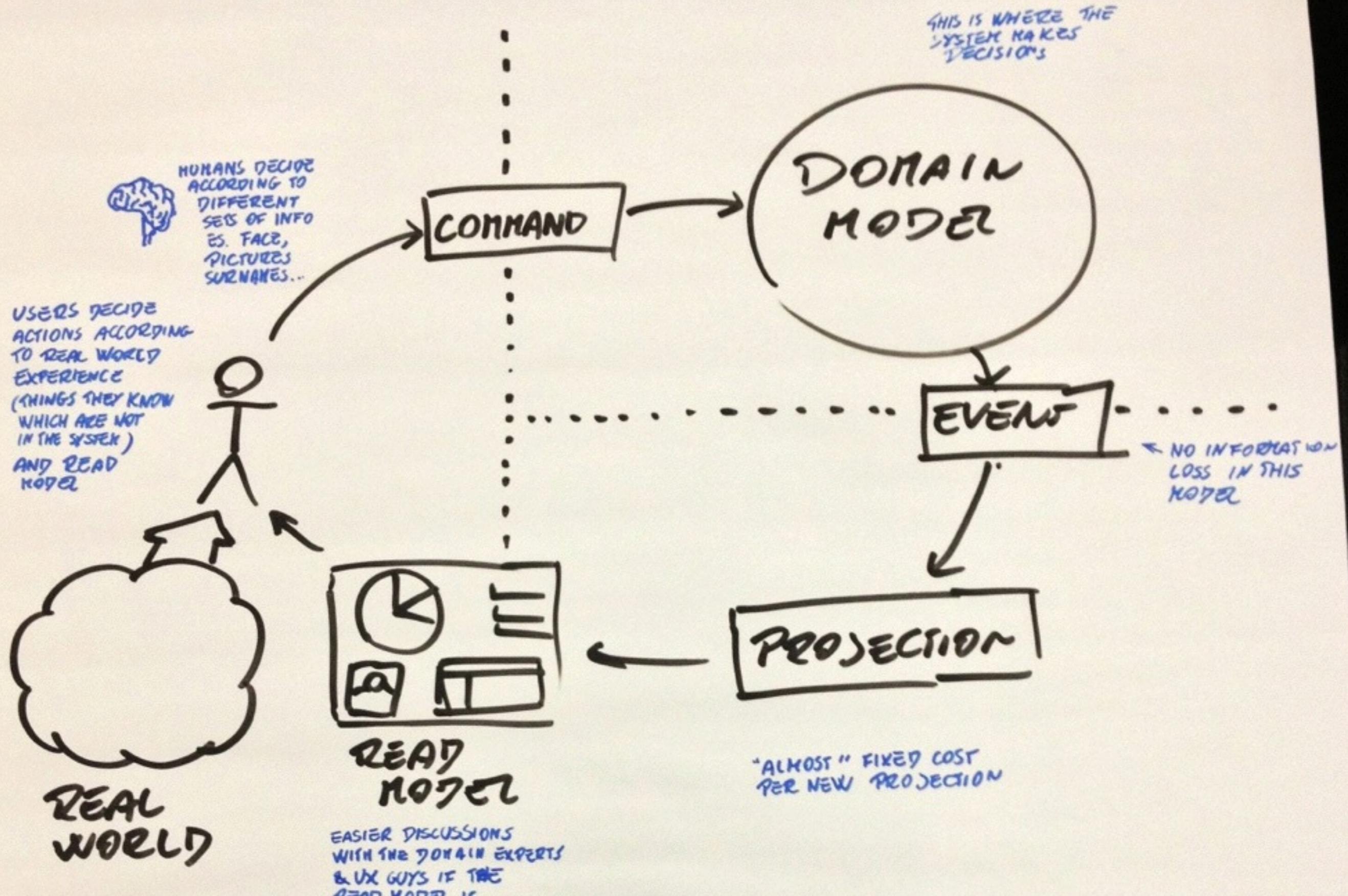
ENTER PROCESS MANAGERS

- PROCESS MANAGERS ARE THE HOME OF REACTIVE BEHAVIOUR IN THE SYSTEMS.

D

"WHENEVER" IS THE MOST COMMON WORD HERE





BEWARE OF BARRIERS

ONLY
COMPLETE DATA
ALLOWED

STRICT VALIDATION MIGHT PROTECT
SOME PORTIONS OF YOUR PROCESS...

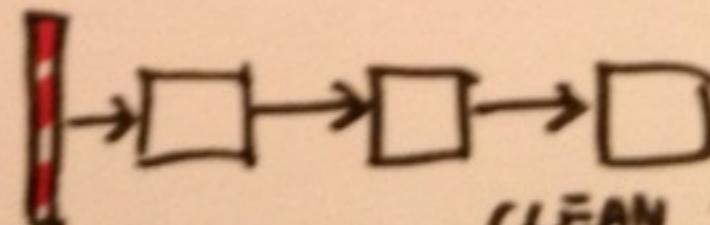
BUT

A LARGE PORTION OF YOUR PROCESS
MIGHT BECOME COMPLETELY UNOBSERVABLE

GREY
AREA



-->



BARRIER

CLEAN PROCESS

**INCOMPLETE IS A
LEGITIMATE
STATE**

BOUNDED CONTEXT ARCHETYPES

MODELS EXPOSE DIFFERENT BEHAVIORS
IN DIFFERENT PHASES OF THEIR LIFECYCLE
... BUT THEY'RE BASED ON THE SAME DATA

- DRAFT MODELS → A CONVERSATION HAPPENING AROUND AN ARTEFACT WHICH IS BUILT COLLABORATIVELY
- EXECUTION MODELS → AN INTERACTION HAPPENING BETWEEN COMPONENTS FOLLOWING RULES.
- AUDIT MODELS → TRYING TO MAKE SENSE OF THE BIG PICTURE.

MODELING CHAOTIC PROCESSES

- SOMETIMES REAL WORLD DOESN'T FOLLOW YOUR PROCESS.
 - A STRICT RACI-LIKE VIEW OF THE PROCESS IS TOO CONSTRAINING
 - THERE IS TOO MUCH INTRINSIC VARIABILITY IN THE PROCESS
- ACCEPT THAT THE REAL PROCESS DOESN'T HAPPEN IN STEPS
- ENFORCE EXPLICIT TERMINATION CONDITIONS
- FORGET ROLES, THEY WILL SLOW YOU DOWN
- "INCOMPLETE" IS A LEGITIMATE STATE

**WHEN SHOULD WE
STOP?**

**THE REAL
CONSTRAINT...**

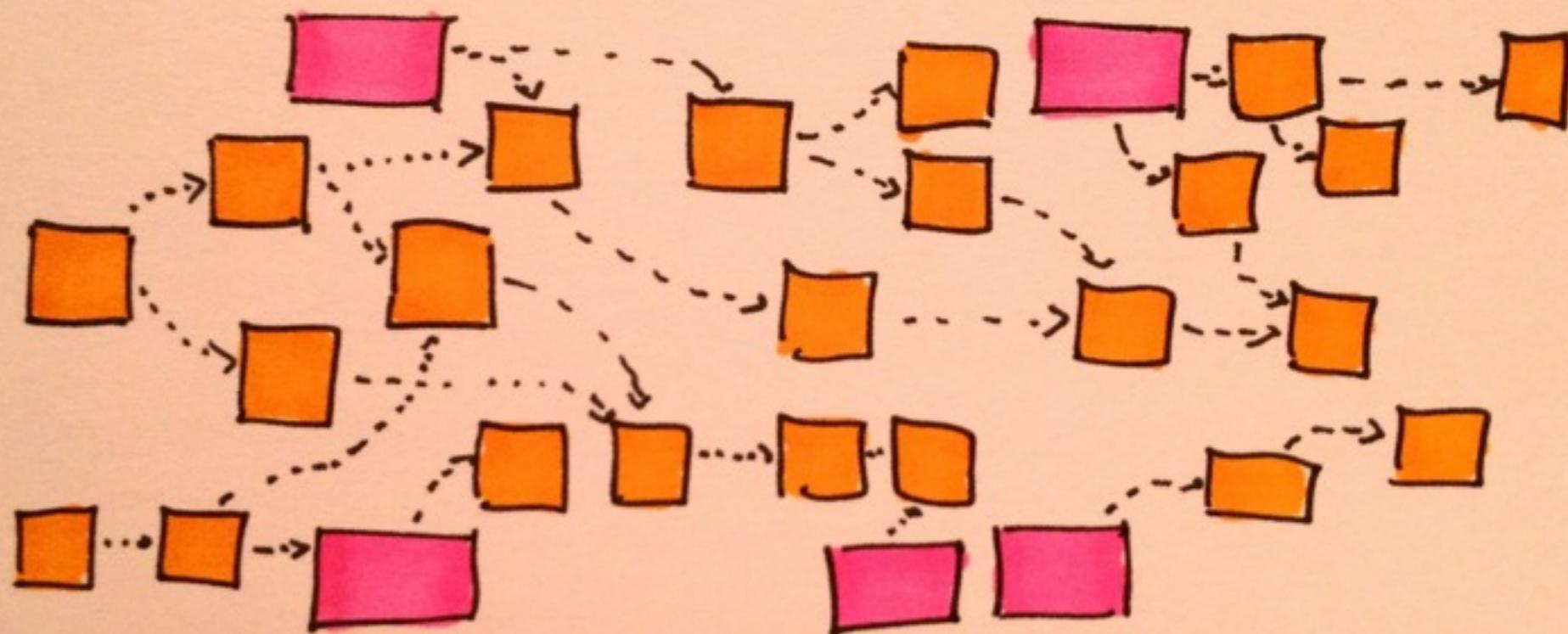


**MAKE THE PARTY
MEMORABLE**

**WHAT ARE WE
SEEING
EXACTLY?**

SYSTEM VIEW

CAN YOU IMPROVE WHAT YOU CAN'T SEE?





ACCIDENTAL COMPLEXITY

SOMETHING DOESN'T BELONG HERE

- SOME EVENTS HAPPEN, BUT THEIR BUSINESS PURPOSE IS UNCLEAR
- DOMAIN EXPERT **ALWAYS** SHOW SOME EMBARRASSMENT IN THEIR BODY LANGUAGE
- ACRONYMS OR WEIRD NAMES MAY BE A HINT TOO.



LET IDEAS EMERGE

ONCE YOU OPEN THE PANDORA'S BOX



IDEAS START TO EMERGE

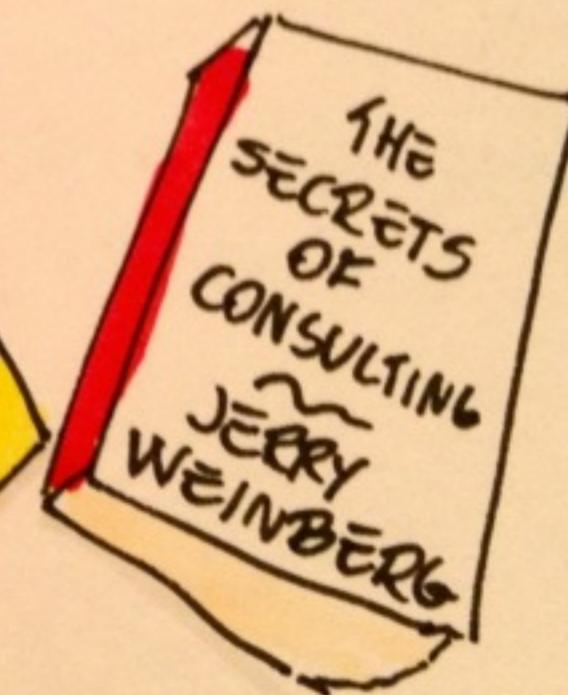
BUT



SOMETIMES IS BETTER
NOT TO TAKE MUCH
CREDIT FOR THAT

BETTER KEEP
MY MOUTH SHUT
SOMETIMES...

LOTS OF
WISDOM HERE



VISUALIZE ALTERNATIVES

ITEM PURCHASED

ITEM SOLD

OFTEN, MULTIPLE ALTERNATIVES WILL SHOW UP, PROBABLY FOR THE SAME CONCEPT.

KEEP THEM BOTH.

- TOO EARLY TO CHOOSE A WINNER
- THE DISCUSSION WILL PROBABLY BE INTERESTING.

GO PERSONAL

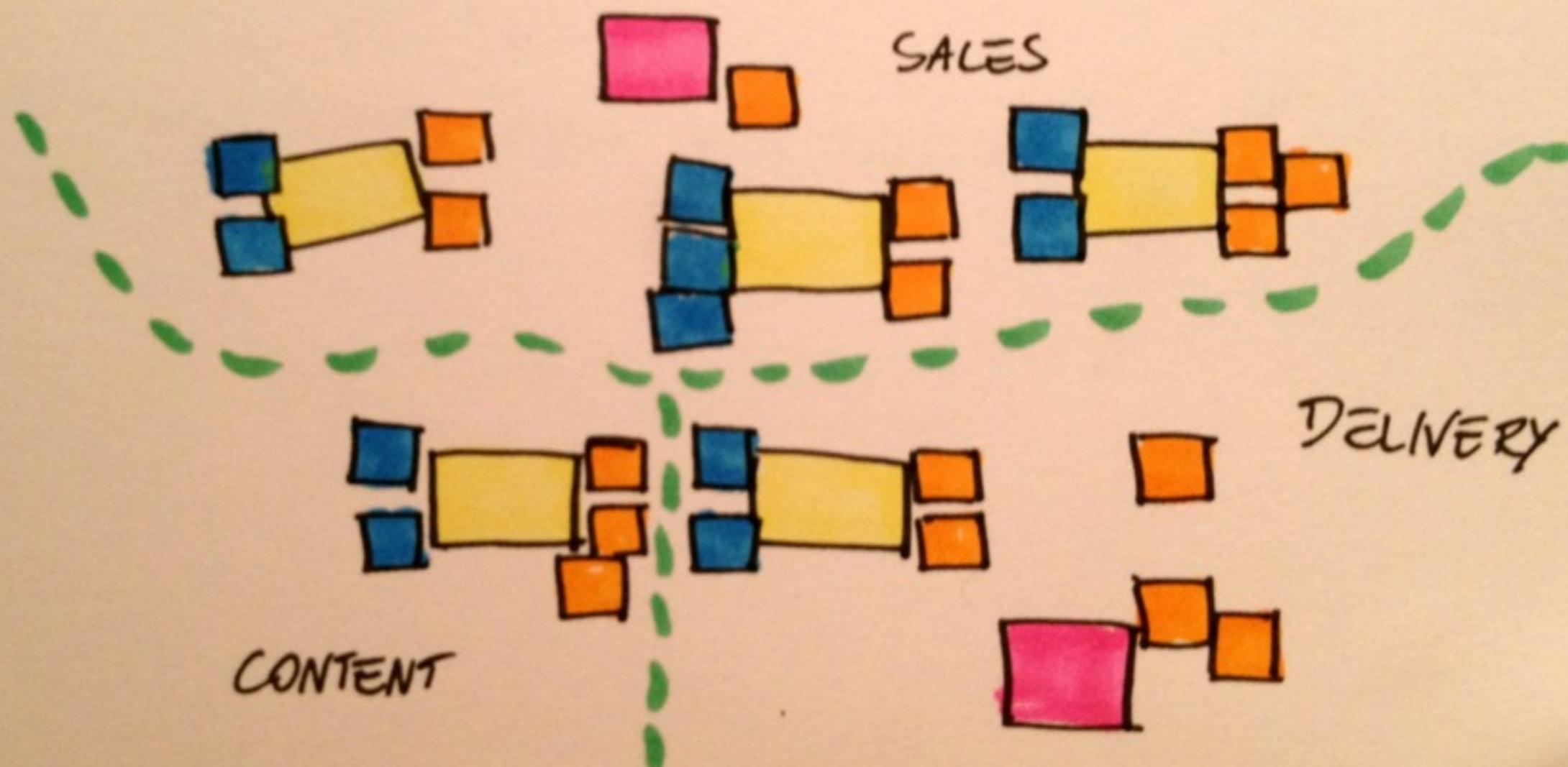


SOMETIMES THE ONLY THING MISSING
FROM THE PICTURE IS "ME"

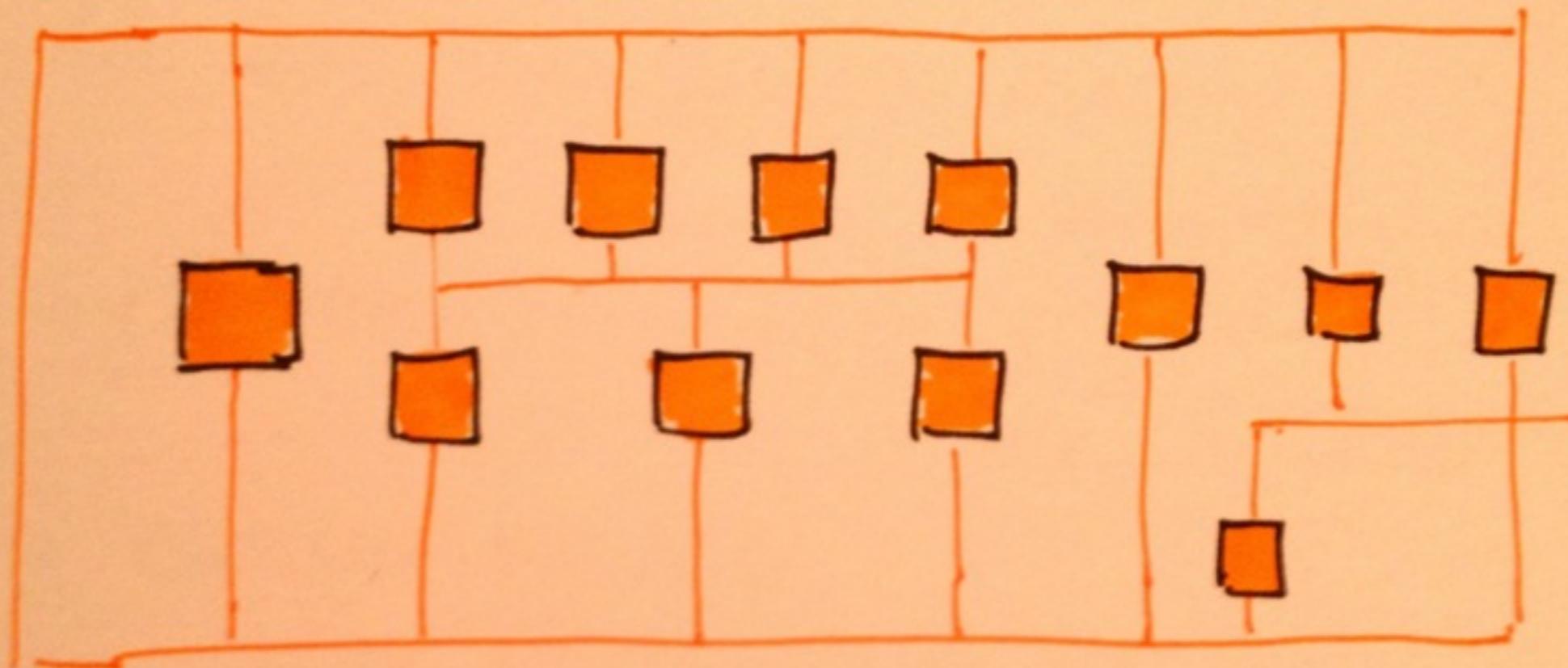
ASK PARTICIPANT TO MARK
AREAS AND EVENTS THEY'RE
INVOLVED IN

EXPLORE SUBDOMAINS

- DIFFERENT STAKEHOLDERS WILL HAVE DIFFERENT AREAS OF EXPERTISE



FROM EVENTS TO KANBAN BOARDS



EVENTS ARE EXACTLY A TRANSITION
FROM A PLACE TO ANOTHER ONE

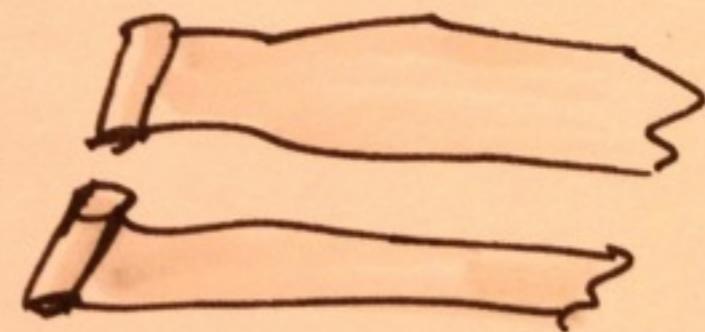
**DIFFERENT
PEOPLE MAKE A
DIFFERENT PARTY**

EVENTSTORMING STARTUPS

GIVEN A BUSINESS MODEL, WE CAN EXPLORE
THE RESULTING PROCESS QUICKLY

....

- CREATING ALTERNATIVES



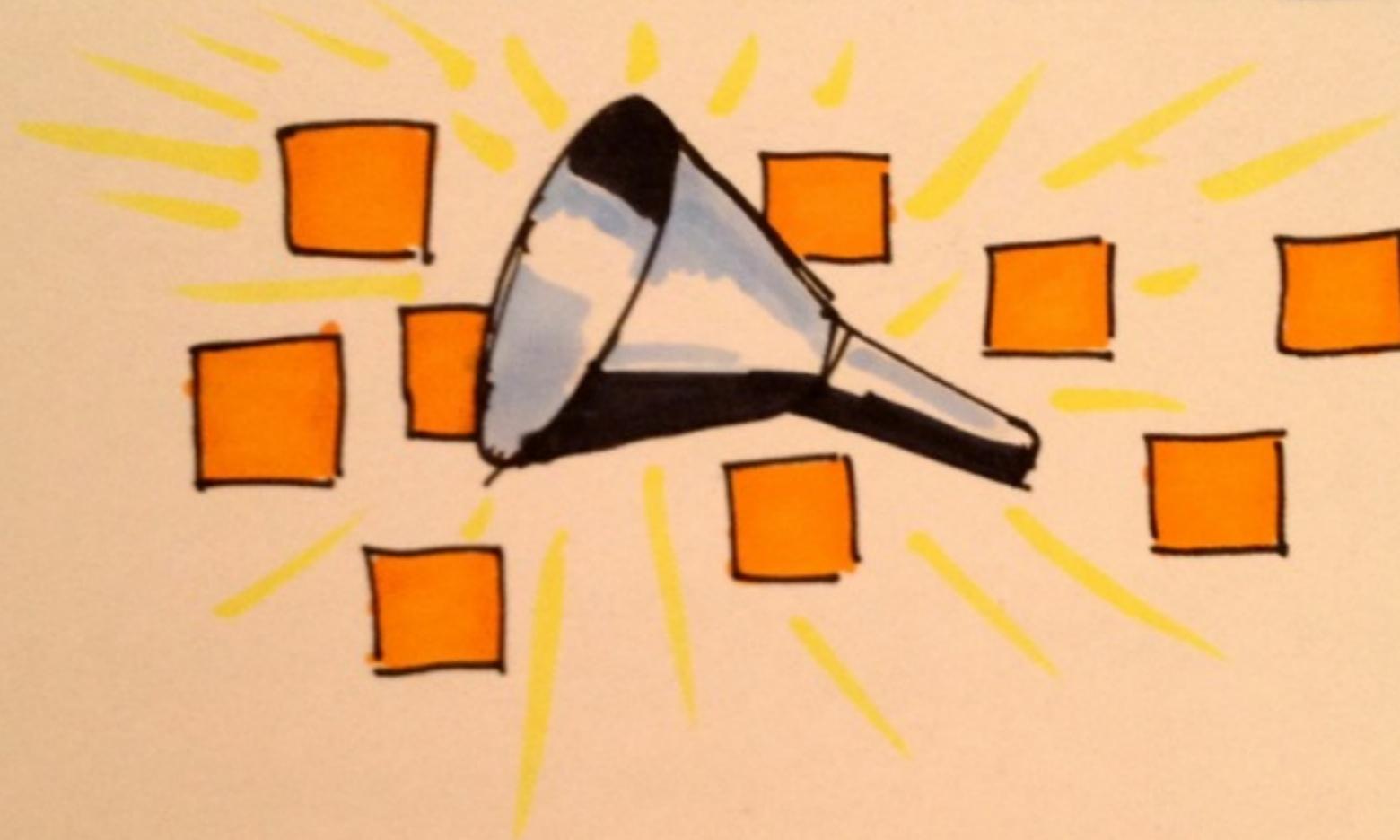
- CHOOSING WHETHER ..

- TO IMPLEMENT SOME SOFTWARE
- TO BUY SOME SOFTWARE
- TO DO IT MANUALLY



.... DOES IT SOUND FAMILIAR?

EVENTSTORMING LARGE COMPANIES



THE BOTTLENECK DISPLAYS ITSELF
...
WHAT'S NEXT?

**IN SMALL
COMPANIES...**

FOCUS ON DECISION STEPS

- IN MANY COMPANIES (AND IN MINE FOR SURE)
THE BOTTLENECK IS NOT IN THE ACTIONS,
BUT IN THE DECISIONS
- THERE ARE **HUGE** AREAS FOR
IMPROVEMENT HERE.

CODE COVERAGE?



Photograph by Gregor Schuster

Harvard University economists Carmen Reinhart and Kenneth Rogoff have acknowledged making a spreadsheet calculation mistake in a 2010 research paper, “[Growth in a Time of Debt](#)” (PDF), which has been widely cited to justify budget-cutting. But the authors stand by their conclusion that higher government debt is associated with slower economic growth. Here’s what you need to know:

How big is this mistake?

Reinhart and Rogoff wrote in their 2010 paper that average annual growth was negative 0.1 percent in countries with episodes of gross government debt equal to 90 percent or more of GDP between 1945 and 2009. Liberal economists have been critical of their work for years (just economists being their usual cranky selves), but now three economists at UMass say Reinhart and Rogoff made several mistakes and omissions. According to the UMass scholars, the “corrected” number is positive 2.2 percent—which means GDP still grows, even when debt levels are very high.

Do Reinhart and Rogoff admit they got it wrong?

They [admit they accidentally excluded five rows](#) from an average in their Microsoft Excel spreadsheet, but not the other charges. Fixing the spreadsheet error would lift growth in those high-debt countries to about 0.2 percent annually (still not that

MODELING COMMANDS & READ MODELS

THINGS A USER
NEEDS TO SEE
IN ORDER TO
MAKE A DECISION



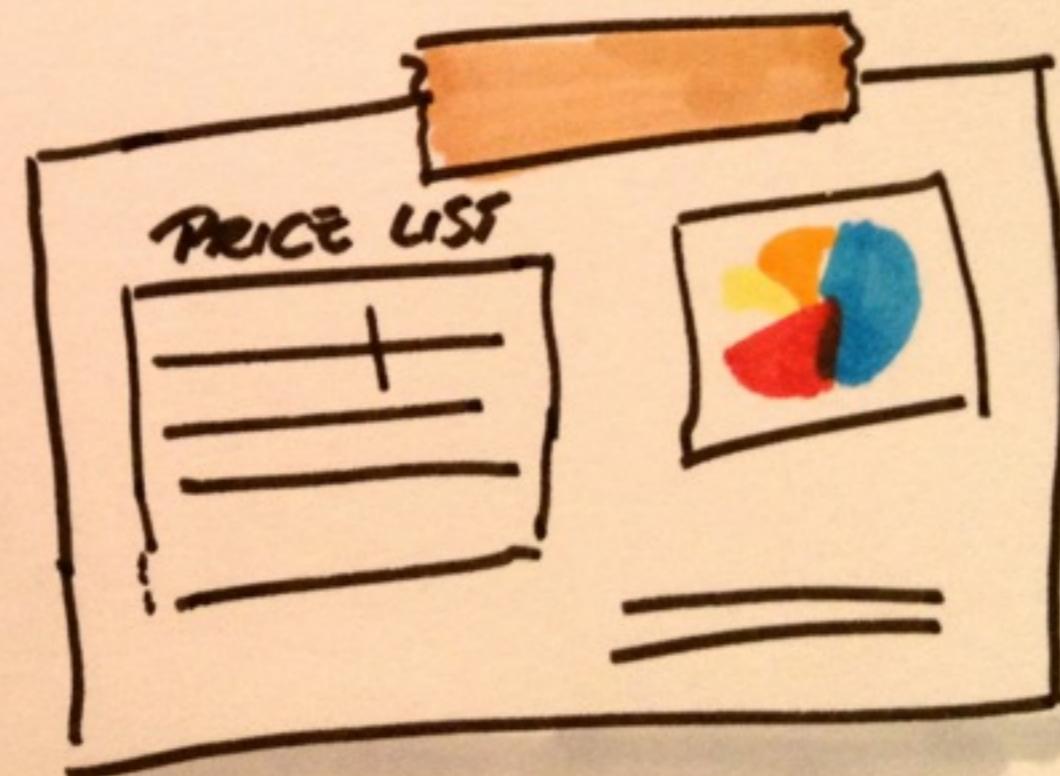
→
ADD
ITEM TO
CART



←
PRICE
IMAGE
AVAILABILITY

SKETCHING READ MODEL ARTIFACTS

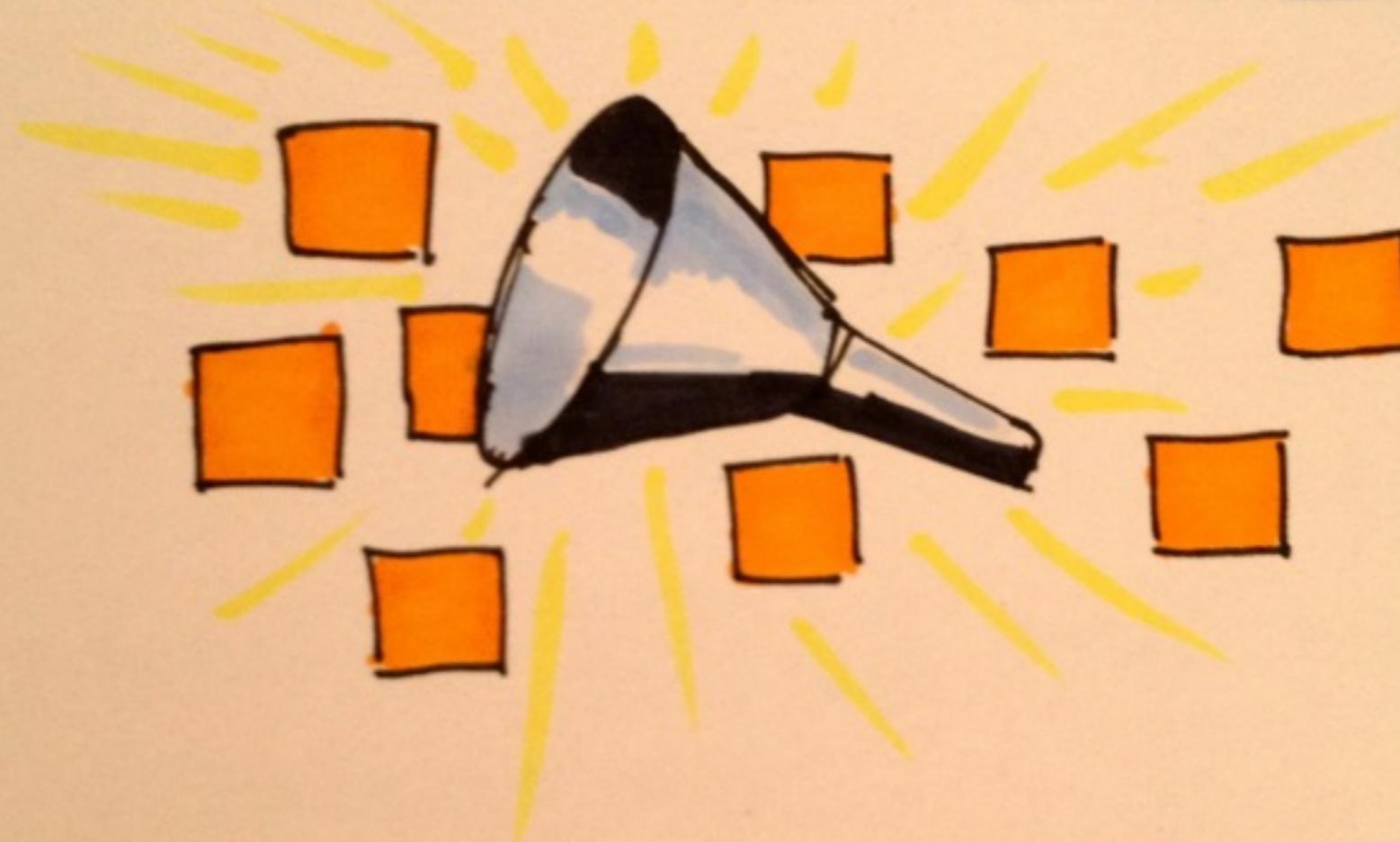
- SOME SCENARIOS REQUIRE A WELL DEFINED SET OF INFORMATION TO BE DISPLAYED TO THE USER





LOOK FOR THINGS
THAT MATTER

EVENTSTORMING LARGE COMPANIES



THE BOTTLENECK DISPLAYS ITSELF
...
WHAT'S NEXT?



WHO'S WITH ME?



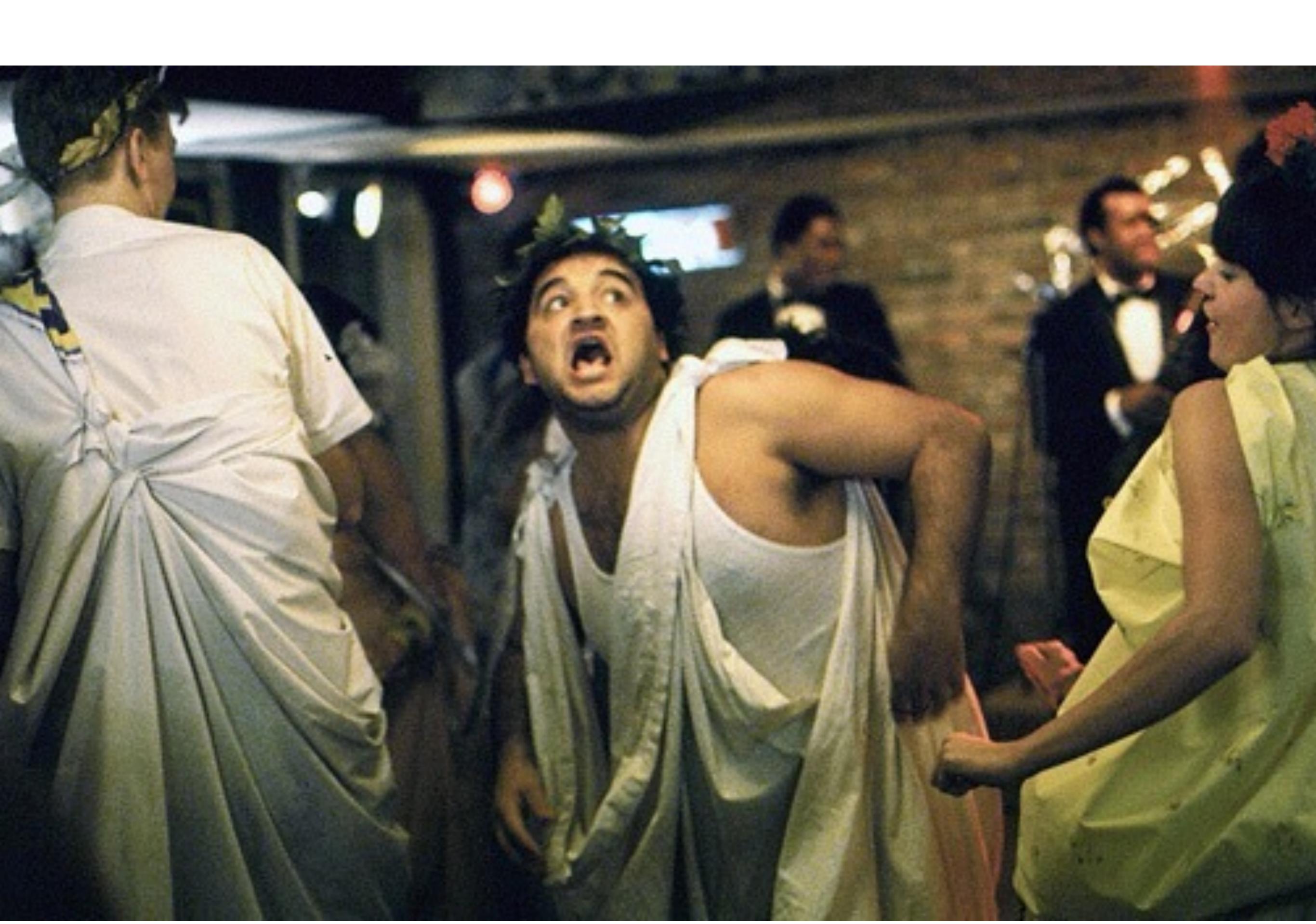
GOTTA DO SOMETHING!

**ARE YOU READY
FOR IT?**

**WHAT ABOUT
REMOTE
EVENTSTORMING?**



**WHAT ABOUT
REMOTE
TOGA PARTY?**



OK, SERIOUSLY

WRAPPING UP

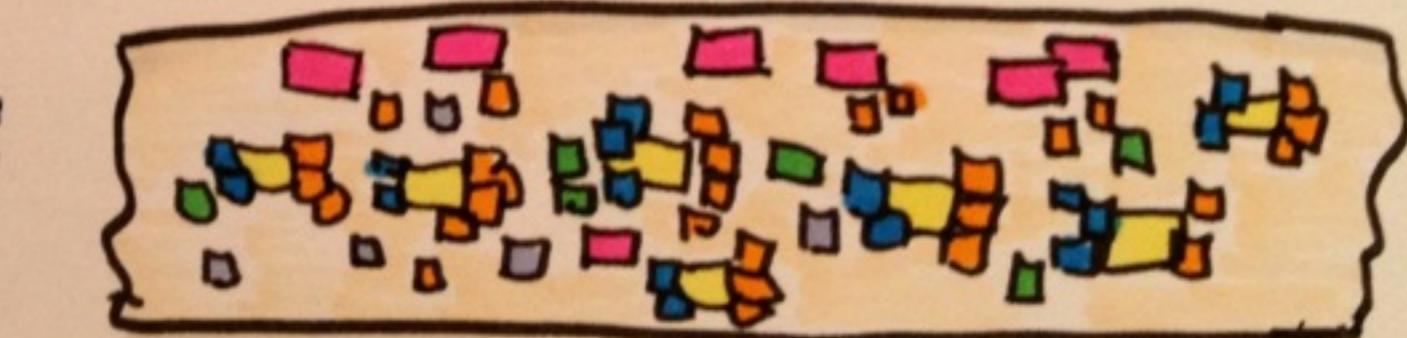
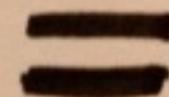
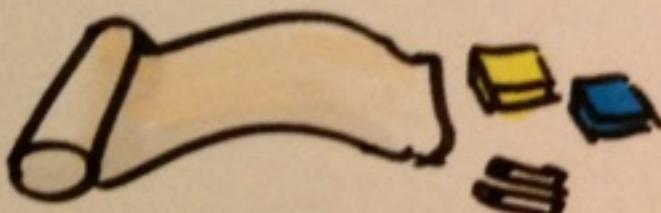
THROW AWAY MODEL

- IT IS CHEAP TO RECREATE IT
- WE LEARNT IT
- WE DONT WANT JUST ANOTHER LEGACY ARTIFACT

BUT...

**LEAVE IT
AROUND, FOR A
WHILE...**

THE NAIVE PERCEPTION OF EVENTSTORMING



PUT THE RIGHT PEOPLE IN A
ROOM WITH A PAPER ROLL AND
TONS OF STICKIES AND THEY'LL
DUMP THE PROCESS MODEL IN
A VERY SHORT TIME

**CHAOTIC EATS
SEQUENTIAL FOR
BREAKFAST**

NOT ALL THE RESULTS ARE VISIBLE

THE MODEL ON THE PAPER ROLL IS HUGE AND TANGIBLE
BUT MORE VALUE IS
CREATED ALONG THE
WAY...

EVENT STORMING

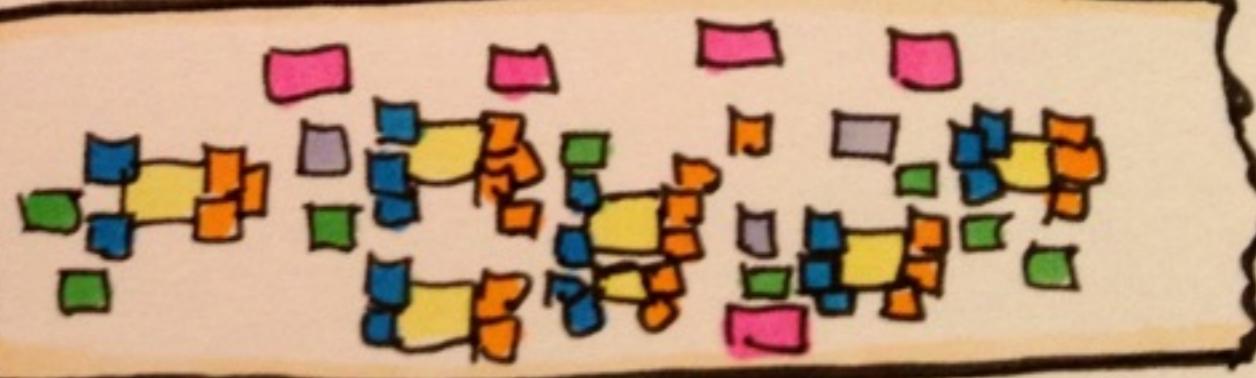
SHARED KNOWLEDGE



INSIGHTS

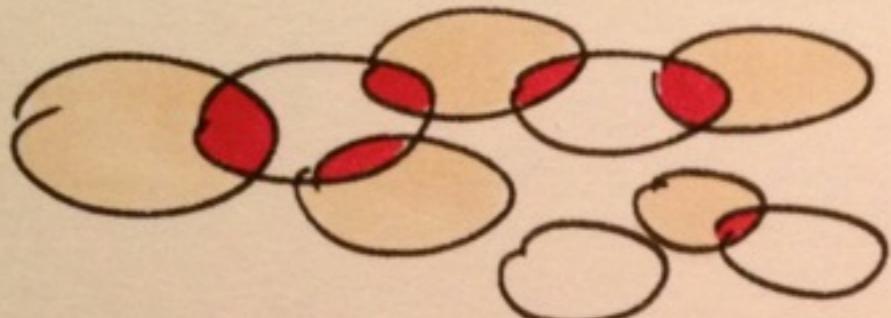
MORE OFTEN THAN
NOT, OLD PROBLEMS
FIND A SOLUTION
DURING THE WORKSHOP

IMPLEMENTATION-FRIENDLY MODEL



WHAT REALLY HAPPENS IN AN EVENT STOREKING

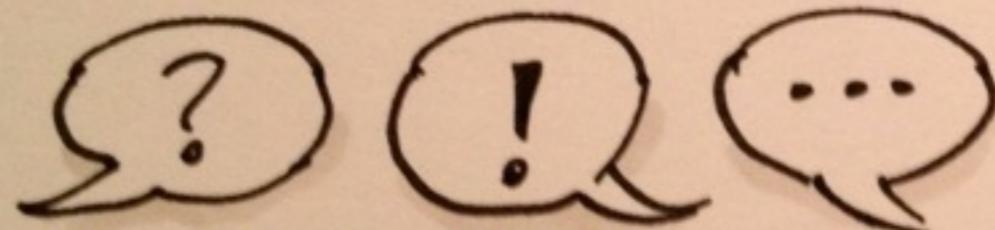
&



CONFLICTS AND
POTENTIAL OVERLAPPINGS
ARE HIGHLIGHTED



CAN FINALLY SEE
THE **BIG** PICTURE



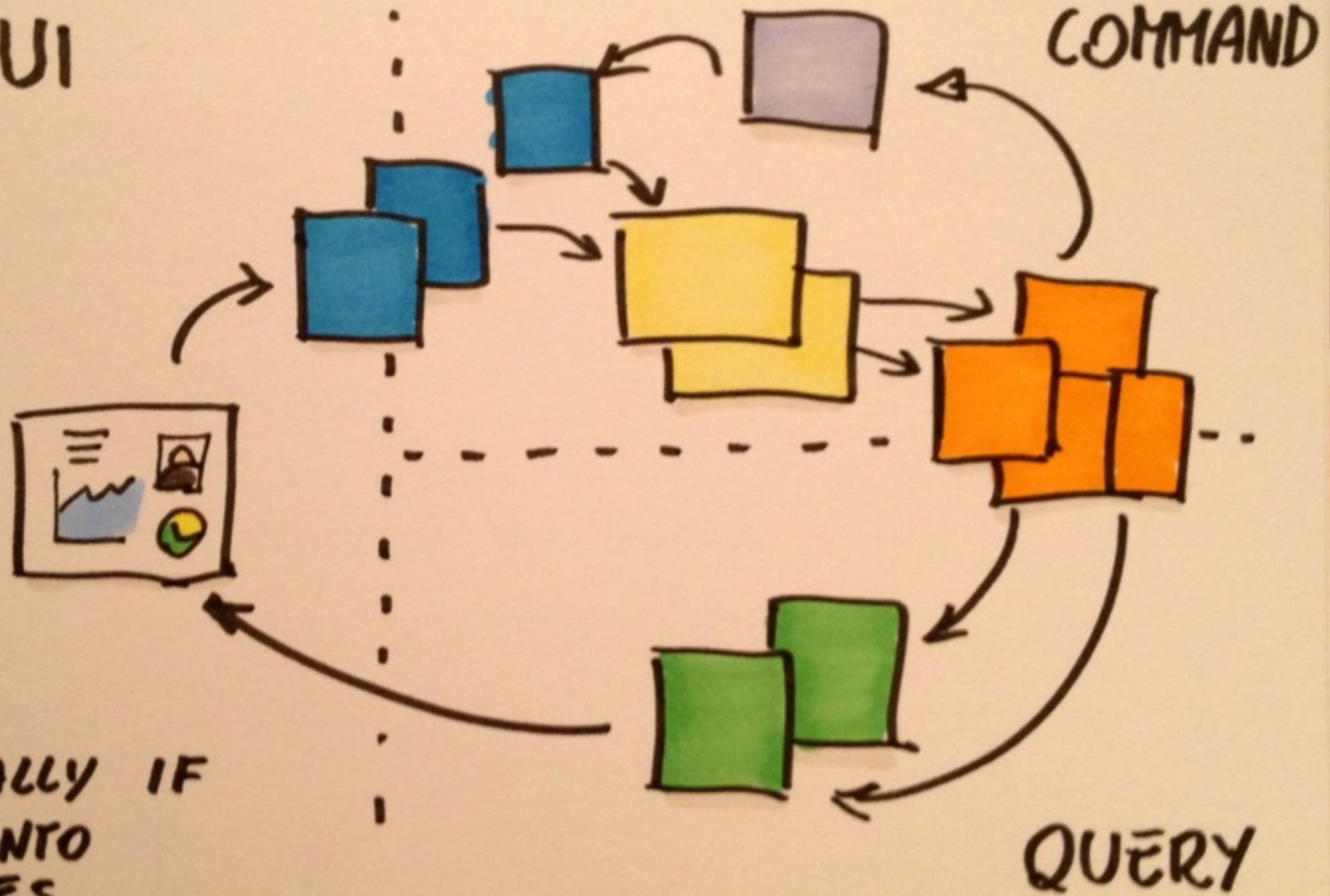
CONVERSATIONS
CAN (FINALLY) HAPPEN



AND **IDEAS** ARE
POPPING OUT

EVENT STORMING IS IMPLEMENTATION FRIENDLY

UI



...ESPECIALLY IF
YOU'RE INTO
CQRS + ES

QUERY

**CREATIVE
COLLABORATION**



**MEANINGFUL
CONVERSATION WITH
DOMAIN EXPERTS?**



experts help us
to understand

and we help
them



CHOOSE YOUR ROLE



**FIND AN
OBSERVATION POINT**

**MODEL
STORMING?**



**SORRY ABOUT
THAT**

Event Storming

**expected outcome
steered towards a canonical
model
partially defined steps
model affinity
given problem type**

Model storming

unpredictable outcome

no canonical model

notation incremented

iteratively

no predefined problem type

**DON'T POSTPONE
PEOPLE**



QUESTIONS?



THANKS!

avanscoperta
@ZIOBRANDO

REFERENCES

EventStormers community on Google+

[https://plus.google.com/u/0/communities/
113258571348605620818](https://plus.google.com/u/0/communities/113258571348605620818)

Introducing Event Storming:

[http://ziobrando.blogspot.com/2013/11/introducing-
event-storming.html](http://ziobrando.blogspot.com/2013/11/introducing-event-storming.html)