

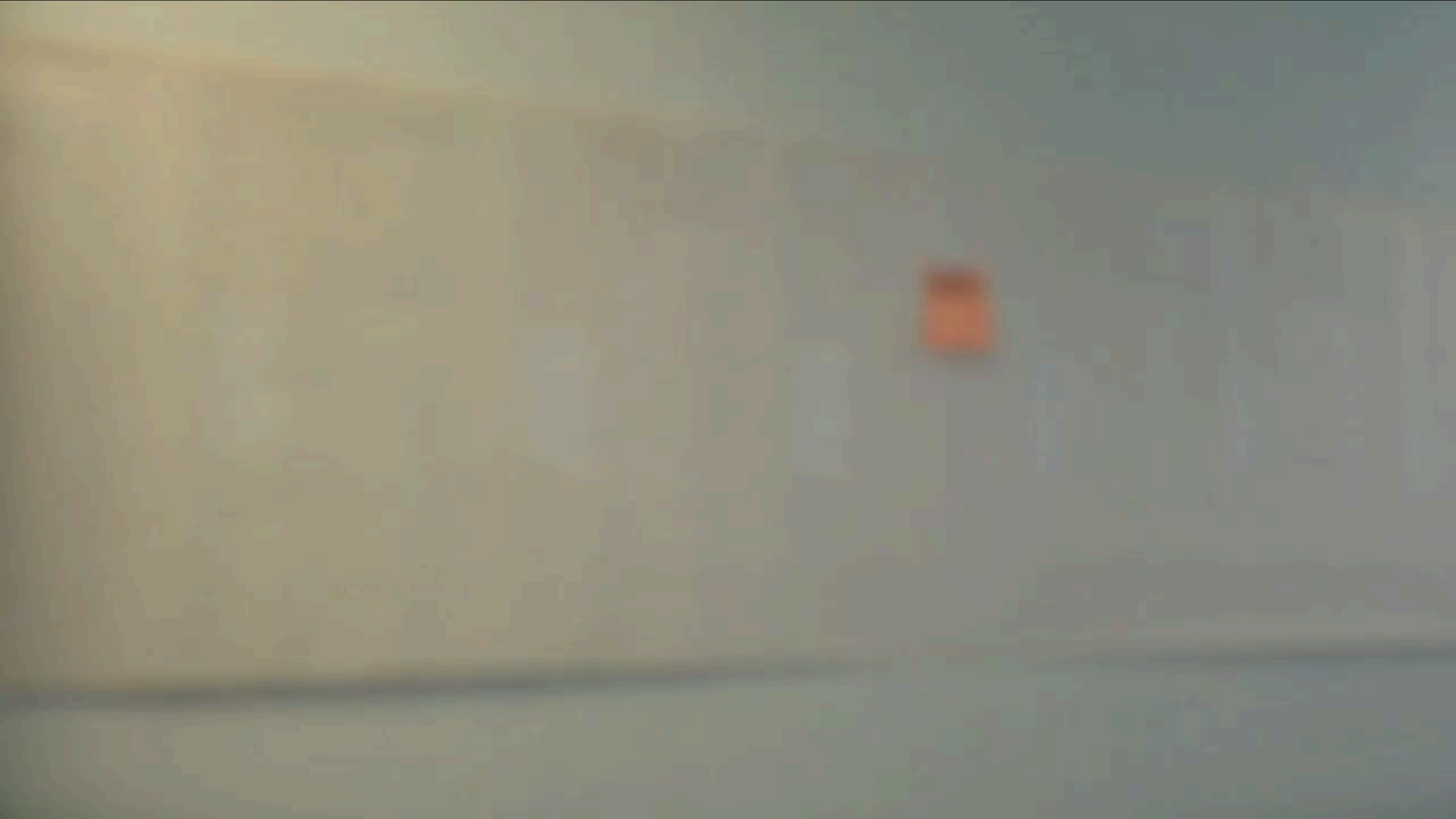


EVENTSTORMING RECIPES

@ZIOBRANDO

WHAT'S EVENTSTORWING

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⁾

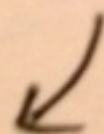
(1) AND DON'T WORRY IF YOU DON'T GET ALL THE ANSWERS.

WALKING SKELETON REVISITED



IT'S NOT ABOUT
TOUCHING SYSTEMS

IT'S ABOUT TOUCHING
PEOPLE

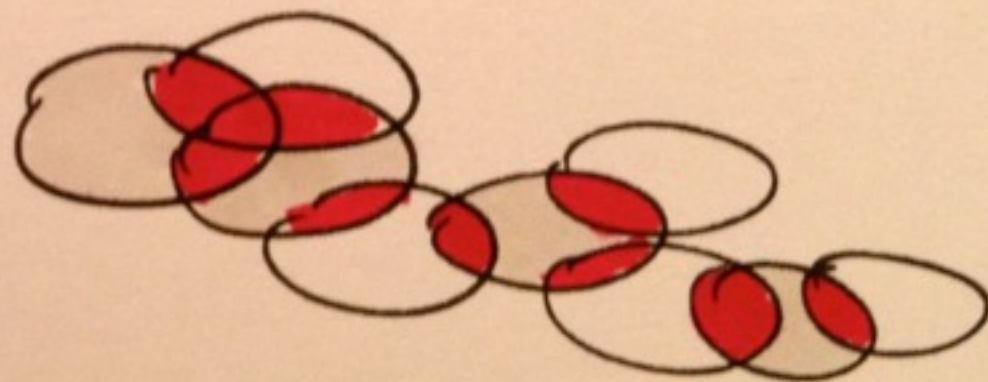


AND I WANT TO TOUCH
THEM AS SOON AS POSSIBLE



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



**YOU MISSED
THE PARTY**

BUT ALSO...



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



HACK THE PLACE

HACK THE PLACE

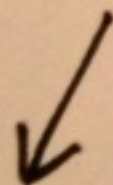
- THERE'S NO PERFECT ROOM FOR AN EVENT STORMING



HACKING THE SPACE IS UP TO YOU



WANNA START A CLASS ACTION AGAINST ARCHITECTS?



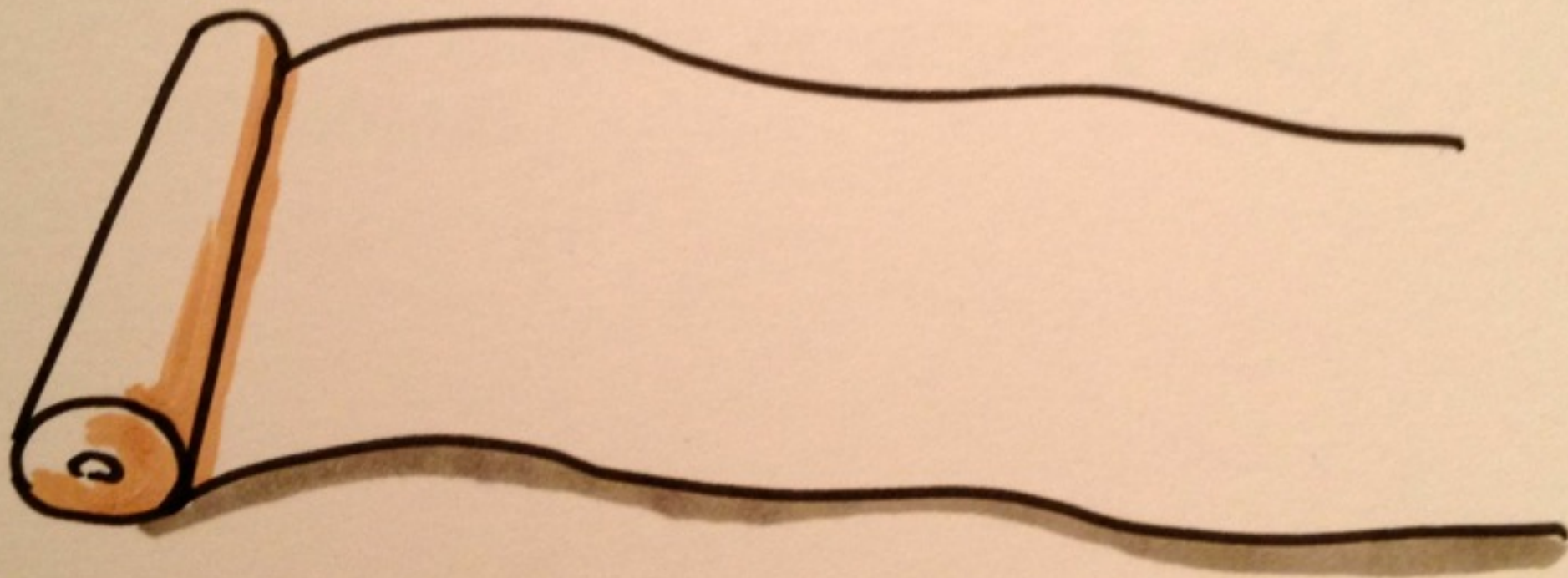
PORTABLE PAPER ROLL



MOVE THINGS AROUND

UNLIMITED MODELING SPACE

- CAN'T TELL A PROBLEM SIZE BEFORE EXPLORING



"CACIA"
CLIENTI
(Agenti)

CLASSE

PROBLEMI

ALTRA

ALTRA

COMO
CLASSE

ALTRA

ALTRA

ALTRA

ALTRA

ALTRA

ALTRA

ALTRA

ALTRA

ALTRA

ALTRA

ALTRA

URA
GENERALE



REMOVE TABLES

TABLES CREATE THE WRONG PHYSICAL SPACE

- POSITIONS ARE FIXED, NO EMERGING ALLIANCES
- 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

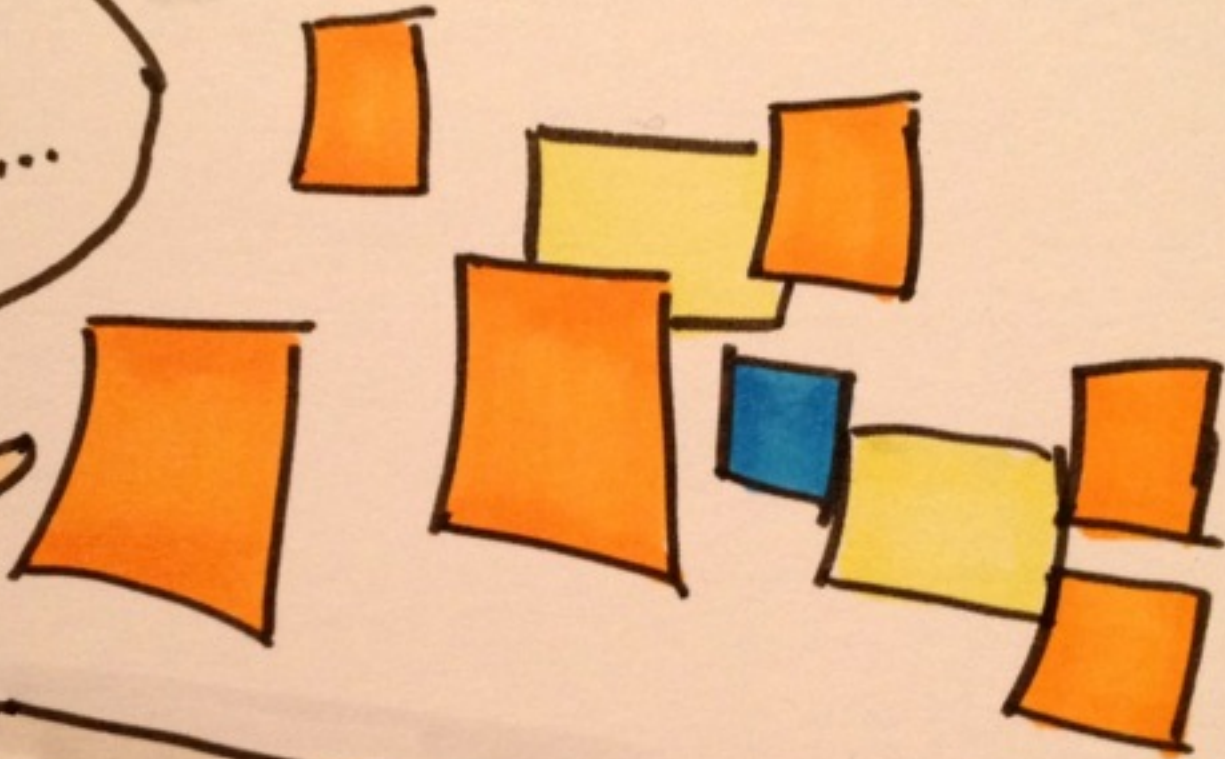
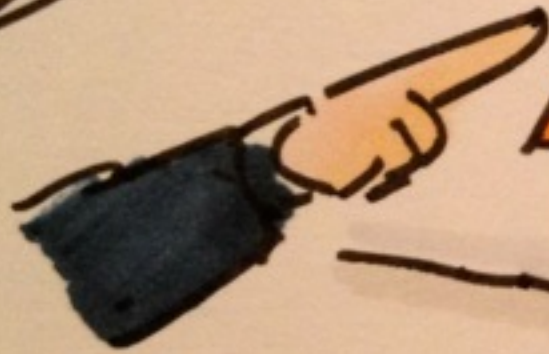
JUST TAKE THEM AWAY!

↳ 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



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

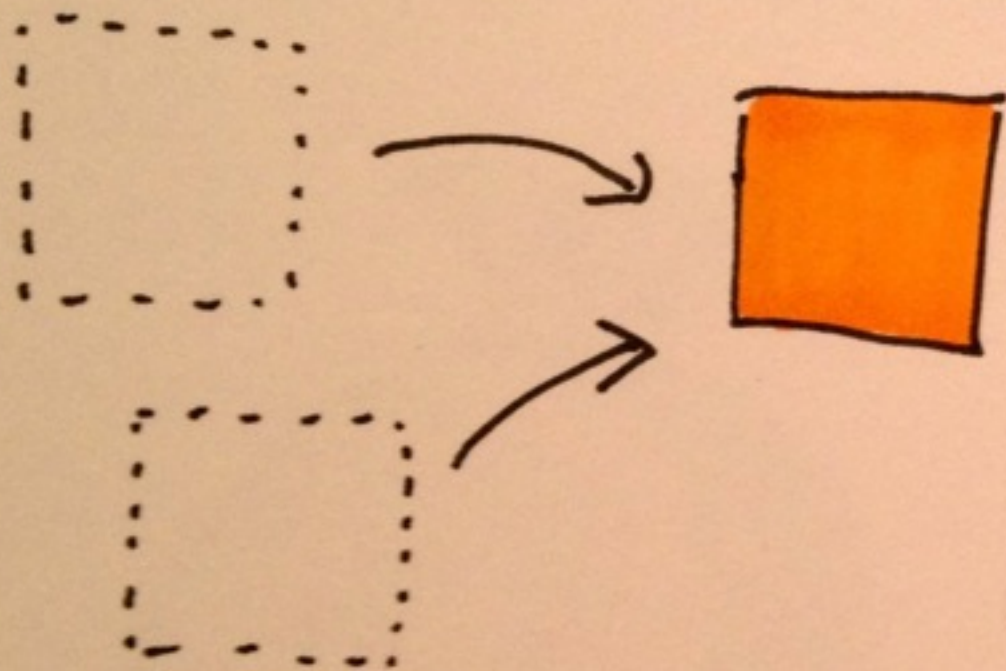
→ #42

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 UWL
NO BPWN
NO ...

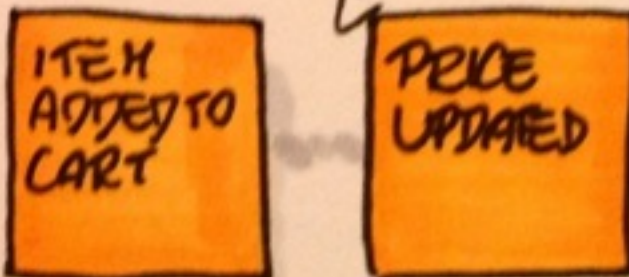
MODEL AFFINITY

**DOMAIN EVENTS
ARE JUST A
SWEET SPOT**

NEXT STEPS

WHAT DOES TRIGGER EVENTS?

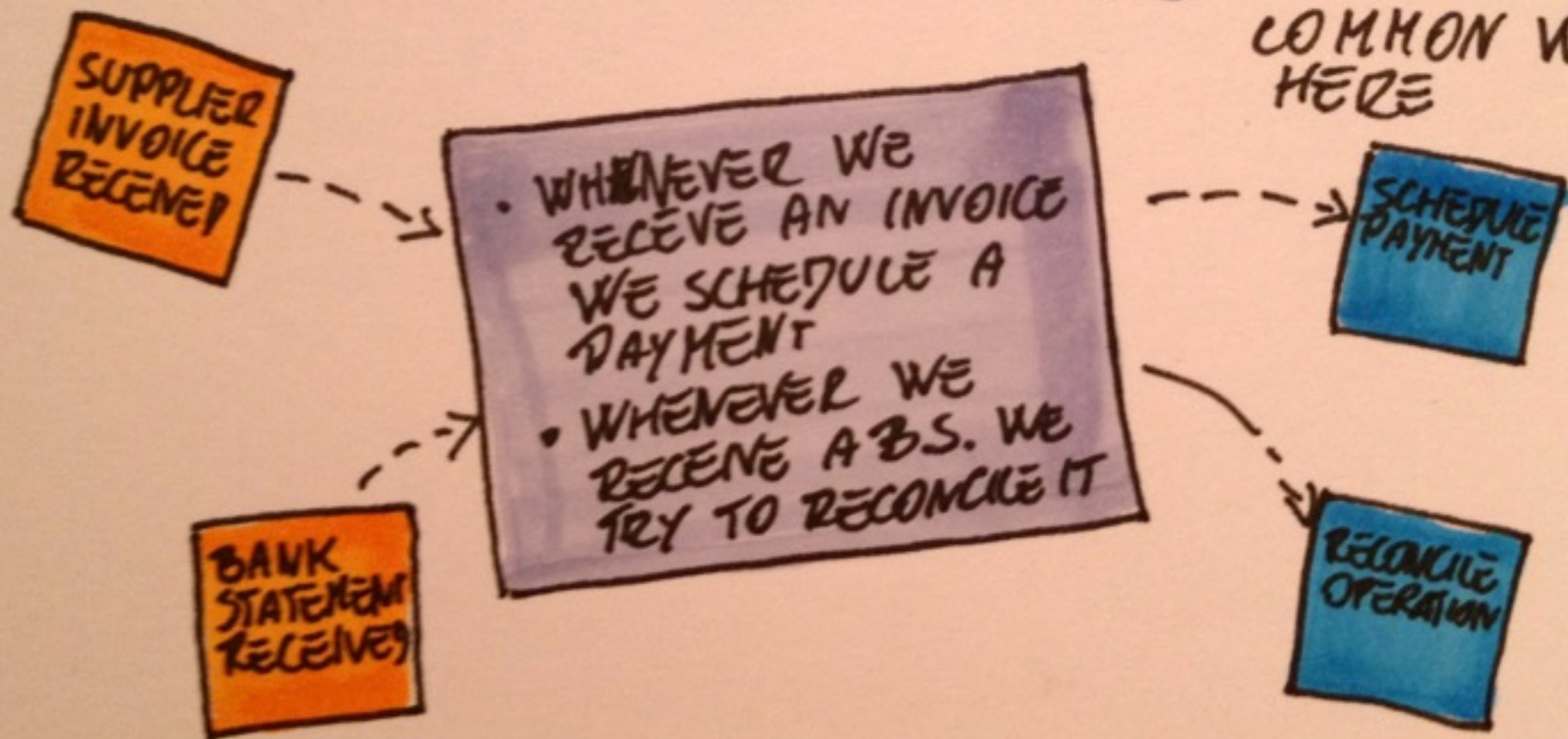
- A **COMMAND** FROM A GIVEN **USER**
- OR AN **EXTERNAL SYSTEM**
- OR SIMPLY THE TIME **END OF MONTH** 

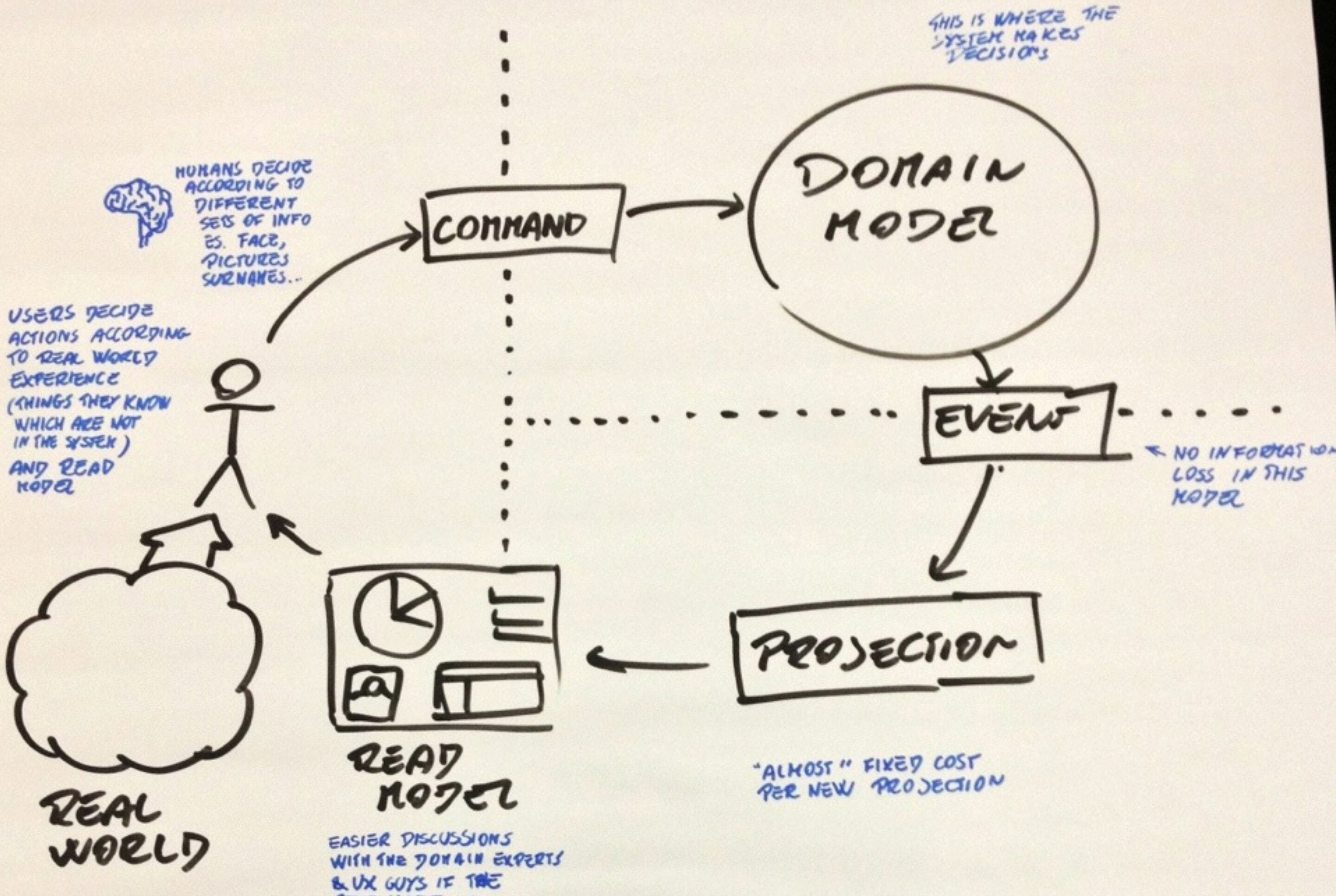
SOMETHING MAGIC HAPPENING HERE.
- OR JUST ANOTHER **EVENT** 

ENTER PROCESS MANAGERS

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

"WHENEVER" IS THE MOST COMMON WORD HERE



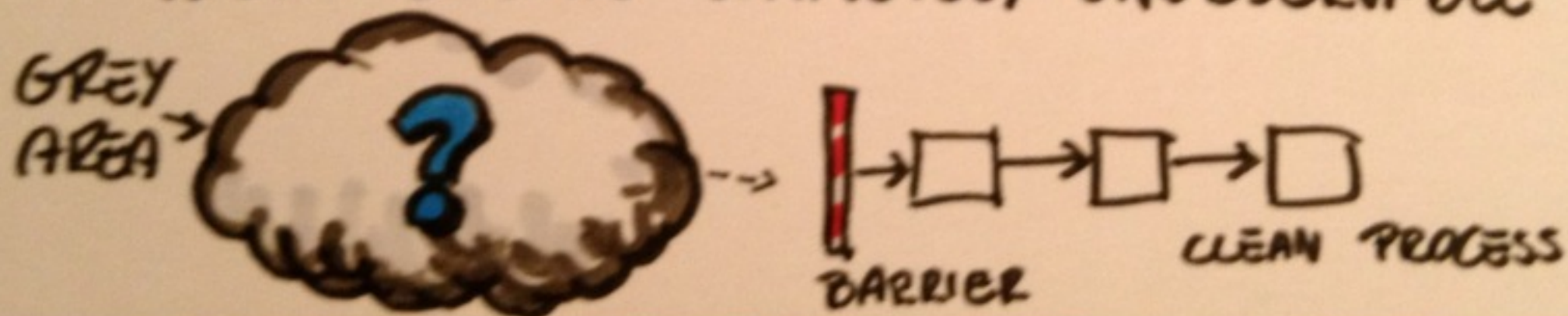


BEWARE OF BARRIERS



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

A LARGE PORTION OF YOUR PROCESS
MIGHT BECOME COMPLETELY UNOBSERVABLE



**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 ARTEFAT 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...**

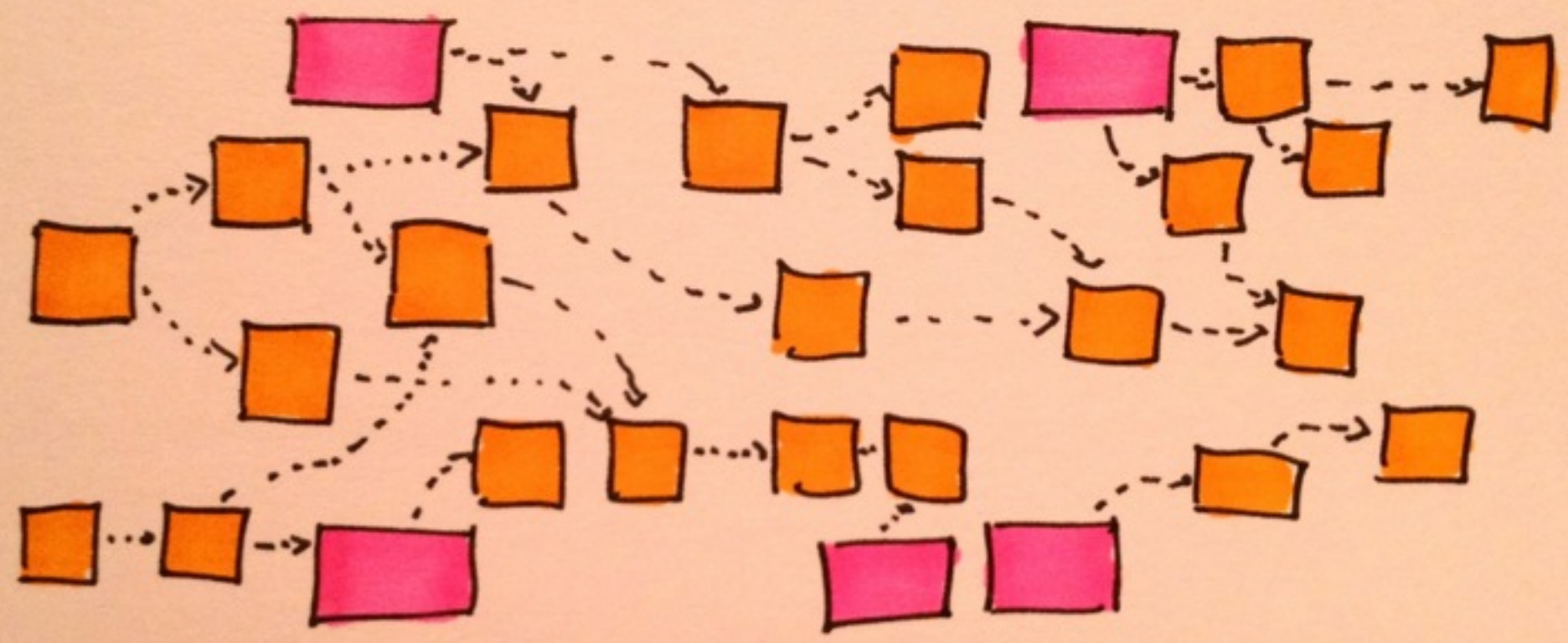


**WAKE THE PARTY
WEWORABLE**

**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

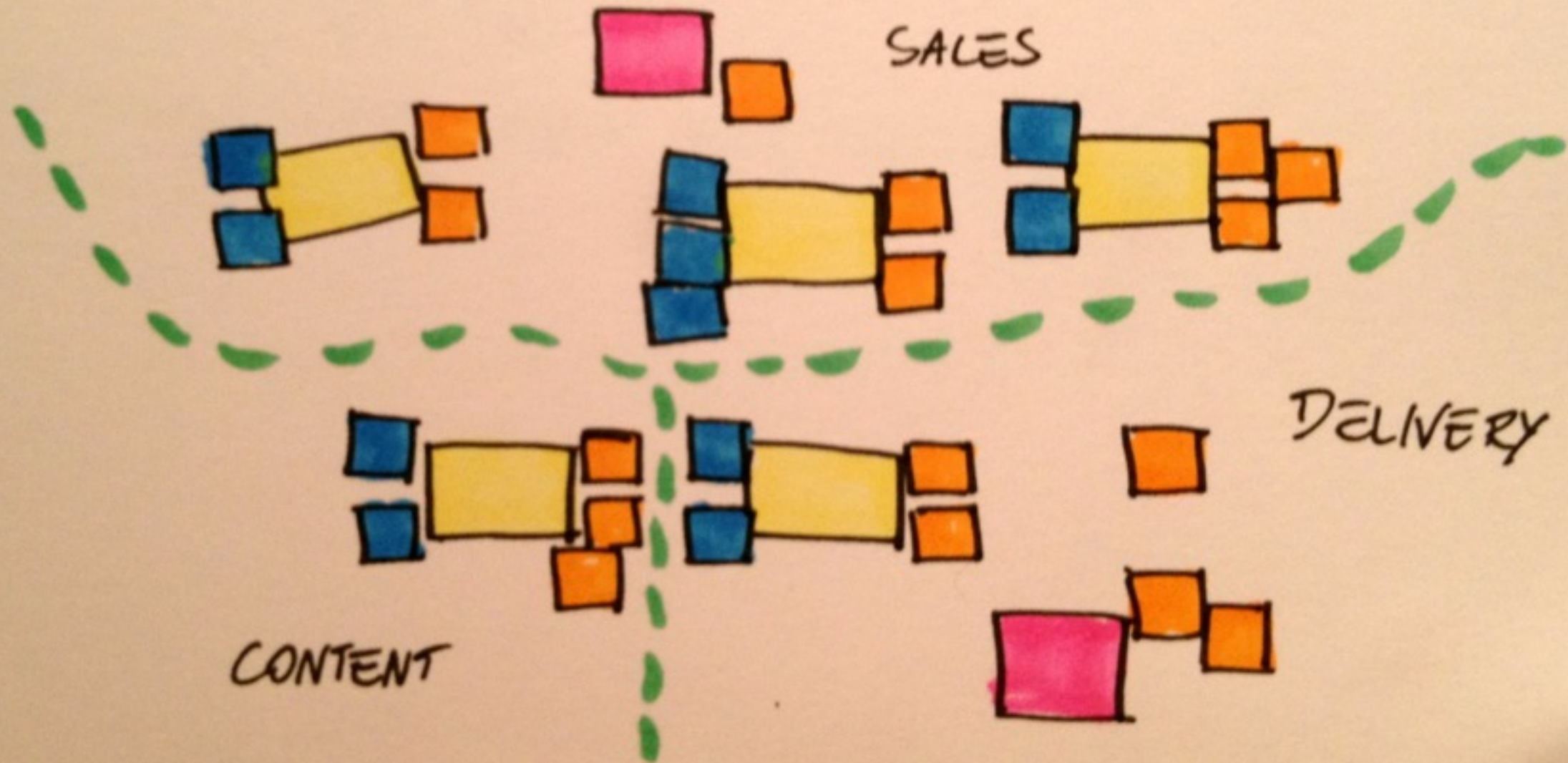


SOMETIMES THE ONLY THING MISSING FROM THE PICTURE IS "ME"

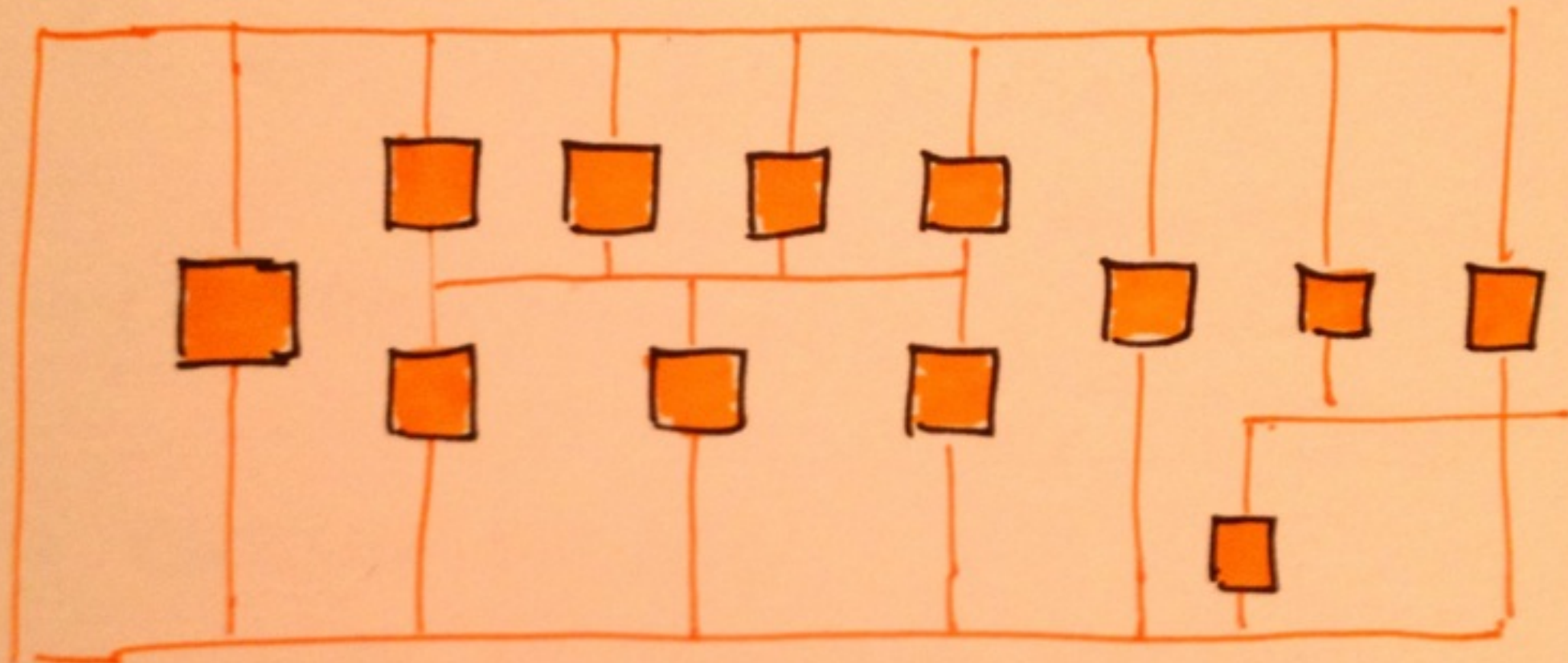
ASK PARTICIPANT TO MARK AREAS AND EVENTS THEY'RE INVOLVED IN

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

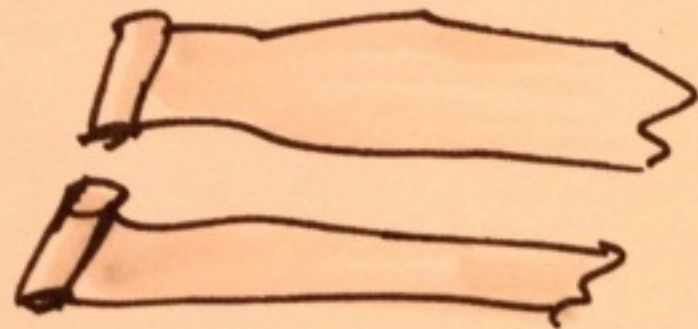
**DIFFERENT
PEOPLE MAKE A
DIFFERENT PARTY**

EVENTSTORMING STARTUPS

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

....

o CREATING ALTERNATIVES



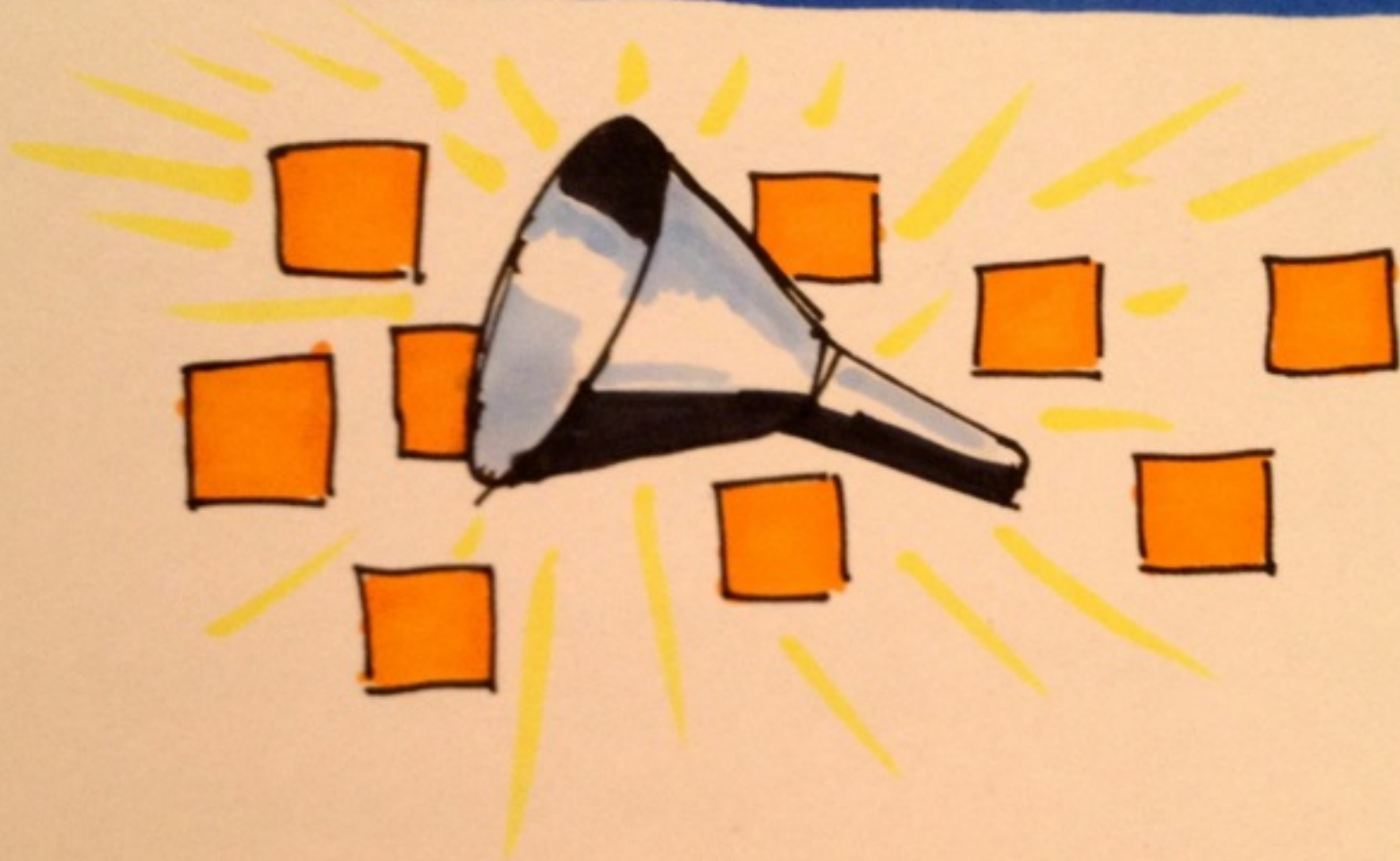
o CHOOSING WHETHER ..

- 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.

File Home Insert Page Layout Formulas Data Review View

Clipboard: Paste, Cut, Copy, Format Painter

Font: Arial Black, 12, Bold, Italic, Underline, Color, Background Color

Alignment: Wrap Text, Merge & Center

Number: General, \$, %, .00, .00

Styles: Conditional Formatting, Format as Table, Cell Styles

Cells: Insert, Delete, Format

Editing: AutoSum, Fill, Clear, Sort & Filter, Find & Select

	A	FA	FB	FC	FD	FE	FF	FG	FH	FI	FJ	FK	FL	FM
1	GENL FUND													
2	CASH RECON													
3		Monday	Tuesday	Wednesday	Thursday	Friday	Monday	Tuesday	Wednesday	Thursday	Friday	Tuesday	Wednesday	Thursday
4	& CASHFLOW	09/24/12	09/25/12	09/26/12	09/27/12	09/28/12	10/01/12	10/02/12	10/03/12	10/04/12	10/05/12	10/09/12	10/10/12	10/11/12
5			12-13 FSP	11-12 FSP		BW								No Draw
6	BEGINNING BALANCE	1,322,944	1,636,041	1,676,325	1,601,737	1,707,068	1,554,837	1,382,491	(8,348,656)	(9,571,313)	(12,858,596)	(37,227,000)	(37,358,223)	(32,176,8
7	Cash Inflows:													
8	Commercial Deposits	144,779	67,159	91,832	10,770	45,113	19,980	43,464	8,312	76,017	204,419	80,791	100,079	156,7
9	JROTC							0	0	0	0	0	0	0
10	Medicaid				1,616			0	0	0	404	0	0	0
11	Other							0	0	0	0	0	0	0
12	Special Revenue			116,787				95,000	0	0	0	5,604	0	38,5
13	Sweep In (and Fund Balance for forecast)													
14	Tax Revenue	36,336	78,774	41,006	47,954	272,975	92,129	55,751	0	185,739	283,504	49,918	63,434	206,6
15	Tax Revenue-WHISD	316	0	29	41			2,710	0	1,216	0	0	1,972	
16	Foundation School Program		110,561,914					0	0	0	0	0	0	0
17	Available School Funds		4,569,789					0	0	0	0	0	0	0
18	TEA Including TX Comptroller Spec Rev	530,420	1,845,310	9,098	5,909,873		70,968	302,688	95,496	101,622	227,154	16,894	887,653	6,5
19	Trans fr Other Bank Accounts	152		808		171,136		0	0	0	1,351	964	0	0
20	Trans fr Federal Fund (Food Services)	27,707	20,016	26,891	30,684	37,554		28,262	32,577	27,577	30,709	28,776	48,999	32,7
21	Trans fr Non-Genl Fund MM or Pools or Flex		46,588					0	0	0	0	0	0	0
22	Transfer from Bond Funds (Expense Reimb's)	6,005,884					12,157,844	0	0	0	0	Monday HOL >	11,300,512	
23	Trans fr BOA GF MM-Genl Fund	1,300,000		1,500,000										
24	Trans fr BOA GF PMA					3,500,000	12,000,000							
25	Trans fr Texas Term Gen Fund													
26	Trans fr TexPool IP-Genl Fund													
27	Trans fr Texas CLASS IP-Genl Fund													
28	Trans fr LOGIC IP-Genl Fund													
29	Trans fr Lone Star IP-Genl Fund													
30	Total Cash Inflows	8,045,594	117,189,550	1,786,450	6,000,938	4,026,778	24,340,922	527,875	136,386	392,169	747,540	182,946	12,402,649	441,2
31														
32	Cash Outflows													
33	Bank Fees & Supplies							0	0	7,988	0	0	0	0

CODE COVERAGE?



Global Economics

Companies & Industries

Politics & Policy

Technology

Markets & Finance

Innovation & Design

Lifestyle

Business Schools

Small Business

Video & Multimedia



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?

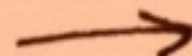
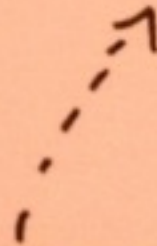
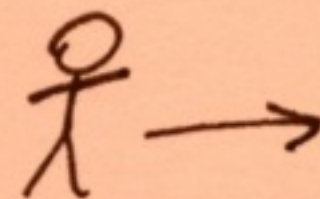
Reinhart and Rogoff wrote in their 2010 paper that average annual growth was negative 0.1 percent in countries with episodes of gross government debt equal to 90 percent or more of GDP between 1945 and 2009. Liberal economists have been critical of their work for years (just economists being their usual 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



SKETCHING READ MODEL ARTIFACTS

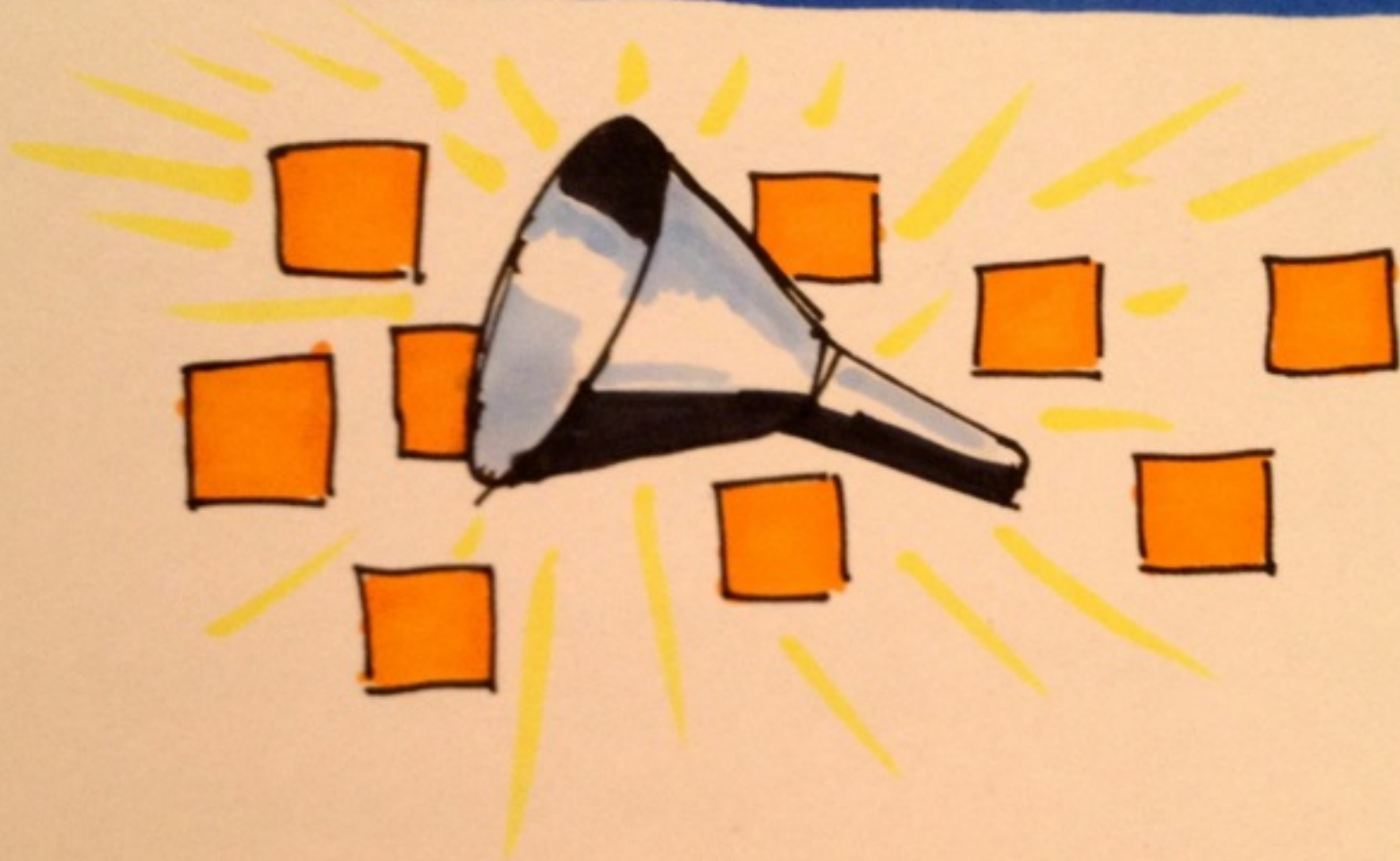
- SOME SCENARIOS REQUIRE A WELL DEFINED SET OF INFORMATION TO BE DISPLAYED TO THE USER





**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
EVENTSTORING?**



**WHAT ABOUT
REMOTE
TOGA PARTY?**



OK, SERIOUSLY

WRAPPING UP

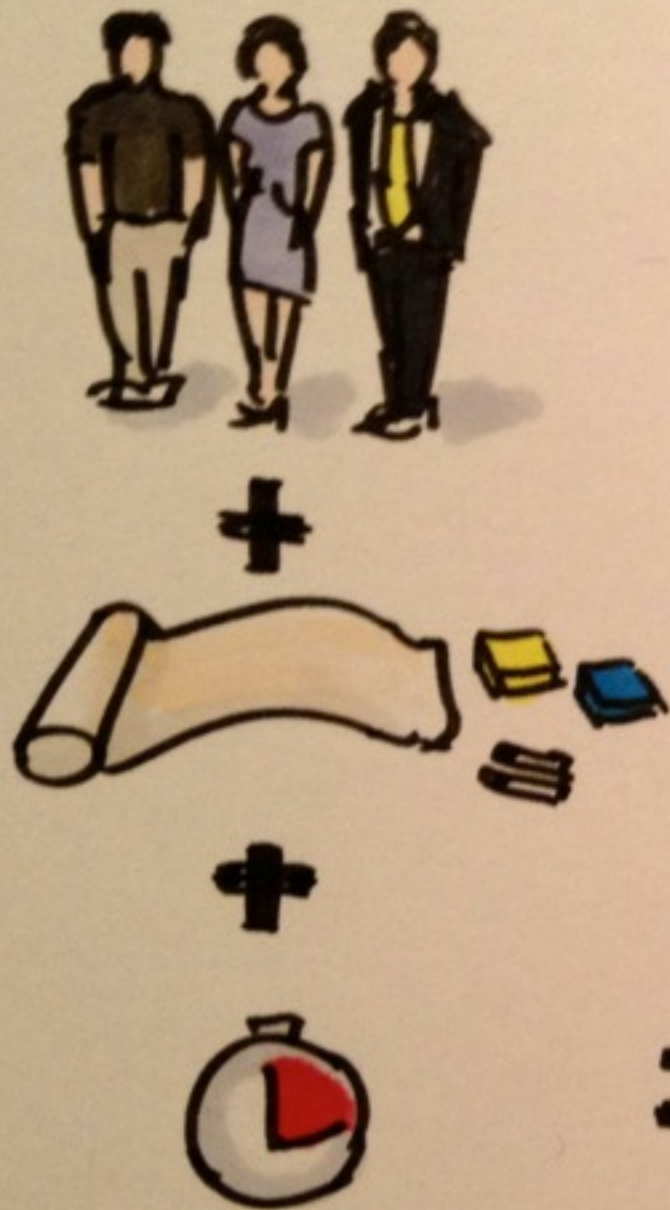
THROW AWAY MODEL

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

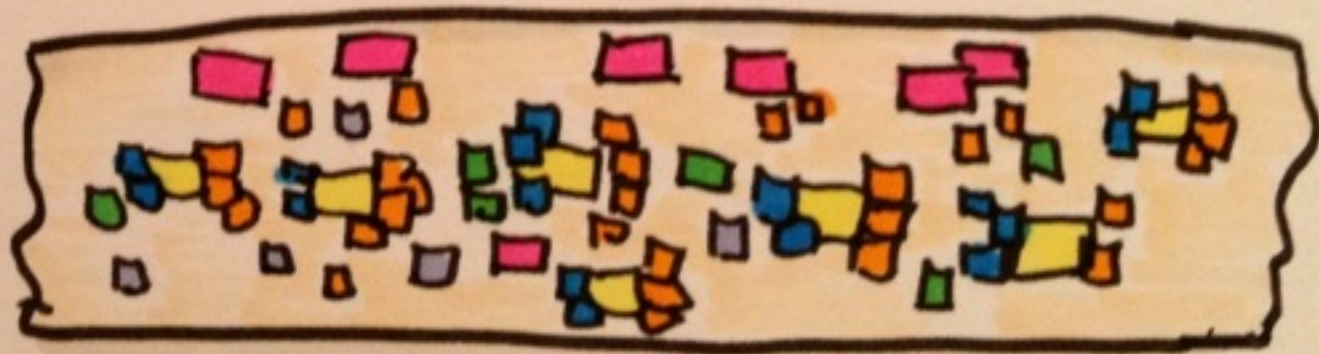
BUT...

**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....

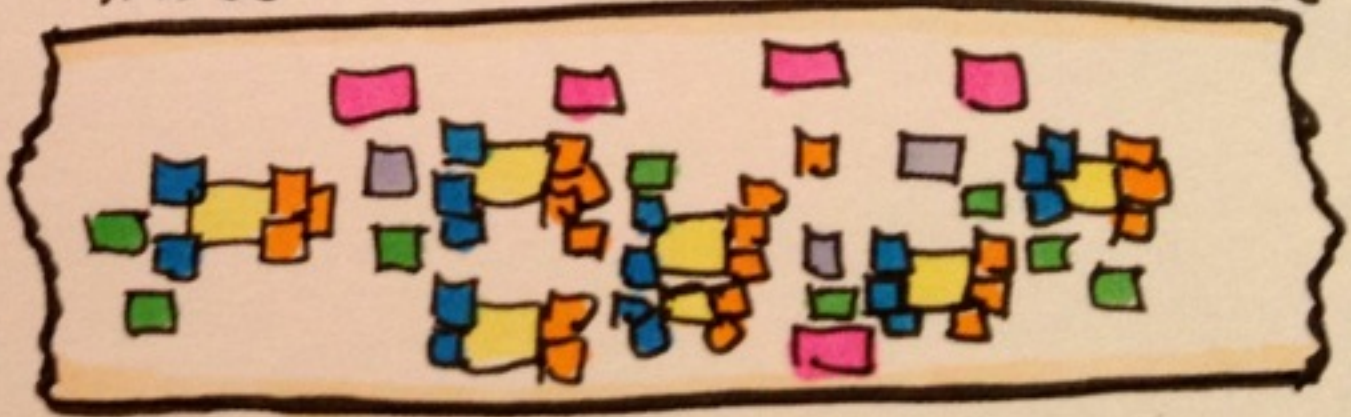
**EVENT
STORMING**



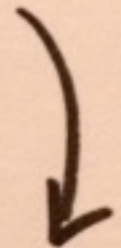
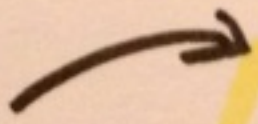
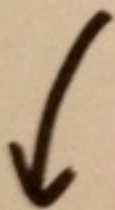
INSIGHTS

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

IMPLEMENTATION-FRIENDLY MODEL

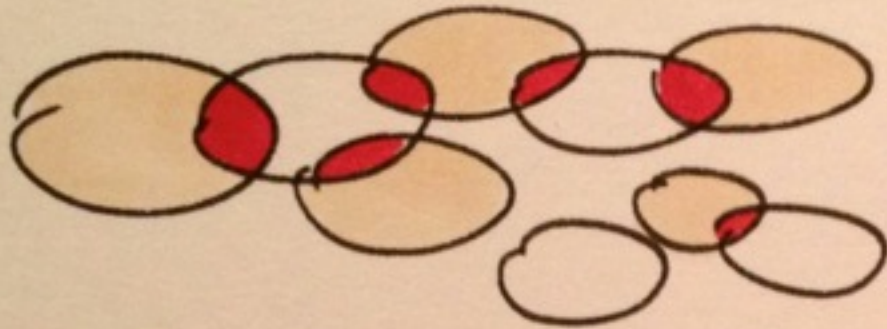


SHARED
KNOWLEDGE



WHAT REALLY HAPPENS IN AN EVENT STORMING

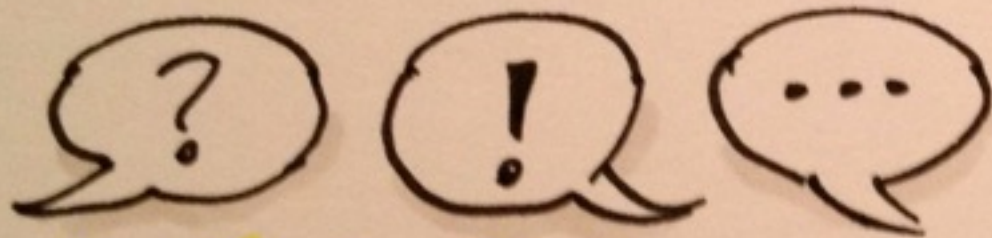
&



CONFLICTS AND
POTENTIAL OVERLAPPIINGS
ARE HIGHLIGHTED



CAN FINALLY SEE
THE **BIG** PICTURE

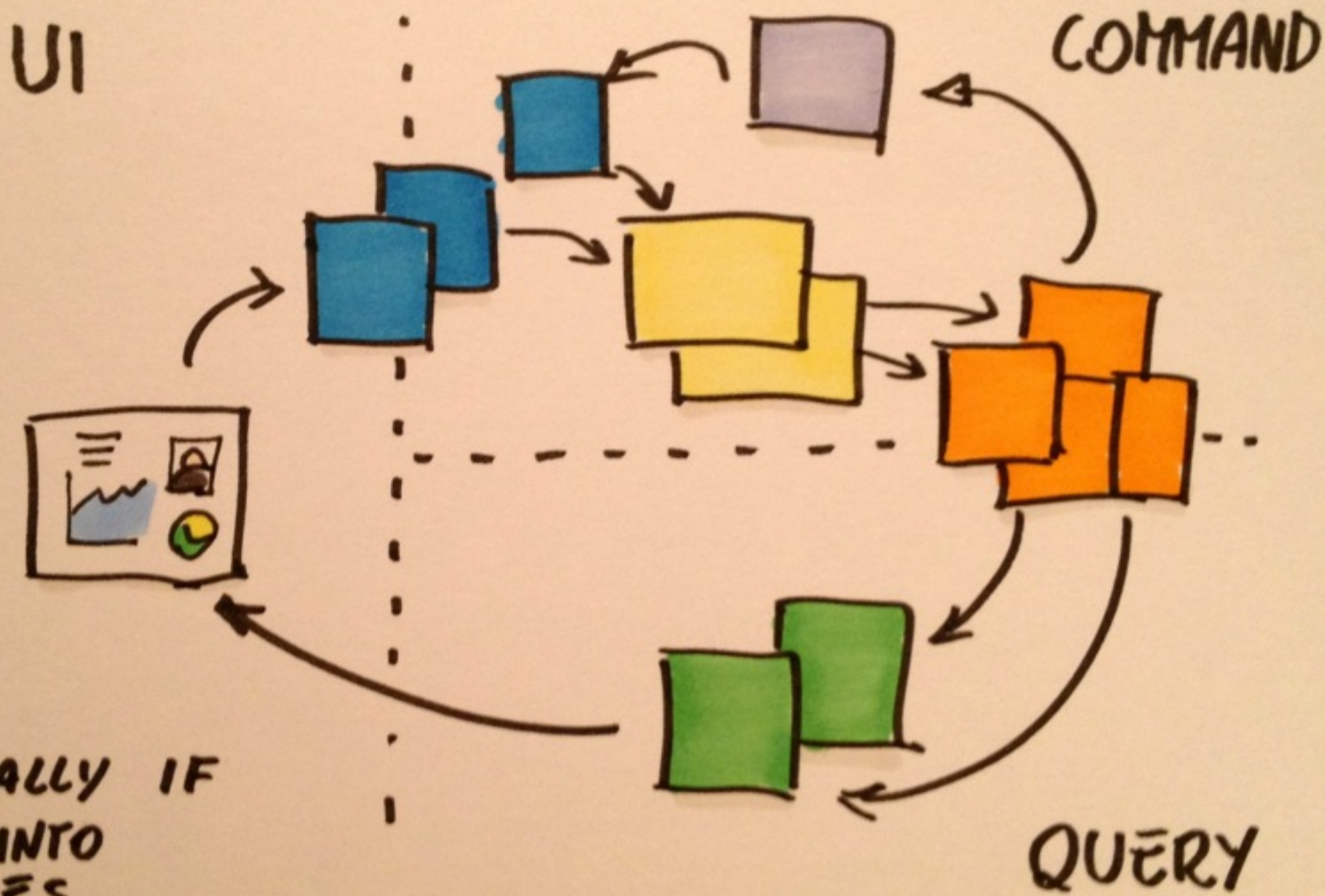


CONVERSATIONS
CAN (FINALLY) HAPPEN



AND **IDEAS** ARE
POPPING OUT

EVENTSTORMING IS IMPLEMENTATION FRIENDLY



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

**CREATIVE
COLLABORATION**



**WEANINGFUL
CONVERSATION WITH
DOMAIN EXPERTS?**



experts help us
to understand

and we help
them





CHOOSE YOUR ROLE



**FIND AN
OBSERVATION POINT**

**WODEL
STORWING?**



**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)