@hschwentner

#DomainStorytelling

WPS presenting

Domain Storytelling

A Henning Schwentner Talk

Starring

ACTORS AND ACTIONS

With

WORK ITEMS as AGGREGATES

Directed by **DOMAIN EXPERTS**

Written by **REAL LIFE**

NC-17 NO ONE 17 AND UNDER ADMITTED

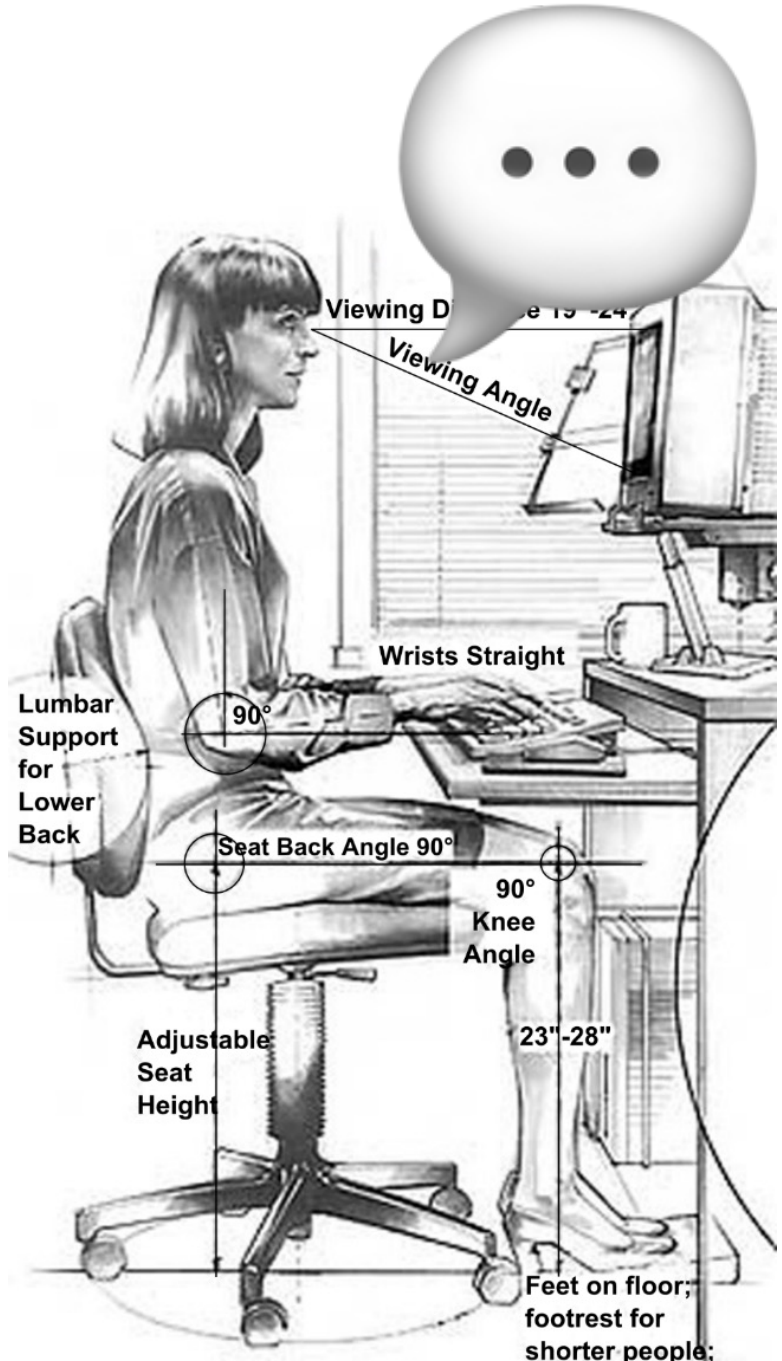
FSK ab 18

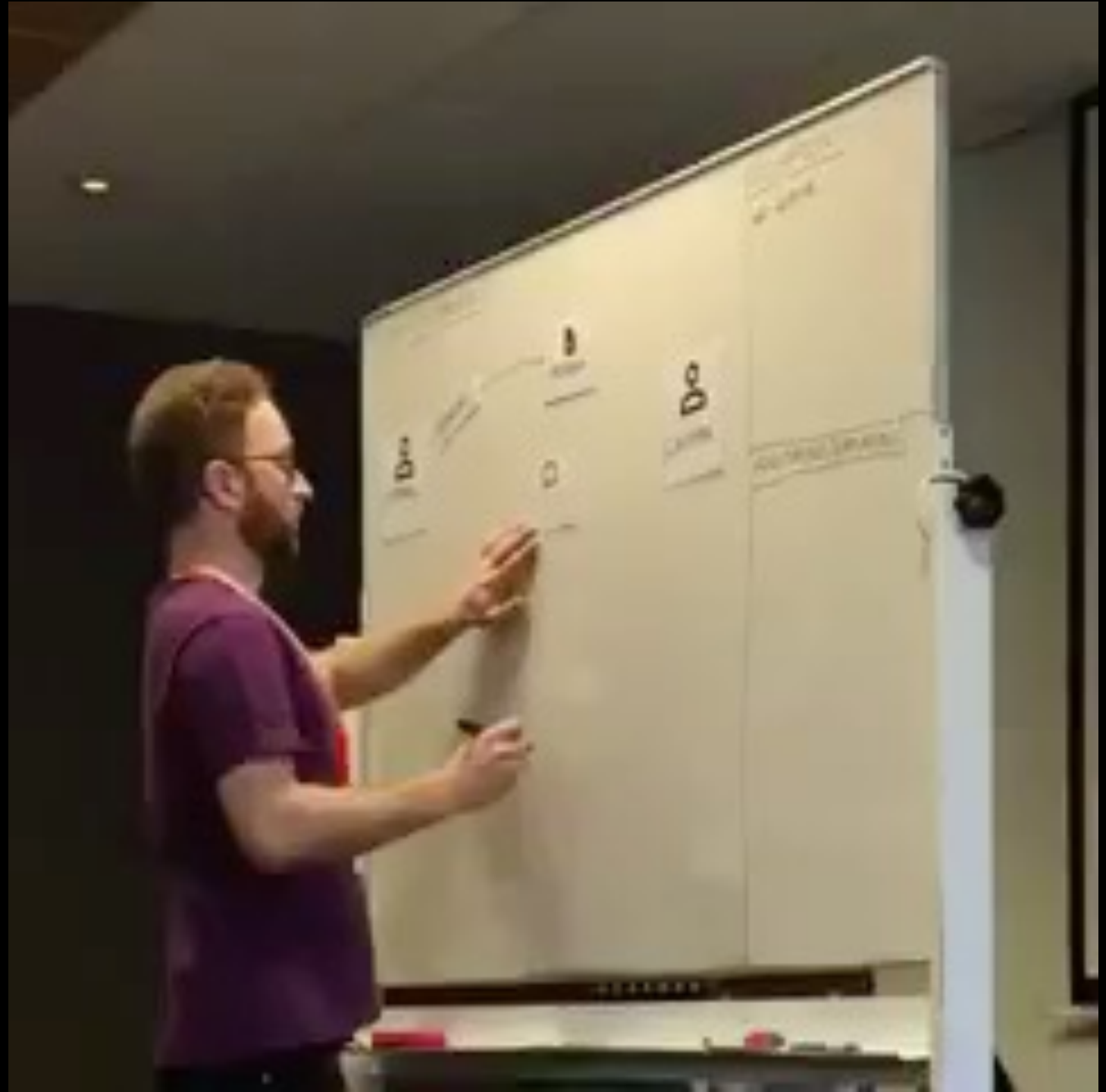
Metro Goldwyn Lolcat

@hschwentner

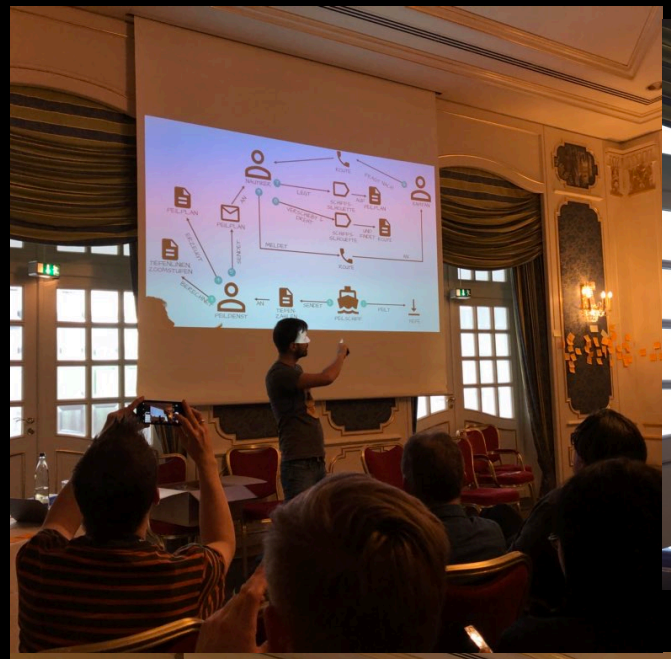
Foto: Rameessos/Wikipedia

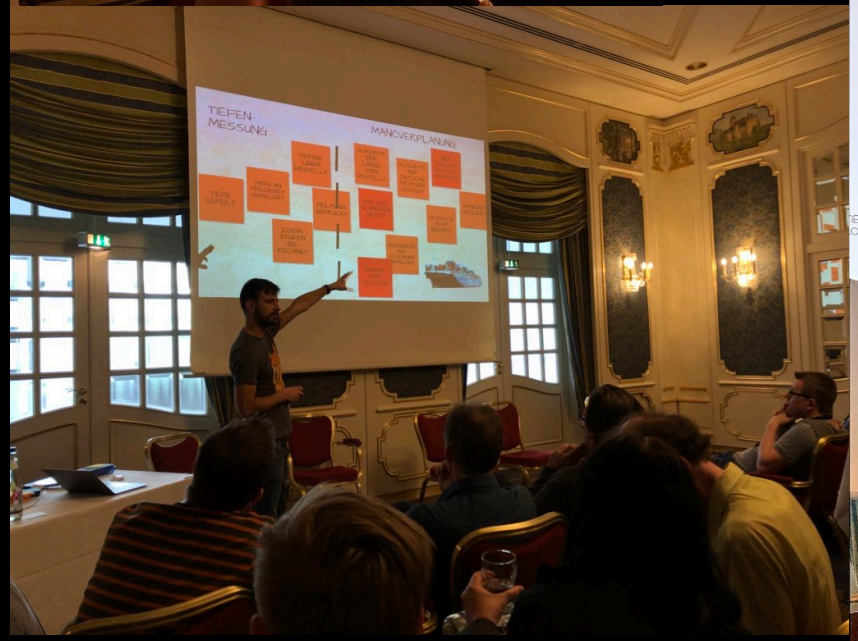
Spark a fire 🔥
Tell a story 💬
Paint a picture 🖌️

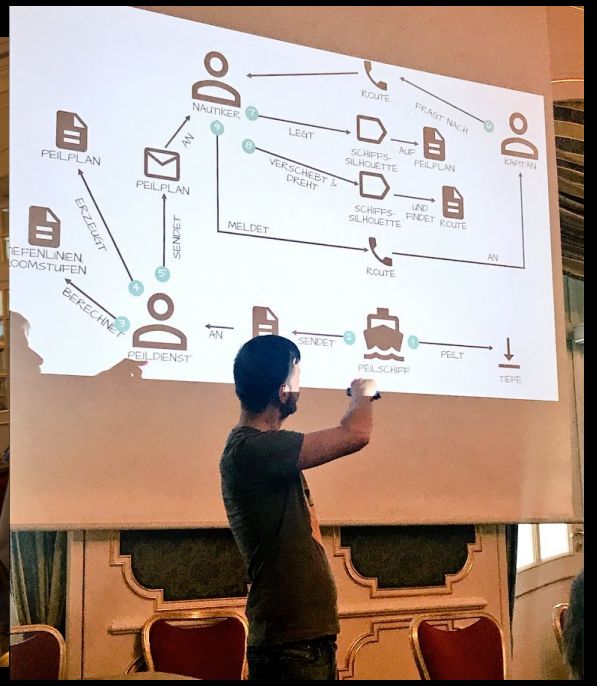

Viewing Angle
Wrists Straight
Lumbar Support for Lower Back
90°
Seat Back Angle 90°
90° Knee Angle
Adjustable Seat Height
23"-28"
Feet on floor; footrest for shorter people;



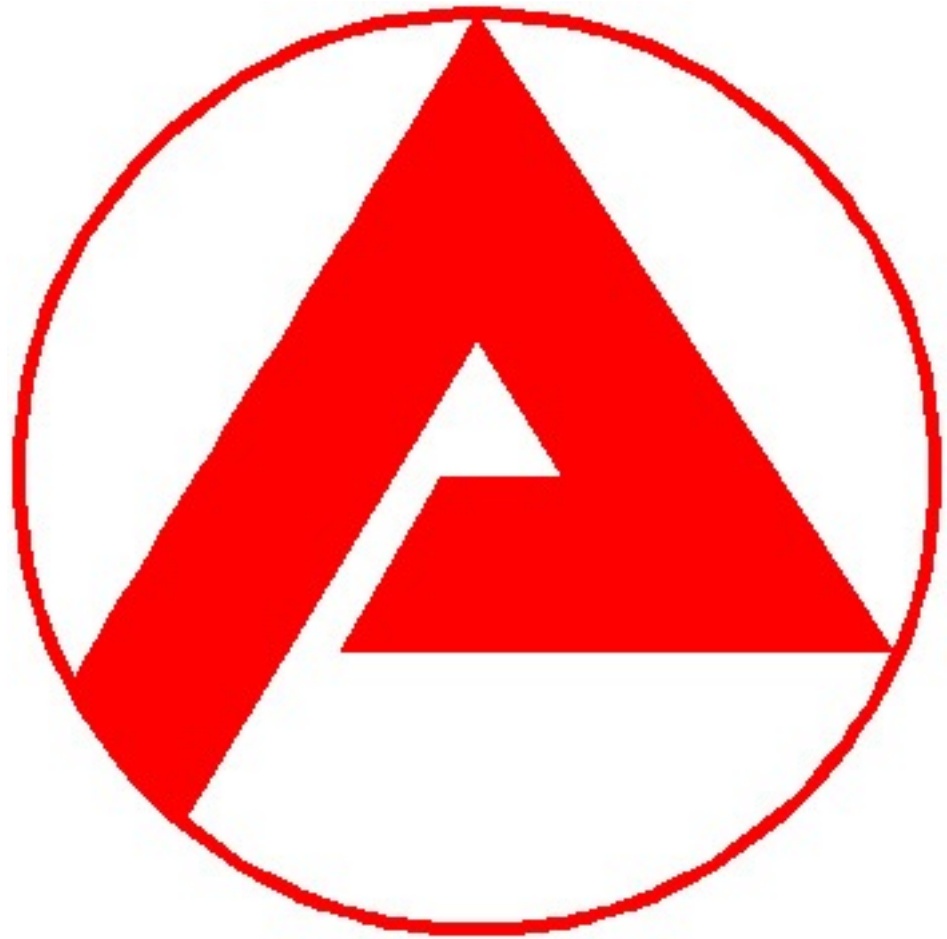
THE NAME OF THIS SPEAKER IS HENNING SCHWENTNER







LIVE 45 MIN TALK



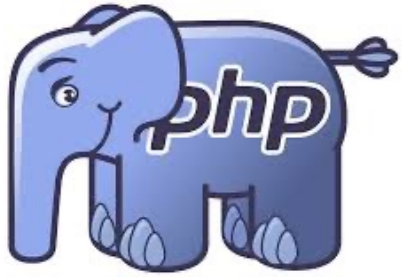
C++

Java

TS

THE
C
PROGRAMMING
LANGUAGE

C#

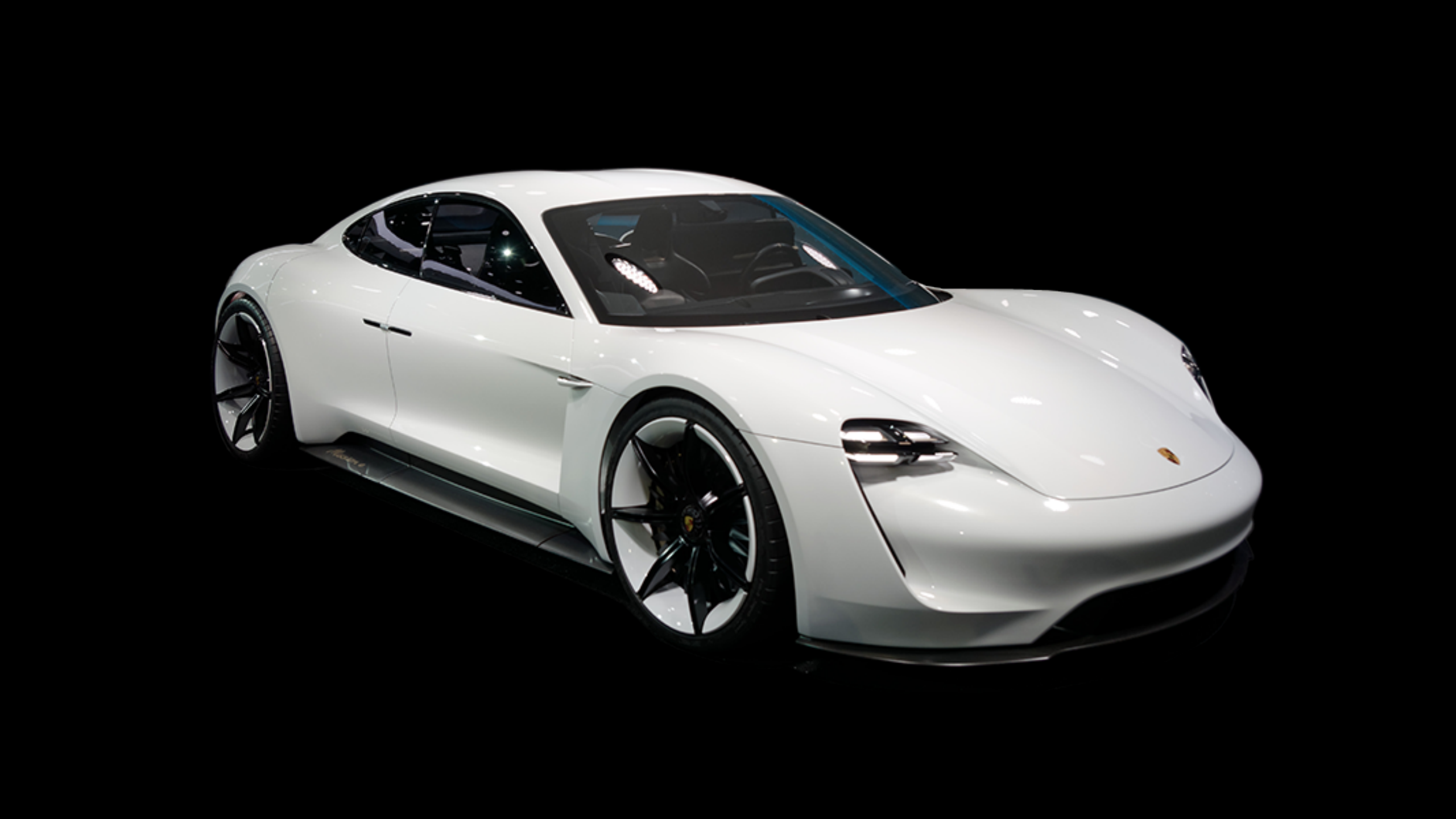

php

python

Swift

ABAP

WPS
WORKPLACE
SOLUTIONS

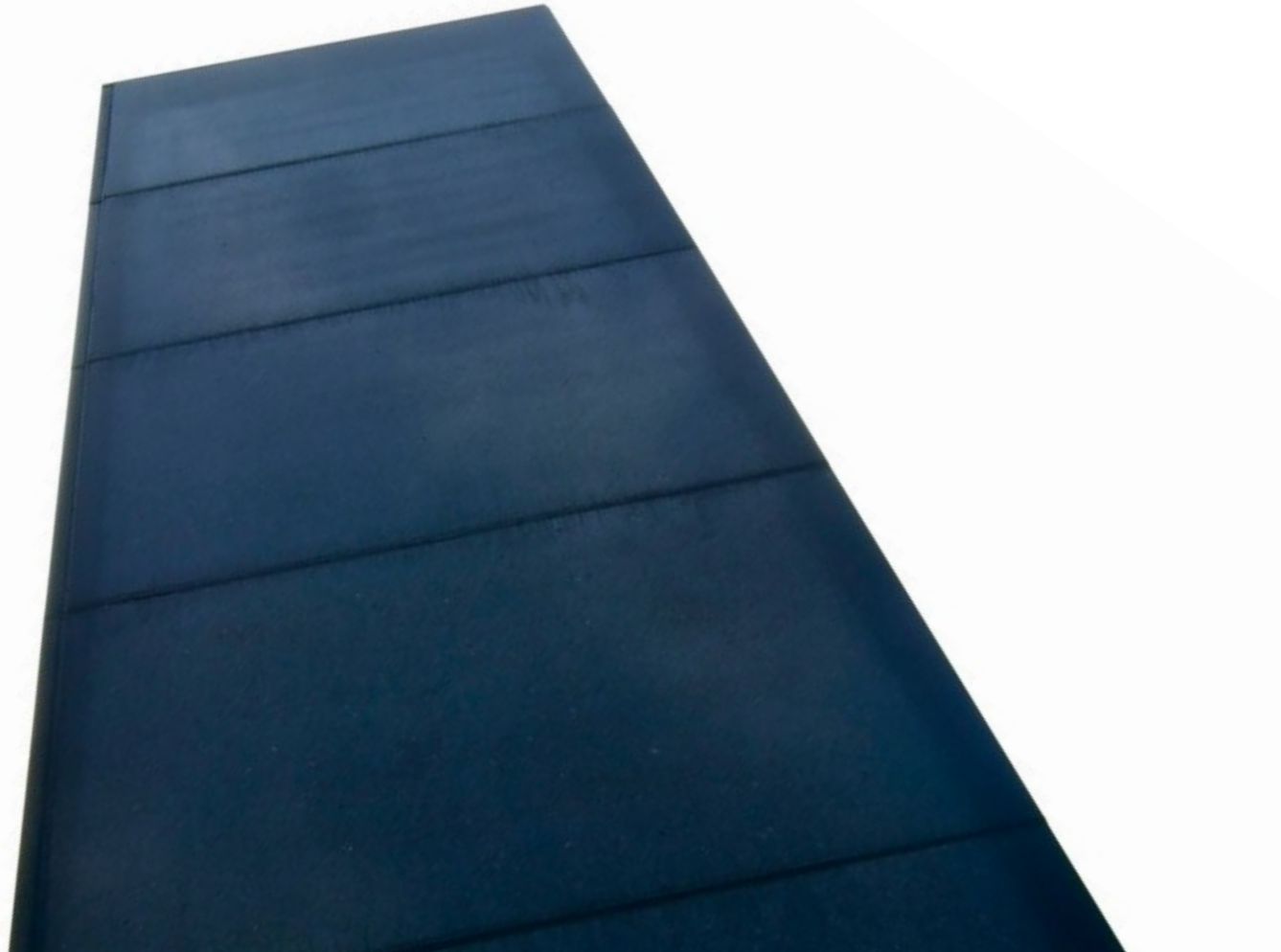


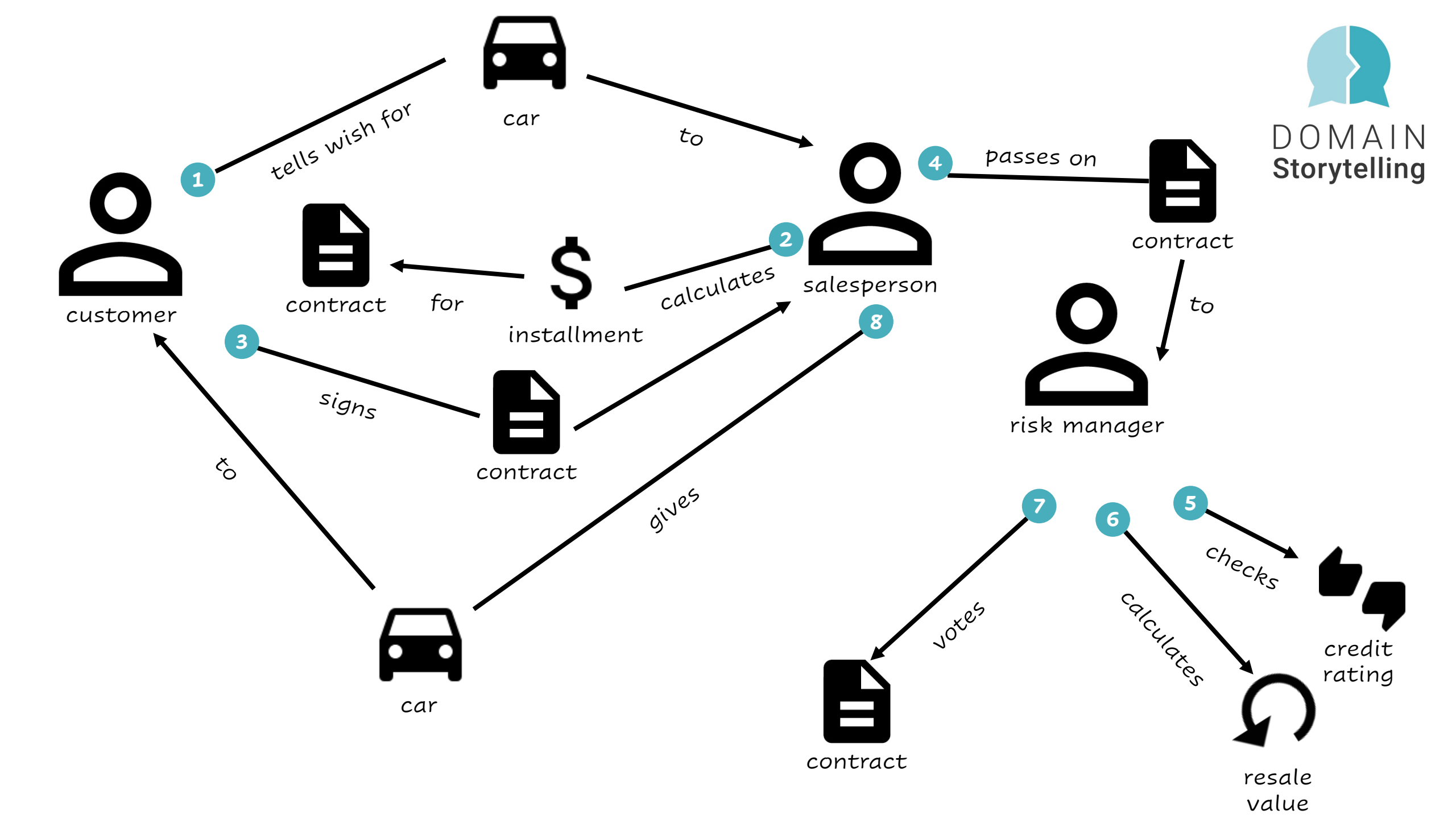
Do I get a car for this?

NO WAY!

LEASING

Monolease




DOMAIN
Storytelling
car
1
tells wish for
to
customer
salesperson
2
calculates
contract
for
installment
$
4
passes on
contract
to
risk manager
3
signs
contract
8
gives
to
car
7
votes
contract
6
calculates
5
checks
credit
rating
resale
value

Explained

COLLABORATIVE MODELING

Domain
Expert

Developer

Knowledge crunching

gifbin.com

Methods

User Story Mapping

EVENT STORMING
3x
gratis
Post-it

DOMAIN Storytelling

http://www.domainstorytelling.org

Domain Storytelling = Pictographic Language + Workshop Format

@hschwentner

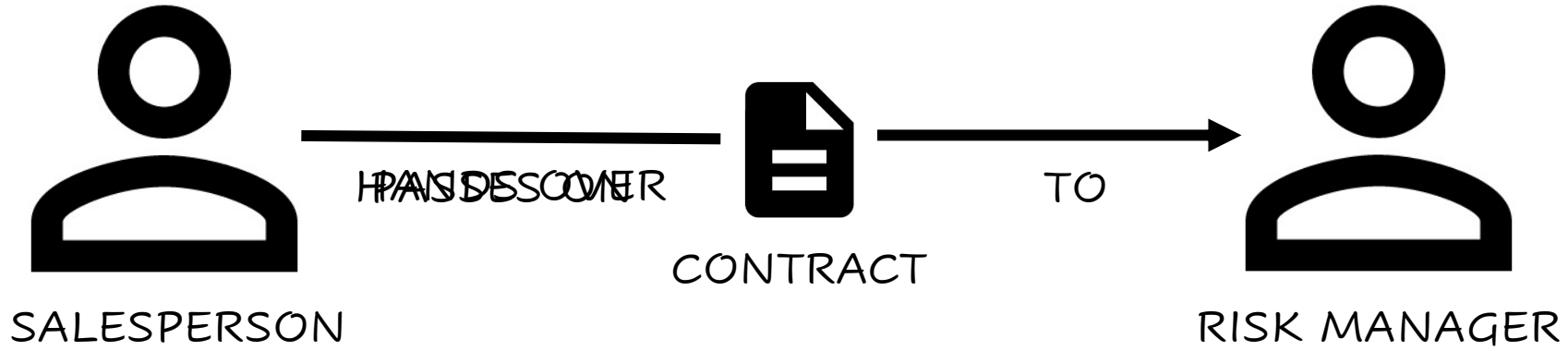
The Workshop Format

The right people

Storyteller
Listeners

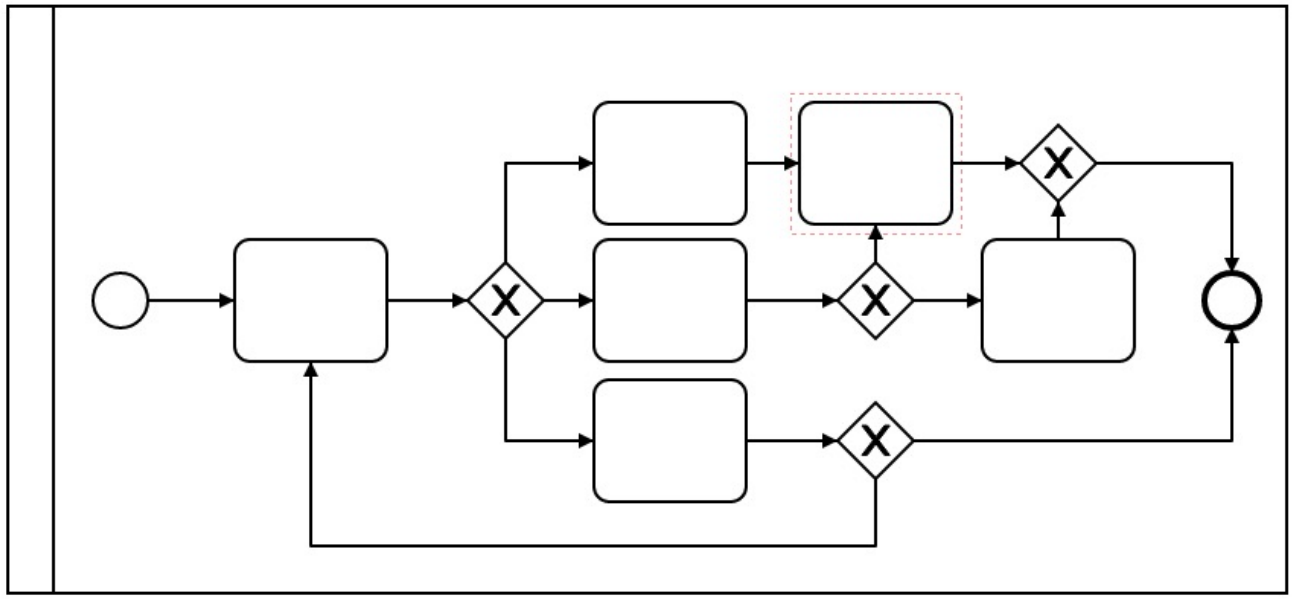
MILDRED LYON

“The salesperson passes on the contract to the risk manager”



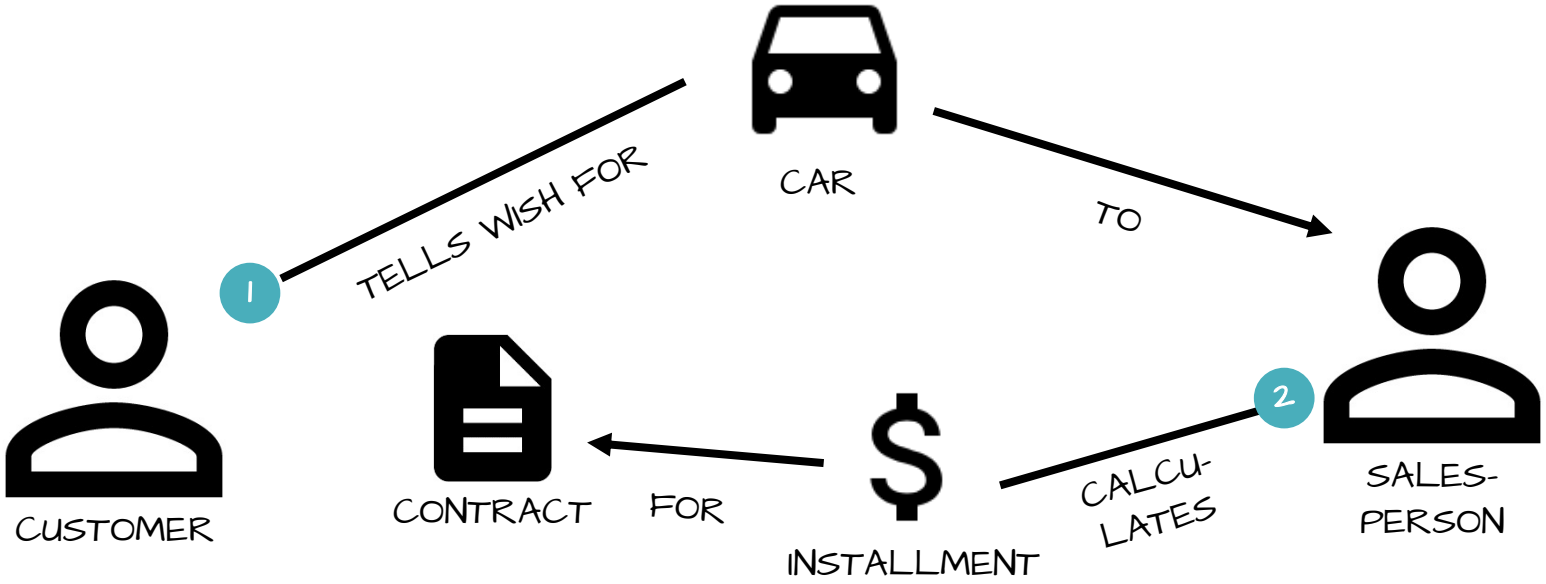
Active Listening

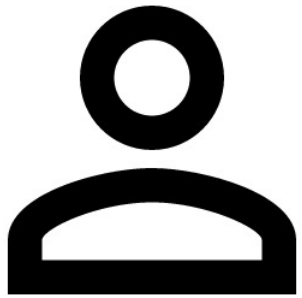
CONCRETE STORIES VS. ABSTRACT PROCESSES



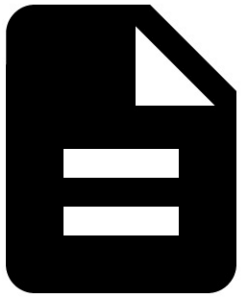
The Pictographic Language

@hschwentner


1
TELLS WISH FOR
CAR
TO
CUSTOMER
CONTRACT
FOR
INSTALLMENT
2
CALCU-
LATES
SALES-
PERSON



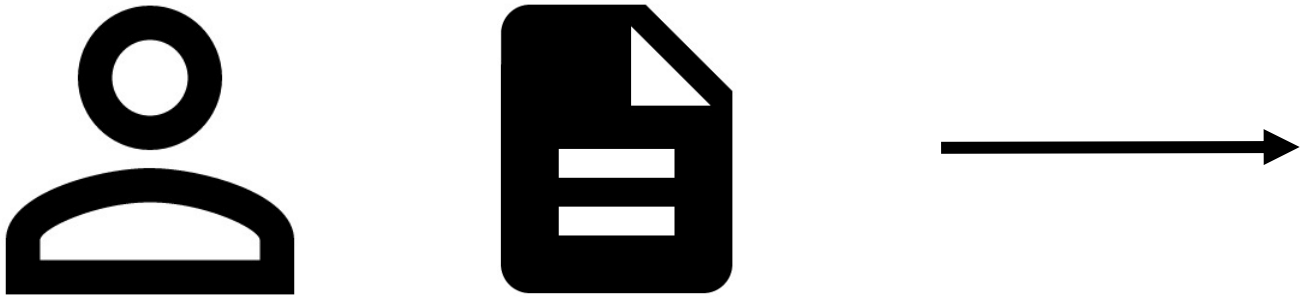
actor



work object

activity

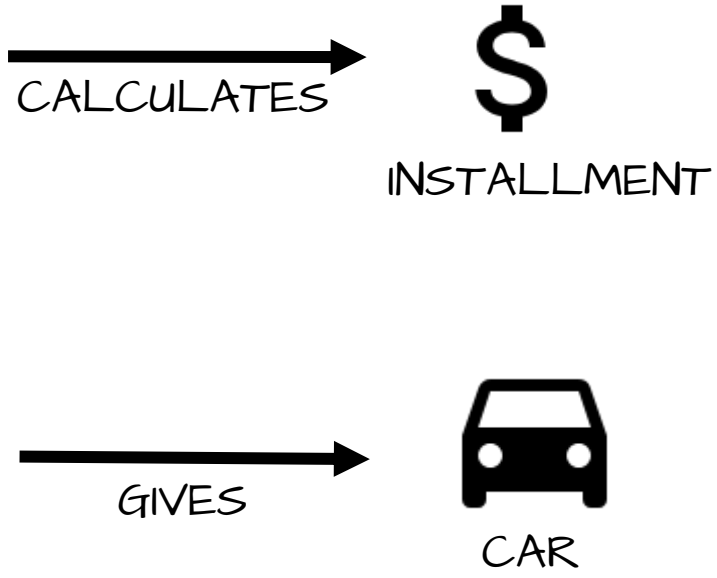
sequence number



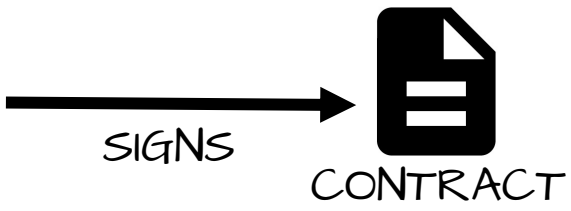
risk manager

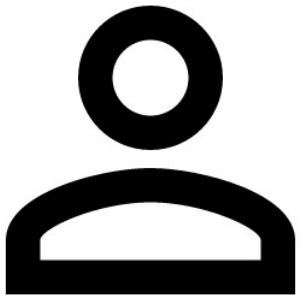
contract

votes

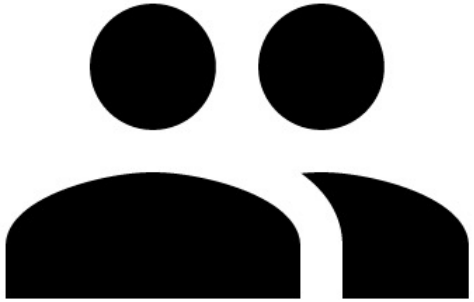

CALCULATES
$
INSTALLMENT
GIVES
CAR

PASSES ON
CONTRACT

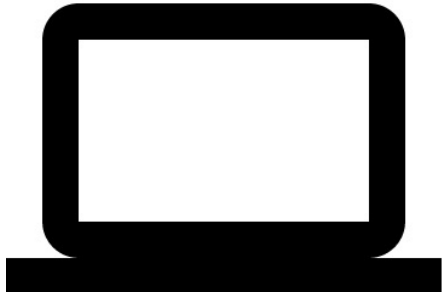

SIGNS
CONTRACT



person

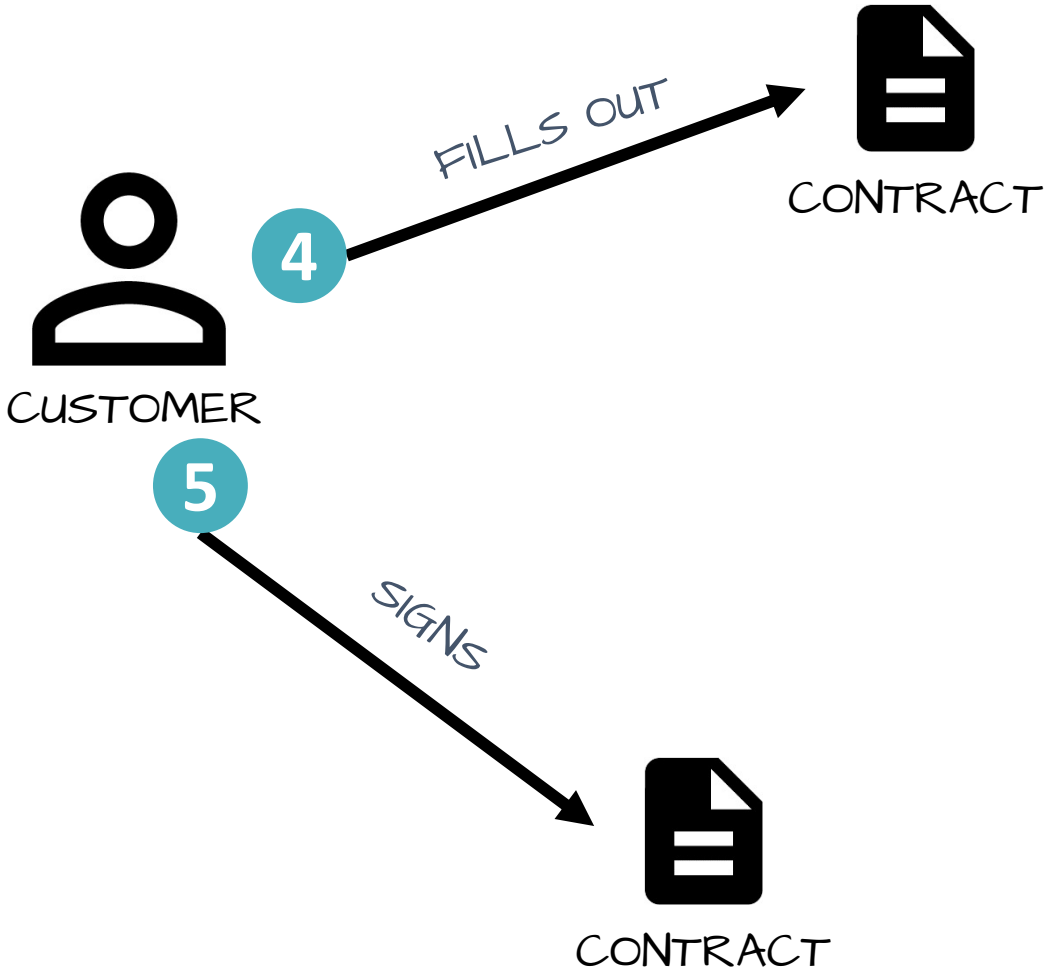


group



IT system

ACTORS ONCE/
WORK OBJECTS SEVERAL TIMES



Name of the Domain Story

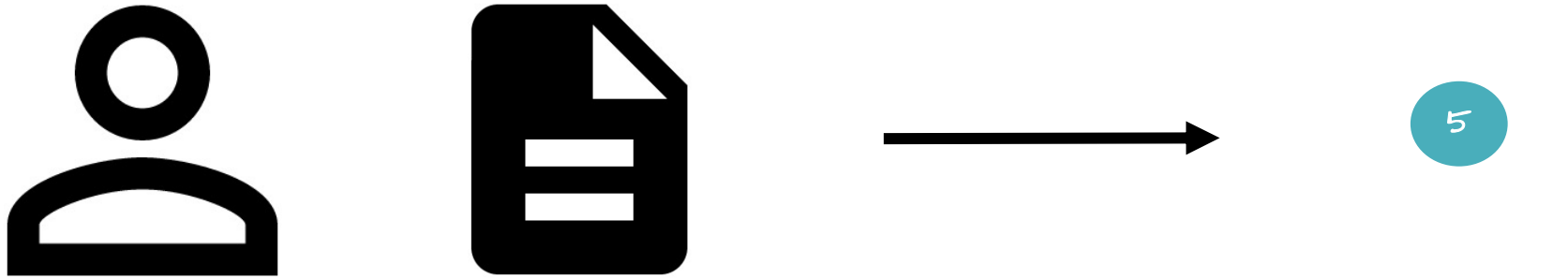
←Draw here

Leave some empty space there →

Preconditions, assumptions, and triggers

Annotations, variations, and purpose

PICTOGRAPHIC LANGUAGE – NO IF/SWITCH/OR



actor work object activity sequence number

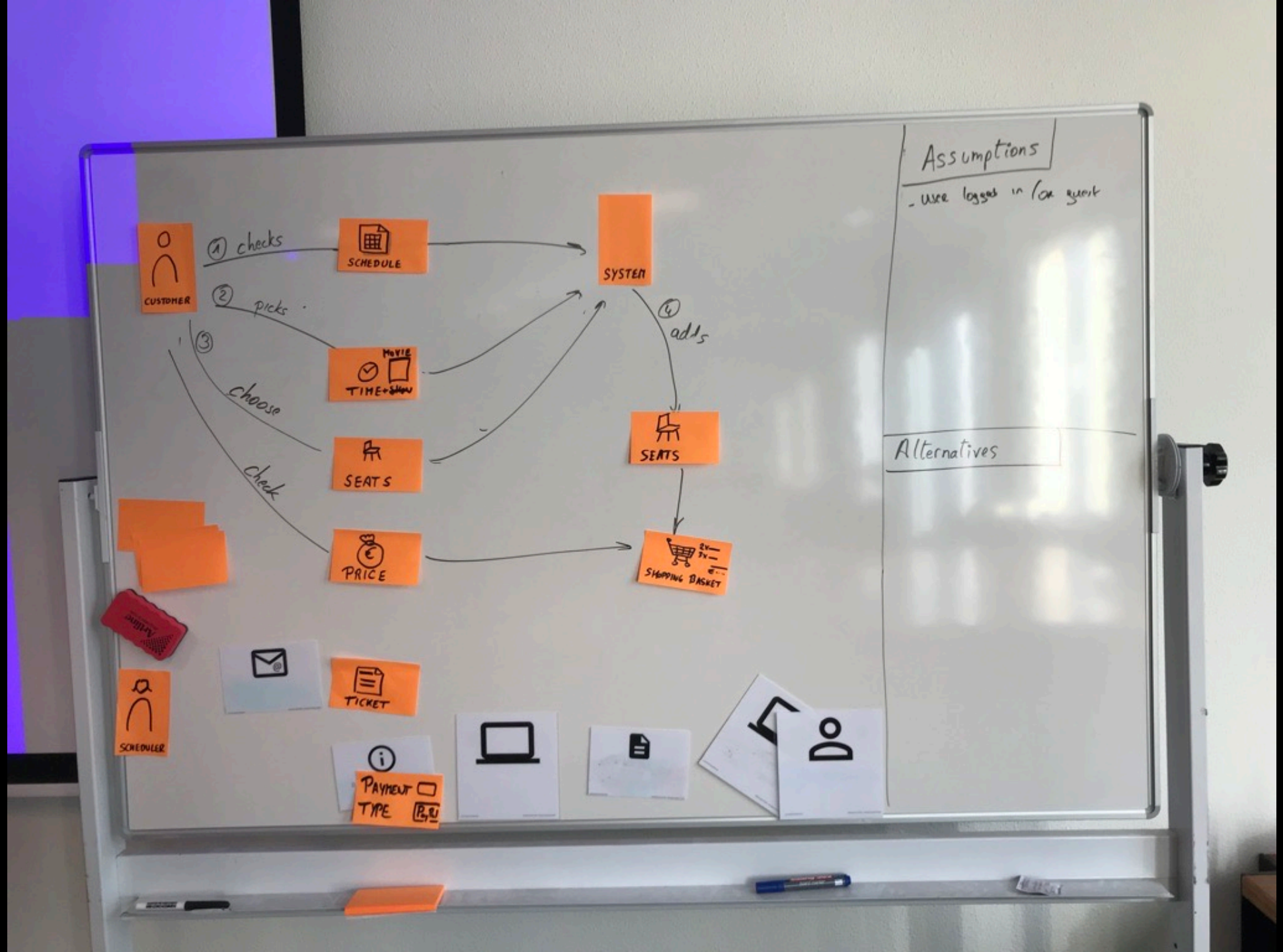
Scenario-based modeling

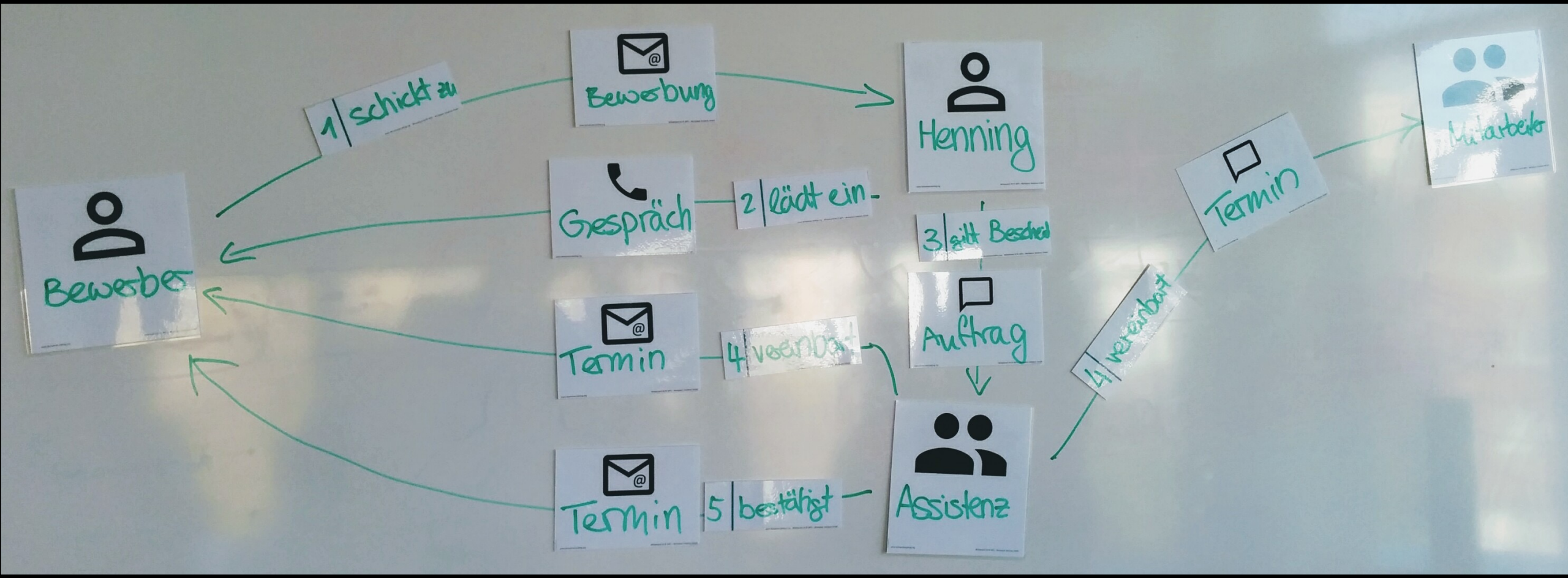
Scope Factors

Granularity
Point in time: as-is vs. to-be
Domain Purity: pure vs. digitalized

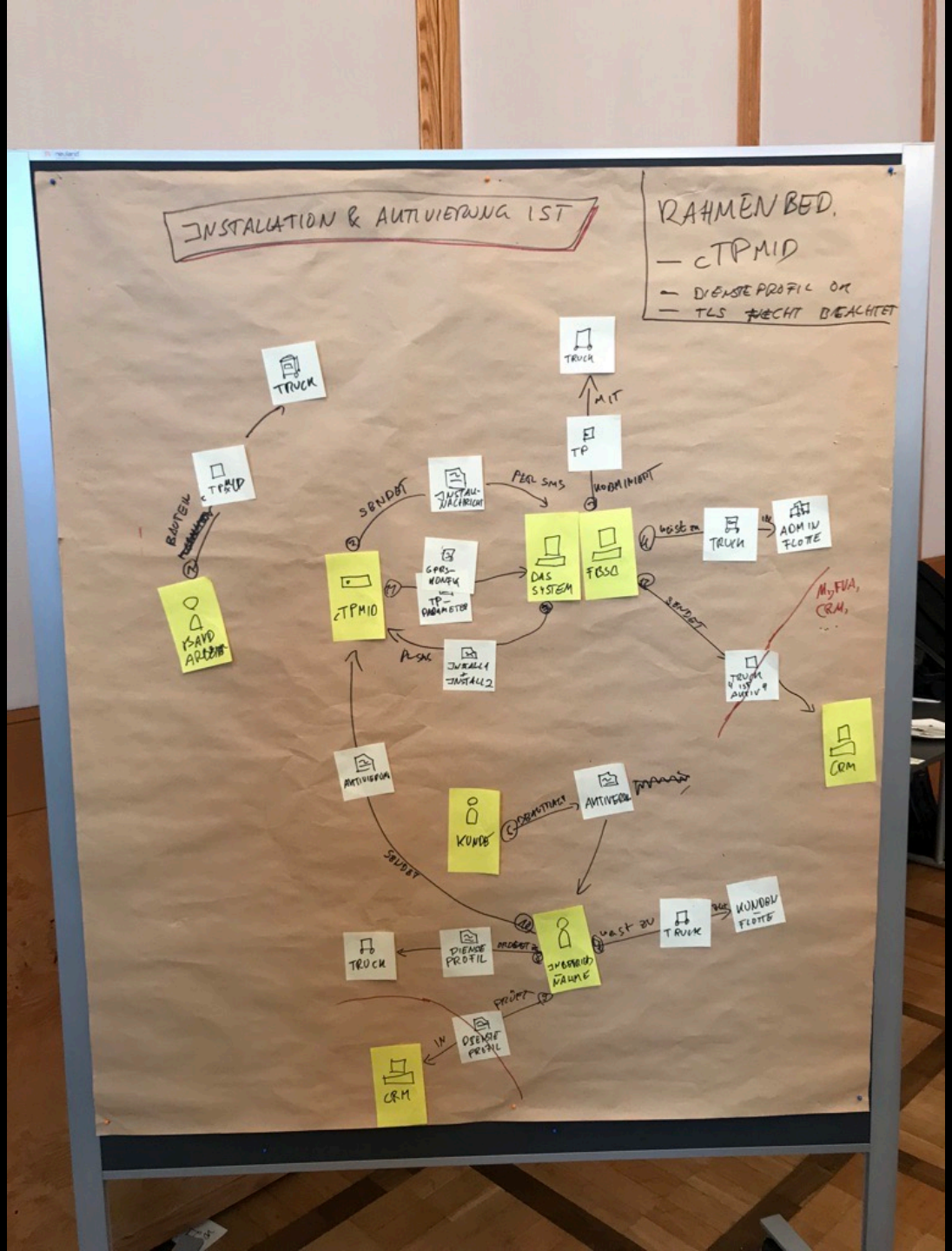
Tools

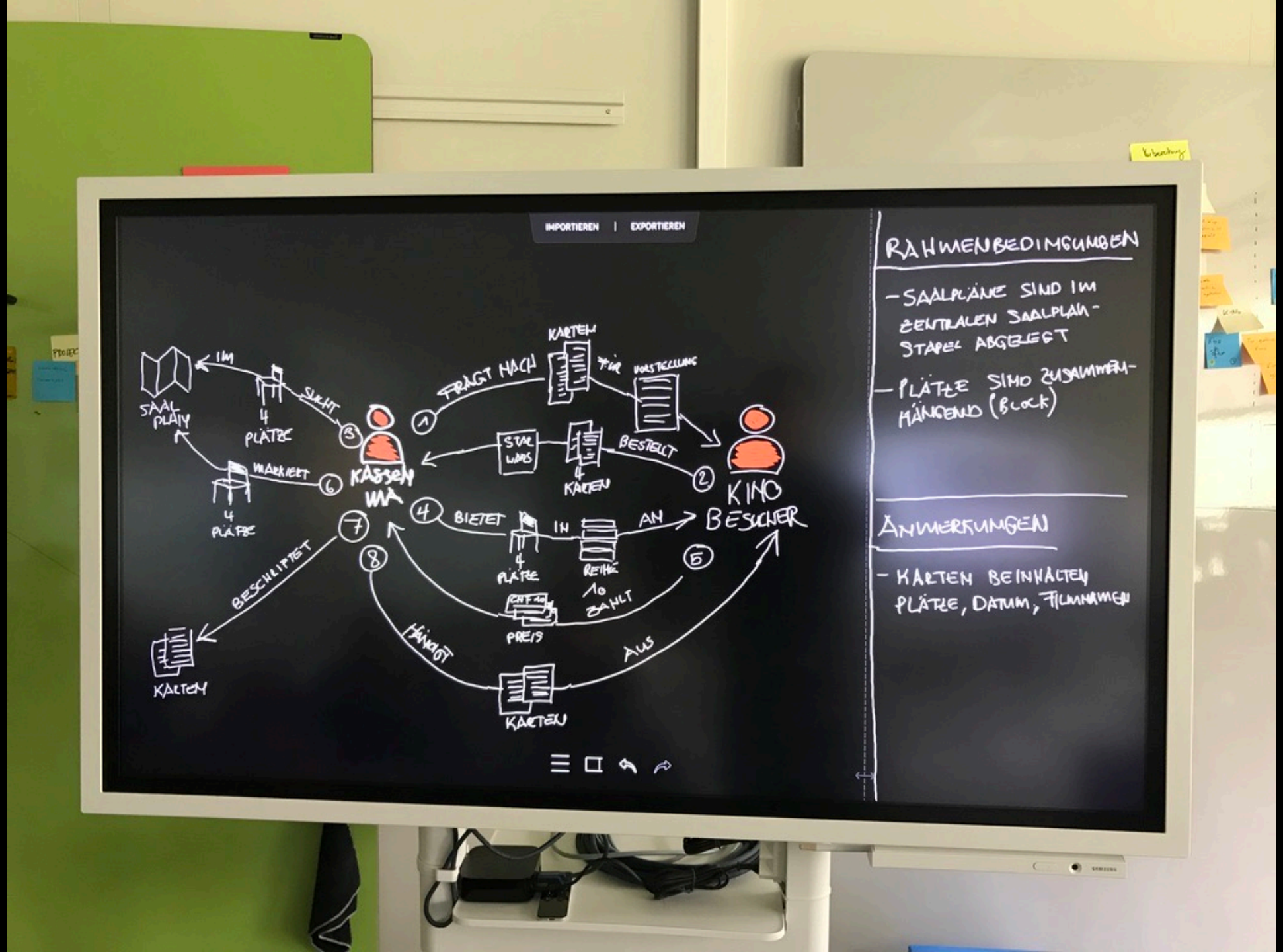
https://egon.io

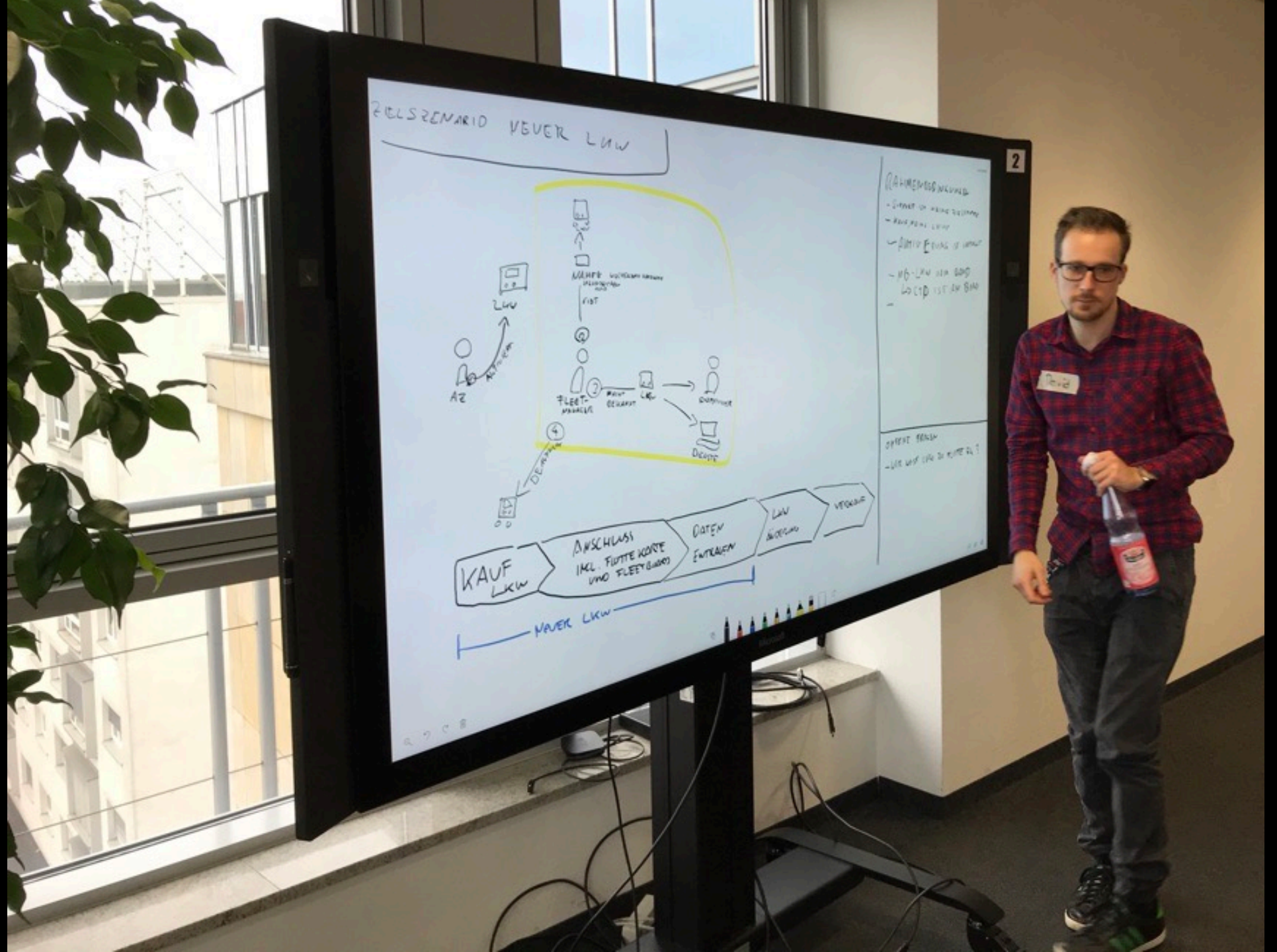

Assumptions
- user logged in for guest
Alternatives
CUSTOMER
1 checks
SCHEDULE
SYSTEM
2 picks
4 adds
3 choose
MOVIE
TIME+SHOW
SEATS
SEATS
check
PRICE
SHOPPING BASKET
SCHEDULER
TICKET
PAYMENT TYPE

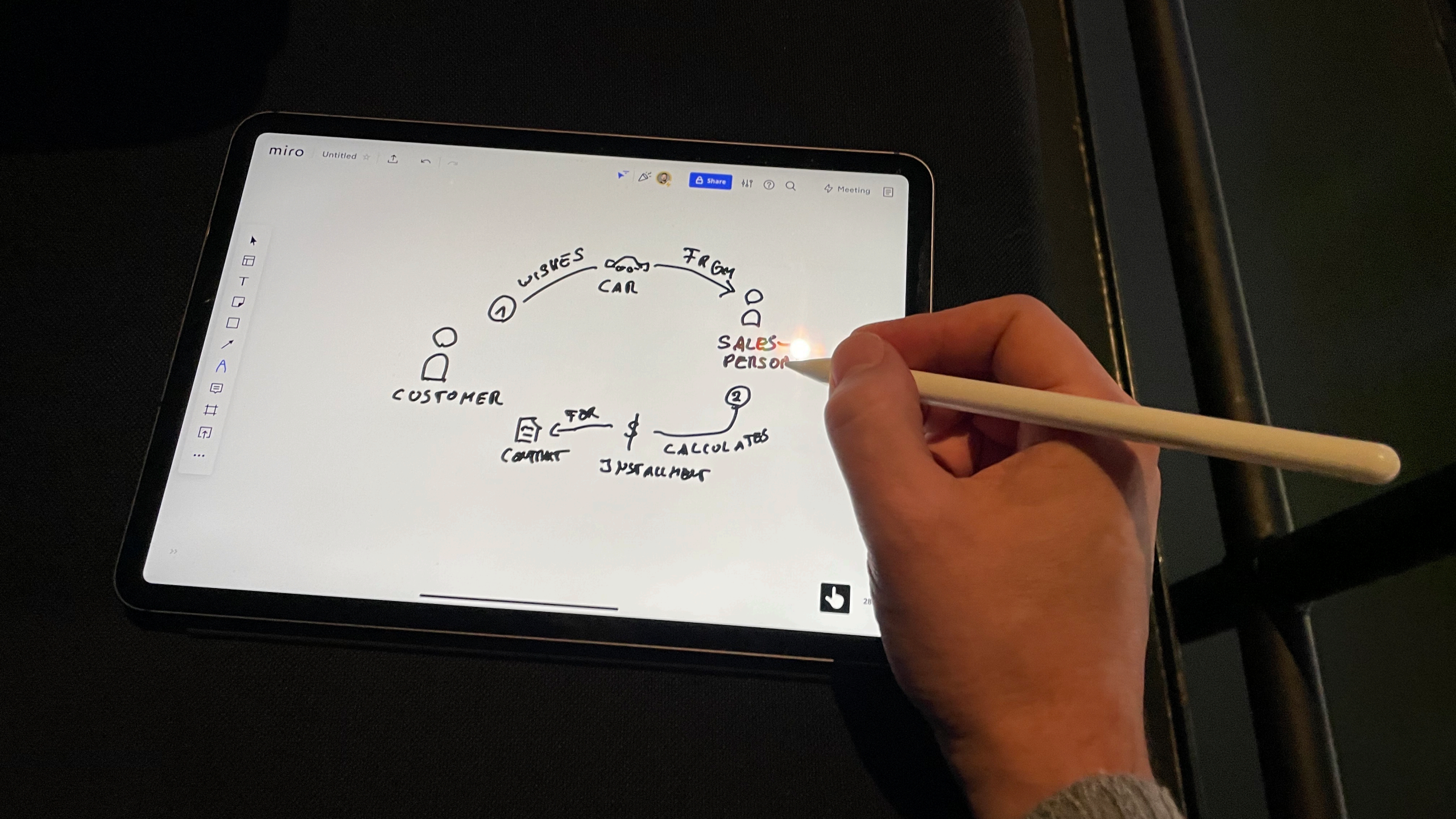


Whiteboard Kit (www.domainstorytelling.org)


INSTALLATION & AKTIVIERUNG IST
RAHMENBED.
— cTPMID
— DIENSTEPROFIL OK
— TLS NECHT BEACHTET
TRUCK
TRUCK
MIT
TP
TPMID
BAUTEIL
SENDET
INSTALL-NACHRICHT
PERL SMS
KOMMUNIZIERT
TRUCK
ADMIN FLOTTE
cTPMID
GPRS-KONFIG
TP-PARAMETER
DAS SYSTEM
FBSC
SENDET
My FVA, CRM, ...
INSTALL1 + INSTALL2
CRM
AKTIVIERUNG
KUNDE
AKTIVIERUNG
SENDET
TRUCK
DIENSTE PROFIL
TRUCK
KUNDEN FLOTTE
PRÜFT
DIENSTE PROFIL
IN
CRM


IMPORTIEREN | EXPORTIEREN
SAAL PLAN
IM
SUCHT
4 PLÄTZE
MARKIERT
4 PLÄTZE
KASSEN MA
FRAGT NACH
KARTEN
FÜR
VORSTELLUNG
STAR WARS
4 KARTEN
BESTELLT
KINO BESUCHER
BIETET
4 PLÄTZE
IN
REIHE
AN
10
ZAHLT
PREIS
BESCHLIFTET
KARTEN
HÄNDIGT
AUS
KARTEN
RAHMENBEDINGUNGEN
- SAALPLÄNE SIND IM ZENTRALEN SAALPLAN-STAPEL ABGELEGT
- PLÄTZE SIND ZUSAMMENHÄNGEND (BLOCK)
ANMERKUNGEN
- KARTEN BEINHALTEN PLÄTZE, DATUM, FILMNAMEN


ZIELSZENARIO NEUER LKW
2
LKW
AZ
FLEET-
KAUF
LKW
ANSCHLUSS
INKL. FLOTTE KARTE
UND FLEET
DATEN
EINHOLEN
NEUER LKW


miro
Untitled
Share
Meeting
WISHES
CAR
FROM
SALES-
PERSON
CUSTOMER
CALCULATES
INSTALLMENT
FOR
CONTRACT

Modes

Moderated

Smart
TAGEN & FEIERN
IN DEN ATLANTIC HOTELS
HERZLICH WILLKOMMEN
WELCOME
NOTIZEN

Co-op

Ticket
Ticket
Film

DEVOPSDAYS
Berlin 2015

Travel by train from city A to city B

Travel to this conference by train

@hschwentner

Purposes

learning Domain language

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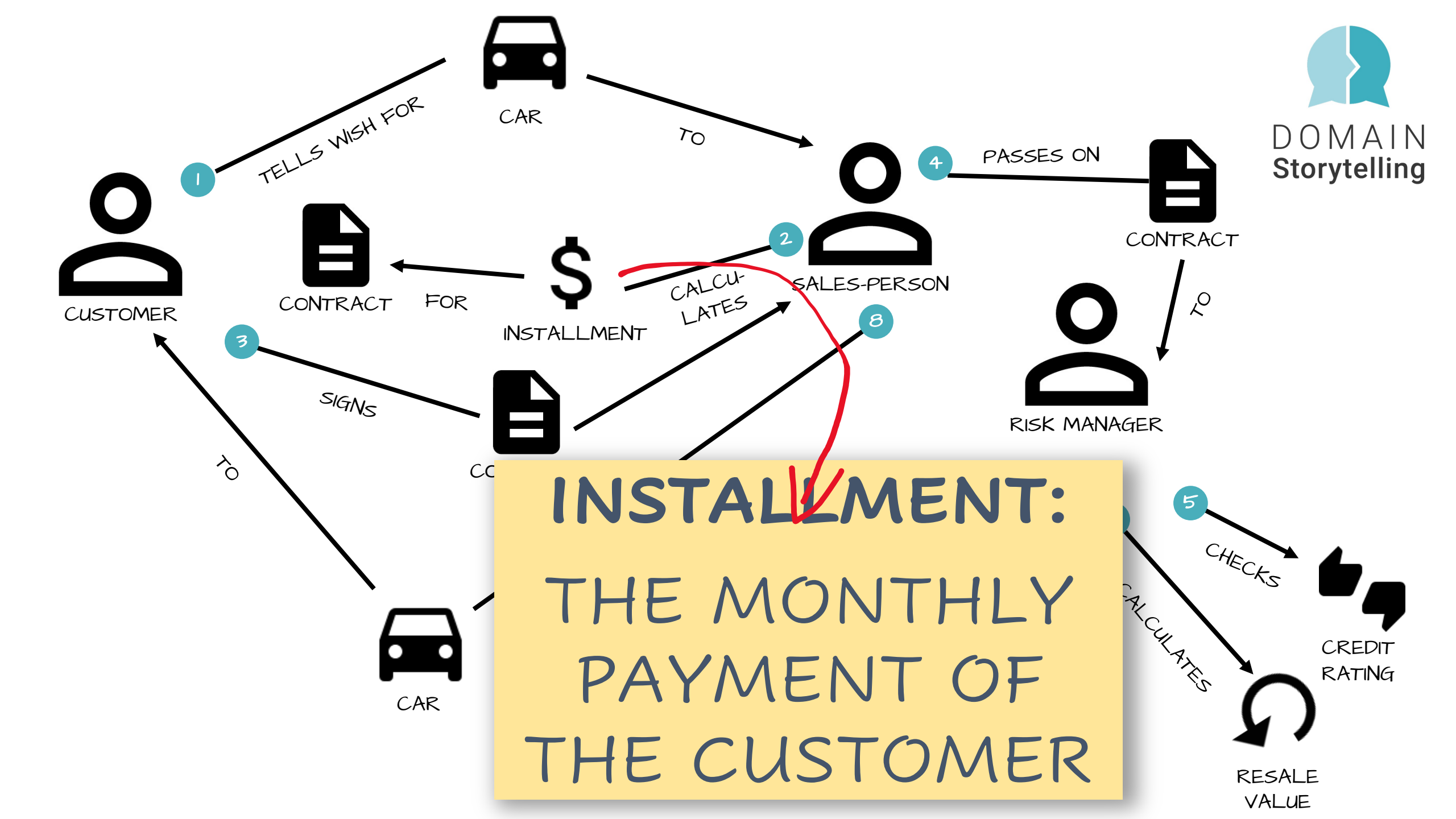
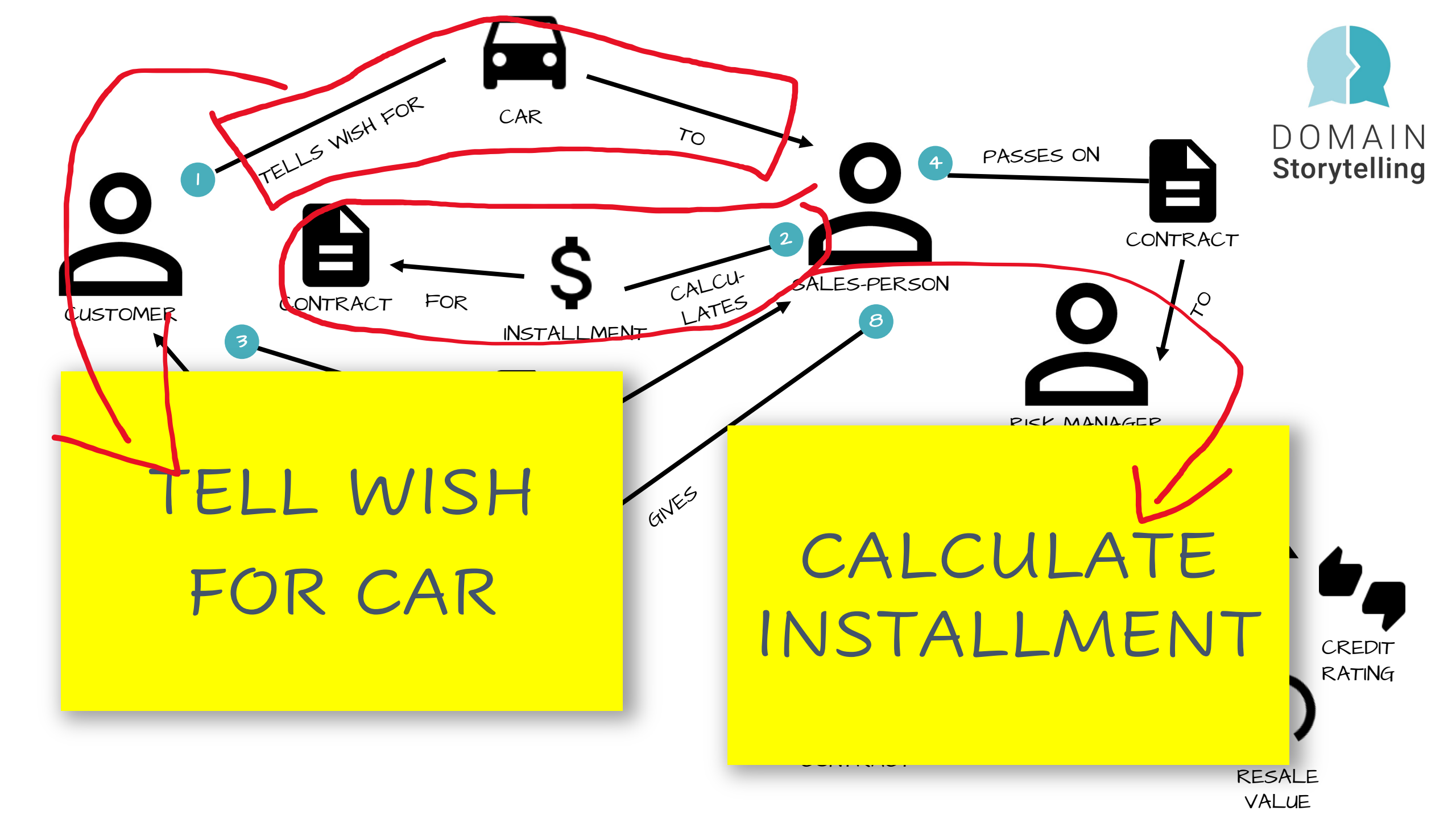
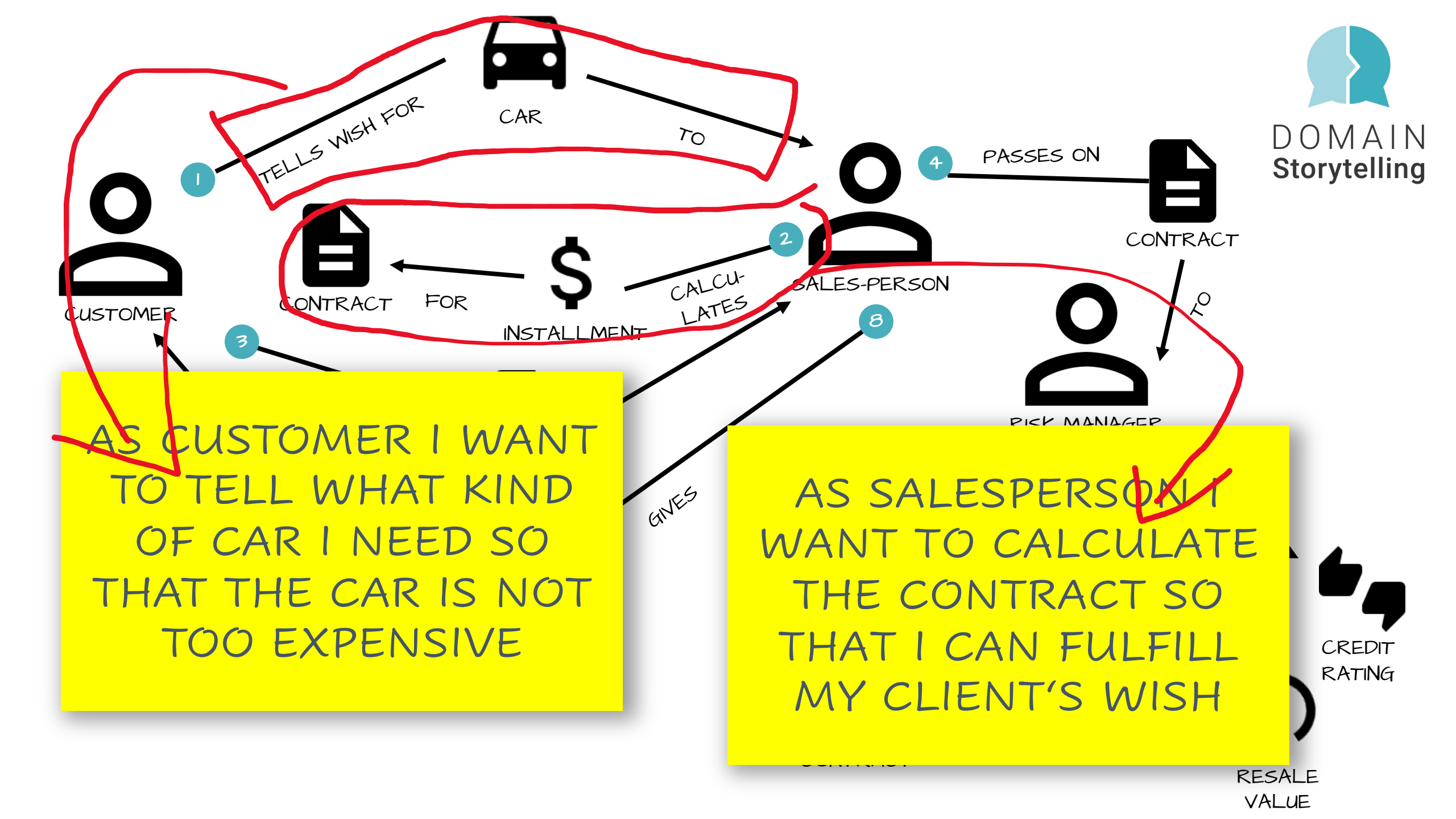

DOMAIN
Storytelling
CAR
TELLS WISH FOR
TO
1
CUSTOMER
CONTRACT
FOR
INSTALLMENT
CALCU-
LATES
2
SALES-PERSON
4
PASSES ON
CONTRACT
TO
RISK MANAGER
3
SIGNS
8
TO
CAR
5
CHECKS
CREDIT
RATING
CALCULATES
RESALE
VALUE
INSTALLMENT:
THE MONTHLY
PAYMENT OF
THE CUSTOMER

From Domain Story to User Story

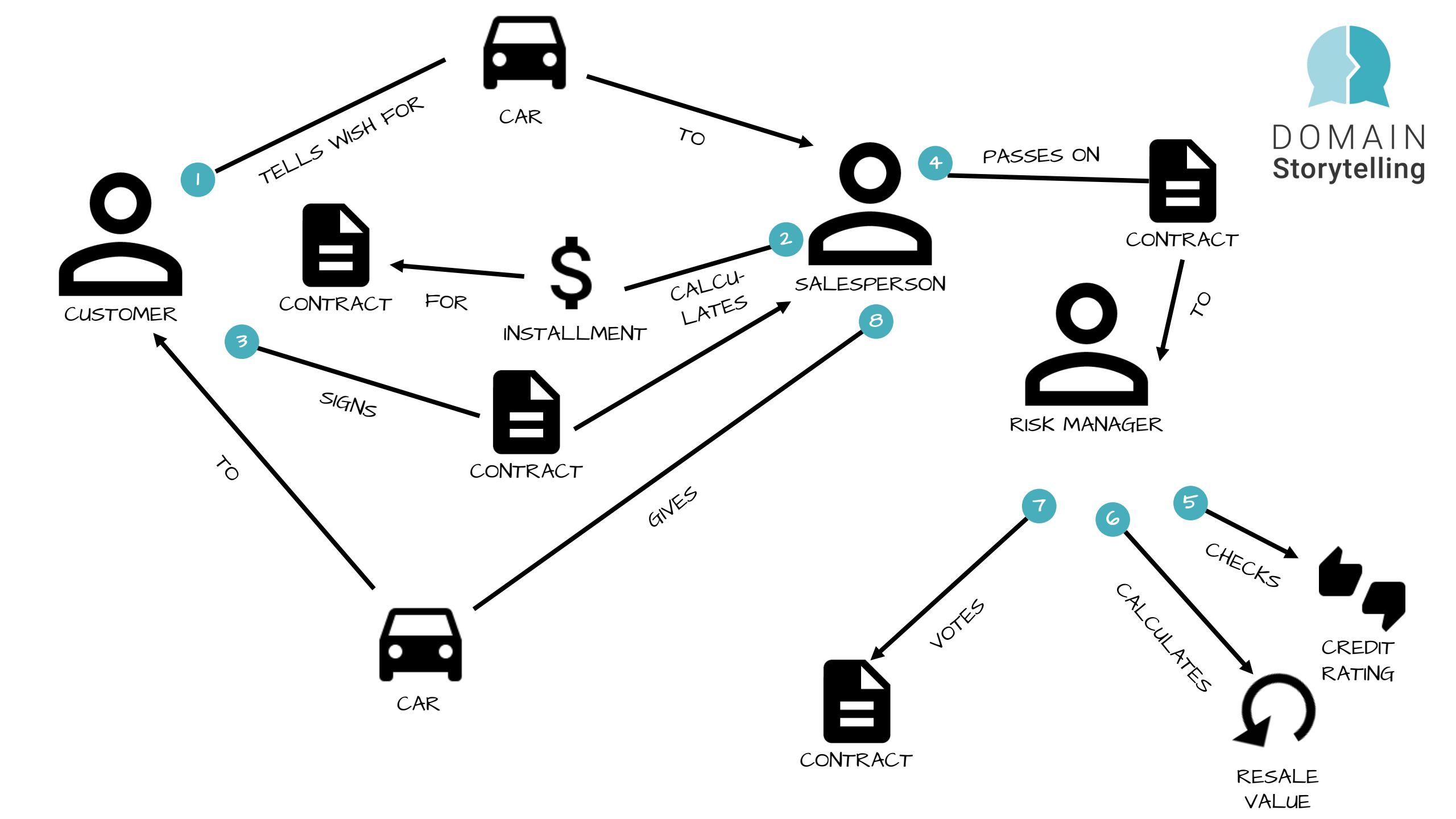
@hschwentner


DOMAIN
Storytelling
CAR
TELLS WISH FOR
TO
1
CUSTOMER
CONTRACT
FOR
INSTALLMENT
$
2
CALCU-
LATES
SALES-PERSON
4
PASSES ON
CONTRACT
TO
RISK MANAGER
3
8
GIVES
TELL WISH
FOR CAR
CALCULATE
INSTALLMENT
CREDIT
RATING
RESALE
VALUE

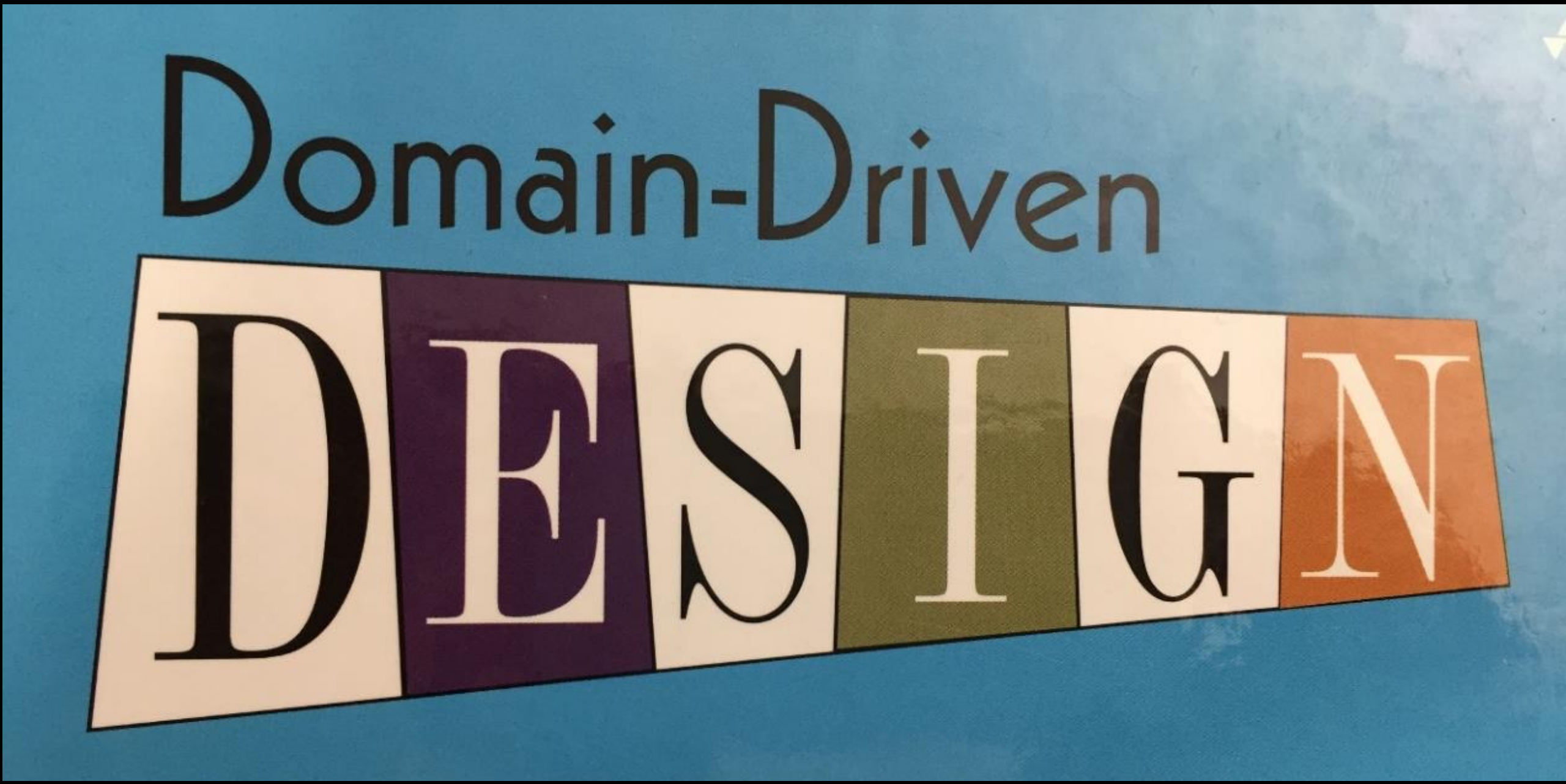

DOMAIN
Storytelling
CAR
TELLS WISH FOR
TO
1
CUSTOMER
CONTRACT
FOR
INSTALLMENT
$
2
CALCU-
LATES
SALES-PERSON
4
PASSES ON
CONTRACT
TO
RISK MANAGER
3
8
GIVES
AS CUSTOMER I WANT TO TELL WHAT KIND OF CAR I NEED SO THAT THE CAR IS NOT TOO EXPENSIVE
AS SALESPERSON I WANT TO CALCULATE THE CONTRACT SO THAT I CAN FULFILL MY CLIENT'S WISH
CREDIT
RATING
RESALE
VALUE

From Domain Story to Code

@hschwentner


DOMAIN
Storytelling
CAR
1
TELLS WISH FOR
TO
CUSTOMER
CONTRACT
FOR
INSTALLMENT
2
CALCU-
LATES
SALESPERSON
4
PASSES ON
CONTRACT
TO
RISK MANAGER
3
SIGNS
CONTRACT
8
TO
GIVES
CAR
7
VOTES
CONTRACT
6
CALCULATES
5
CHECKS
CREDIT
RATING
RESALE
VALUE

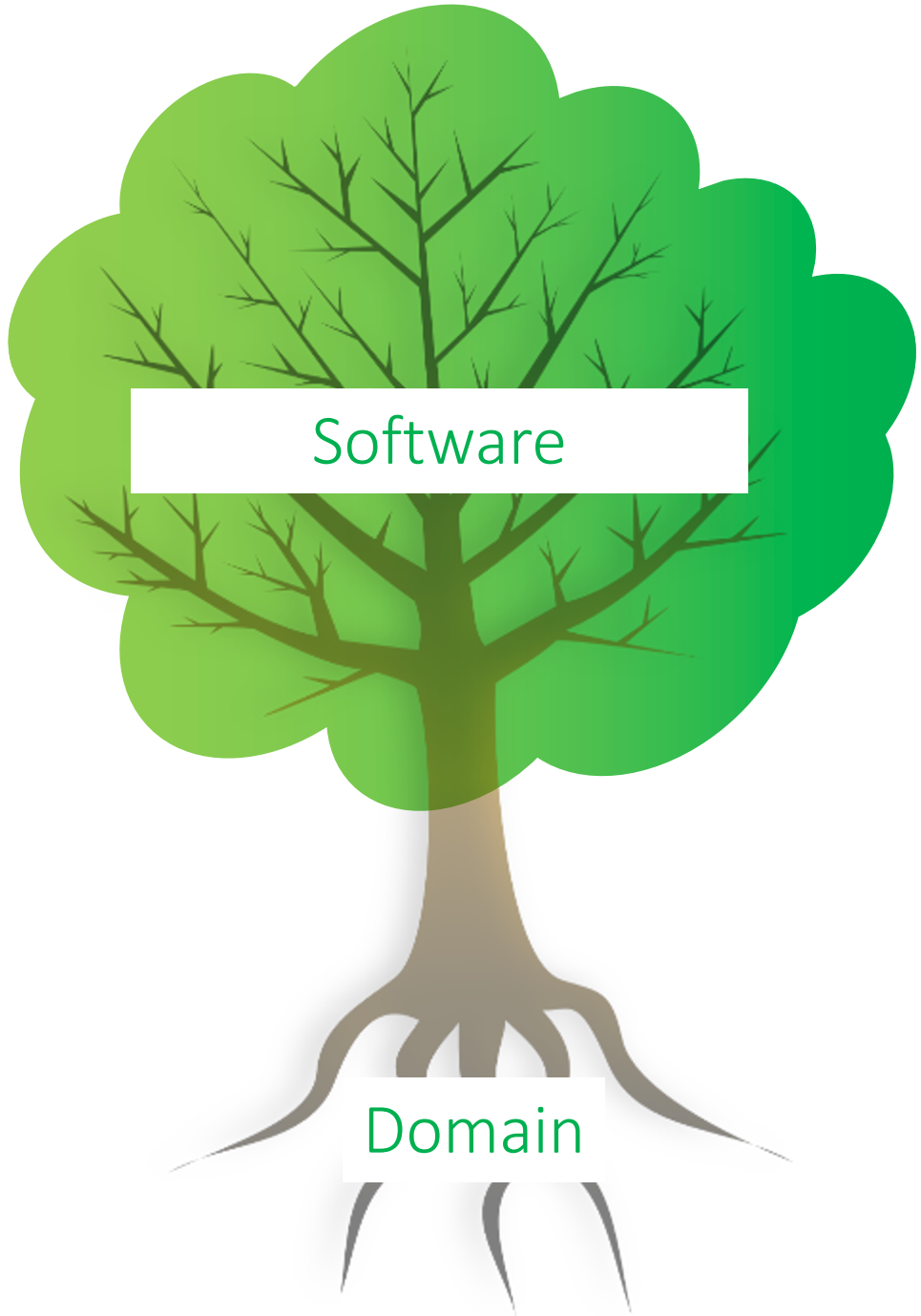
How do we design a program for that?

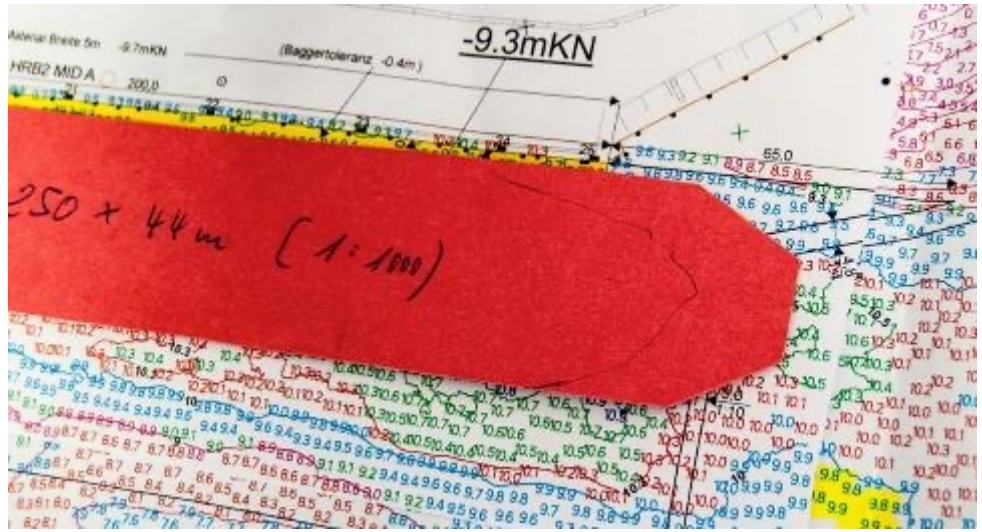

Domain-Driven
DESIGN

#dddesign

@hschwentner

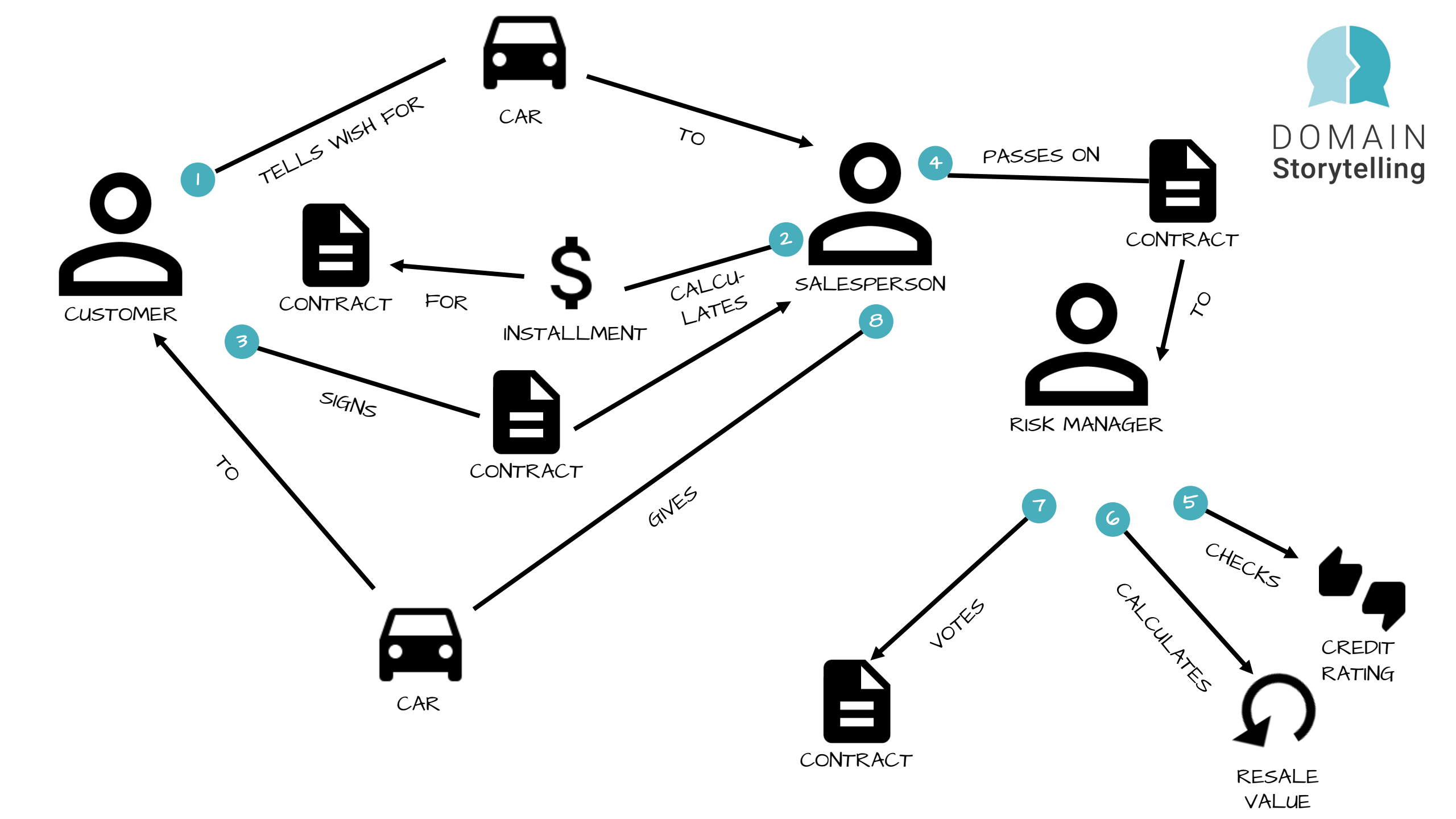
-Driven design


Software
Domain


-9.3mKN
(Baggertoleranz -0.4m)
HRB2 MID A
250 x 44m (1:1000)

From Domain Story to Code

@hschwentner


DOMAIN
Storytelling
CAR
1
TELLS WISH FOR
TO
CUSTOMER
CONTRACT
FOR
INSTALLMENT
2
CALCU-
LATES
SALESPERSON
4
PASSES ON
CONTRACT
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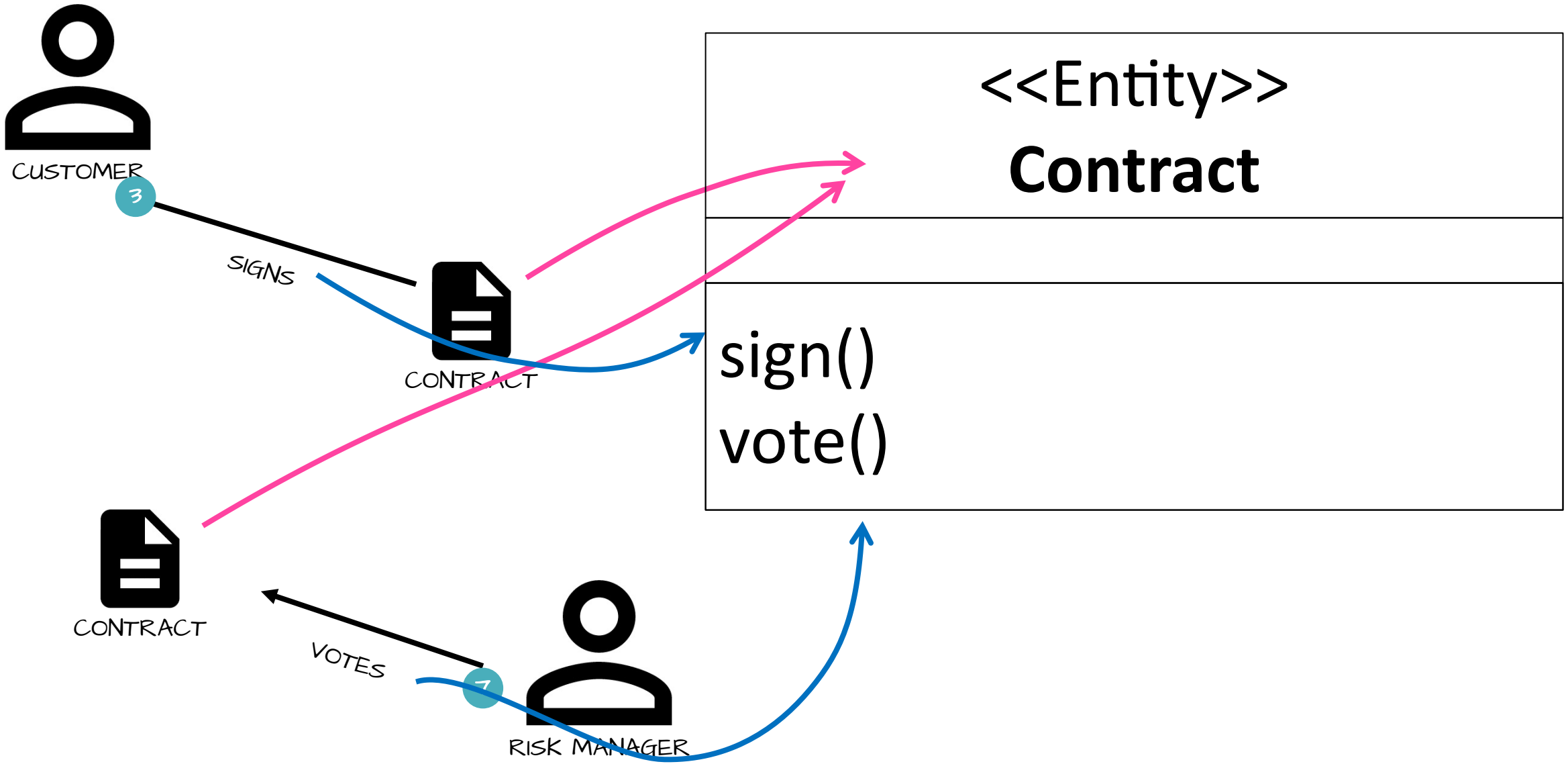
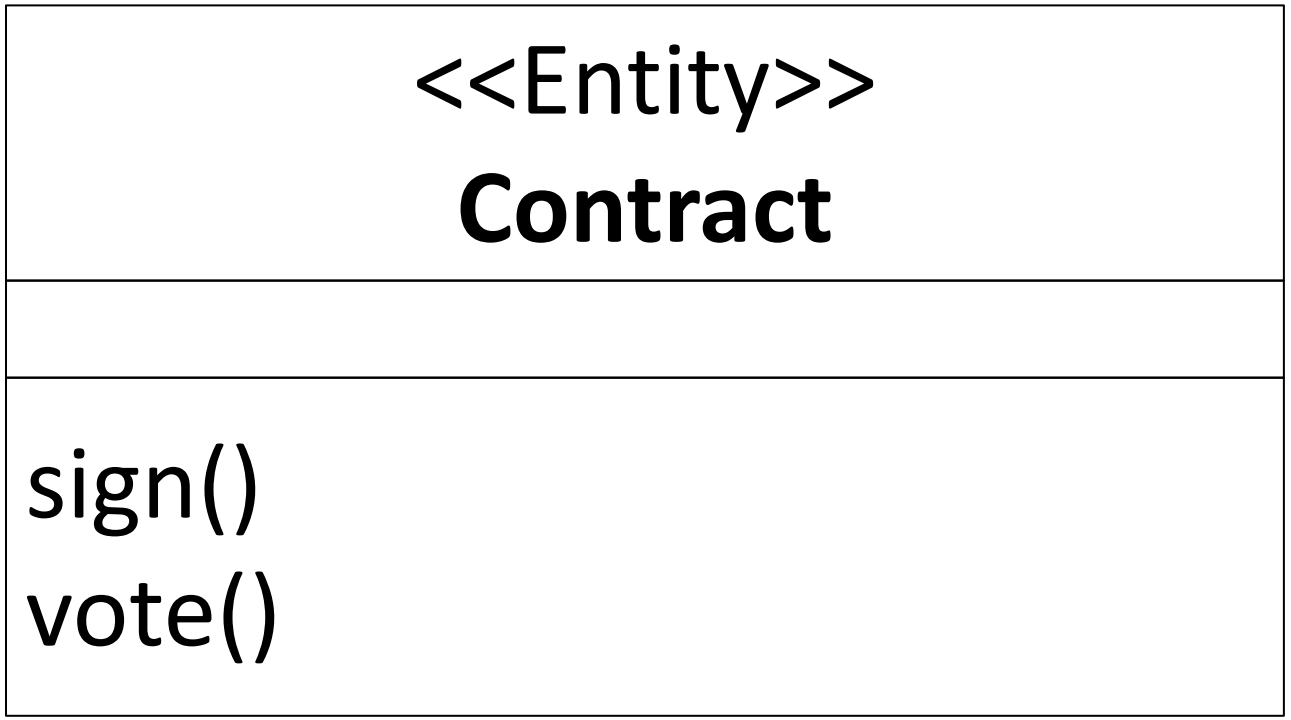
SIGNS
CONTRACT
8
TO
GIVES
CAR
7
VOTES
CONTRACT
6
CALCULATES
5
CHECKS
CREDIT
RATING
RESALE
VALUE


CUSTOMER
3
SIGNS
CONTRACT
<<Entity>>
Contract
sign()
vote()
CONTRACT
VOTES
RISK MANAGER


<<Entity>>
Contract
sign()
vote()

```
public class Contract {
     public void sign(SignDate date)
     //...
      public void vote(VoteResult result)
     //...
}
```

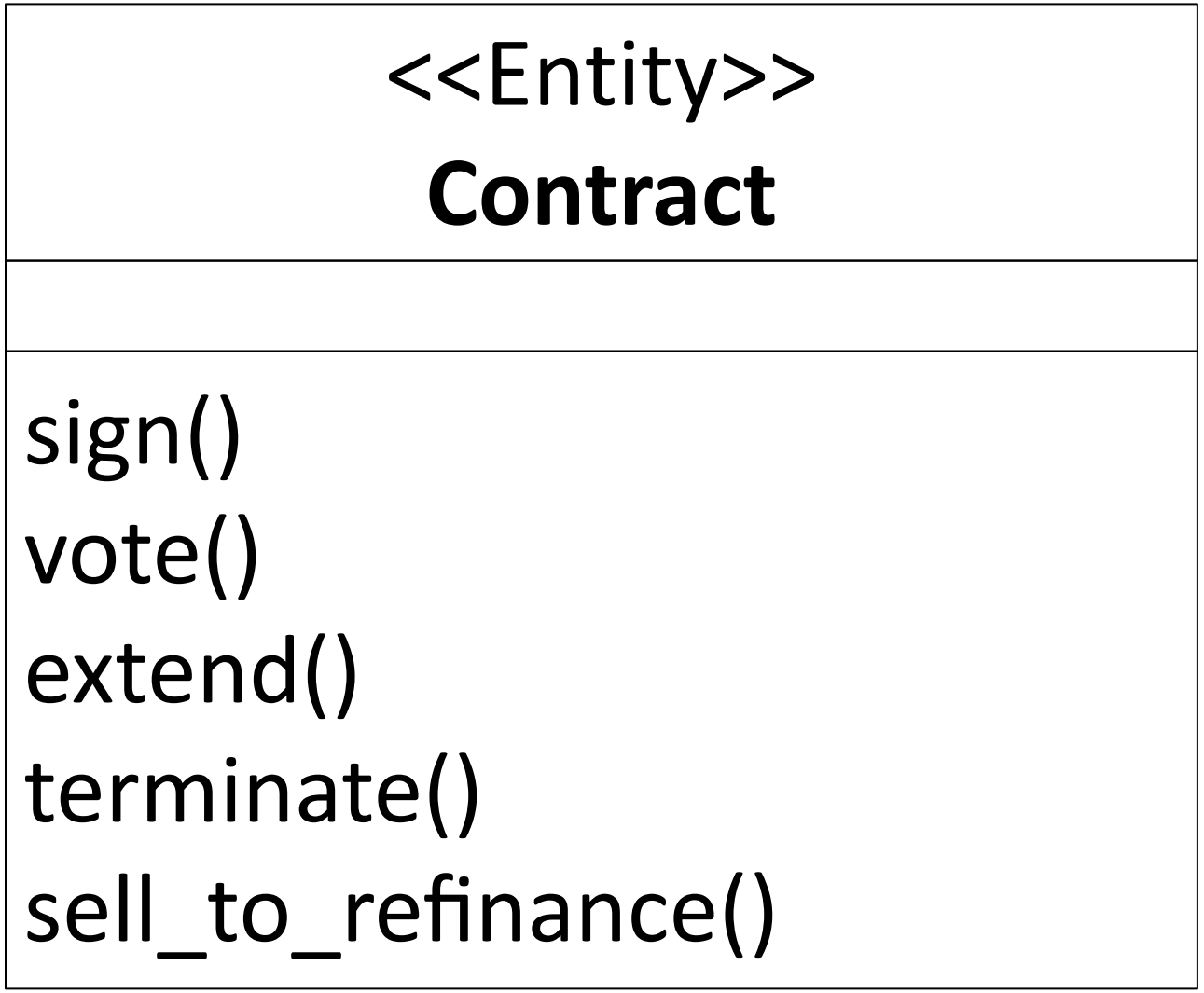
Object orientation

LeasingNinja.io

@hschwentner

Domain Stories for Strategic Design

@hschwentner


<<Entity>>
Contract
sign()
vote()
extend()
terminate()
sell_to_refinance()

The One Big Model

Reality:
Not one big model
But several mixed models

Foto: Benutzer:Summi/Wikipedia/CC-BY-SA-3.0-migrated

the horror

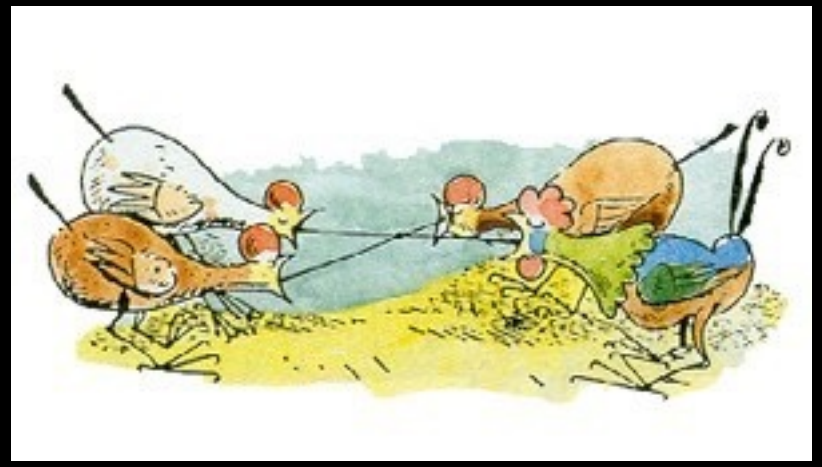
"Whoever uses a canonical model has lost control over his life."
– Karl Lagerfeld

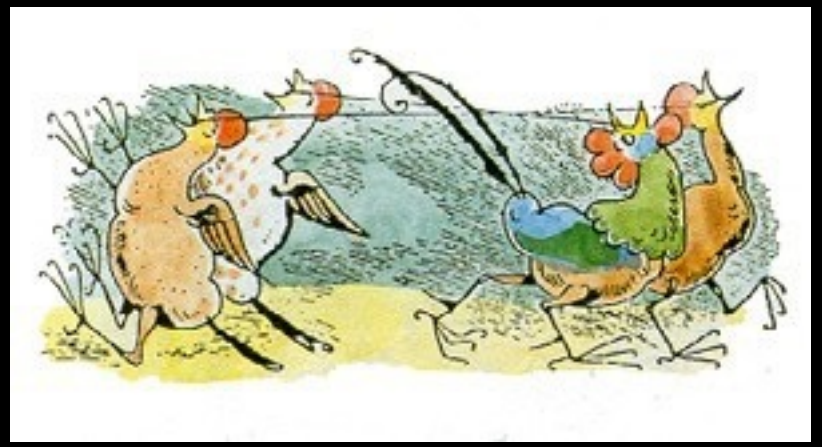
»Wer ein unternehmensweites Modell einsetzt, hat die Kontrolle über sein Leben verloren«
– Karl Lagerfeld

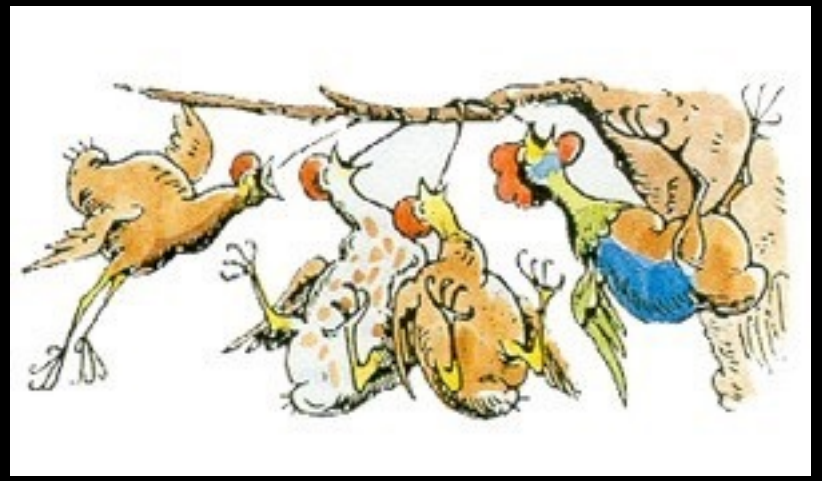
Why is that?

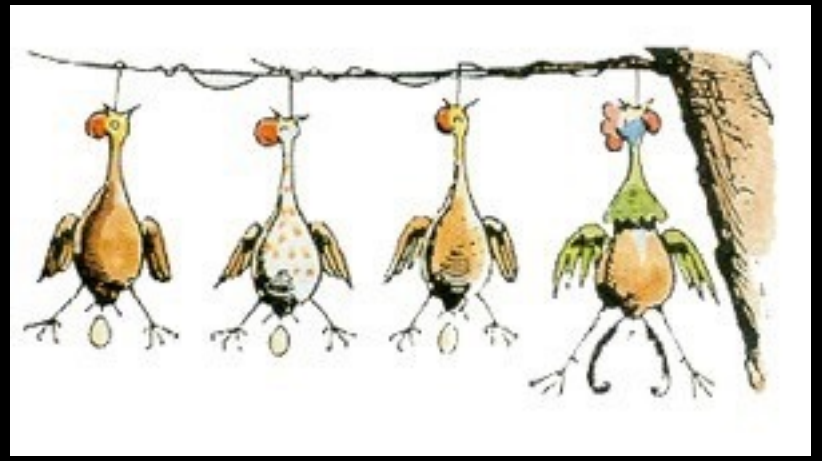
Chex
KIX
ALLEY CAT
Fresh Step
Whiskas
Friskies
Cat
Pearls

Too Big
to be understood
as a whole



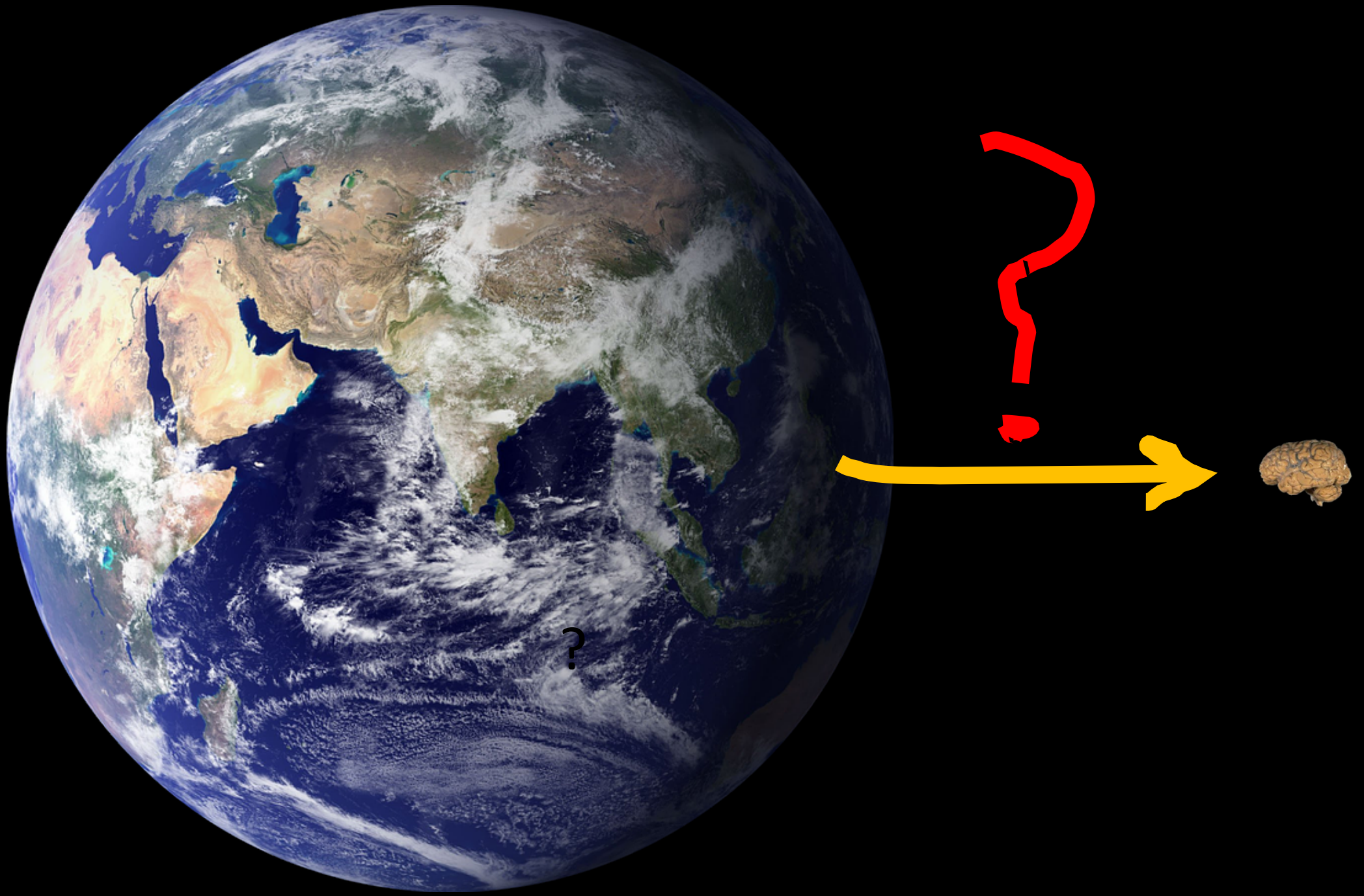


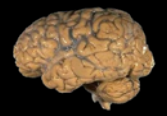


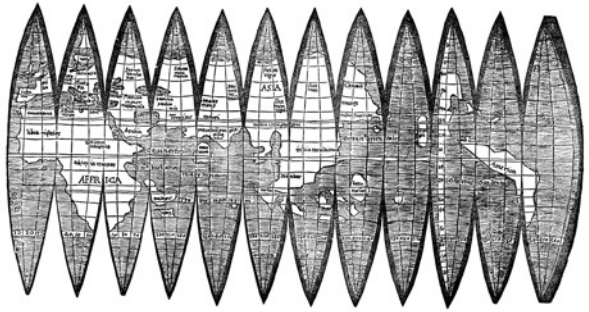


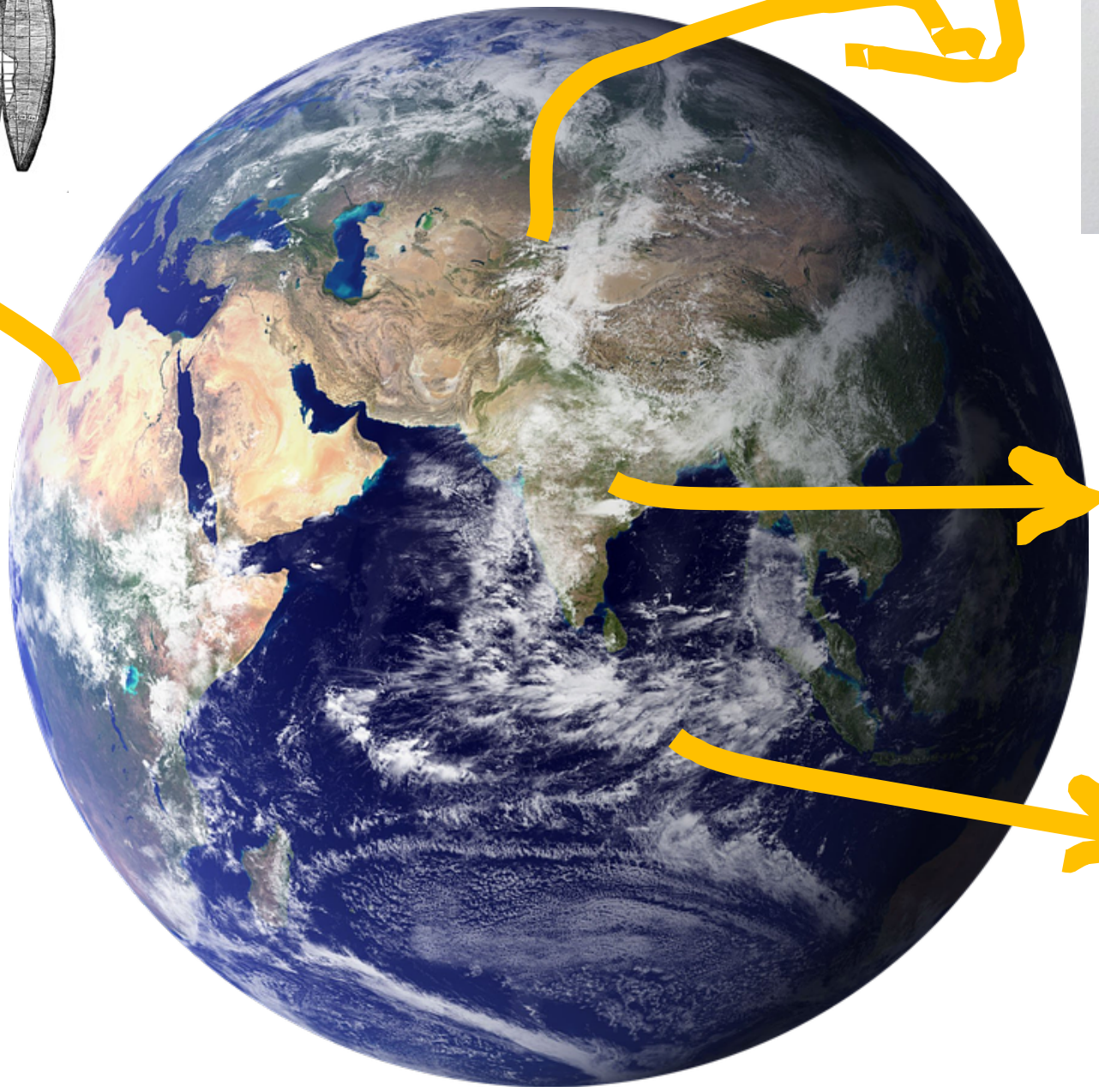
Model?

A tool to understand the world

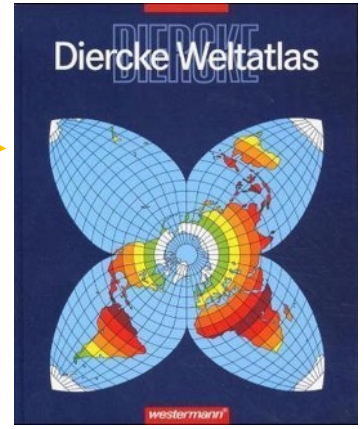


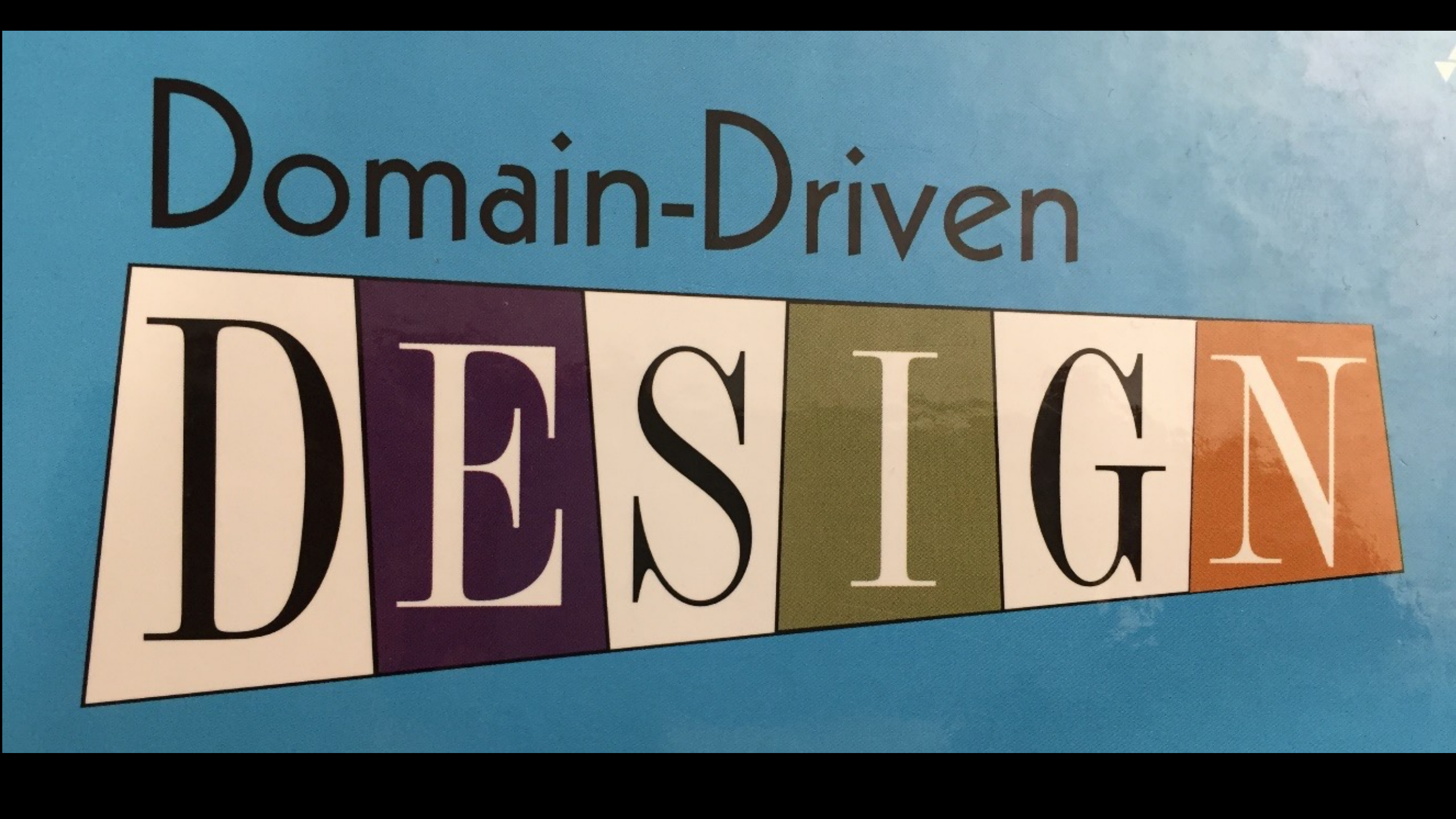




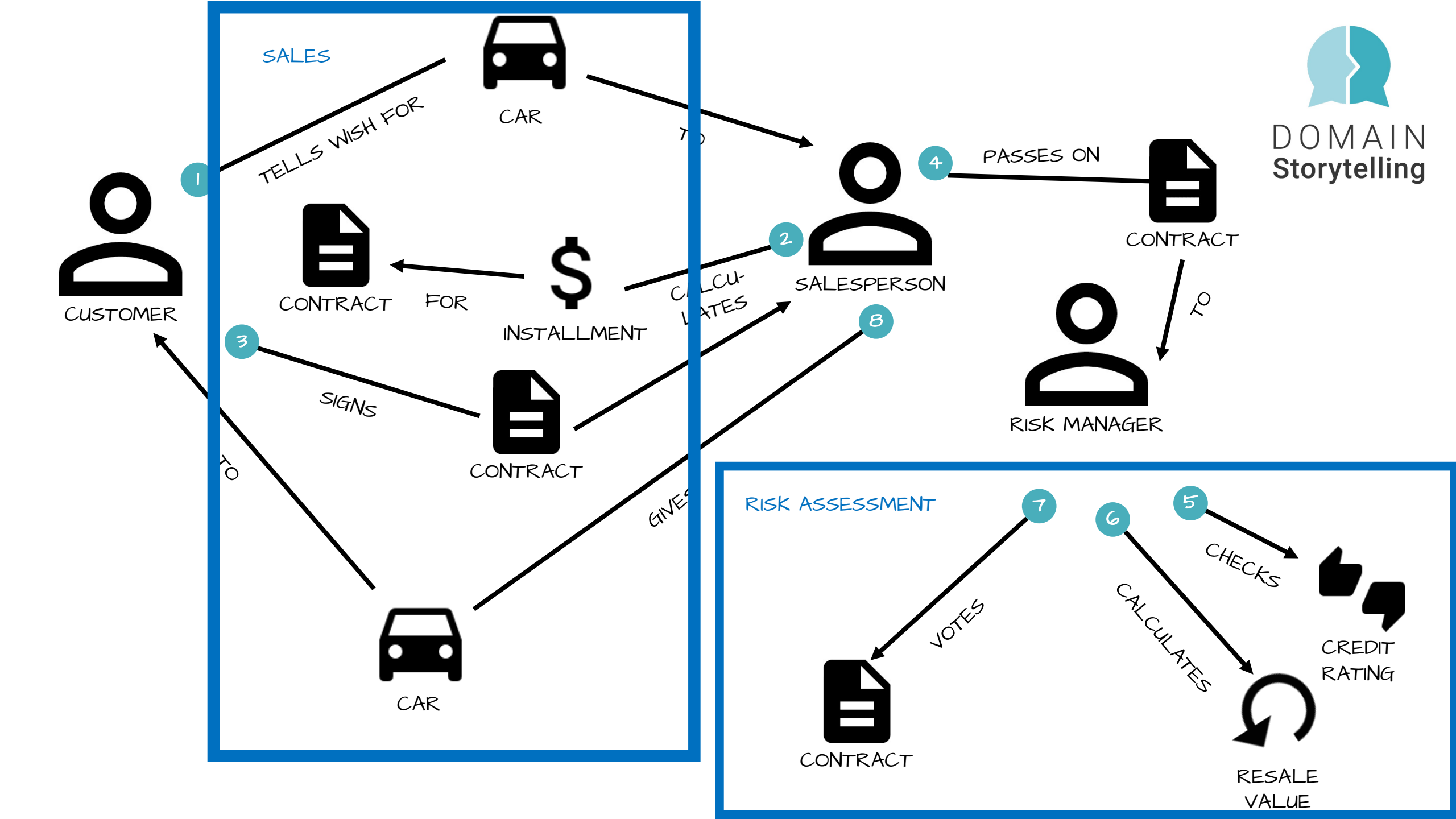


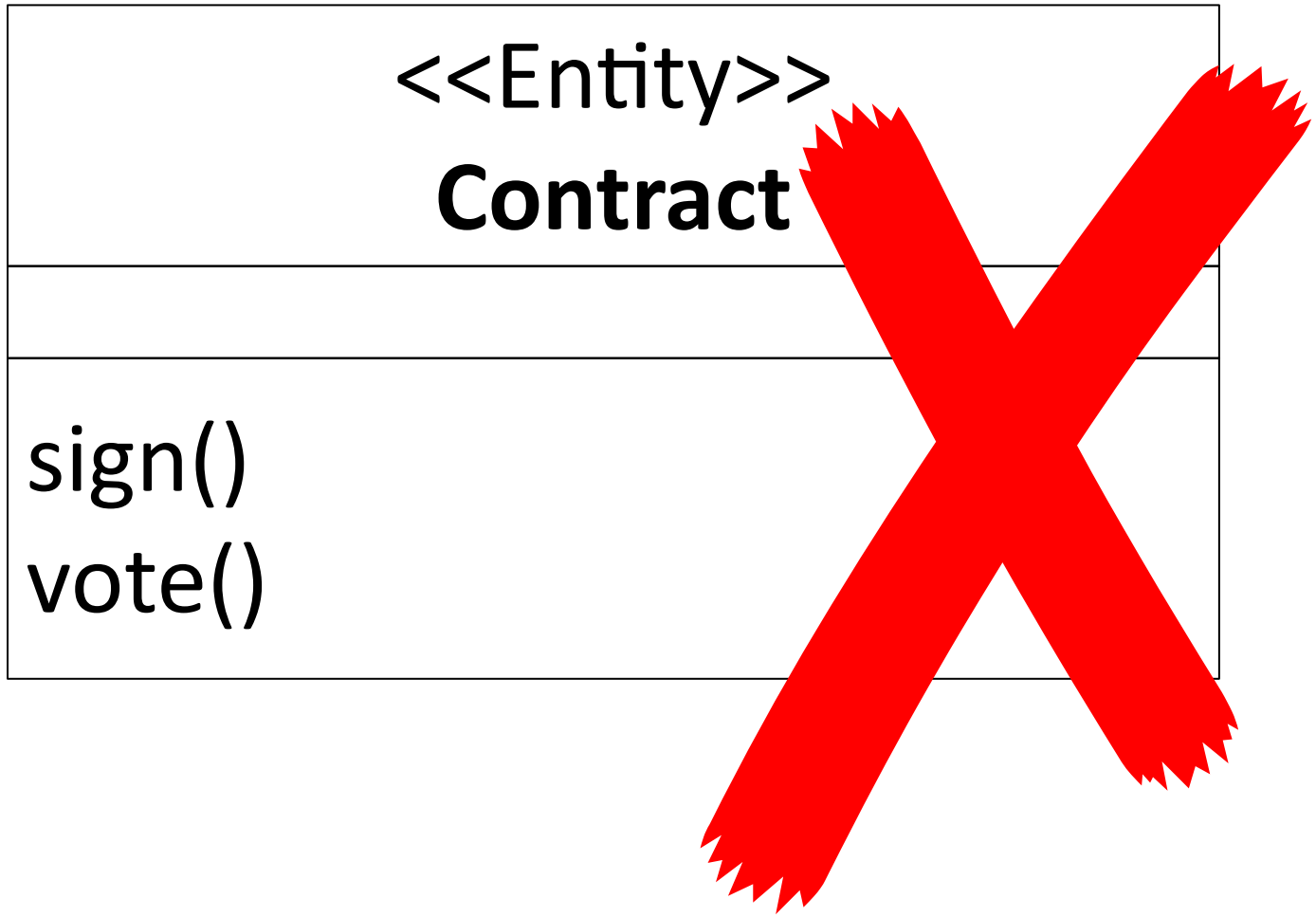
NORTH AMERICA
EUROPE
ASIA
AFRICA
SOUTH AMERICA
AUSTRALIA
ANTARCTICA

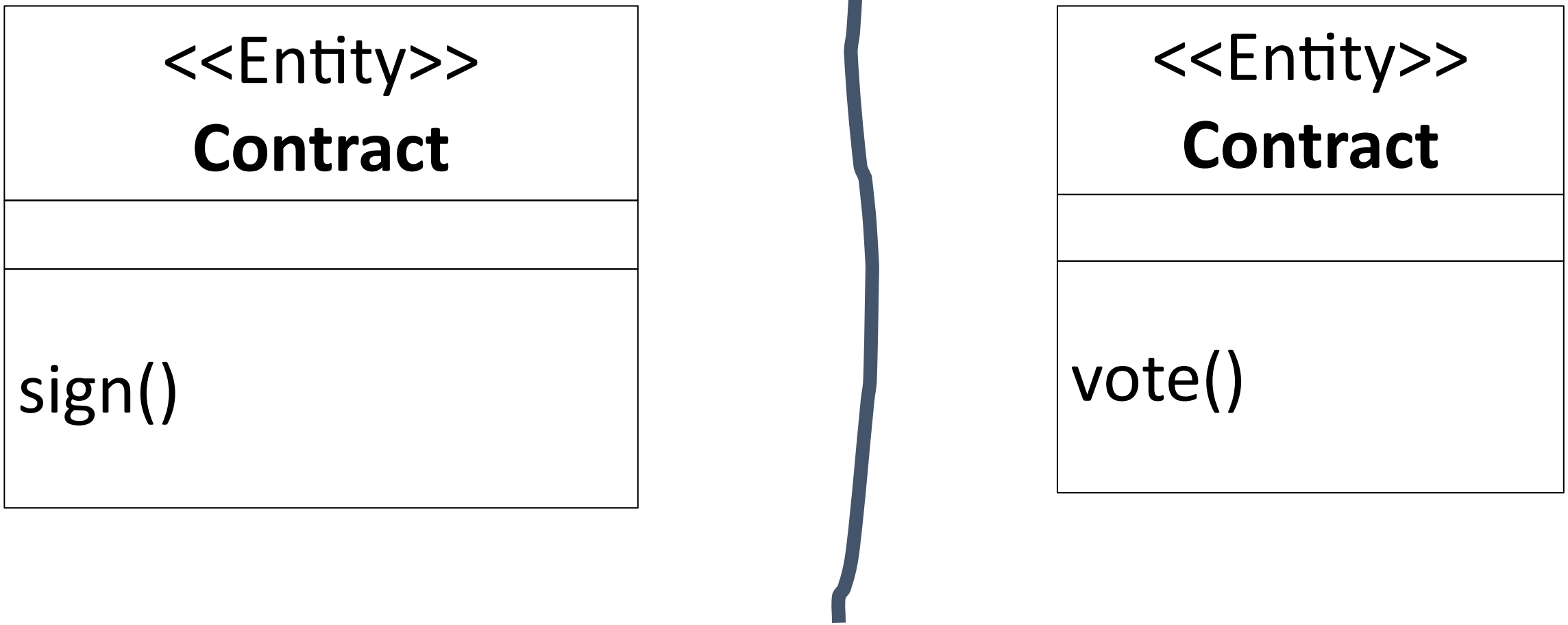

Diercke Weltatlas
westermann

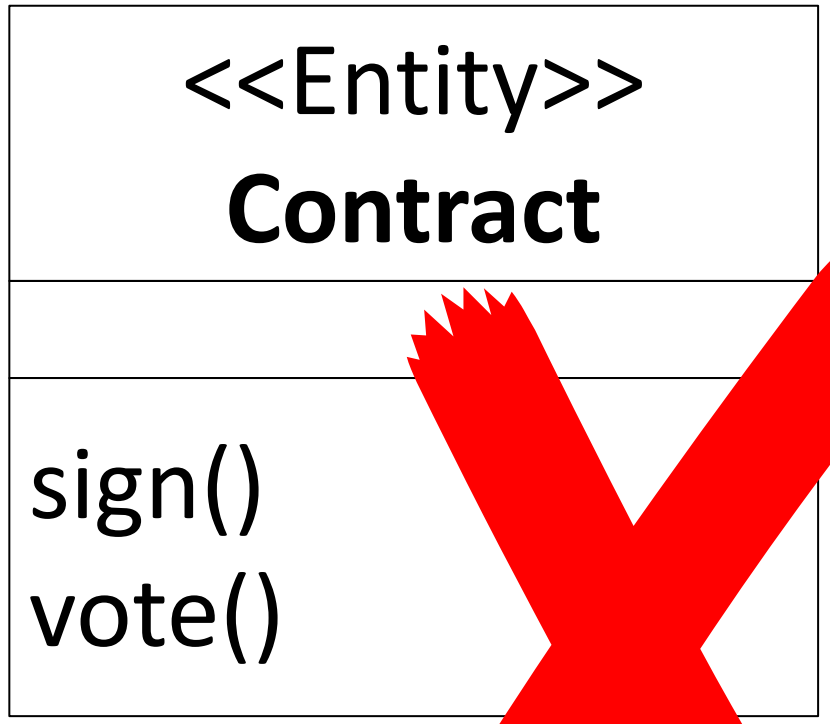

Domain-Driven
DESIGN

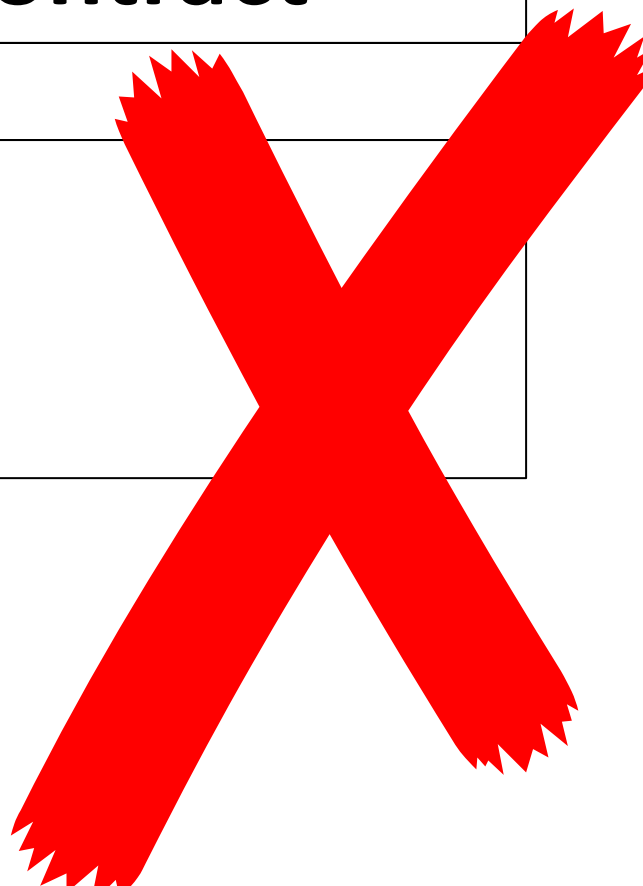
edu
net
com
info
biz

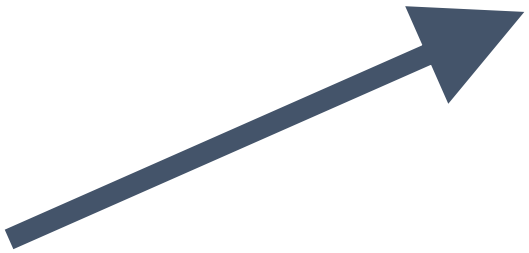

SALES
CAR
TELLS WISH FOR
1
CUSTOMER
CONTRACT
FOR
$
INSTALLMENT
2
CALCU-
LATES
SALESPERSON
4
PASSES ON
CONTRACT
TO
RISK MANAGER
3
SIGNS
CONTRACT
TO
8
GIVES
CAR
DOMAIN
Storytelling
RISK ASSESSMENT
7
VOTES
CONTRACT
6
CALCULATES
5
CHECKS
CREDIT
RATING
RESALE
VALUE


<<Entity>>
Contract
sign()
vote()


<<Entity>>
Contract
sign()
<<Entity>>
Contract
vote()


<<Entity>>
Contract
sign()
vote()





<<Entity>> **Contract**
sign()

<<Entity>> **Contract**
vote()

SALES

<<Entity>>
Contract

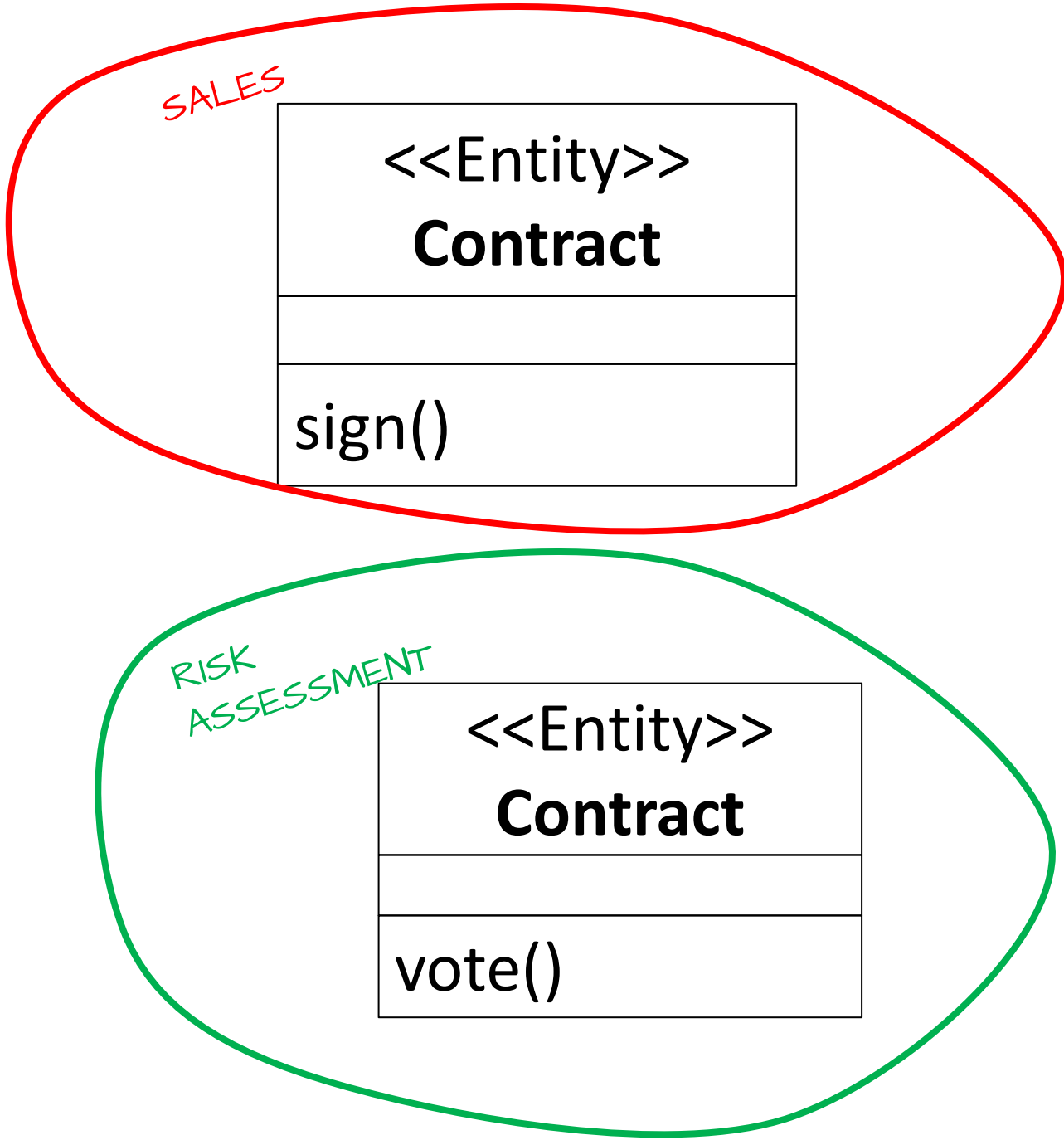
sign()

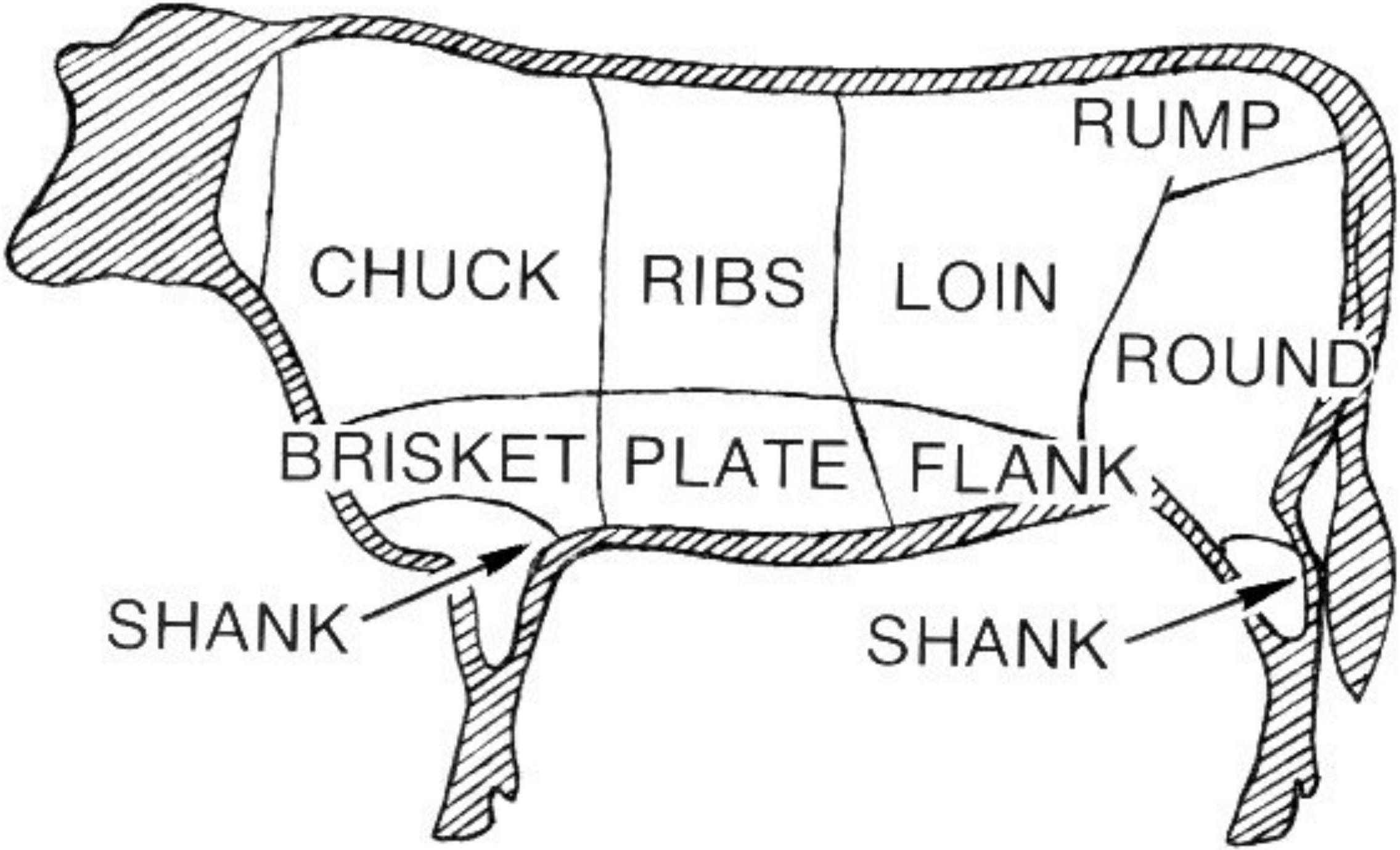
RISK ASSESSMENT

<<Entity>>
Contract

vote()

Bounded Context


SALES
<<Entity>>
Contract
sign()
RISK
ASSESSMENT
<<Entity>>
Contract
vote()


RUMP
CHUCK
RIBS
LOIN
ROUND
BRISKET
PLATE
FLANK
SHANK
SHANK

Implementing Multiple Models

@hschwentner

JVM: Packages Jigsaw-Modules

@hschwentner

.NET: DLLs

@hschwentner

Other: Microservices Self-Contained Systems Verticals

@hschwentner

Draw Boundaries

Cutting the Monolith

Brownfield

How to split the monolith®

Secret Recipe®

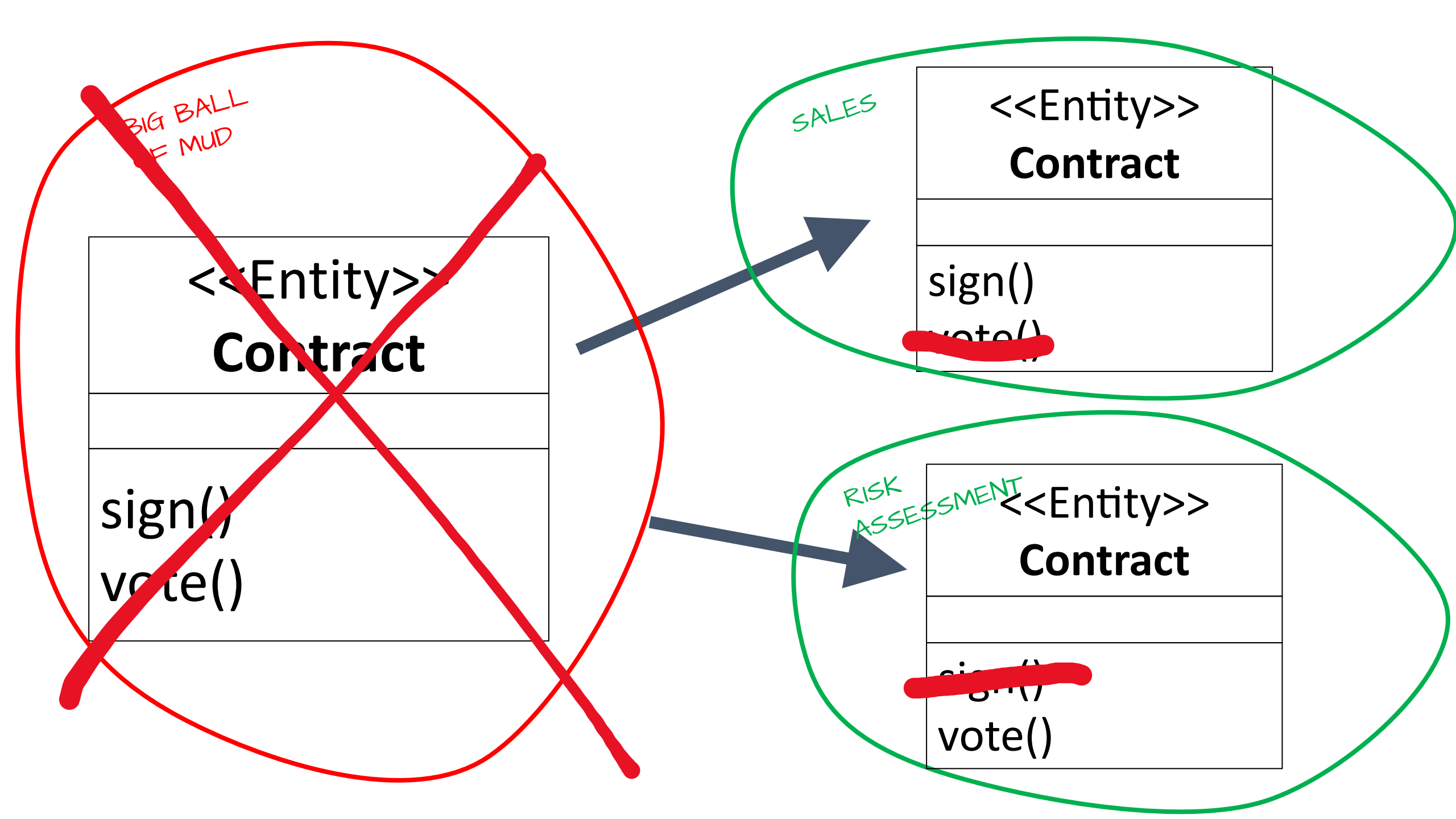
@hschwentner

1) How should it be?
2) How is it?
3) How to move the “is” to the “ideal”?

1) How should it be?
    1) Collaborative Modelling
    2) “ideal” context map
2) How is it?
    1) Architecture Analysis
    2) As-is context map
3) How to move the “is” to the “ideal”?
    1) Extract a supporting domain to learn
    2) Then extract core(s)

Secret Recipe®

Strangler Fig Application


BIG BALL
OF MUD
<<Entity>>
Contract
sign()
vote()
SALES
<<Entity>>
Contract
sign()
RISK
ASSESSMENT
<<Entity>>
Contract
vote()

How to draw an Owl.

"A fun and creative guide for beginners"

Fig 1. Draw two circles

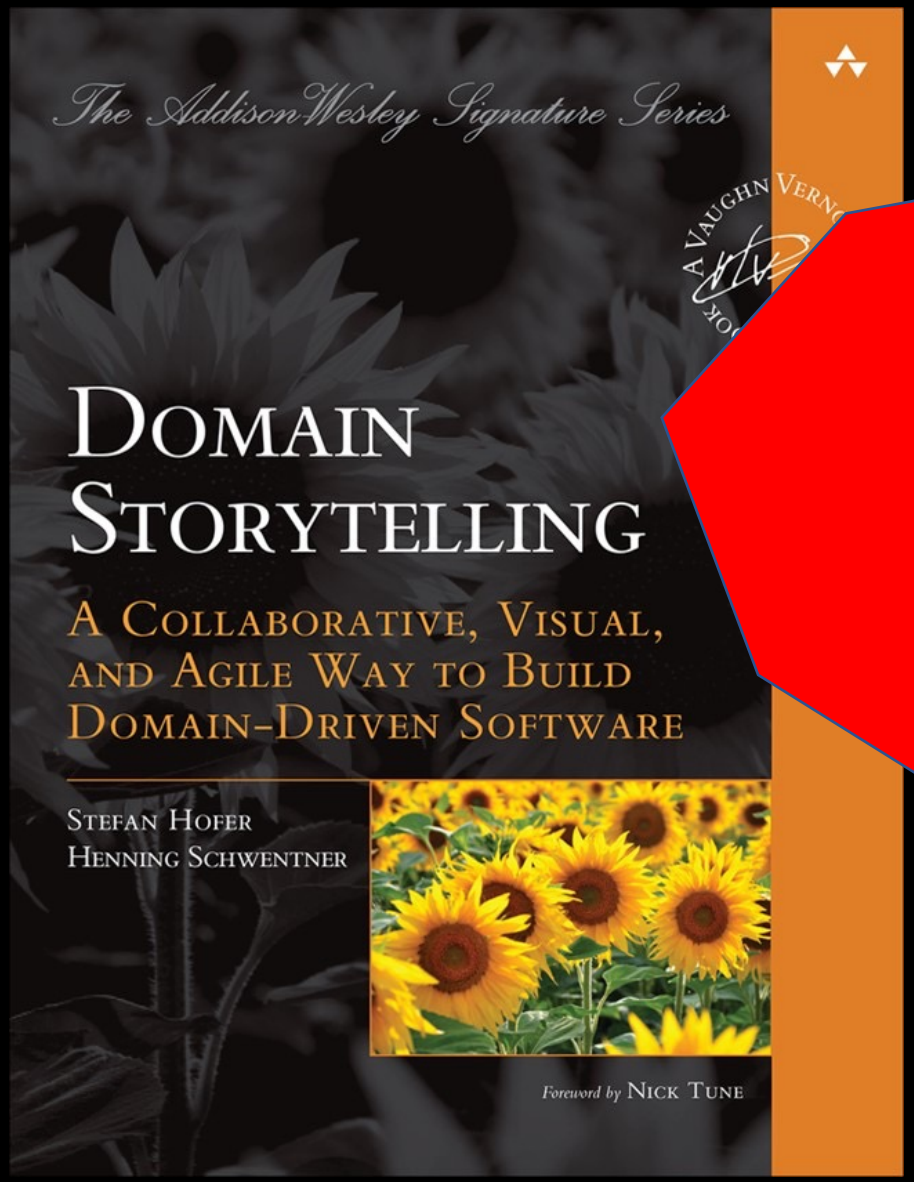
Fig 2. Draw the rest of the damn Owl

Consulting

Conclusion

Further Reading

https://domainstorytelling.org



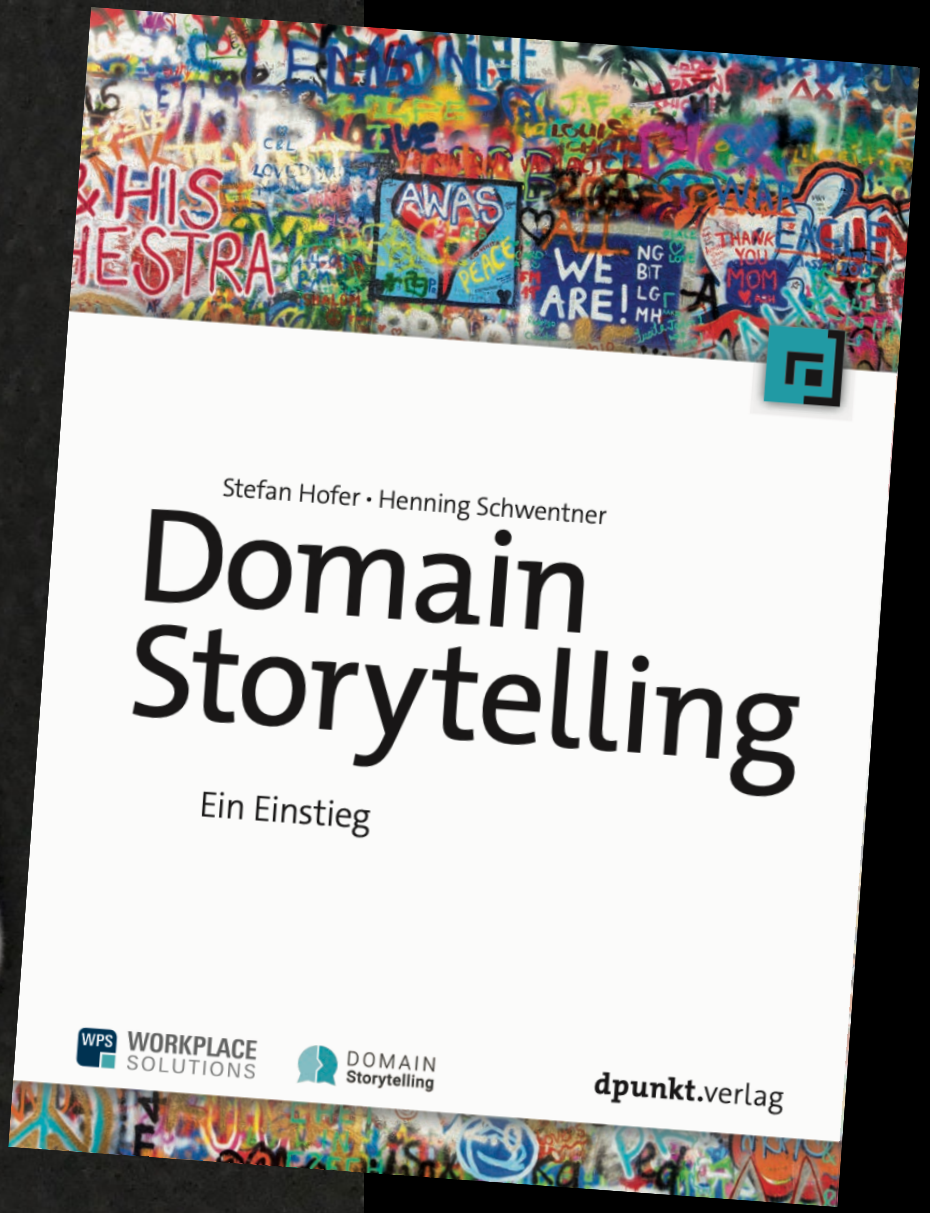
Get it at:
https://hschwentner.io

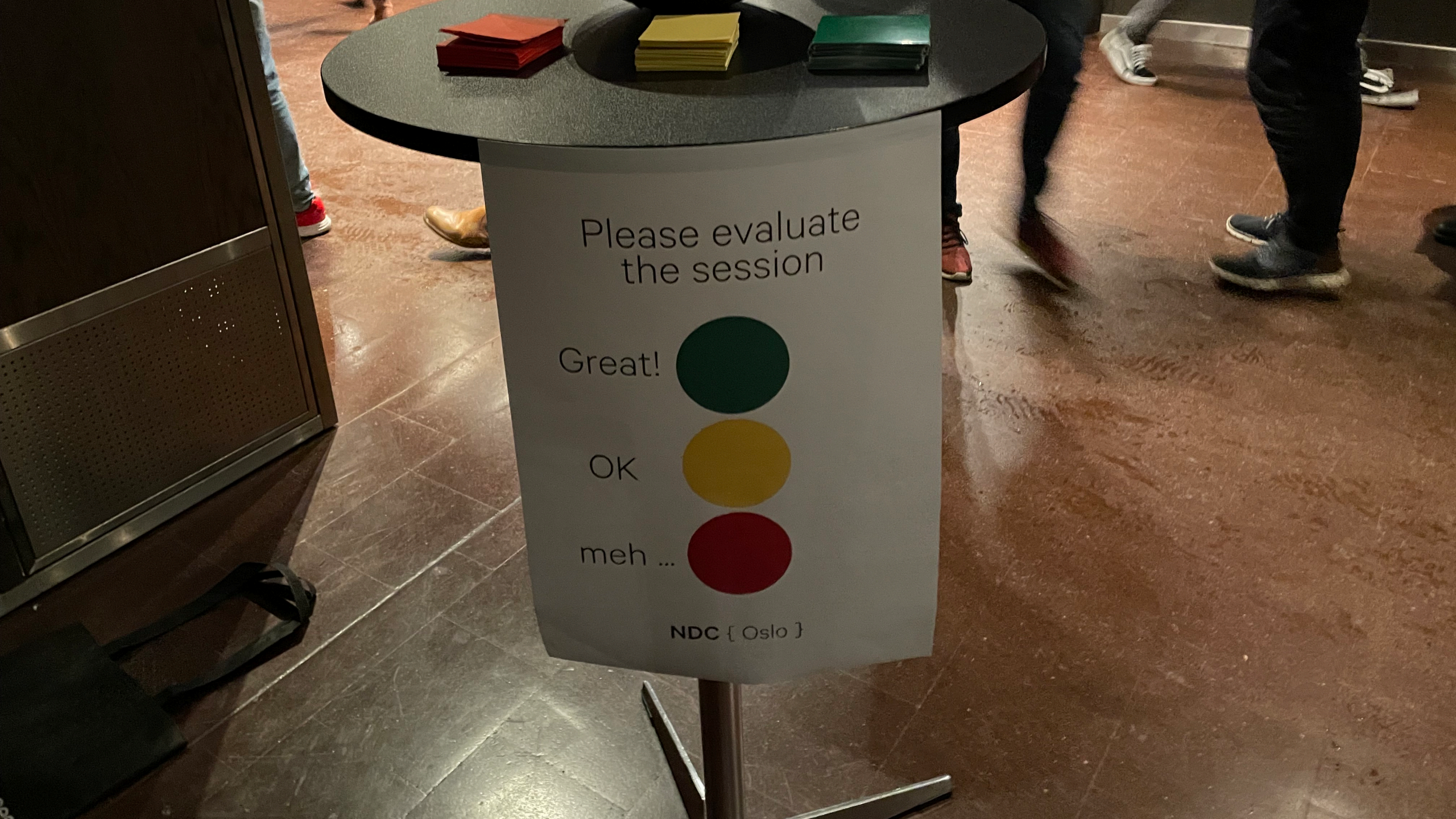
LeasingNinja.io

@hschwentner

THE END IS NEAR
gickr.com

DOMAIN
Storytelling




Please evaluate
the session
Great!
OK
meh ...
NDC { Oslo }

einfach & schnell
öffnen
Happy End
Recycling
3
aus
Recycling-
papier
Umweltfreundlich, da aus 100% Altpapier
PRO PLANET
aus
Recyclingpapier
200
8x

This has been a presentation of

Metro Goldwyn Lolcat

Henning Schwentner

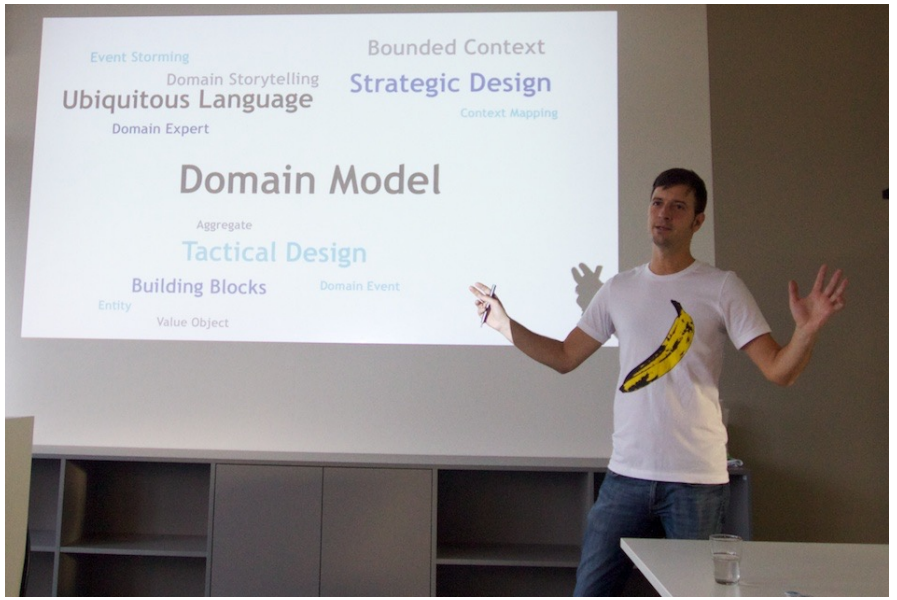
https://hschwentner.io

@hschwentner

hs@wps.de

DOMAIN Storytelling

http://domainstorytelling.org



Stefan: sh@wps.de @hofstef
speakerdeck.com/hofstef

Henning: hs@wps.de @hschwentner
speakerdeck.com/hschwentner

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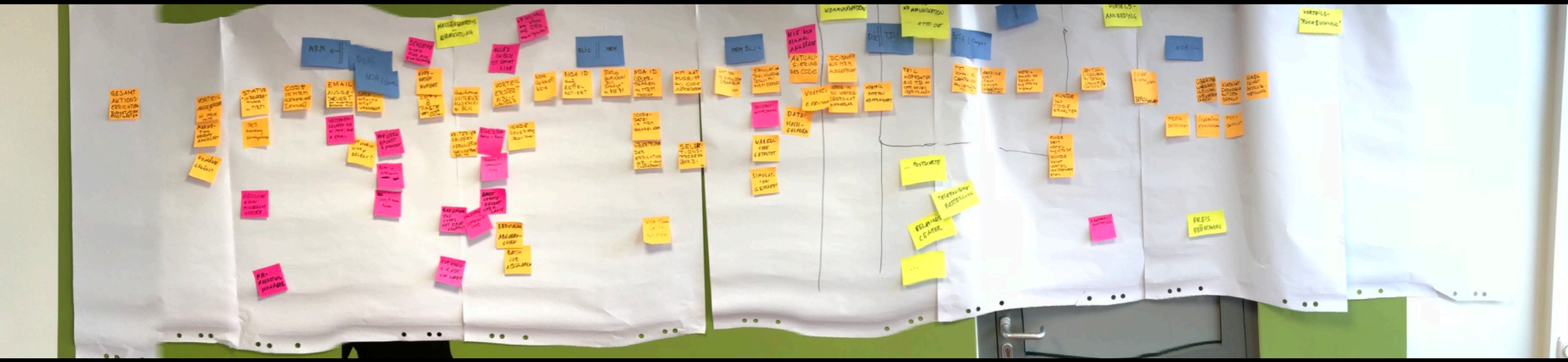
Appendix

What about Event Storming?


MRM
BLIC
NOA ID
MRM BLIC
VORTEILS-ANWENDUNG
VORTEILS-"RÜCKBUCHUNG"
GESAMT AKTIONS-ERRICHTUNG
STATUS
CODE IN MRM GENERIEREN
EMAIL
VORTEIL ERSETZT IN BLIC
SELEKTIONS-PROBEN
DATEI HOCH-GELADEN
WAREN-CODE GETESTET
SIMULATION GESTARTET
... POSTKARTE
RELATIONS CENTER
PREIS BERECHNUNG

DOMAIN STORYTELLING
DDD
EVENT STORMING
imgflip.com

EVENT STORMING AND DOMAIN STORYTELLING ARE GREAT

CAN'T DECIDE WHICH ONE I SHOULD USE IN MY NEXT PROJECT

erator.net

Bibliography

Baas-Schwegler, Kenny and João Rosa (eds.). *Visual Collaboration Tools*. Self-published, Leanpub, last updated August 7, 2020.

Beck, Kent et al. *Manifesto for Agile Software Development*. 2001.

Brandolini, Alberto. *Introducing EventStorming*. Self-published, Leanpub, last updated February 12, 2021.

Conway, Melvin E. "How Do Committees Invent?" Datamation 14, no. 5 (April 1968): 28–31.

Evans, Eric. *Domain-Driven Design: Tackling Complexity in the Heart of Software*. Boston: Addison-Wesley, 2004.

Foote, Brian and Joseph Yoder. "Big Ball of Mud." *PLoP '97*, Monticello, IL, September 1997.

Fowler, Martin. "Strangler Fig Application." *Bliki*, June 29, 2004.

Hofer, Stefan and Henning Schwentner. *Domain Storytelling: a Collaborative, Visual, and Agile Way to Develop Domain-Driven Software*. Boston: Addison-Wesley, 2022.

Patton, Jeff. *User Story Mapping: Discover the Whole Story, Build the Right Product*. Sebastopol, CA: O'Reilly, 2014.