

## Communication

DDD-Meetup Cincinnati 2019-10-15

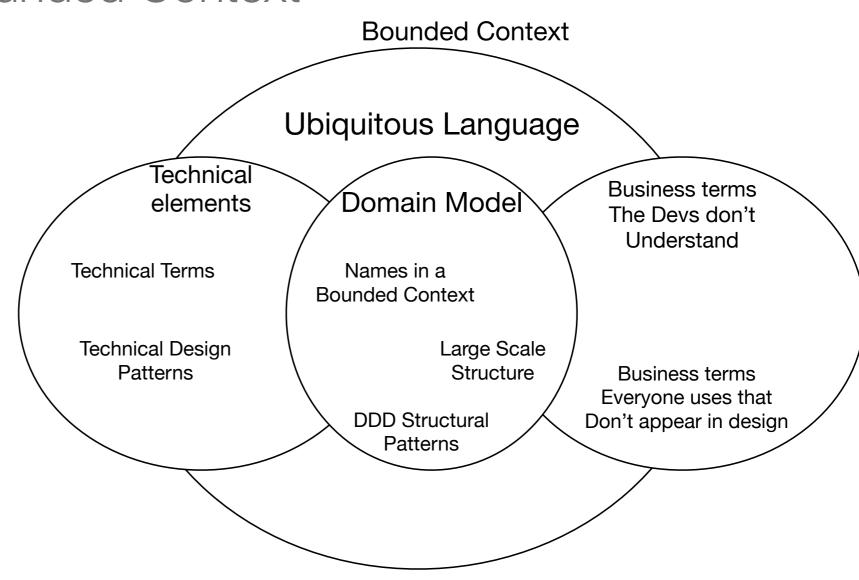
#### Communication

- Ubiquitous Language
- Whirlpool Process
- Event Storming

Ubiquitous Language

## Ubiquitous Language

- "Ubiquitous" means everywhere
- But within a Bounded Context



## Create Your own Language

- May need a new word when
  - Domain Expert uses a word not in the MODEL
  - Concept with adjectives
    - Suspended Member, Retired Employee
    - Beware of boolean flags, and state
  - Awkward or Complex to explain
  - Rename when a better word occurs

## Identify Tribal Language

- Business Tribe
  - synergies, reaching out

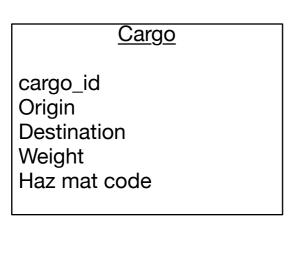
- Software Tribe
  - Table, Join, data type, child-class

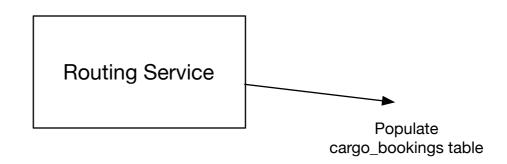
# Listen

- New Words
- Long Explanations
- Awkward Descriptions
- Buisness Jargon
- Tech speak



### Scenario 1: Minimal obstruction of the Domain

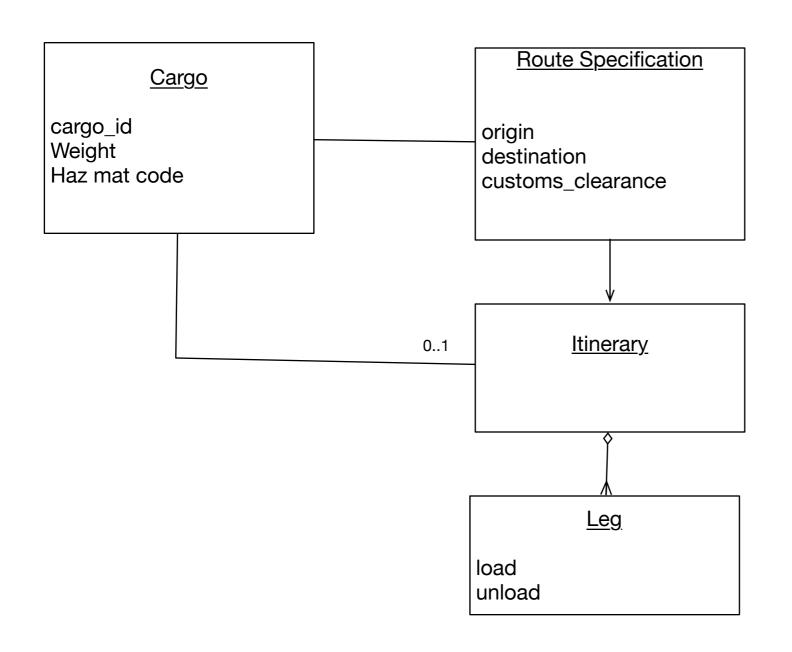


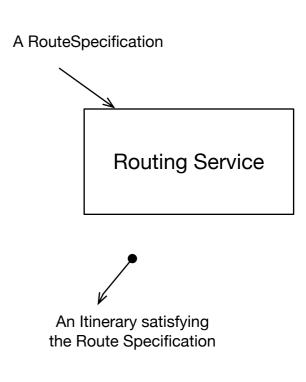


Database table: cargo\_bookings

Cargo ID	Transport	Load	Unload

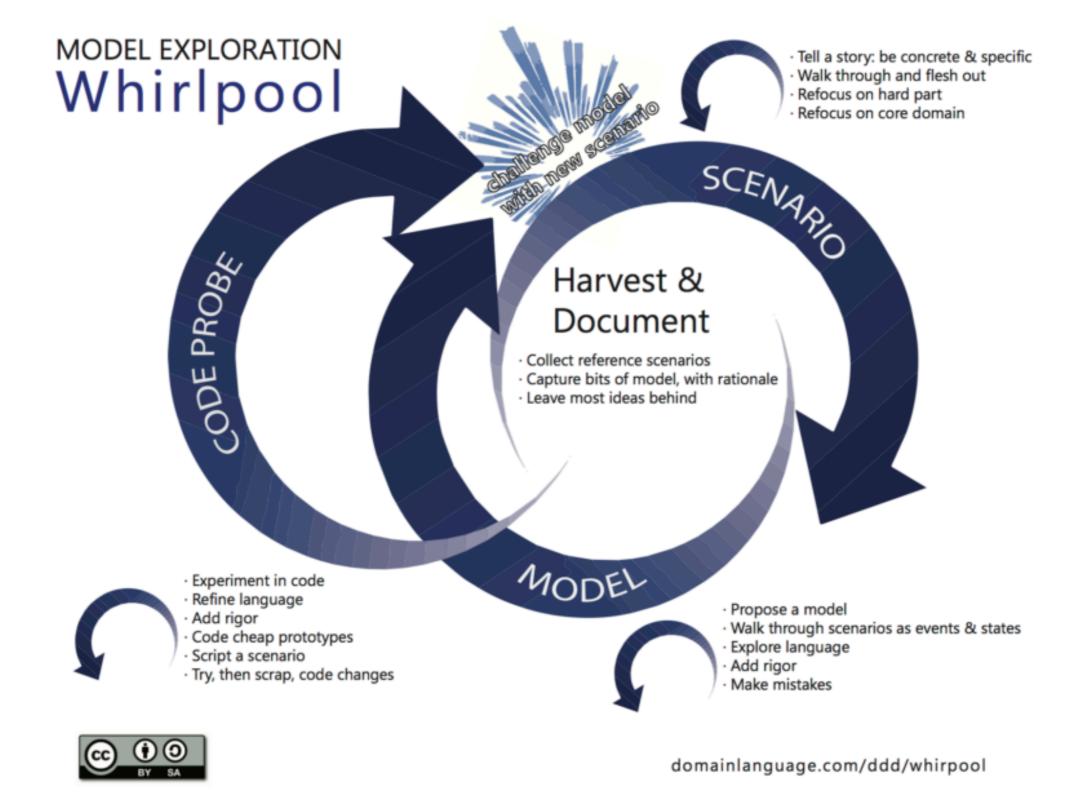
## Scenario 2: Domain Model Enriched for Discussion





## Whirlpool





Whirlpool

MODEL EXPLORATION

## Whirlpool Objectives

- Start a new project
- Explore business scenarios and domain models
- Manage exploding complexity
- Break out of a rut on an existing project
- Collaborate between the software and business teams

#### Situation

- We cannot tell the future, so Agile rightly rejects Up-Front modeling
- Focusing on completing one task at a time creates an incentive for expedient design decisions and often leads to design fragmentation
- Over time this leads to complex and unmaintainable code

## Modeling in DDD

- Up-Front Modeling is the opposite of DDD-Modeling
- DDD-Modeling is a distillation of knowledge

## When to Model: Watching for Signals

no fixed time (maybe never). From push to pull

#### · When:

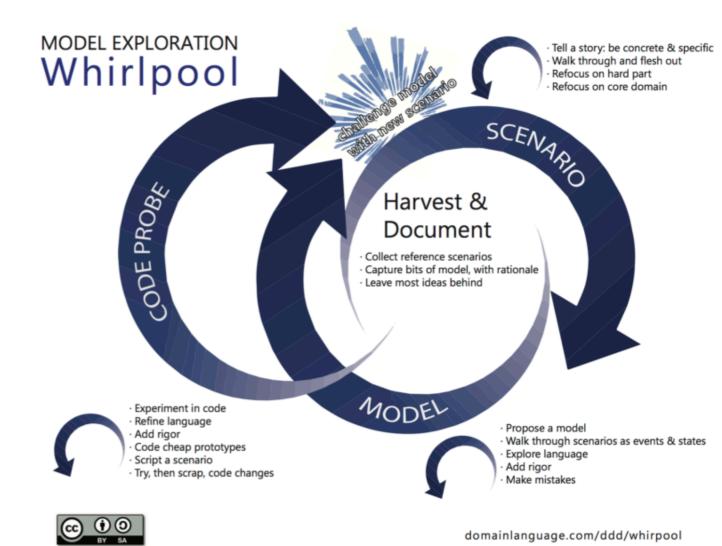
- Communications with stakeholders deteriorates
- Solutions seem more complex than the problems
- Velocity slows (completed work becomes a burden)
- Team is moves to a new domain area for the first time and needs a overview to get started

## Whirlpool Activities

- Brainstorm
- Scenario Phase (Overlaps Modeling Phase)
- Modeling Phase (Overlaps Scenario)
- Challenge the Model
- Harvest & Document
- Code Probe

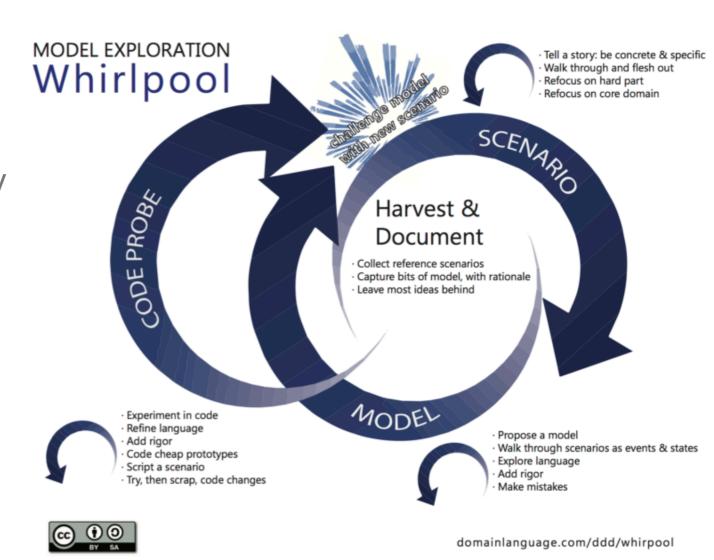
#### Brainstorm

- Reference Scenarios
- Alternative models of Domain
- No Commitments
- Only Options



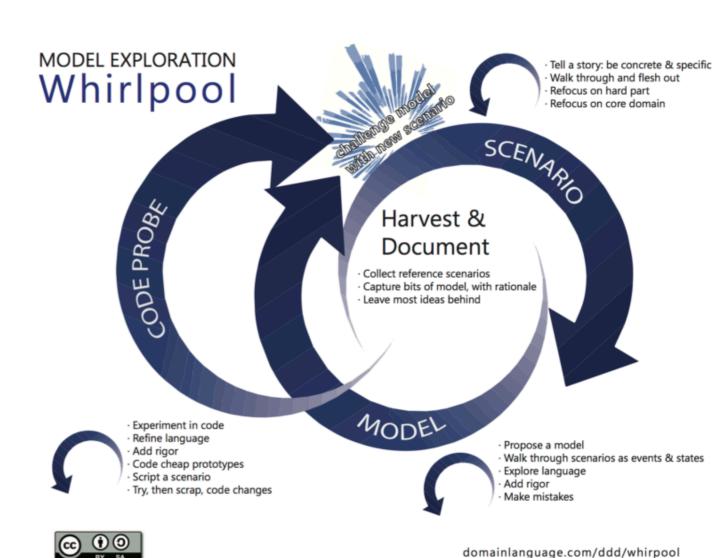
#### Scenario Phase

- Choose Initial Scenario
- One particular path
- Domain Expert Tells a Story
- Something that might happen
- Something that causes worry



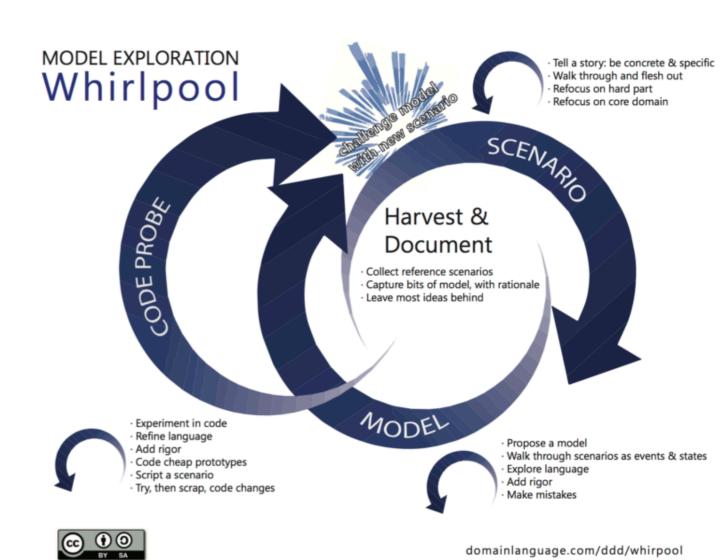
## Modeling Phase

- Step Through Scenario speaking the parts of the Model (or Models)
- Add and change Model language to express the Scenario



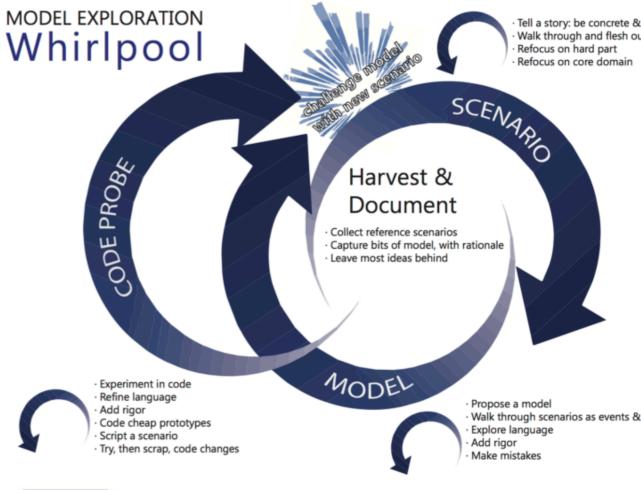
## Challenge the Model

- walk through a different reference scenario
- Find a scenario to express particular complexity
- Not just a corner case



#### Harvest & Document

- One paragraph capturing why scenario(s) is important
- Over full project expect 4-10 "Reference Scenarios"
- Document any significant model
  - Capture the design rationale
  - Capture walk through with state changes
- Leave most ideas behind





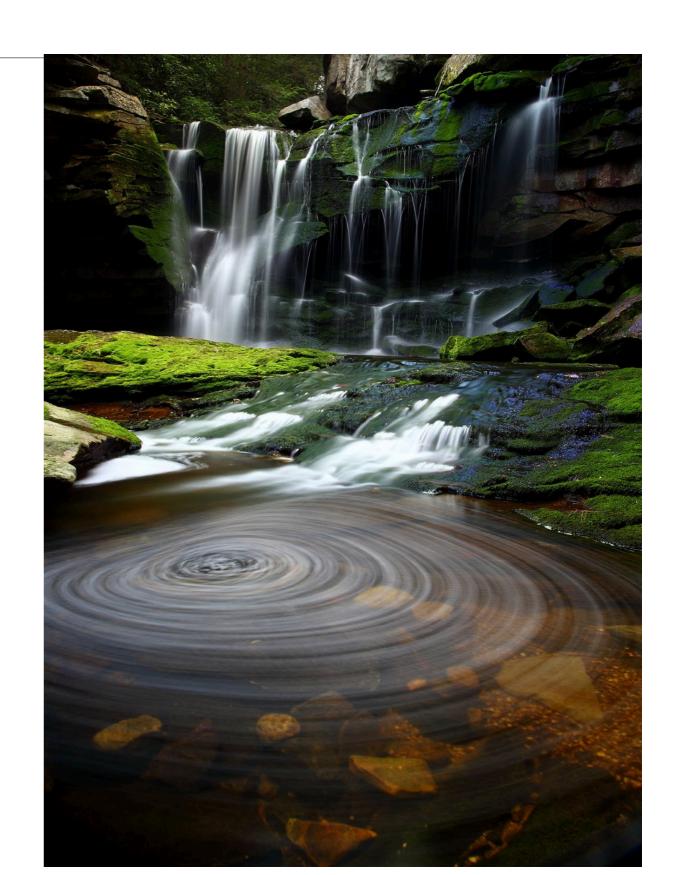
## Code Probe

- If a viable idea emerged
- Test it in code
  - Eliminate all CRUD
  - What makes this hard



## Agile Process Hooks

- Stand Up Meeting
- Spike
- Iteration Zero
- Iteration Planning / Estimating
- Release Planning



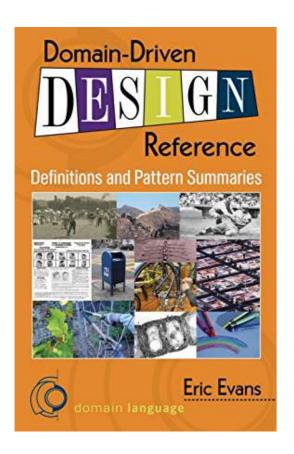
## Constraints

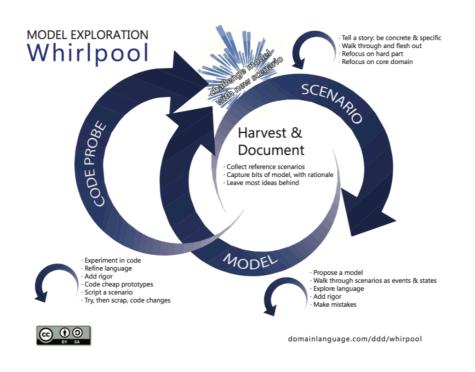


Everyday Astronaut interviews Elon Musk

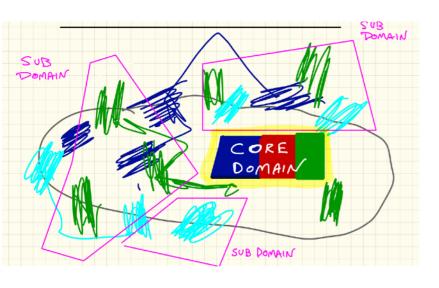
## Tips

- Question Constraints
  - Constraints are guaranteed to be wrong
  - Frame the Question
- Confirm the Obvious
- Ask Stupid Questions



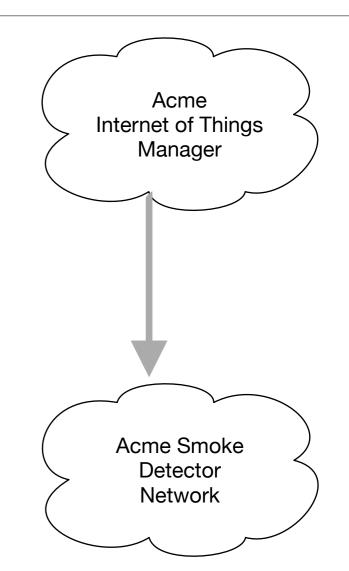








The End



#### Whirlpool article

 https://www.yumpu.com/en/document/read/3629406/model-explorationwhirlpool-domain-language-home

#### Full Elon Musk Interview

https://www.youtube.com/watch?v=clQ36Kt7UVg

#### Marco Heimeshoff - DDD 2018: Software Development Is Not About Software

https://www.youtube.com/watch?time\_continue=2&v=5AcYKhB4hu4

#### DDD Wiki

http://ddd.fed.wiki.org/view/welcome-visitors/view/domain-driven-design