

# About Andrea

Programming professionally for years



- Finance
- Video Games
- TV, etc

I am a consultant specialising in Functional programming and Software Architecture.

roundcrisis.com

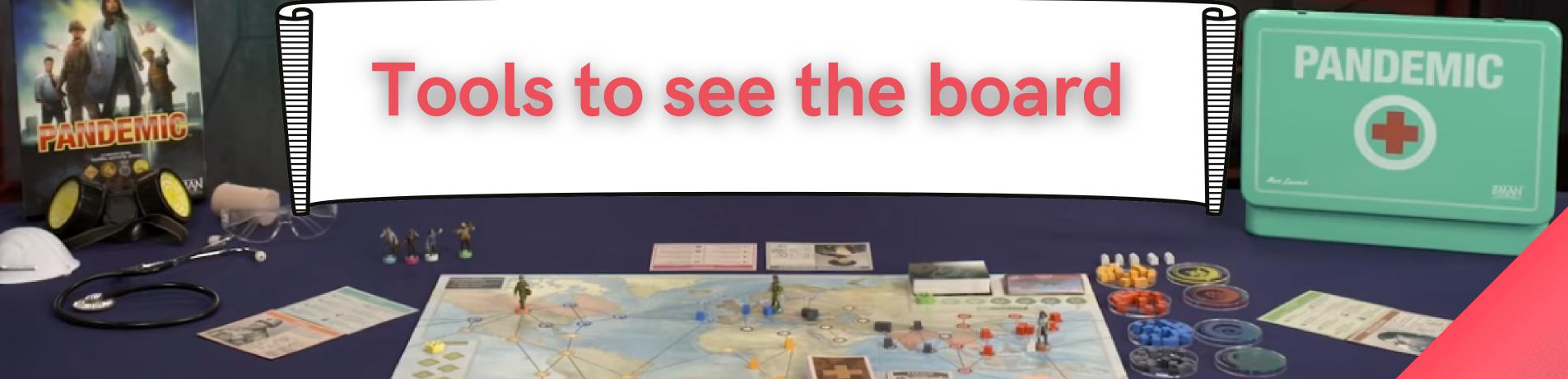


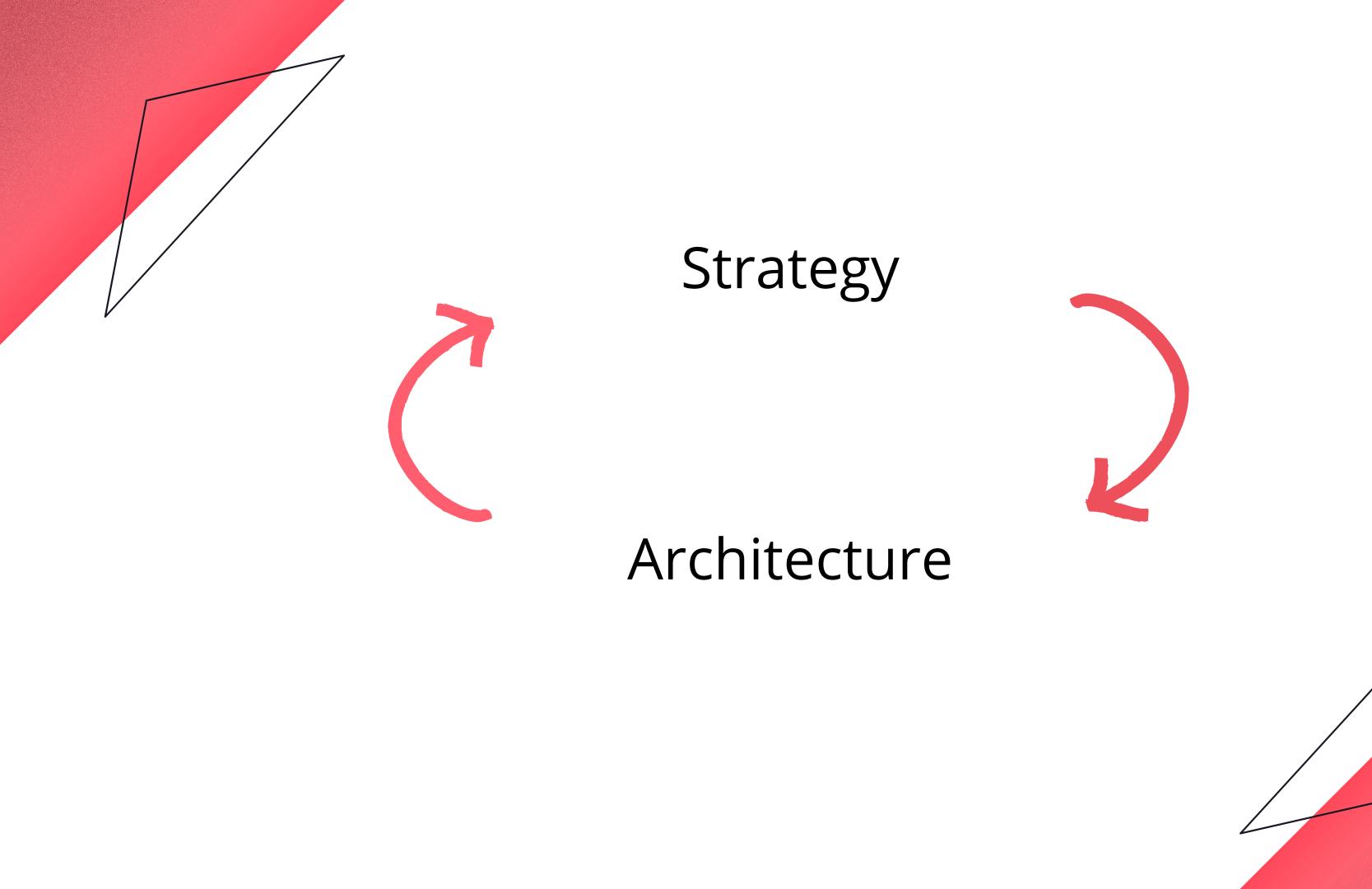
# Questions?

slido.com and enter #569895













Spent time this week validating it was safe to delete a bunch of reporting code that (1) worked, (2) was correct, (3) I spent a lot of time creating, and (4) I was personally proud of. Nobody was really using them.

Why delete them? Because code is a liability and not an asset.

4:49 pm · 20 Apr 2022 · Buffer

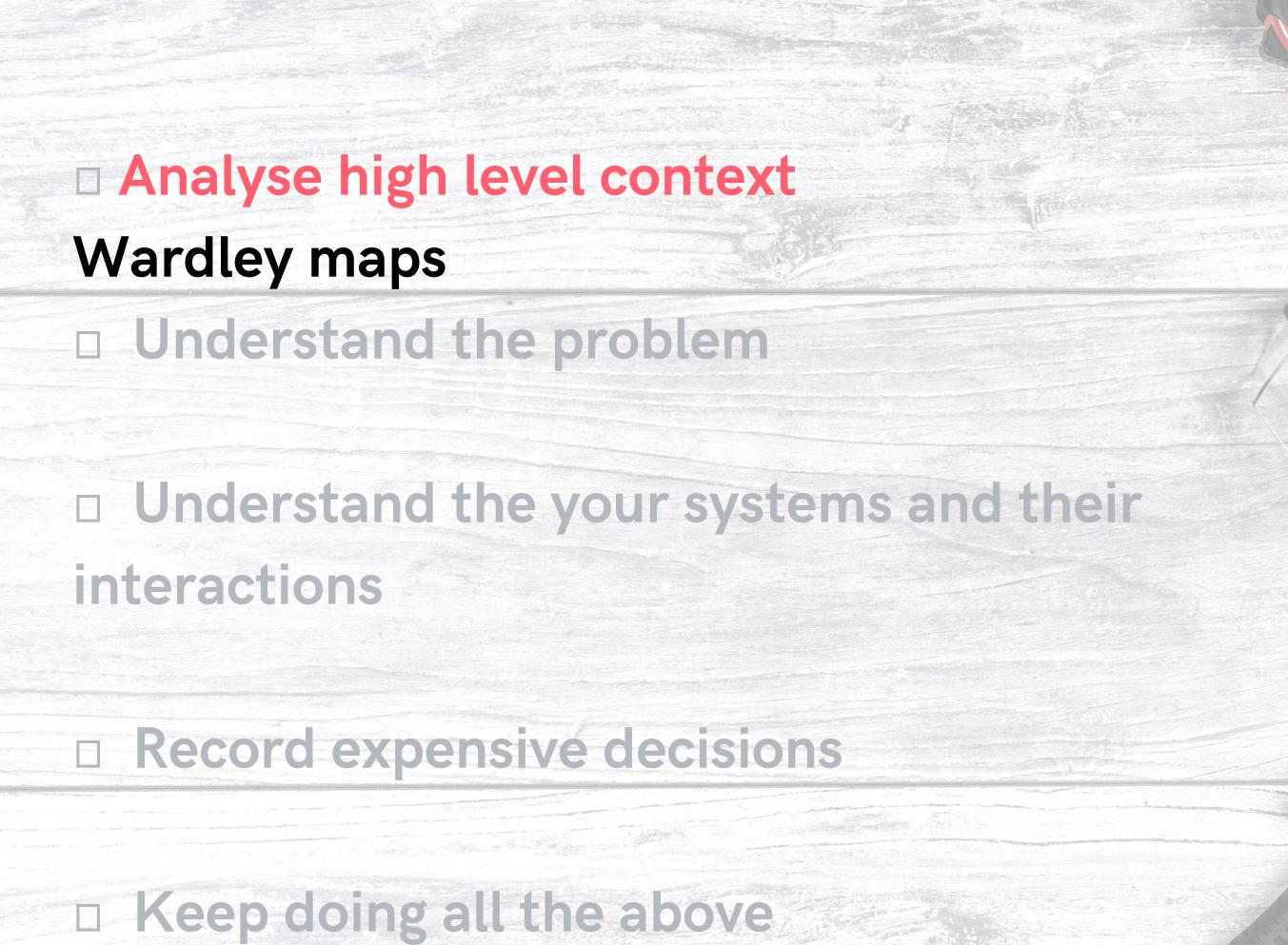
source: https://twitter.com/searls/status/1516806149940686856

related: https://wiki.c2.com/?SoftwareAsLiability



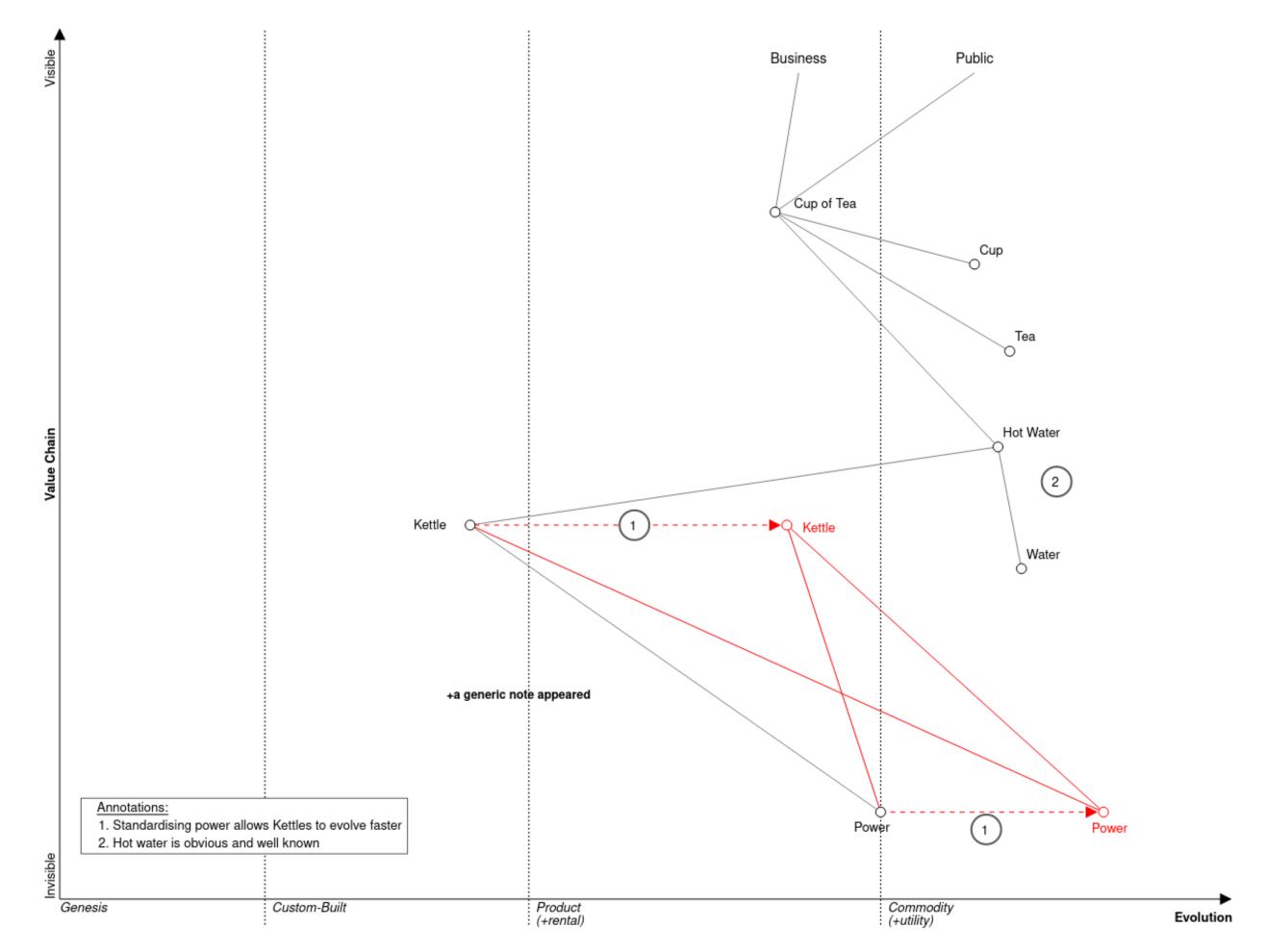
# Like planning, modelling is it's own reward



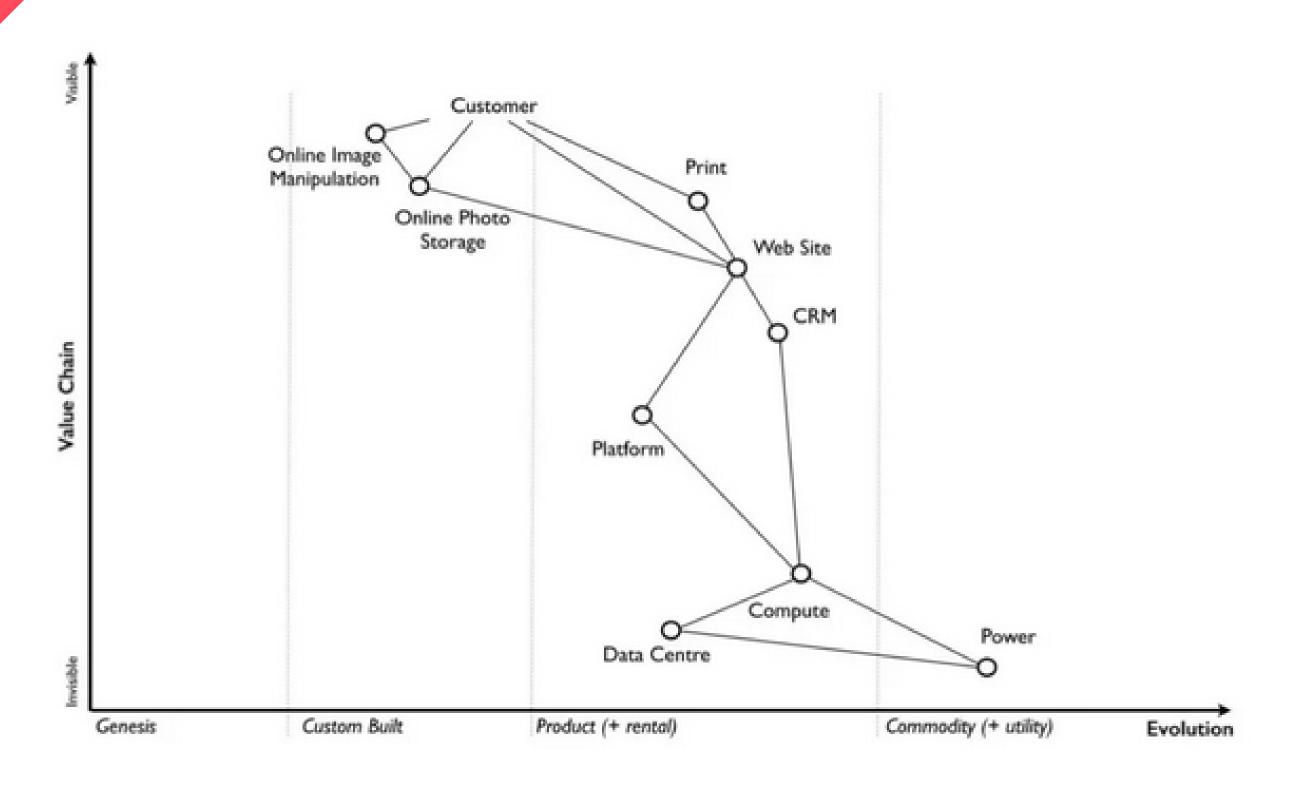


## Wardley Maps

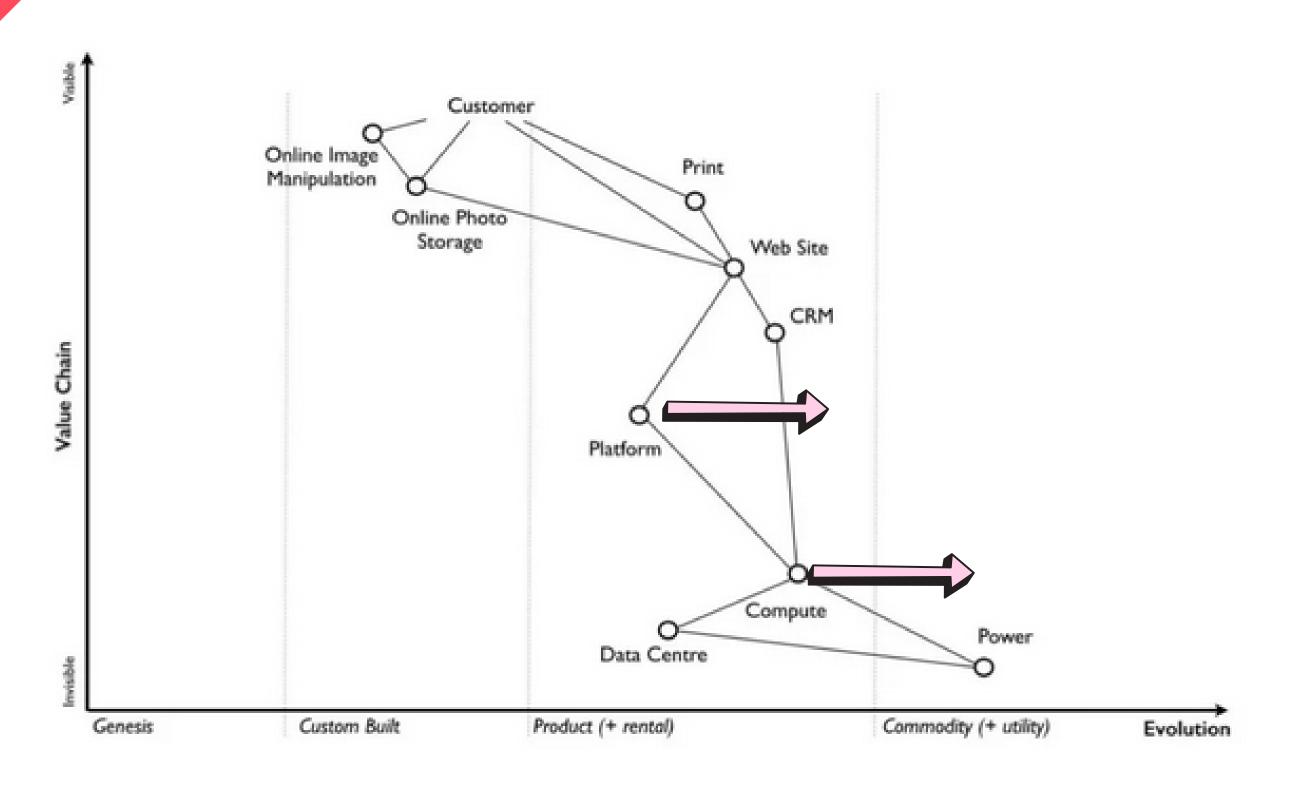
- Visualisation of systems
- Patterns of evolution
- For thinking and making decisions

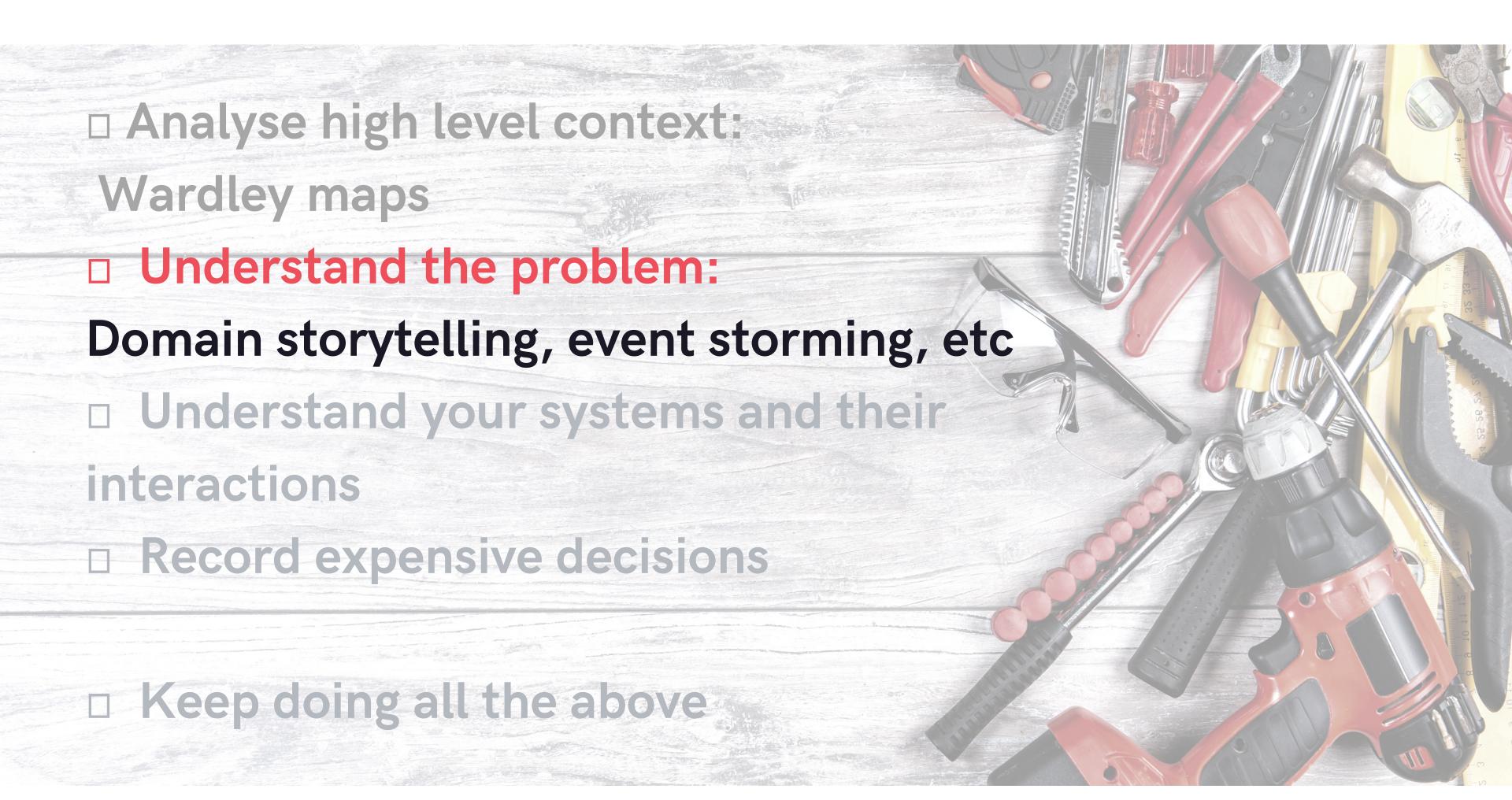


# Wardley Maps

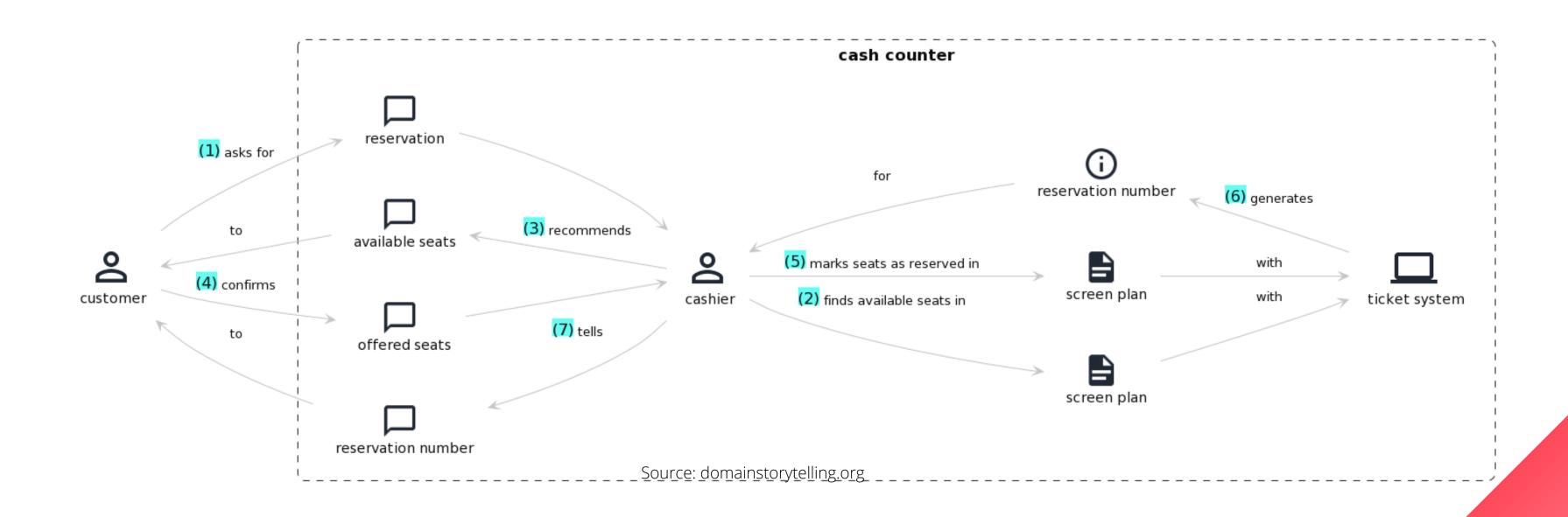


# Wardley Maps



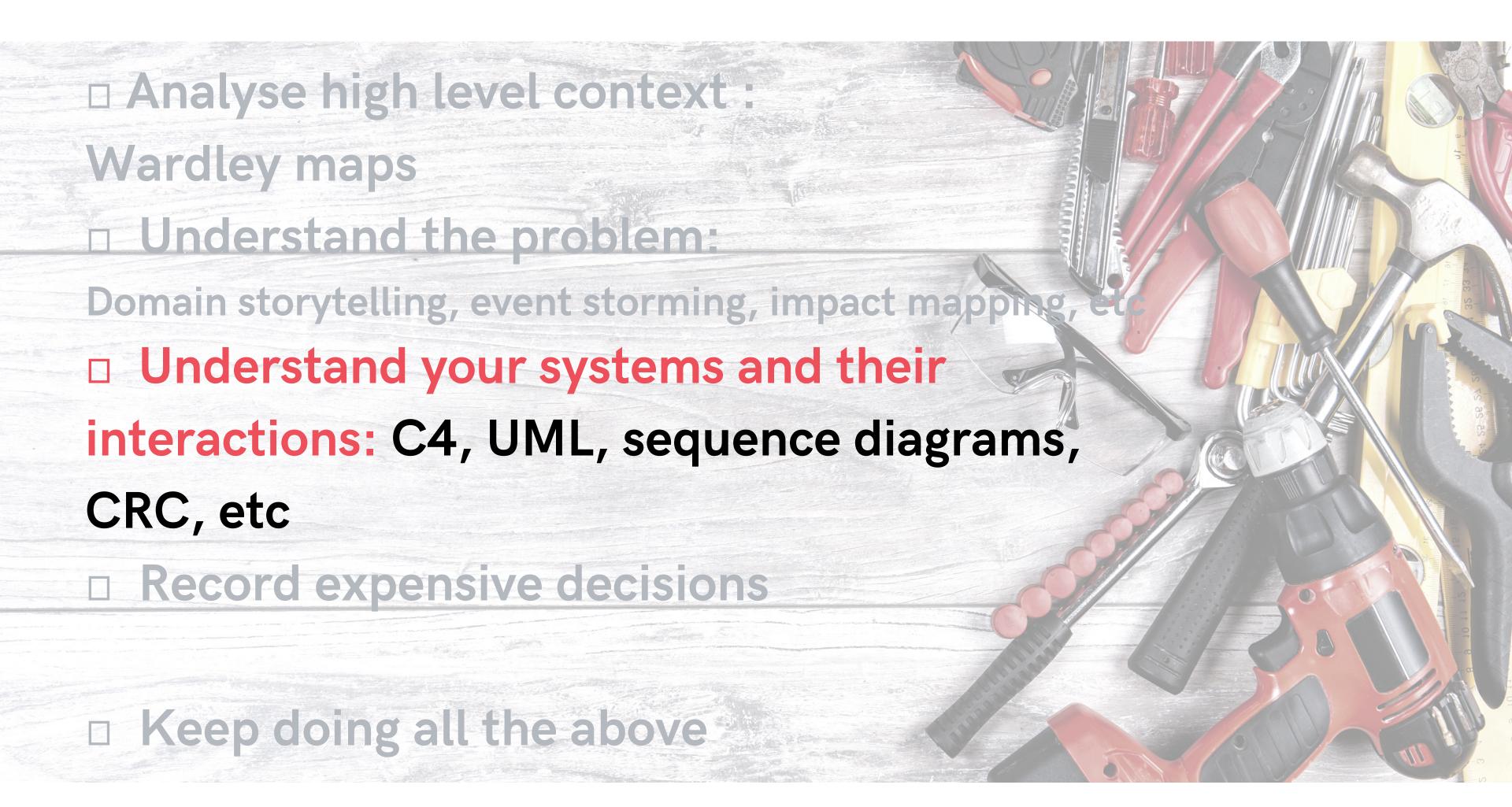


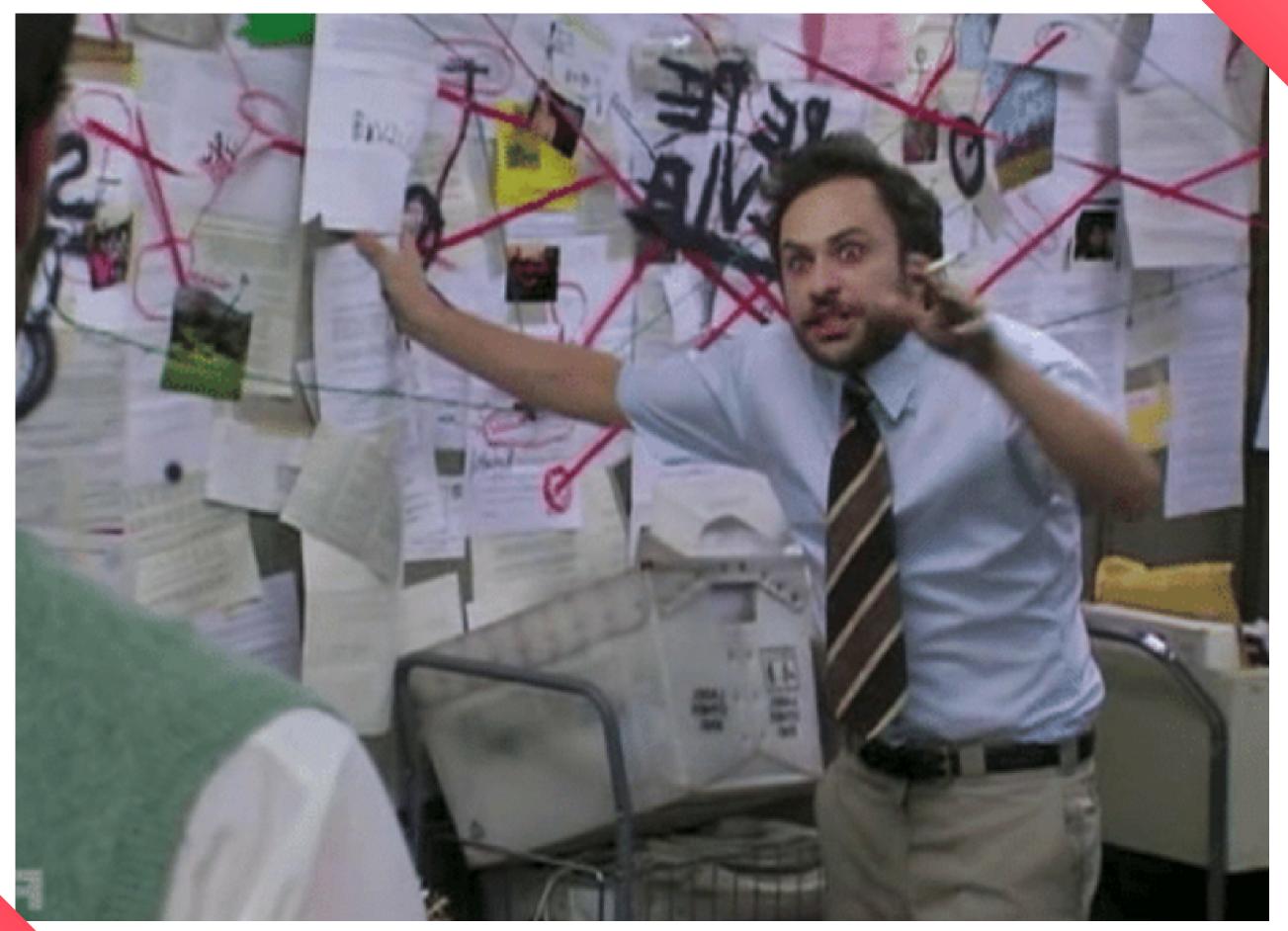
### DOMAIN STORYTELLING



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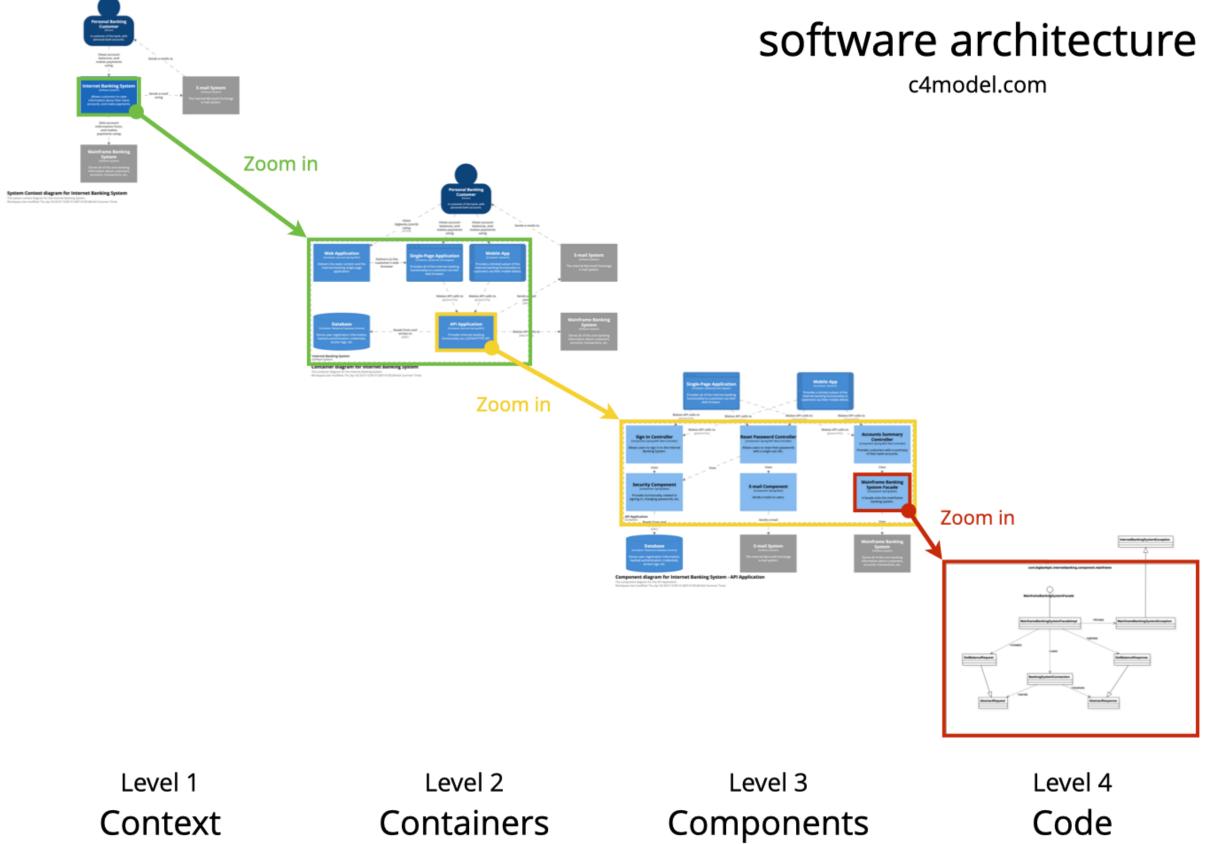
- Fully align all project participants and stakeholders
- Draw clear boundaries
- Get better requirements
- Better visibility



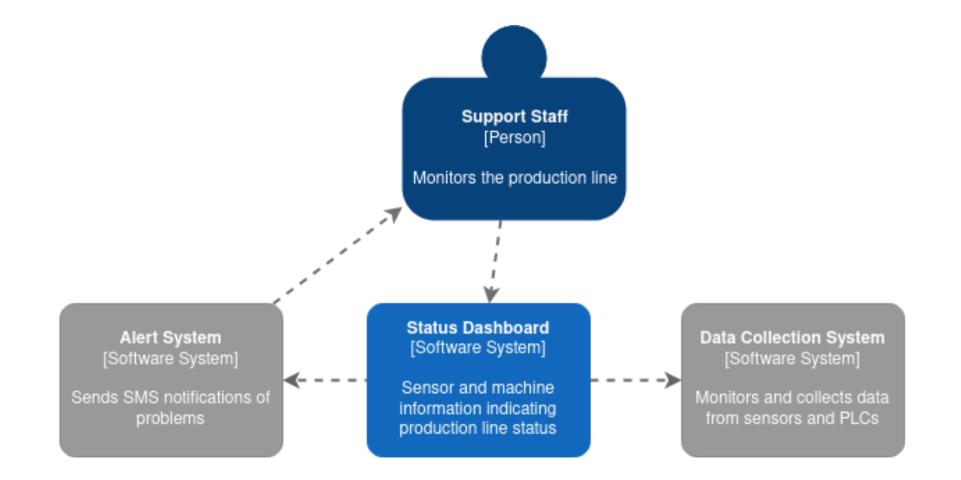


More about endo and exo languages: http://m.nautil.us/issue/54/the-unspoken/the-rise-and-fall-of-the-english-sentence

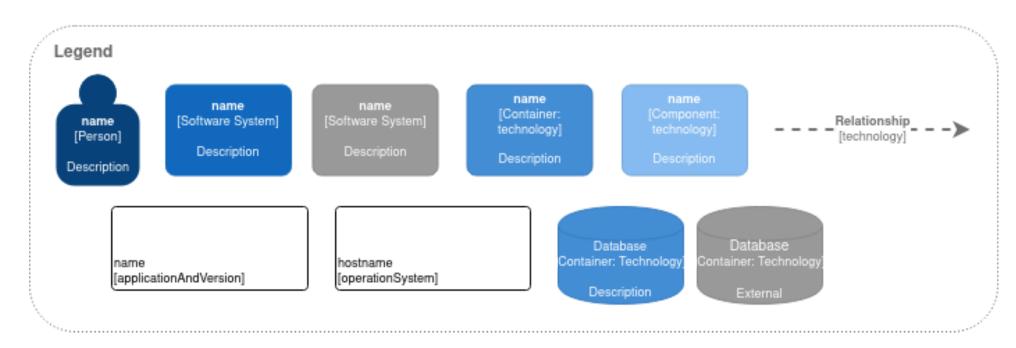
### The C4 model for visualising software architecture c4model.com



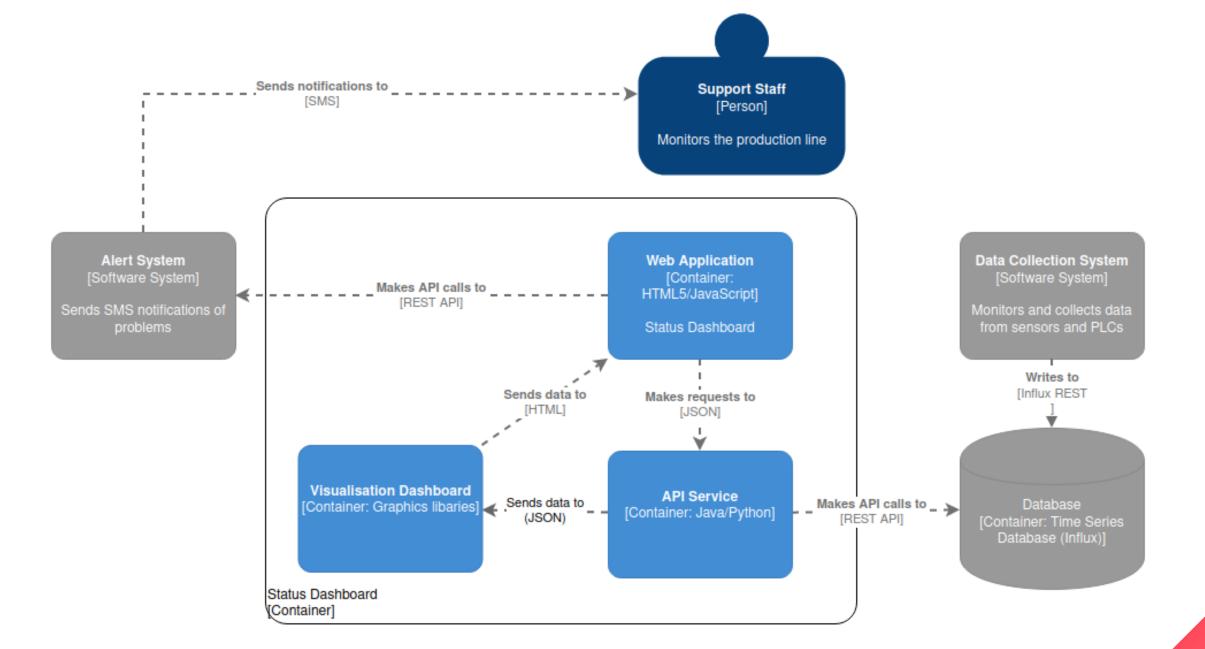
### Context



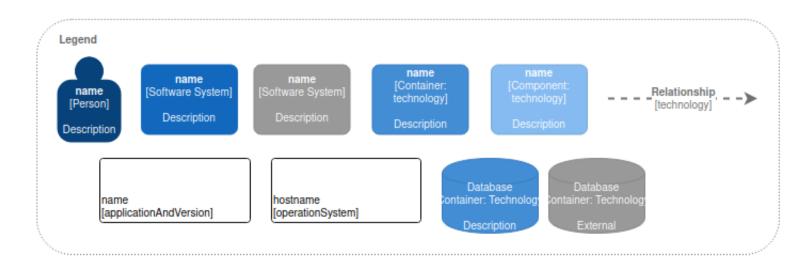
### Status Dashboard (Context)

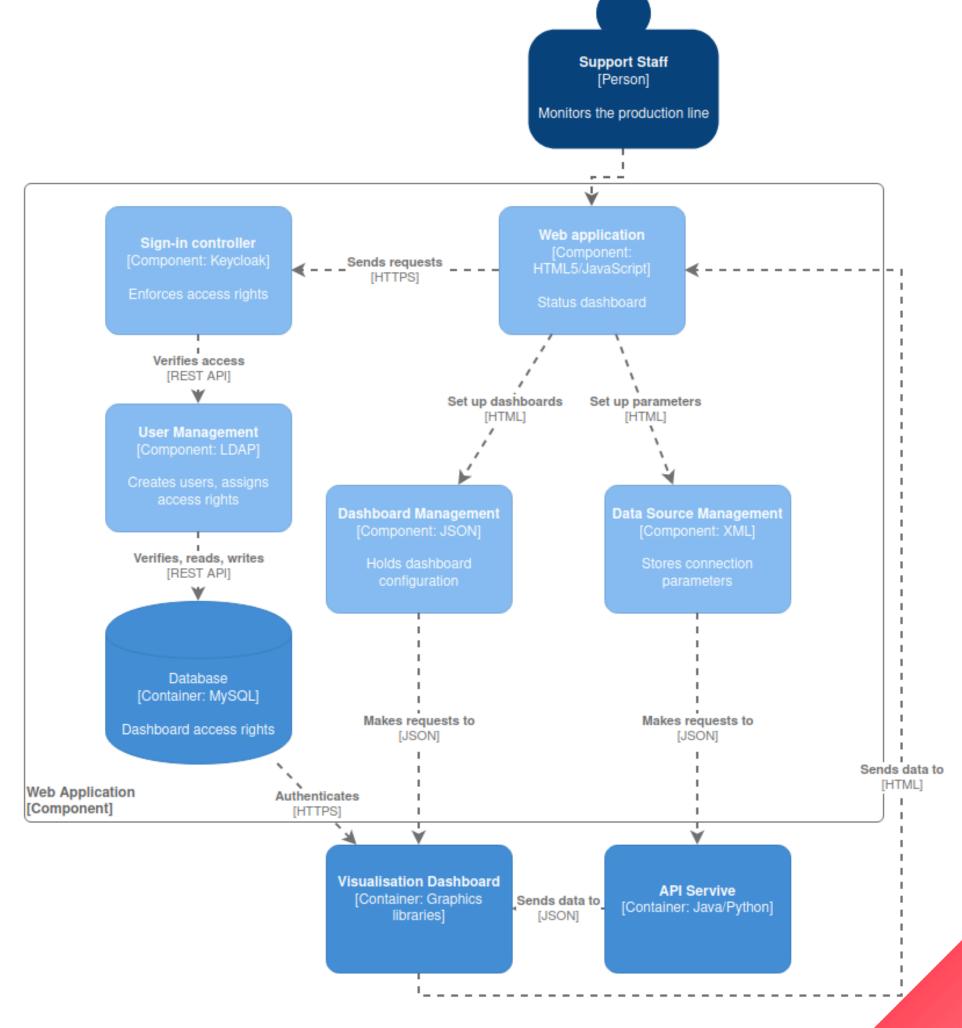


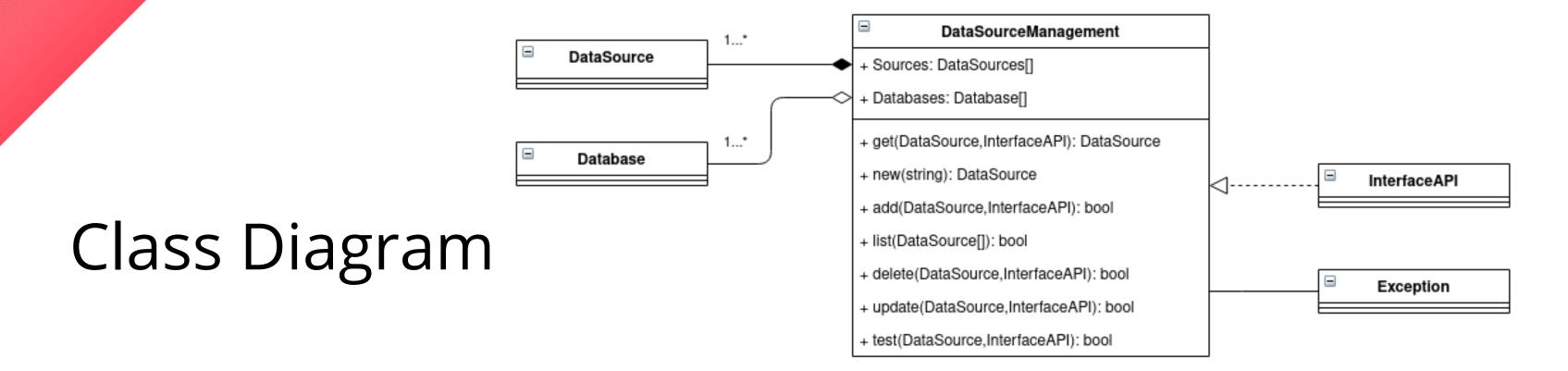
### Container



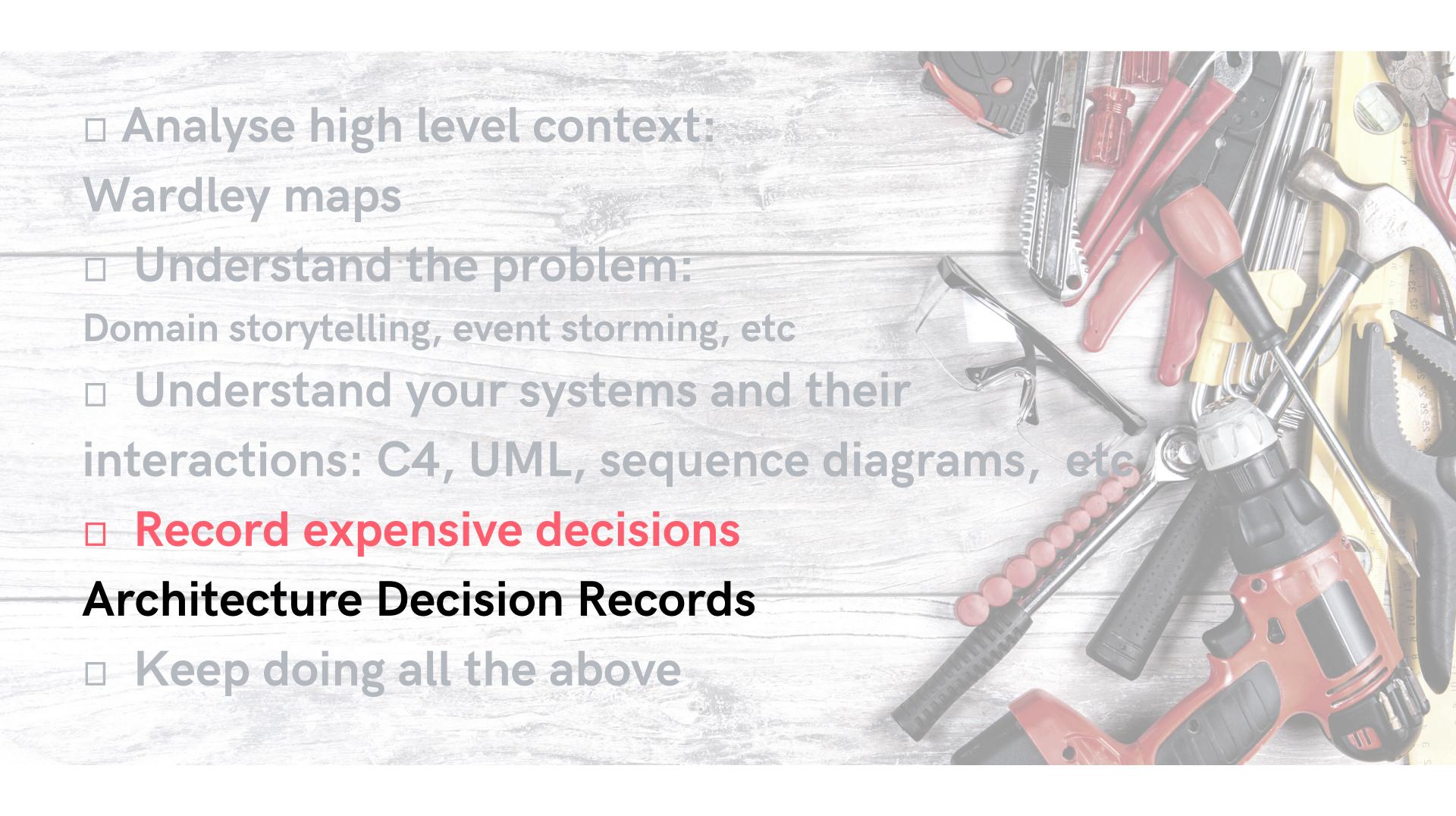
### Component







Data Source Management (UML Class)



```
# Decision record template by Michael Nygard
    This is the template in [Documenting architecture decisions - Michael Nygard] (http://thinkrelevance.com/blog/2011
    /11/15/documenting-architecture-decisions).
    You can use [adr-tools](https://github.com/npryce/adr-tools) for managing the ADR files.
    In each ADR file, write these sections:
    # Title
    ## Status
10
11
    What is the status, such as proposed, accepted, rejected, deprecated, superseded, etc.?
12
13
    ## Context
14
15
    What is the issue that we're seeing that is motivating this decision or change?
16
17
    ## Decision
18
19
    What is the change that we're proposing and/or doing?
20
21
    ## Consequences
23
    What becomes easier or more difficult to do because of this change?
24
```

25

### Secrets Storage example

### ## Summary

### ### Issue

We need to store secrets, such as passwords, private keys, authentication tokens, etc.

Some of the secrets are user-oriented. For example, our developer wants to be able to use their mobile pho

Some of the secrets are system-oriented. For example, our continuous delivery pipeline needs to be able to

### ### Decision

Bitwarden for user-oriented secrets

Vault by HashiCorp for system-oriented secrets.

### ### Status

Decided. We are open to new alternatives as they arise.

### ## Details

### ### Assumptions

For this purpose, and our current state, we value user-oriented convenience, such as usable mobile apps.

\* We want to ensure fast easy access on the go, such as for a developer doing on-call system reliability

source: https://github.com/joelparkerhenderson/architecture-decision-record/



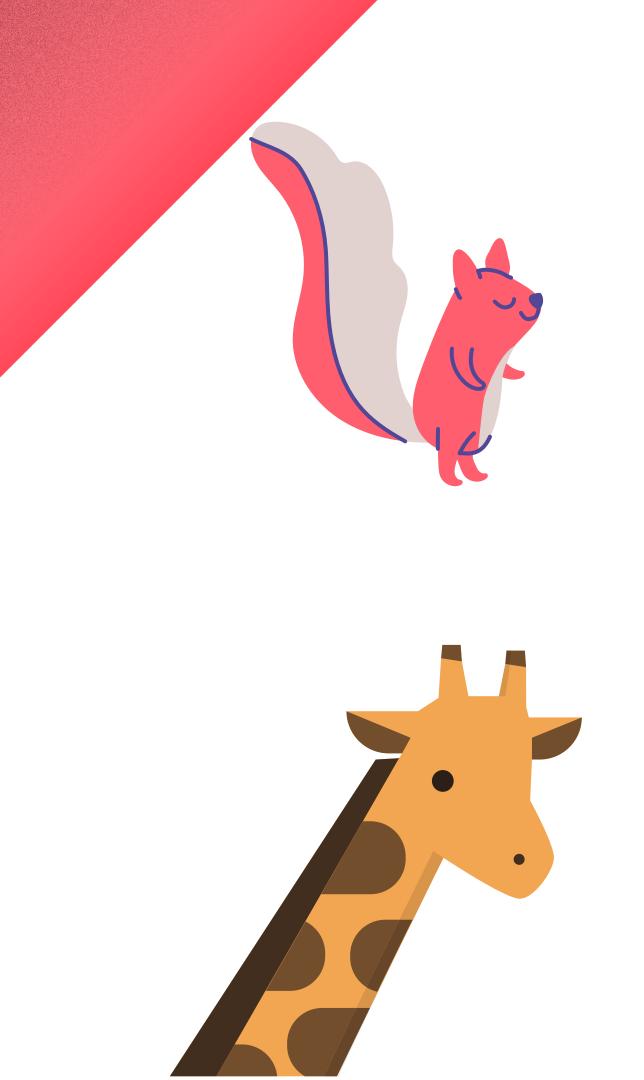


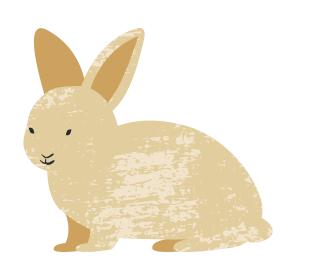
# Bytesize Architecture Sessions

Why do this?

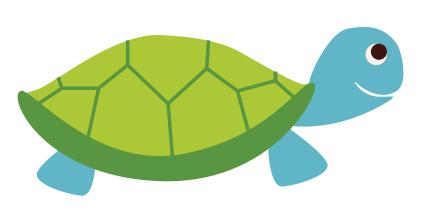
- Avoid silos of knowledge
- Avoid design by "boiling the ocean"











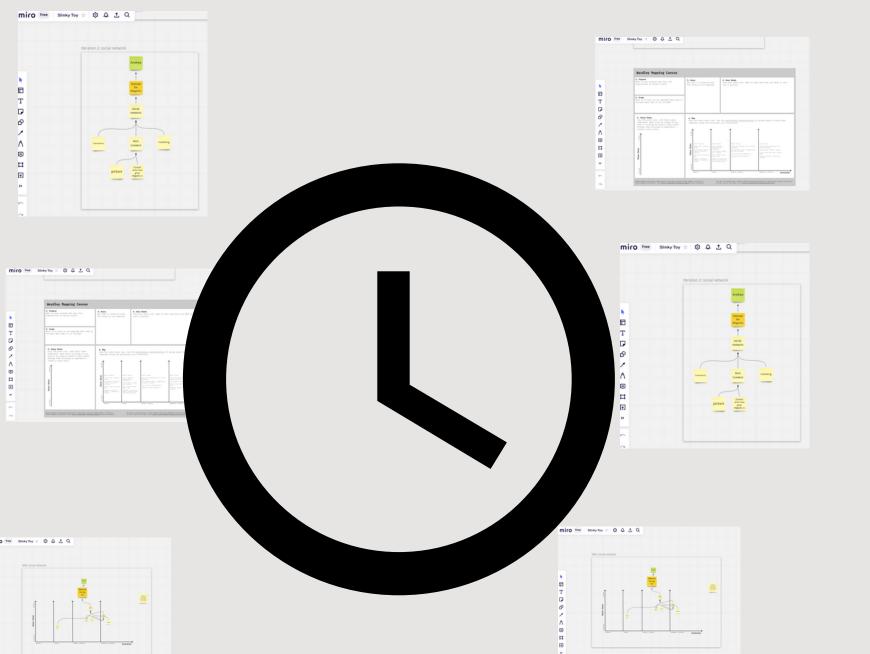




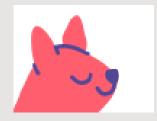


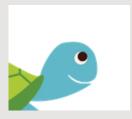












## Consensus



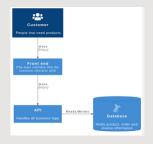
























# Iteration



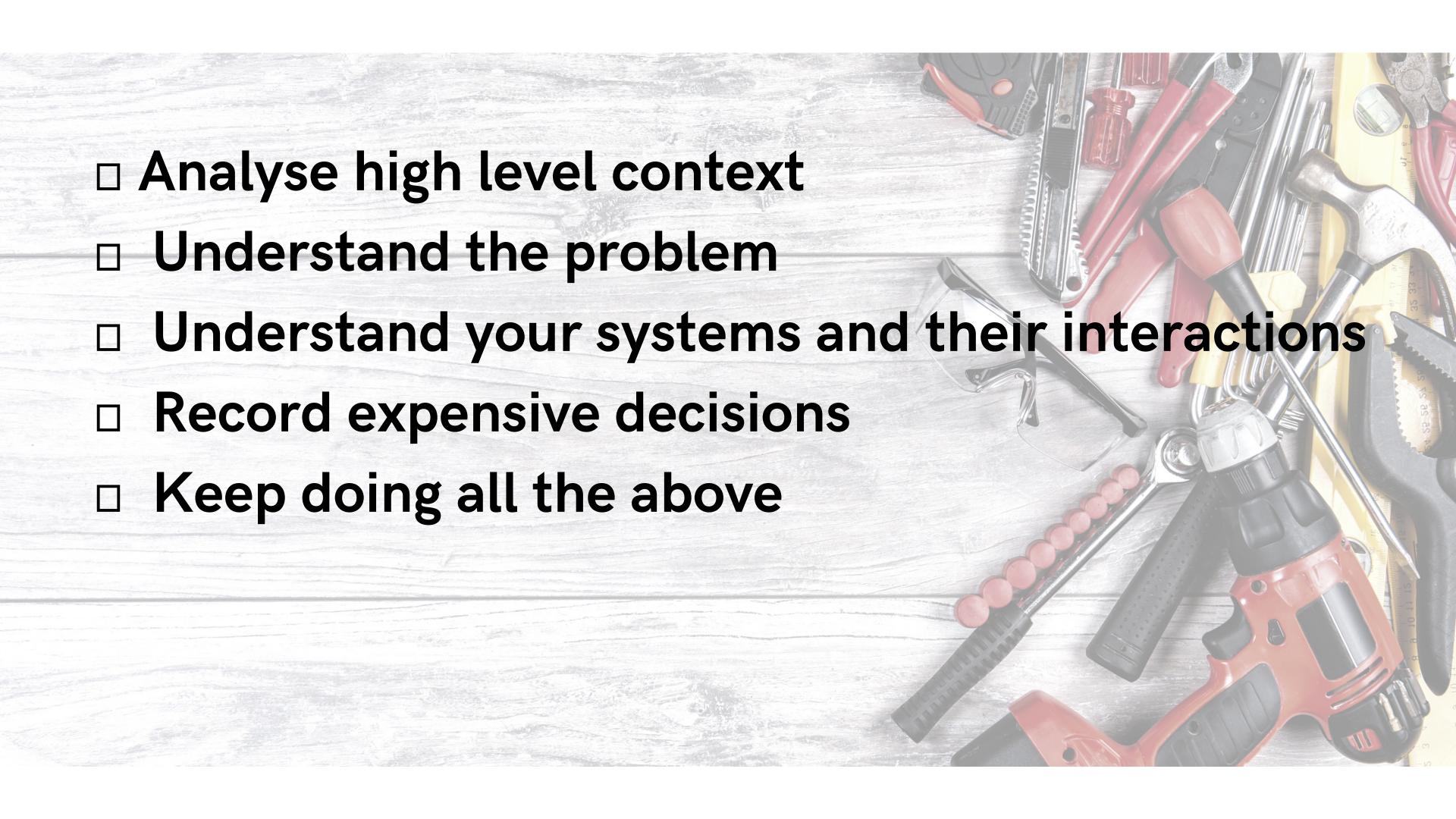


# Bytesize Architecture Sessions

### How does it work?

- Short meeting
- Recurrent
- Alone together
- Consensus







# Questions?



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### Resources

- Domaing Storytelling: https://domainstorytelling.org/quick-start-guide
  - Awesome Domain storytelling: https://github.com/hofstef/awesome-domain-storytelling
  - Domain Storytelling Facilitator's Guide to Enhance Learning in Your Organization by Mufrid Krilic https://www.youtube.com/watch?v=ANfYEt16vRI
- The C4 Model for Software Architecture https://c4model.com/
- Bytesize Architecture Sessions http://www.roundcrisis.com/2021/09/28/bytesize-architecture-sessions/
- ADR resources and tooling https://adr.github.io/
- Key characteristics of systems Russel Ackoff: https://www.youtube.com/watch?v=OqEelG8aPPk
- What is architecture https://www.bredemeyer.com/whatis.htm

### Tools

- Online Wardley maps https://onlinewardleymaps.com/
- Domain Storytelling: https://www.wps.de/modeler/
- PlantUML for C4 Diagrams: https://github.com/plantuml-stdlib/C4-PlantUML