

# Evolution of architectural components in software systems

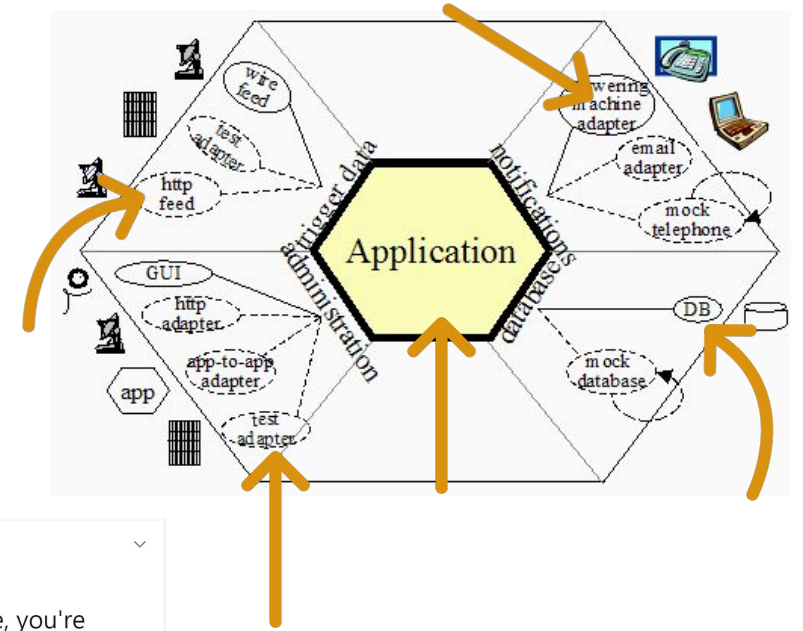
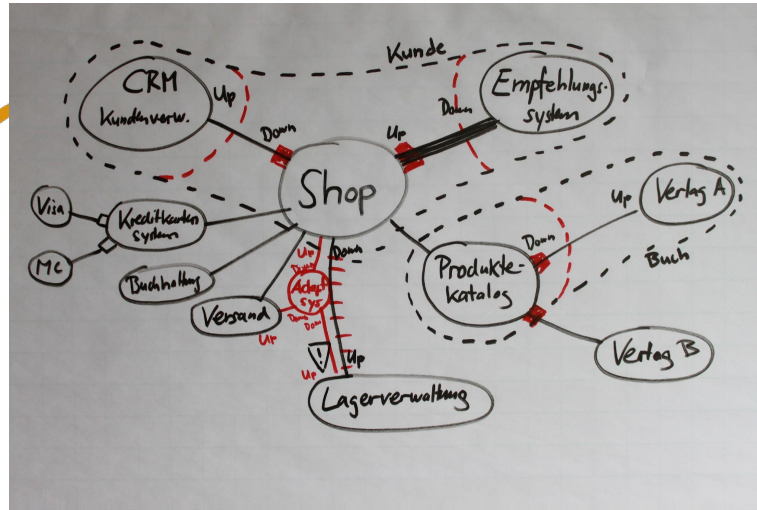
An **interactive**  
discussion

**Miro Board:** <https://bit.ly/mapcamp20-tom>

**Software Architecture** is about  
making strategic decisions.

**Wardley Maps can help.**

# Architectural Components?

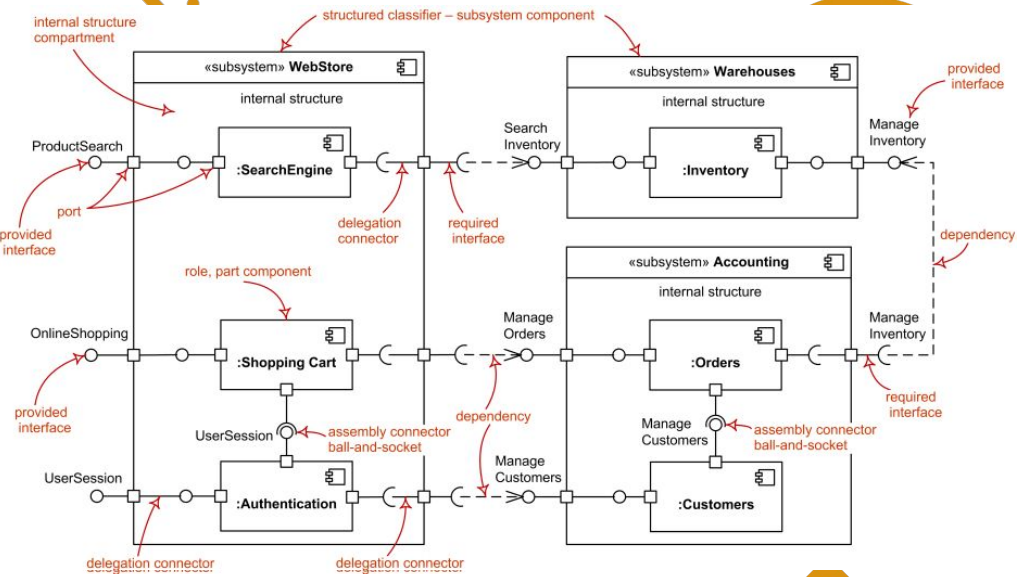


Nathan Lee  
@NathanLee

If the whiteboard isn't pretty much illegible, you're doing software architecture wrong.

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11:08 vorm. · 26. Juli 2017 · Twitter for Android



- <https://www.uml-diagrams.org>
- <https://jaxenter.de/domain-driven-design-24>
- <https://alistair.cockburn.us/hexagonal-architecture/>
- <https://twitter.com/NathanLee/status/8901368081090273>

# Components vs. **Components**

*A BUSINESS CAPABILITY*



*BUILDING BLOCK OF A SOFTWARE SYSTEM*

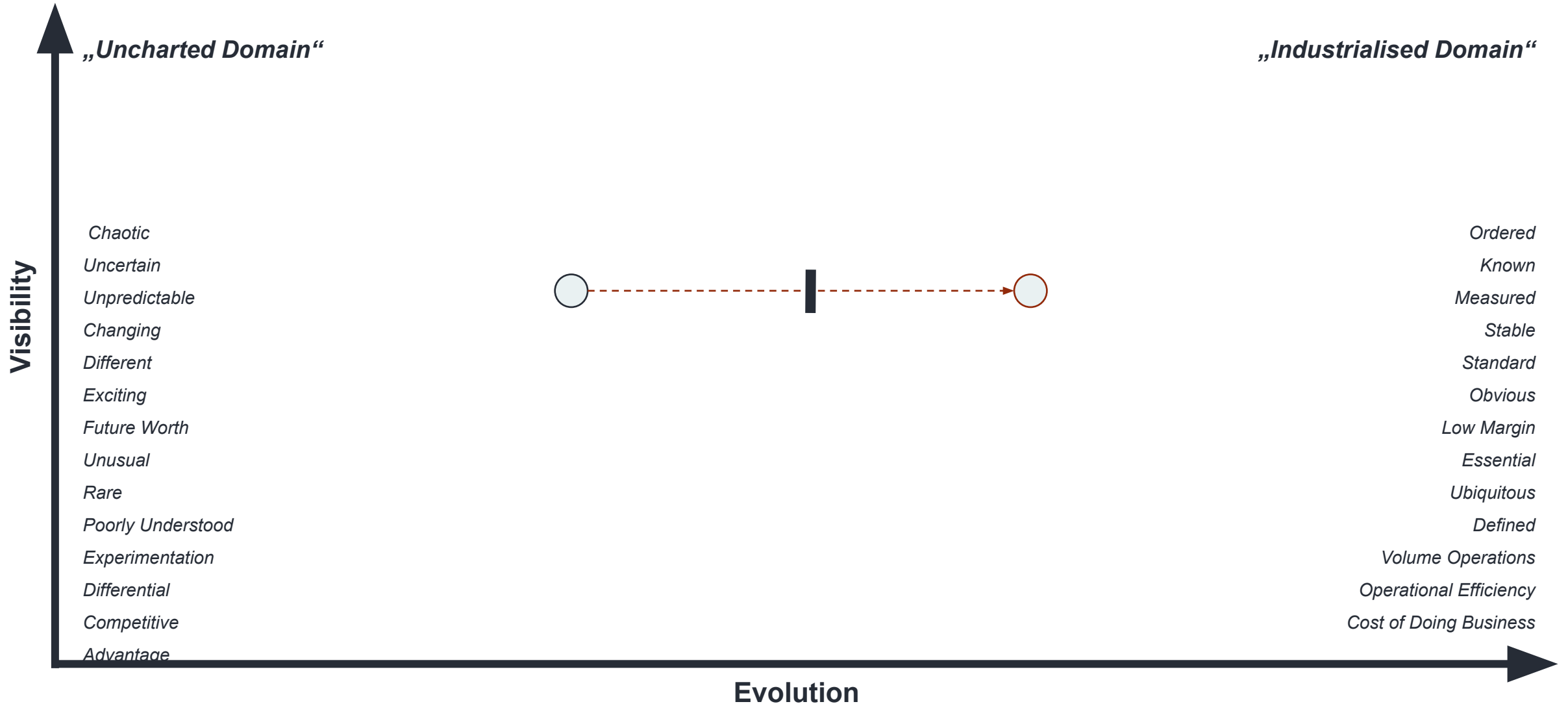
*AN ARTIFACT OF A SOFTWARE DEVELOPMENT PROCESS*



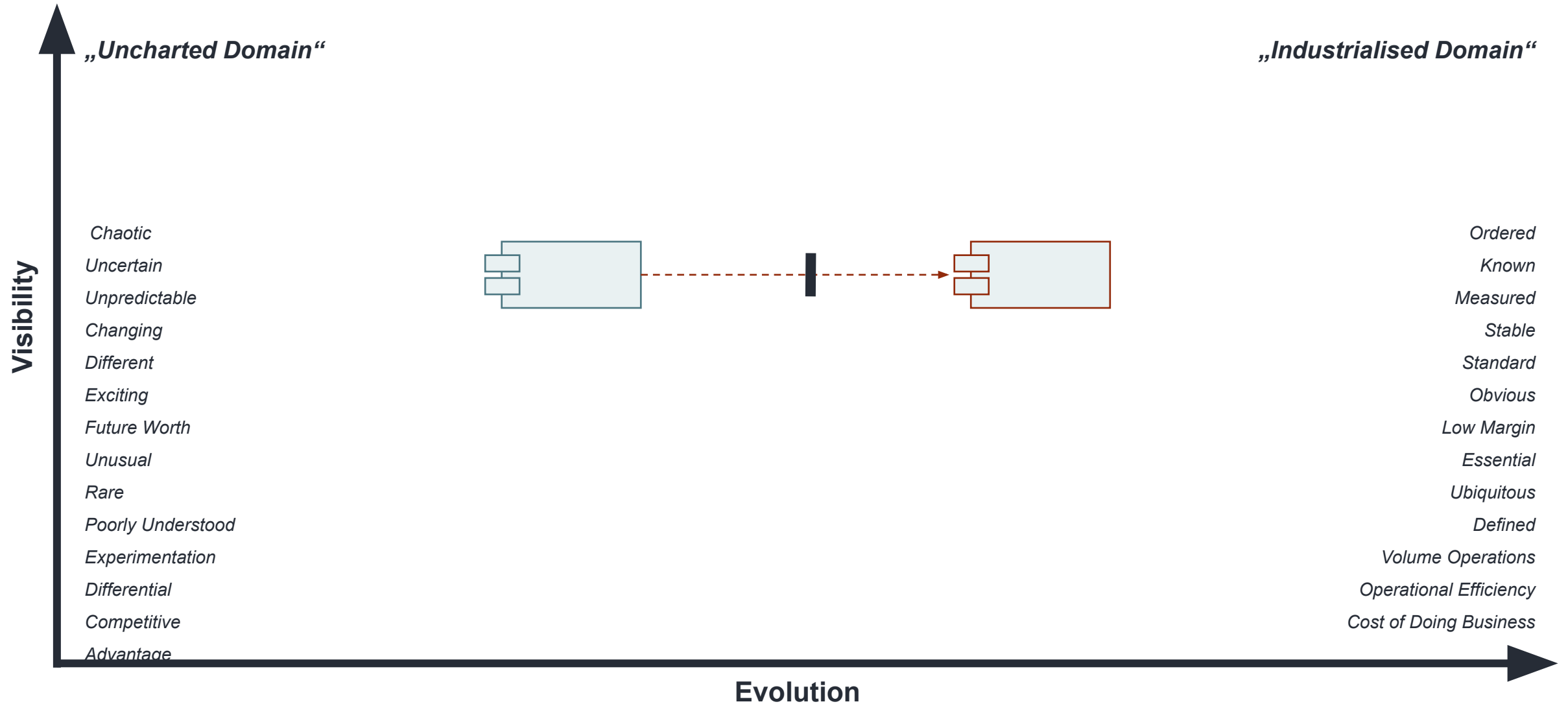
The term „component“ has a special meaning both in the context of Wardley Mapping and in **Software Architecture**.

**We have to deal with  
that.**

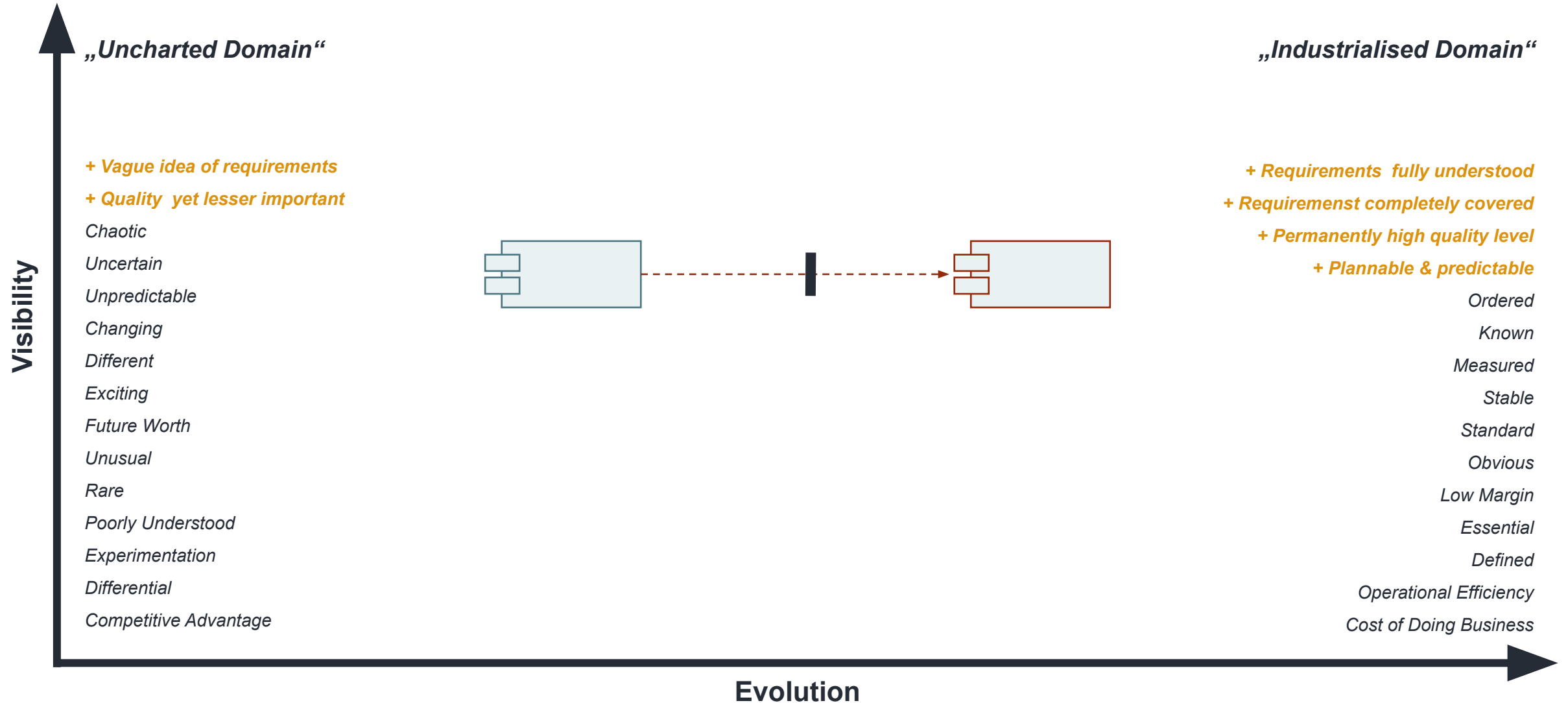
# Evolution of Components



# Evolution of Architectural Components



# Evolution of Architectural Components



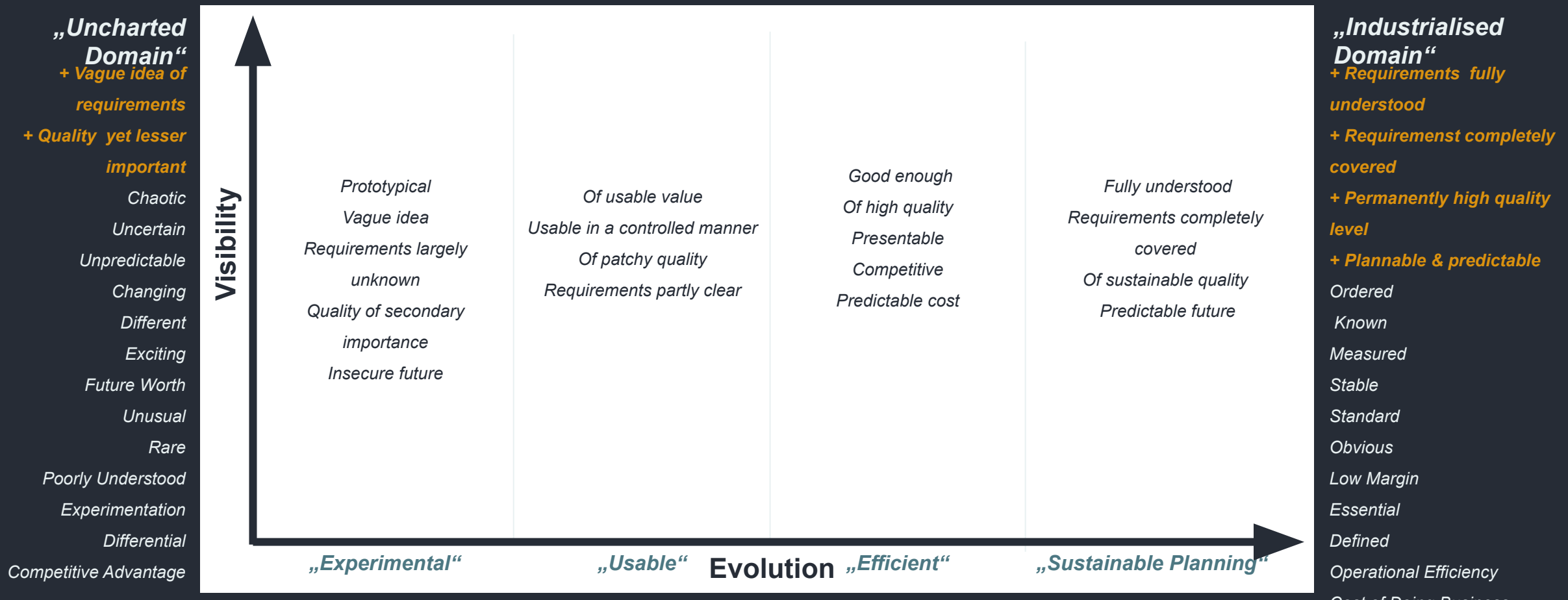
# Evolution = Movement

Key Questions:

- Where do components move to? How?
- How do **Architectural Components** evolve?
- What defines their evolution?

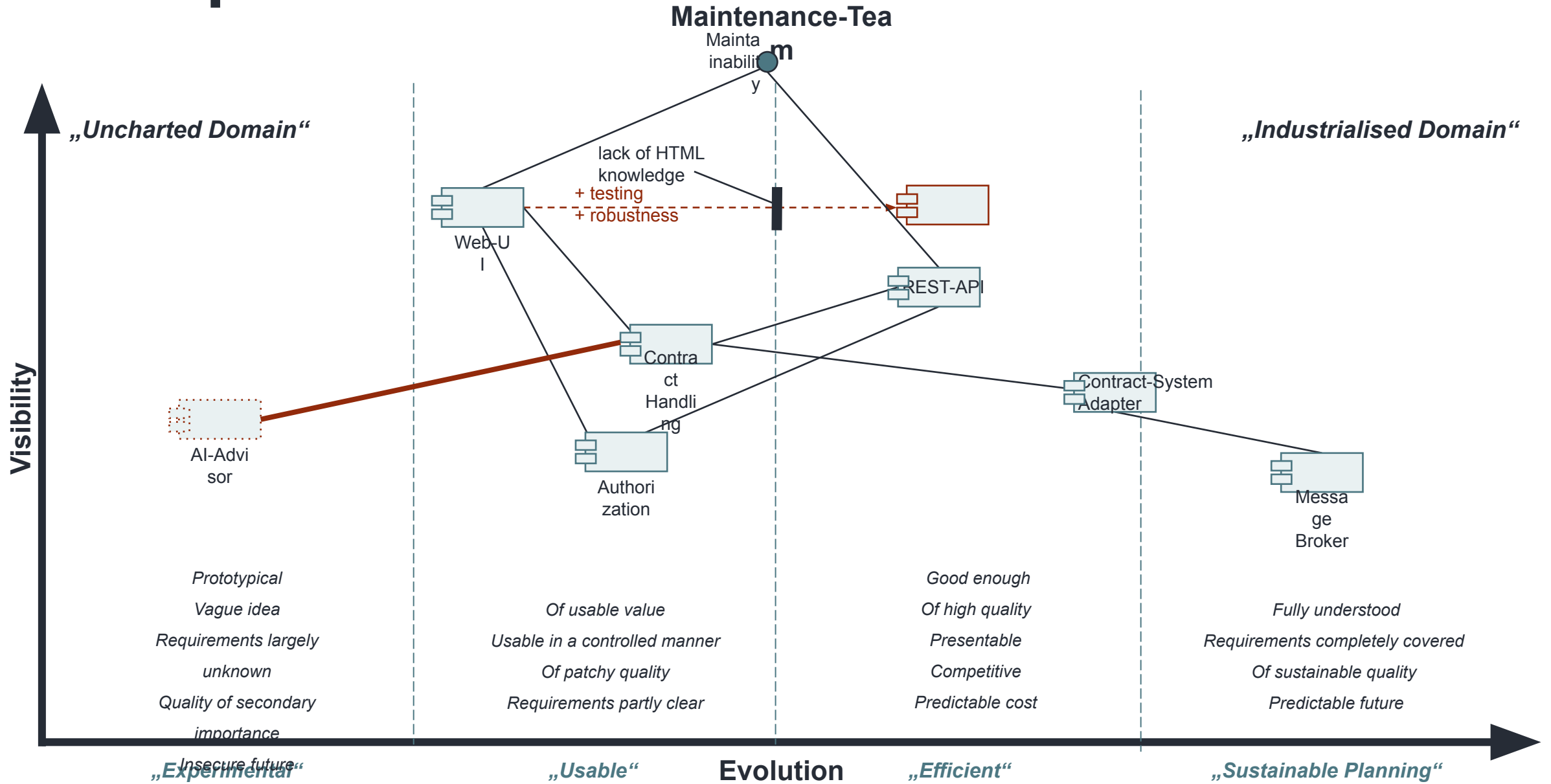


- More appropriate naming of evolutionary stages
  - May be specific to context or project!
  - Overall meaning stays more or less the same

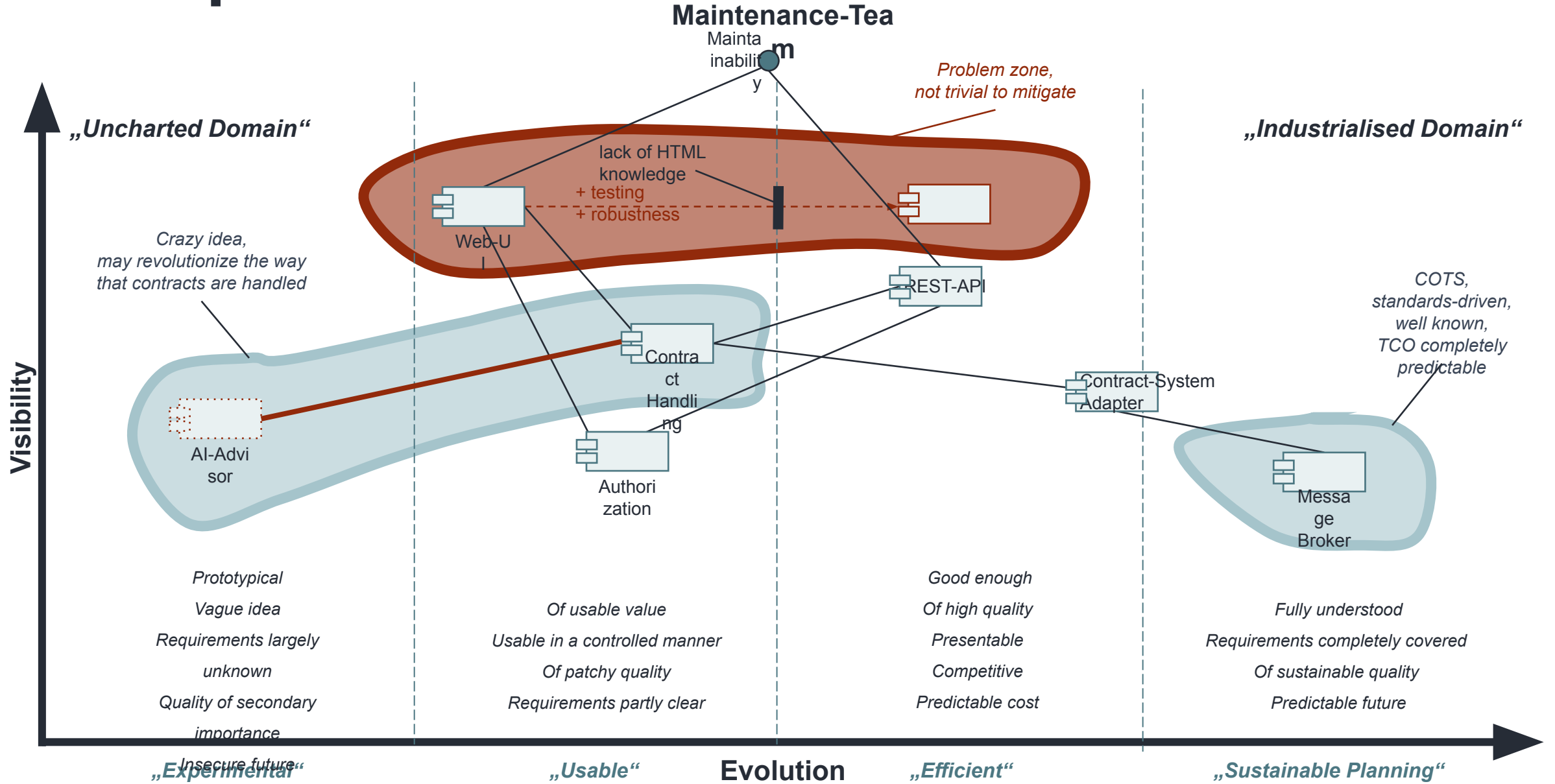




# Example



# Example



# **Discussion:**

**What is your experience?**

**Which additional characteristics are important?**

**Can we identify additional patterns?**

# Which Patterns do apply (and which don't)?

- Characteristics change as components evolve
- Success breeds inertia
- Components can co-evolve



Everything evolves through supply and demand competition



# Which Patterns do apply (and which don't)?

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? Everything evolves through supply and demand competition



*HOW ABOUT EROSION AND DRIFT? DE-EVOLUTION?*



*WHAT ELSE CAUSES MOVEMENT?*



*WHATS THE IMPACT OF AN IMPROVED QUALITY PROCESSES? CLIMATE? LANDSCAPE?*

**THIS IS THE END.**