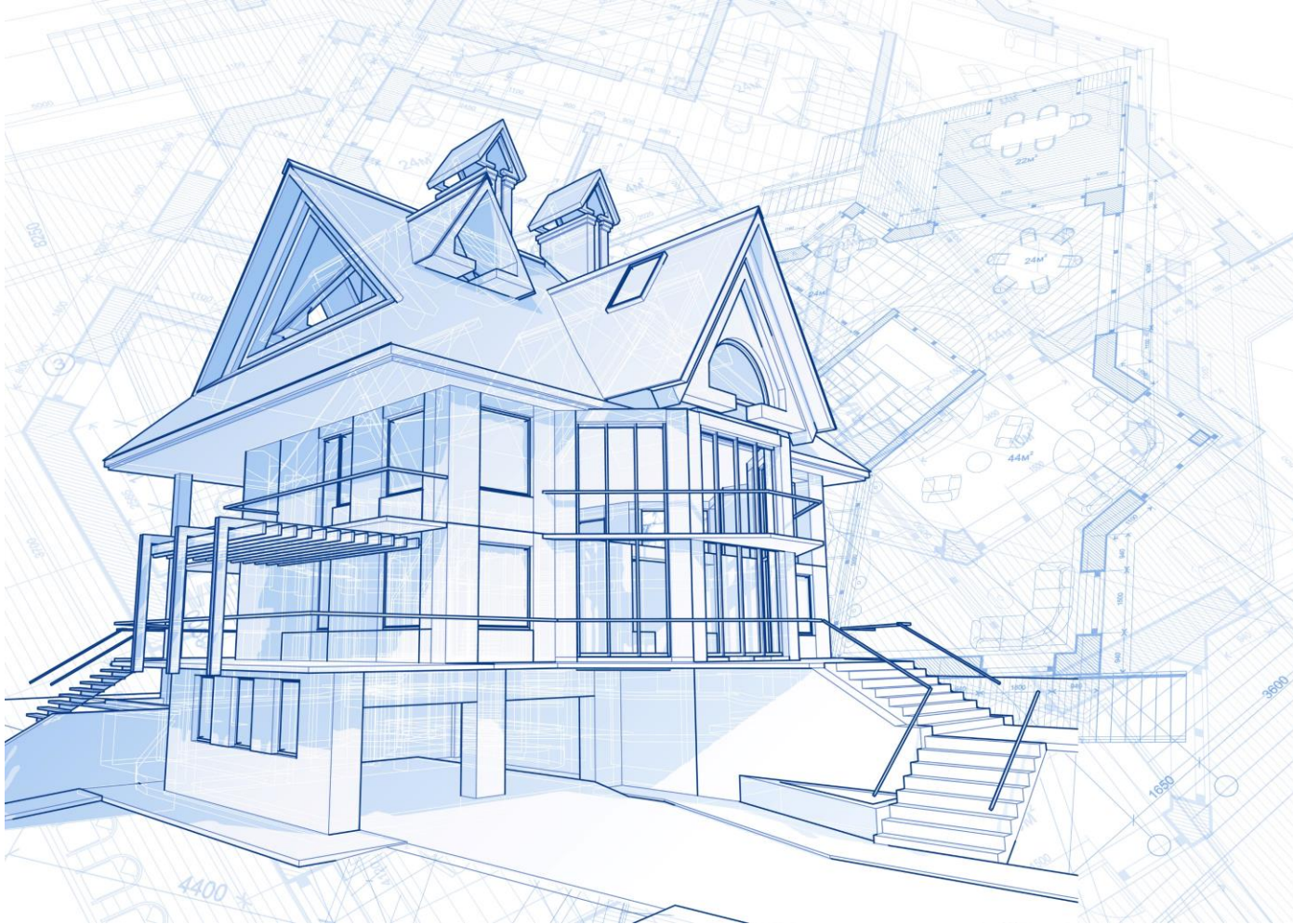Are you Well-Architected?

Let's start with an analogy

- Consider you are an architect/builder, and you have to build a house.

What customer needs?

- Customer has already explained the requirement
  - Three Bedrooms (
  - One Study Room for kids
  - 2 Bathrooms (One en suite, one common)
  - Kitchen in North Directions
  - Parking space for 2 cars
  - Etc ……
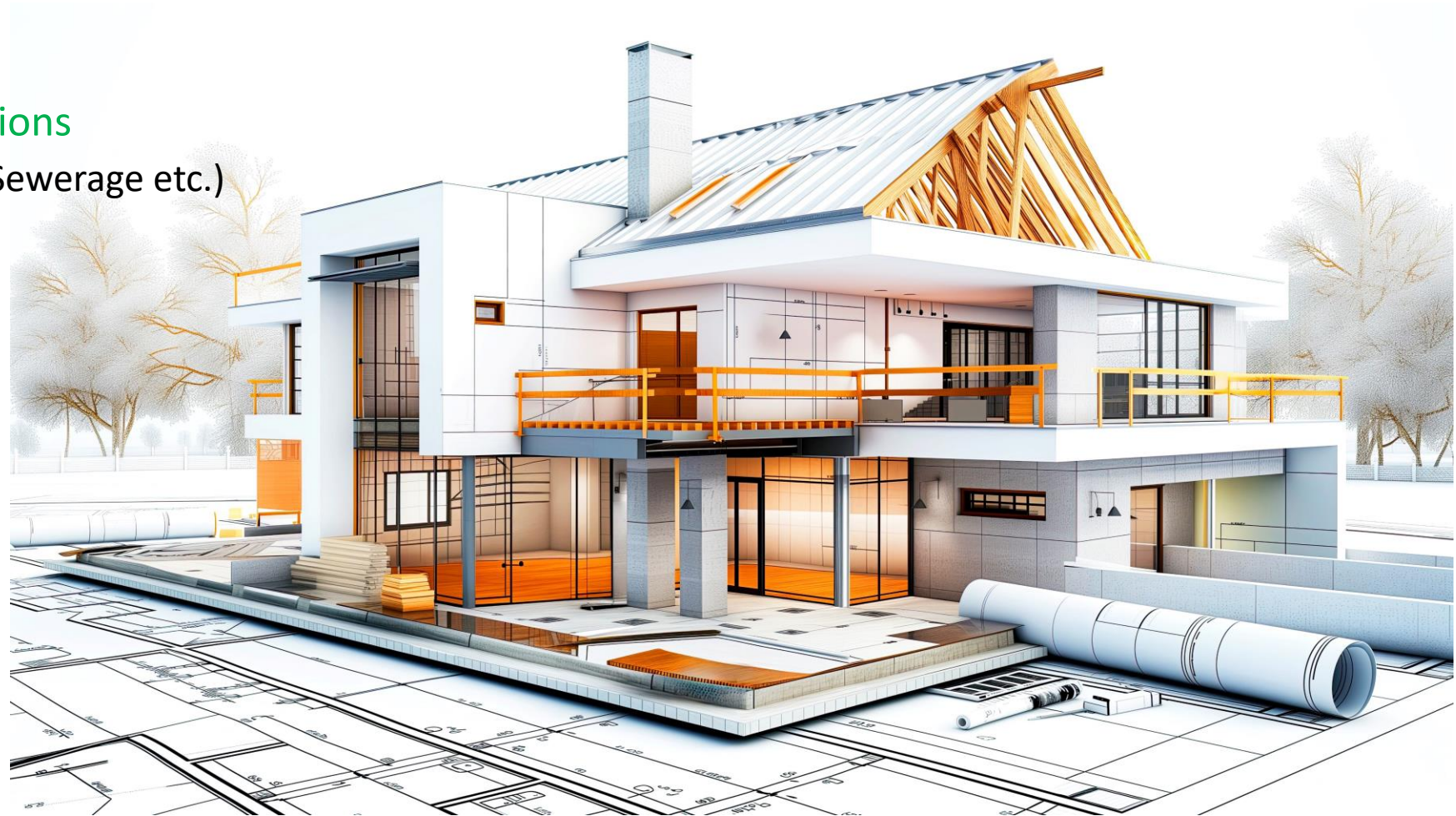
- These are functional requirements

What are some common consideration?

- What are some non-functional requirements for an house?

  - Should be
    - Well-constructed
    - Follow local regulations
      - (Fire / Electric / Sewerage etc.)
    - Secure
    - Cost Effective
    - Sustainable
    - Less Maintenance
    - Etc..

Now let's think about an application

- Could be any application
  - Customer will provide the functional requirements

  - As an architect/builder you have to take care of
    - Functional requirements
    - As well as Non-functional requirements

- What can be these non-functional requirements?
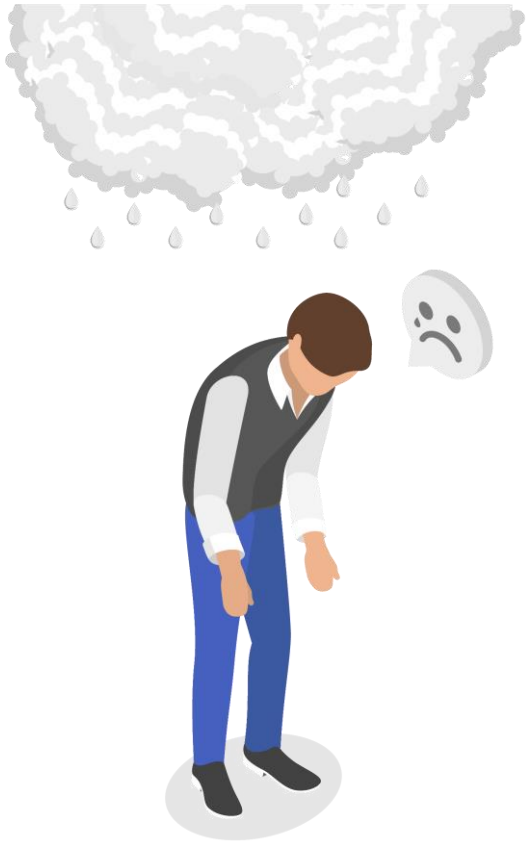
Are there any similarities?

- A house should be
  - Well-constructed
  - Follow local regulations
    - (Fire / Electric / Sewerage etc.)
  - Secure
  - Cost Effective
  - Sustainable
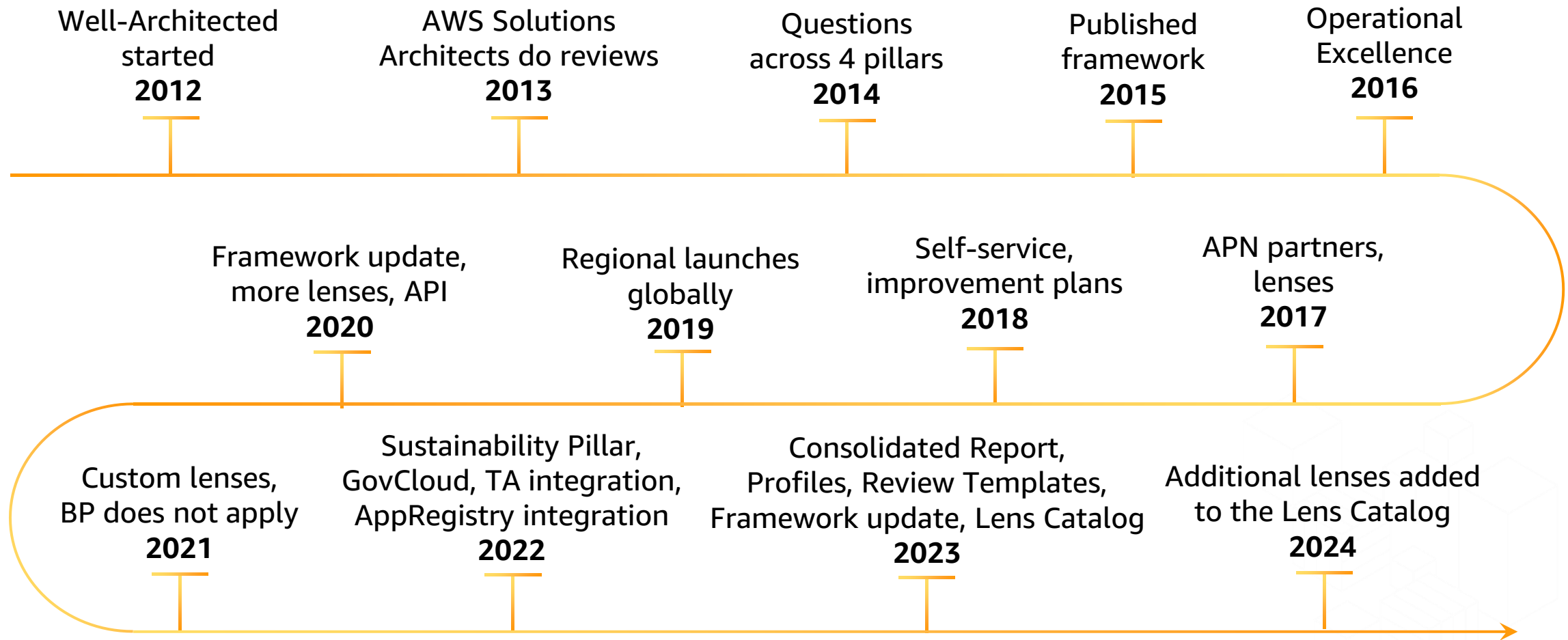 - Less Maintenance
  - Etc..

- An Application should be
  - Well-architected
  - Follow local regulations
    - (GDPR / HIPAA / PCI etc.)
  - Secure
  - Cost Effective
  - Sustainable
  - Less Maintenance
  - Etc..

- Impact to Amazon EC2 and Amazon EBS
    - https://aws.amazon.com/message/680342/

AWS Well-Architected Framework continuous improvement

Well-Architected
started
2012

AWS Solutions
Architects do reviews
2013

Questions
across 4 pillars
2014

Published
framework
2015

Operational
Excellence
2016

Framework update,
more lenses, API
2020

Regional launches
globally
2019

Self-service,
improvement plans
2018

APN partners,
lenses
2017

Custom lenses,
BP does not apply
2021

Sustainability Pillar,
GovCloud, TA integration,
AppRegistry integration
2022

Consolidated Report,
Profiles, Review Templates,
Framework update, Lens Catalog
2023

Additional lenses added
to the Lens Catalog
2024

What is the AWS Well-Architected Framework?

Pillars & Lenses

Best Practices

Design principles

Questions

Six Pillars of the AWS Well-Architected Framework