Web Apps need Cloud Superpowers

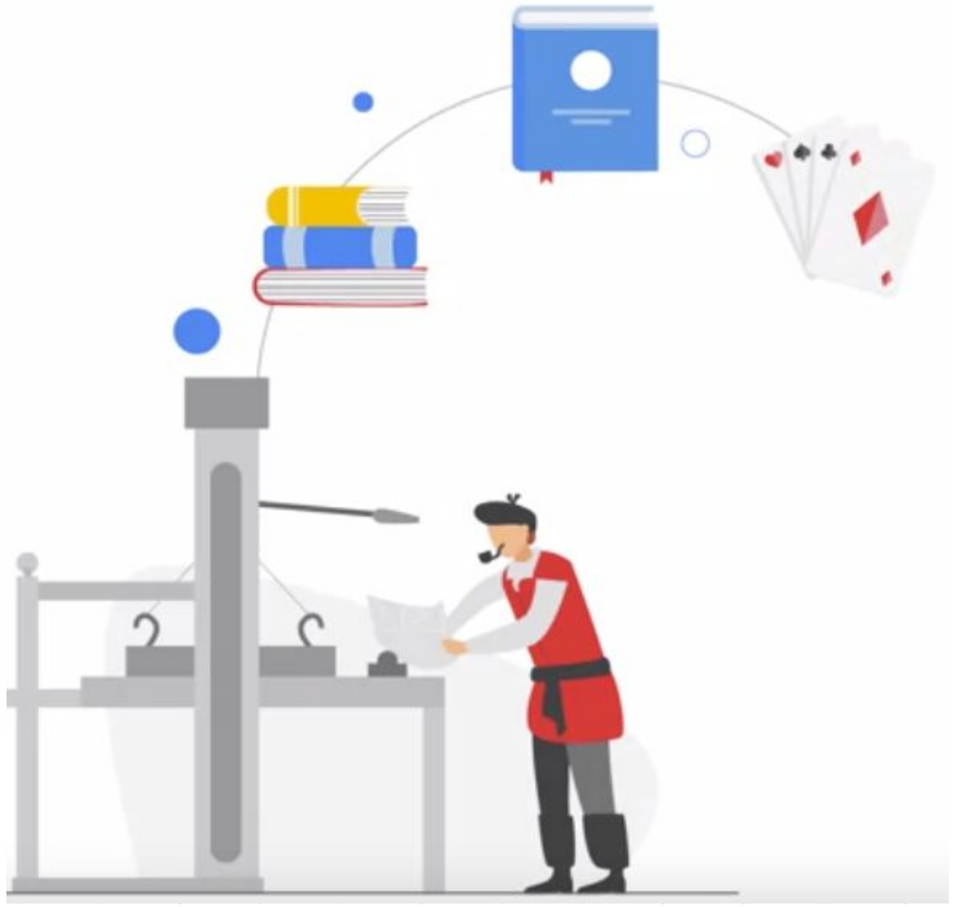
Agenda

1. Cloud Revolutionize Apps
2. Innovation Culture
3. Questions

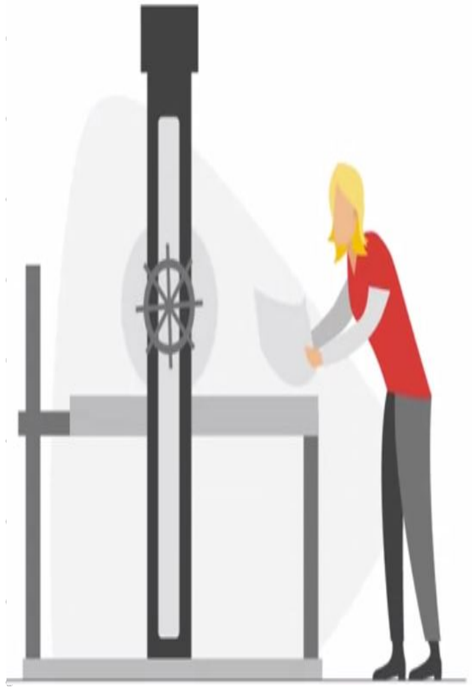
Cloud Revolutionize Apps

Innovation Comes in Waves

Inventions triggers Innovations

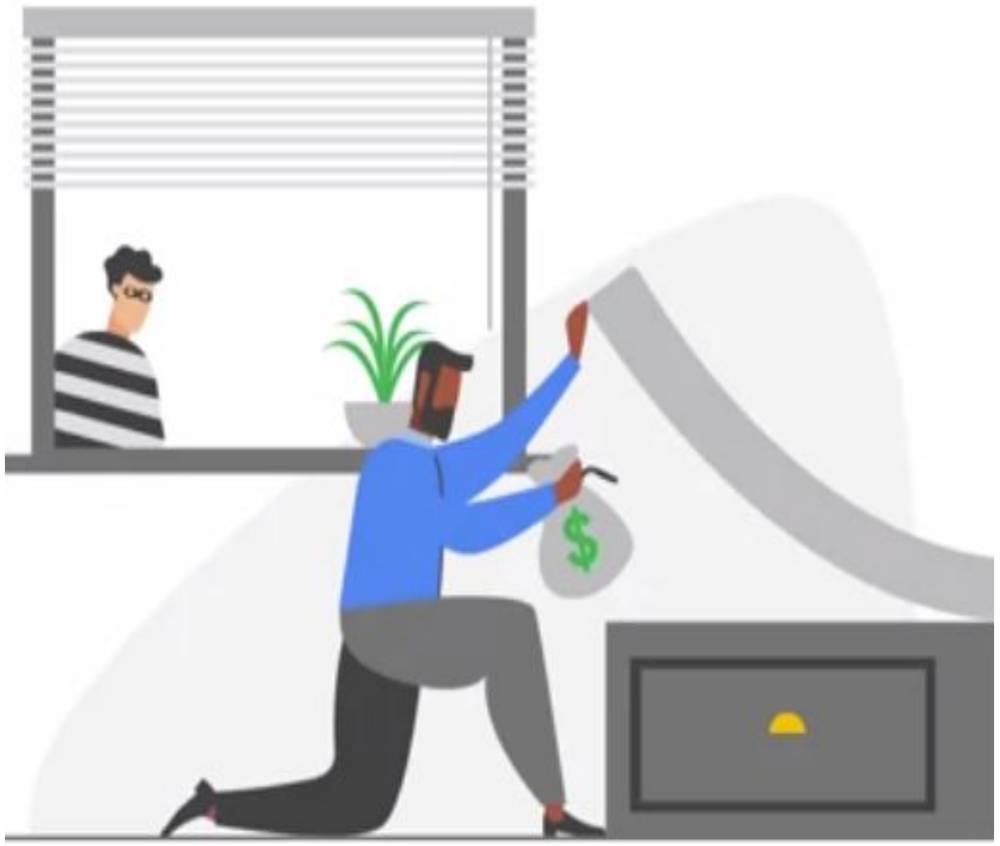


Copiers Evolution



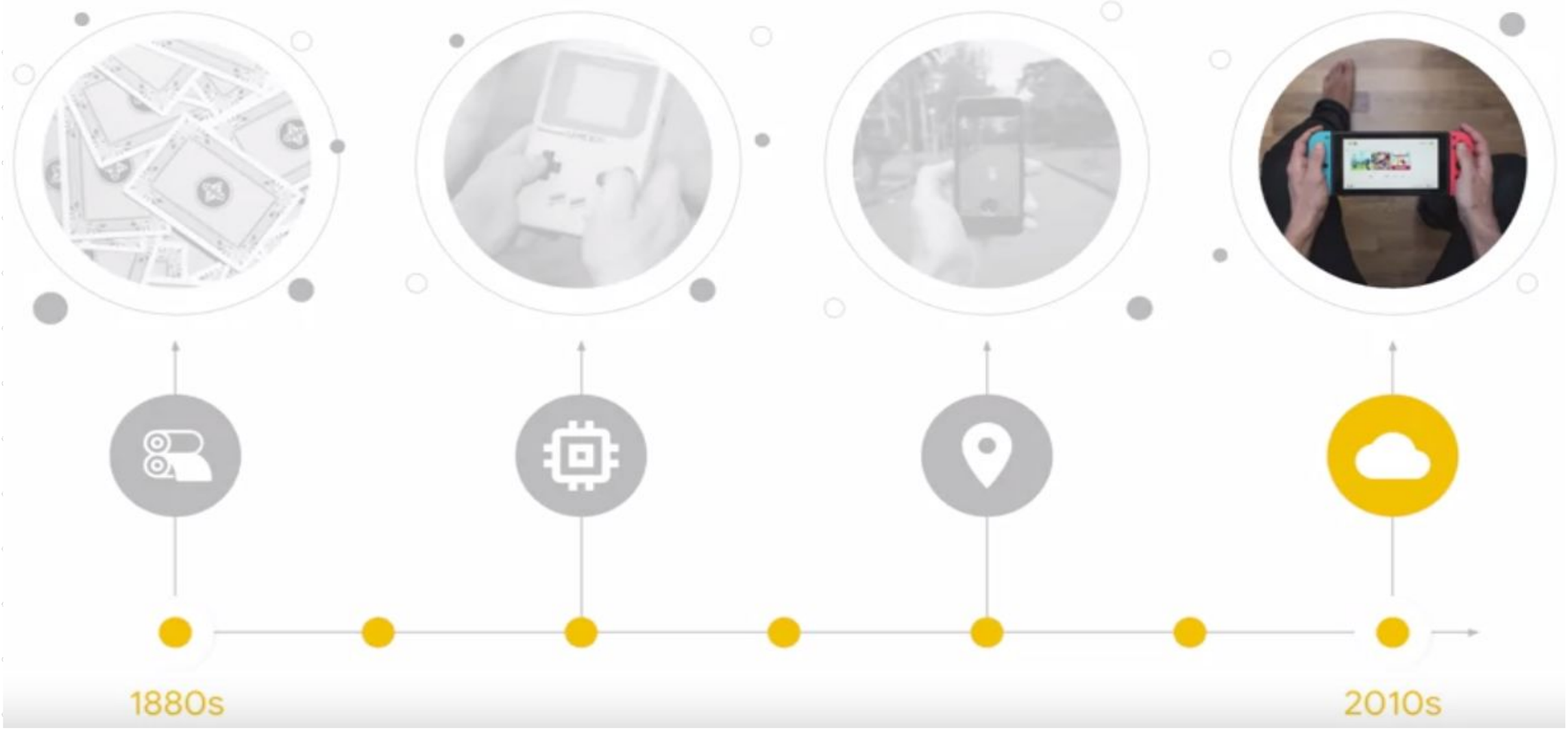
Electricity Evolution

Banks Evolution



Example1: **Encyclopedia**

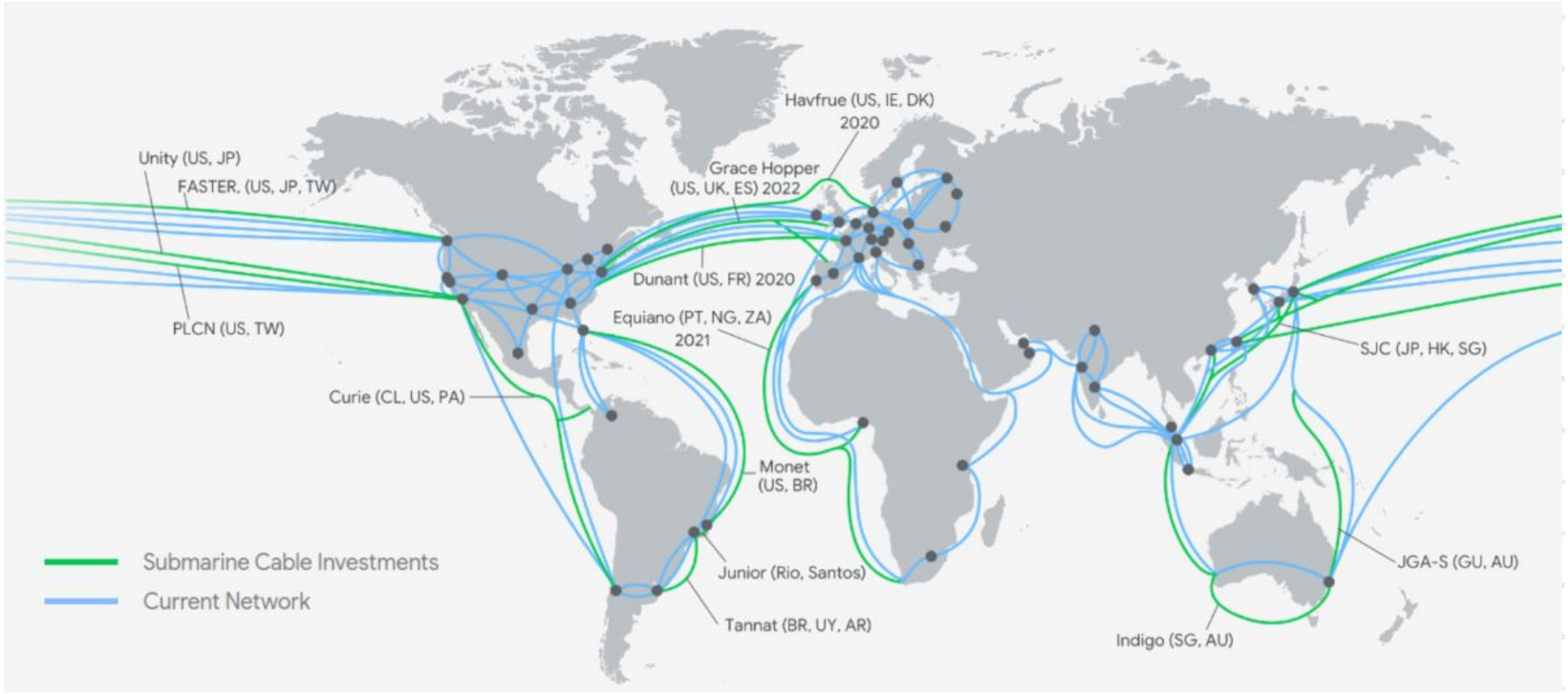
Example2: **Nintendo**



"Why" they exist, not "How" they operate

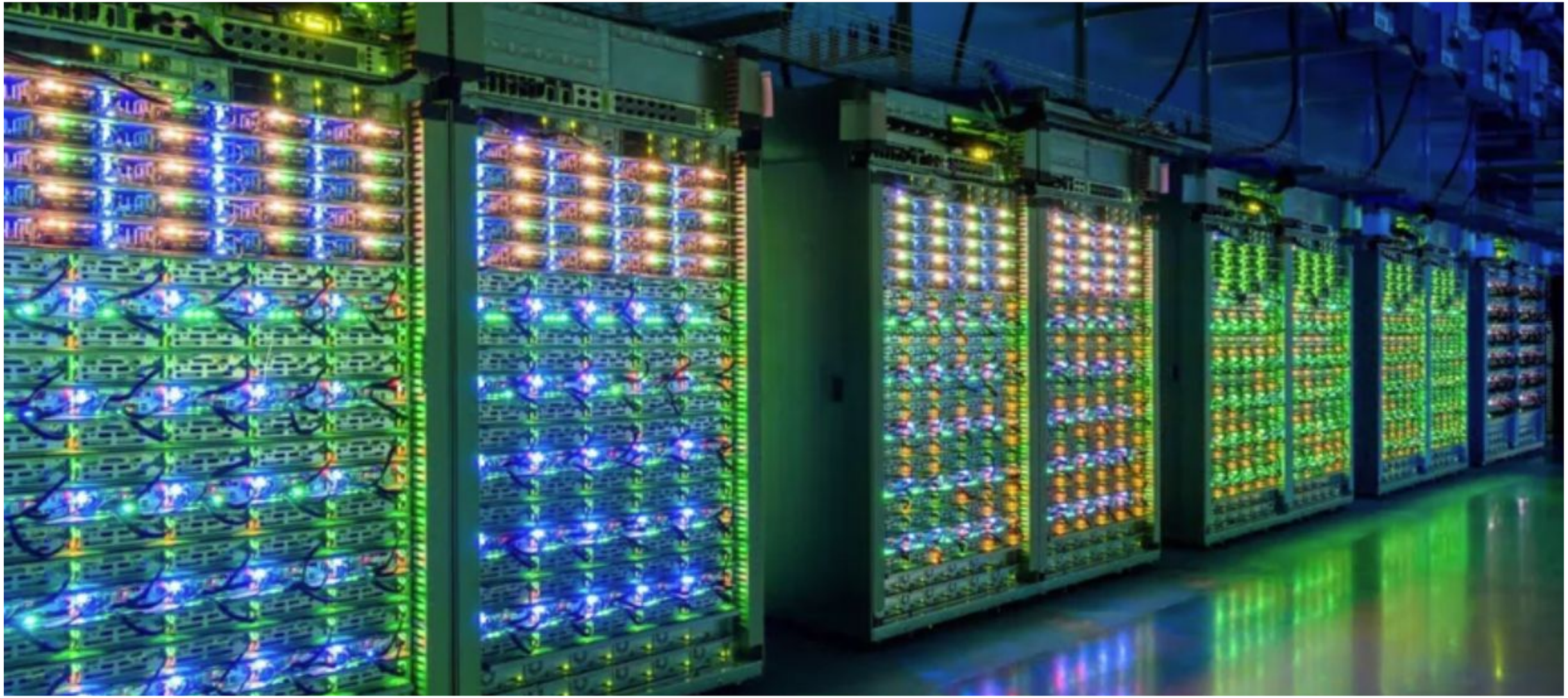
- Focus on why
  - capture potential of new platforms
  - revolutionize their industries
- There is still time to catch up
  - but now is the time to do it

What is Cloud?

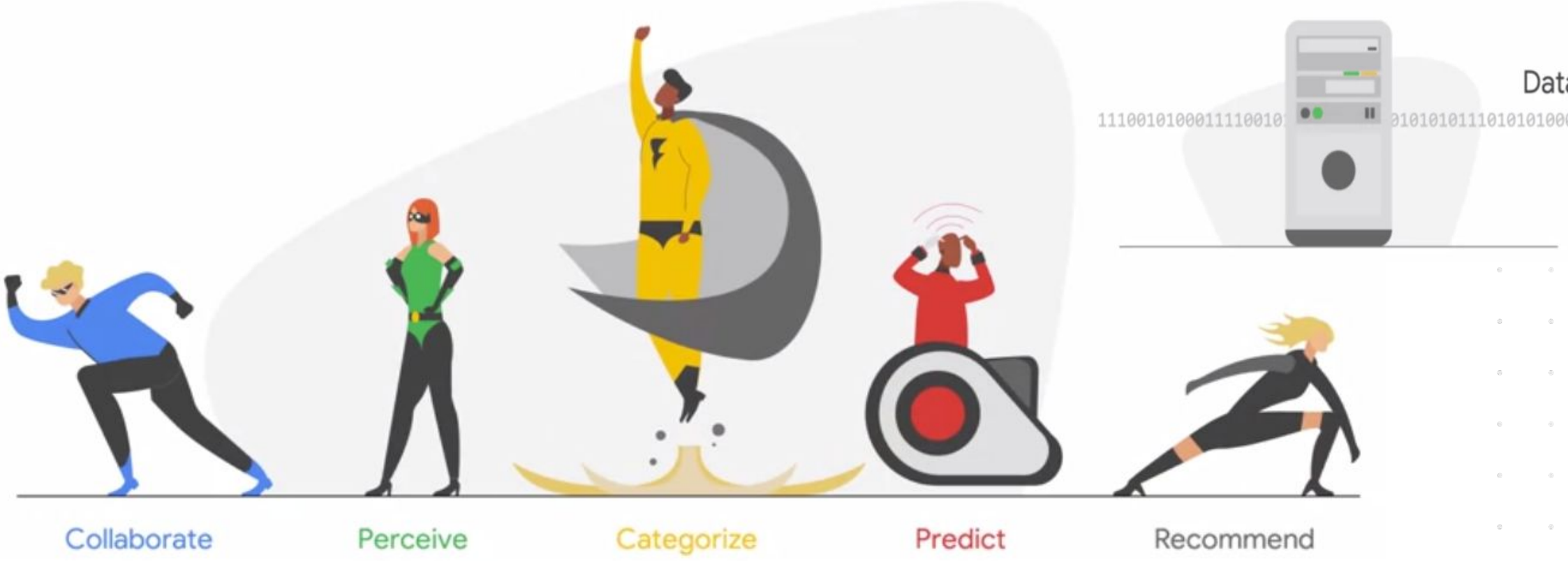


Data Centers (Outside)

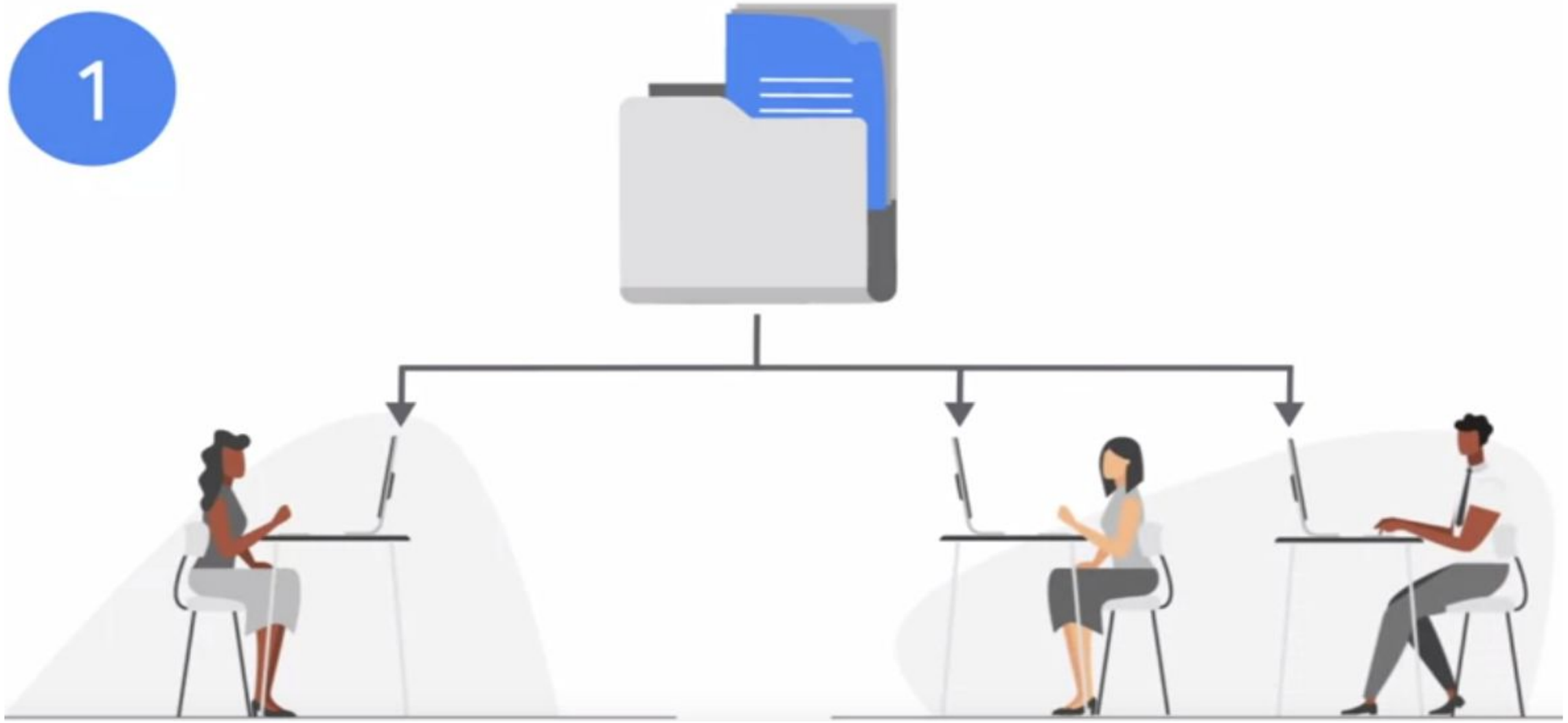
Data Centers (Inside)



Cloud Superpowers



Collaborate



Perceive

2 Can you simplify complex tasks to better understand them?

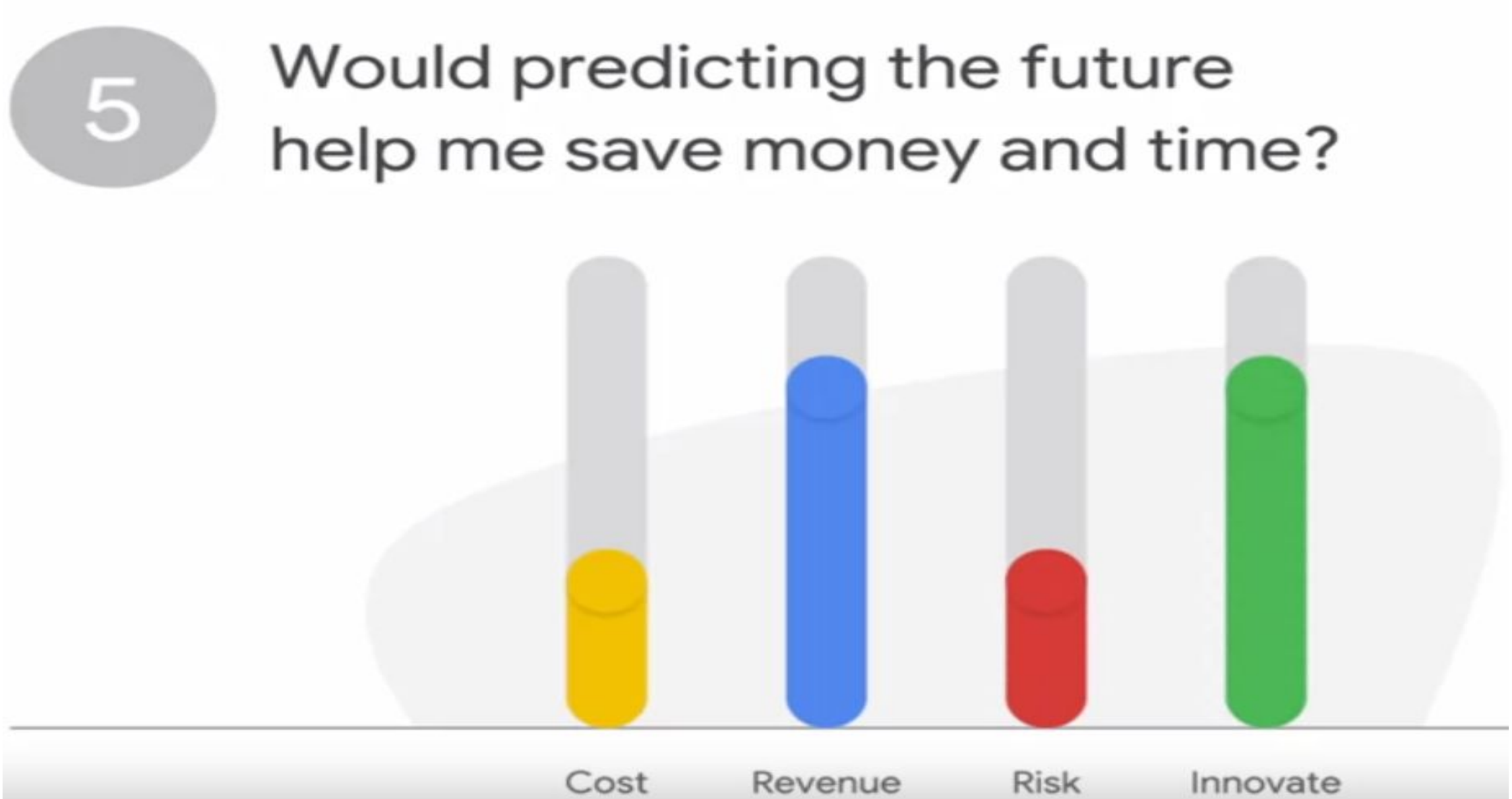
Categorize

3 Are there categories that are hard to define but would make life easier?

Recommend

4 Would I benefit from clear recommendations?

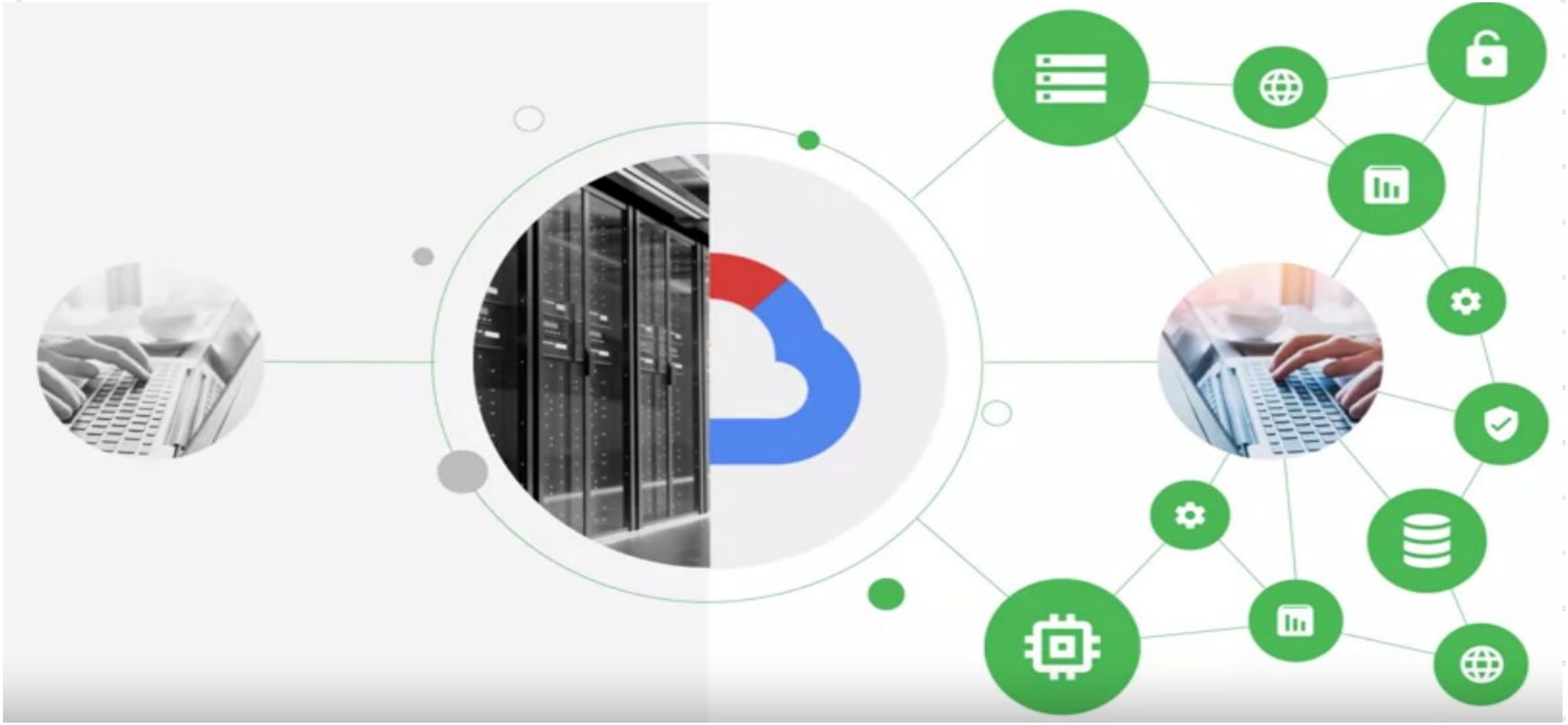
Predict


5
Would predicting the future help me save money and time?
Cost
Revenue
Risk
Innovate

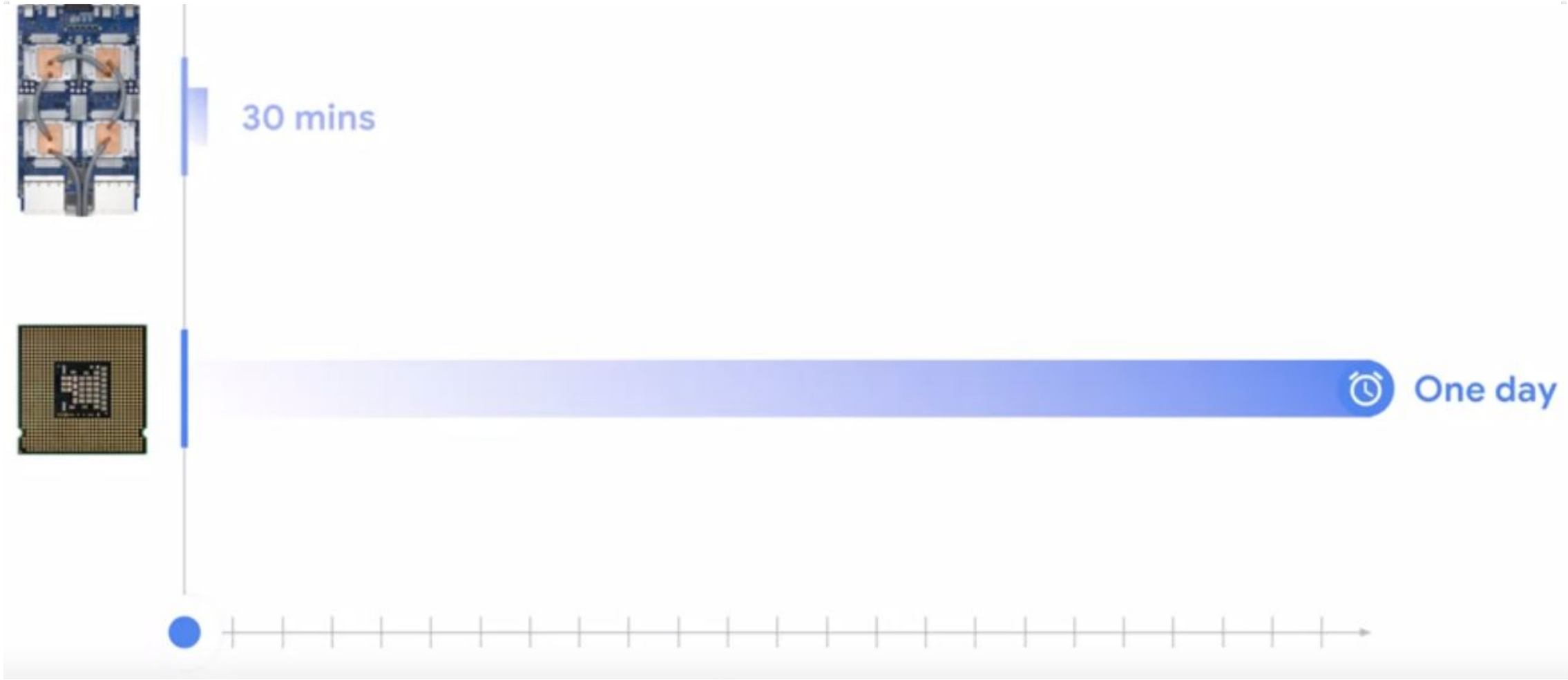
Paradigm Shift: Typewriter or Labtop (1/2)

Paradigm Shift: Typewriter or Labtop (2/2)

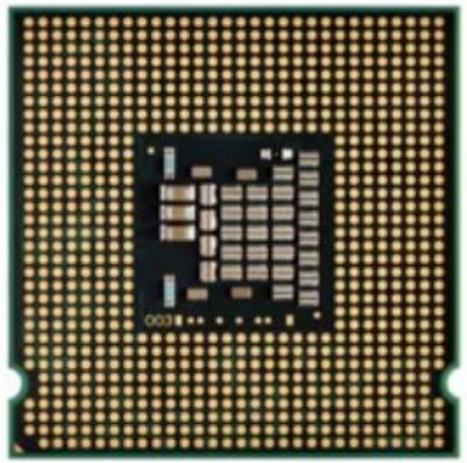
Paradigm Shift: On-prem or Cloud



Paradigm Shift: CPU vs TPU



Paradigm Shift: CPU vs TPU vs Quantum

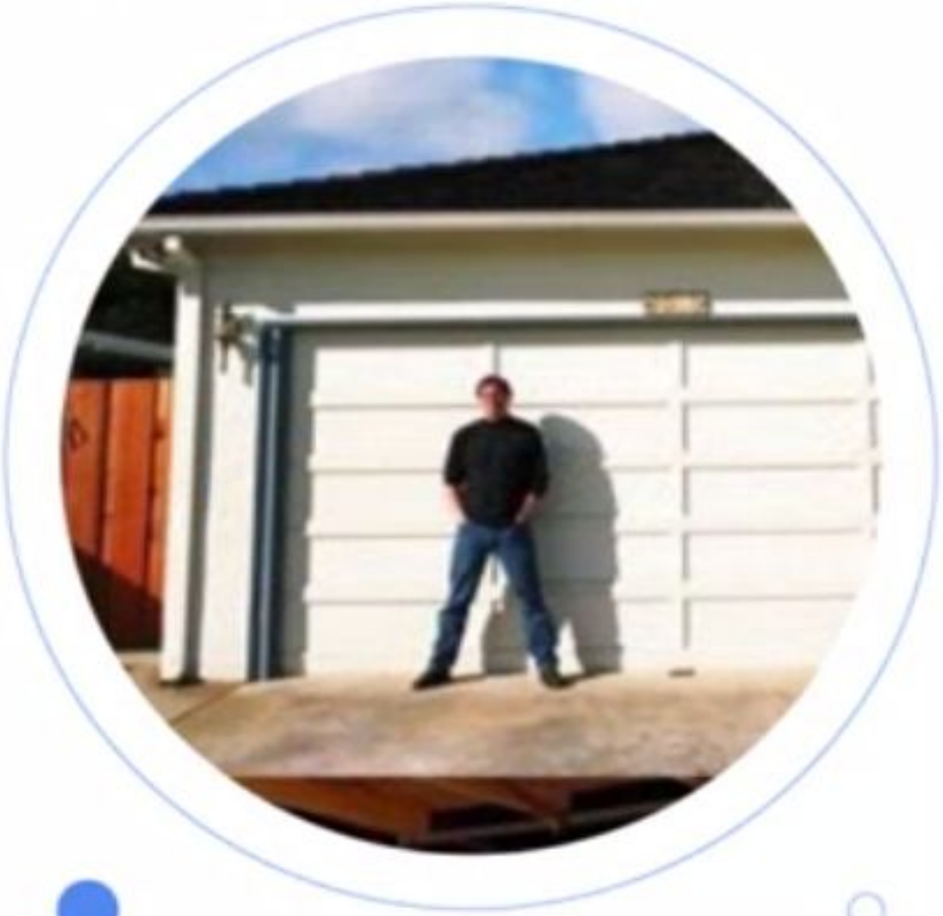


Paradigm Shift: Example

- Unix 10,000 LoC (1971)
- Photoshop 100,000 LoC (1990)
- Google 2,000,000,000 LoC (now)

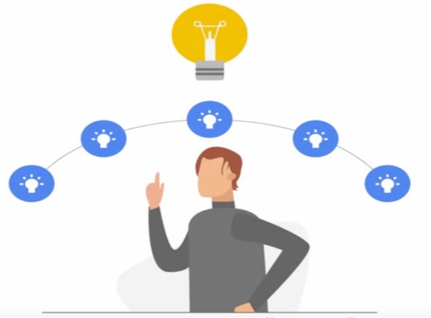
Innovation Culture

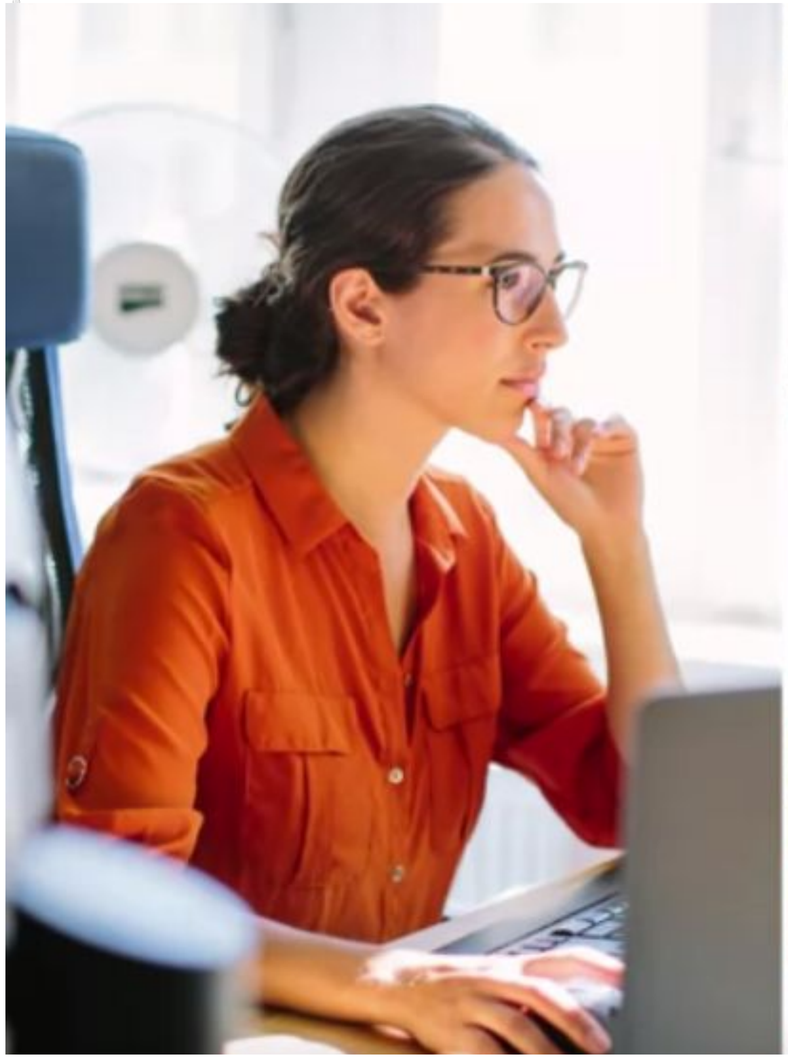
Garage Mindset (Innovation Mindset)

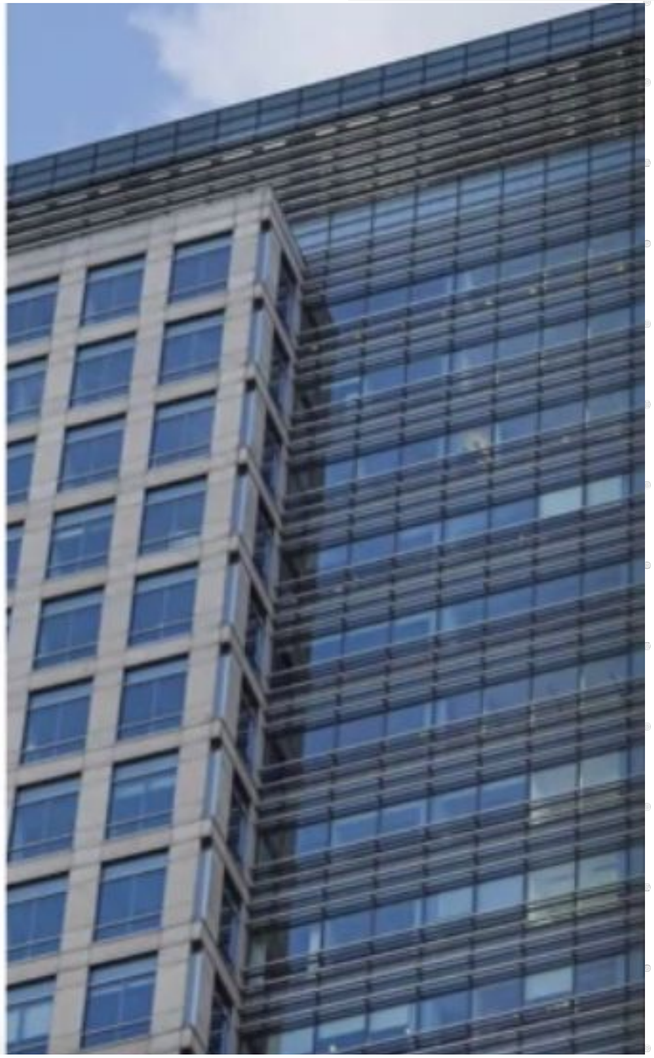


- HP → audio oscillator
- Walt Disney → animated pictures
- Apple → Apple computers
- Google → Google search

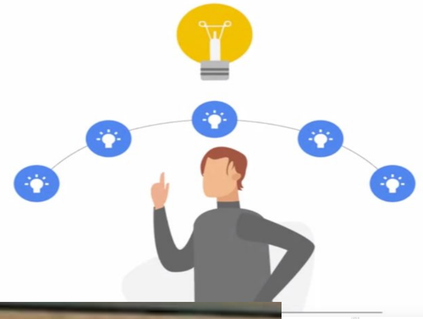
Garage Mindset (Innovation Mindset)



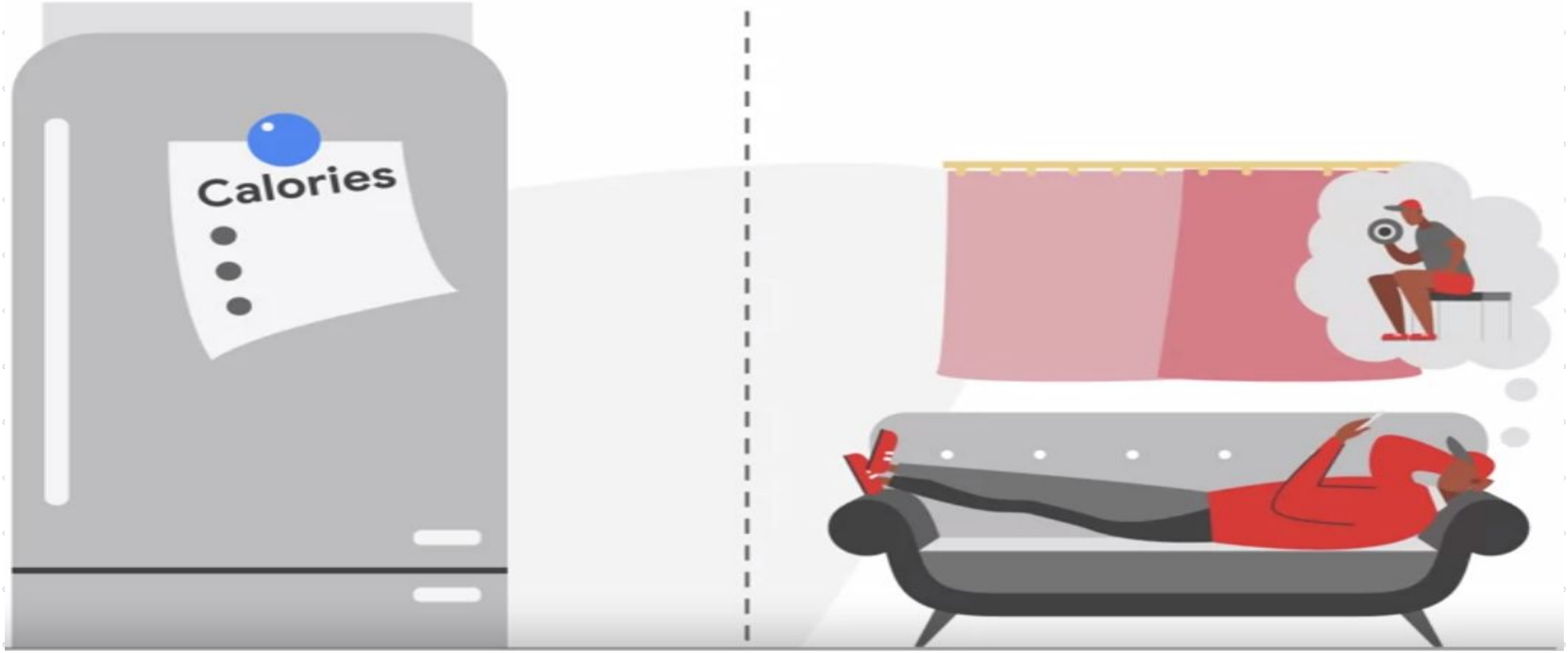




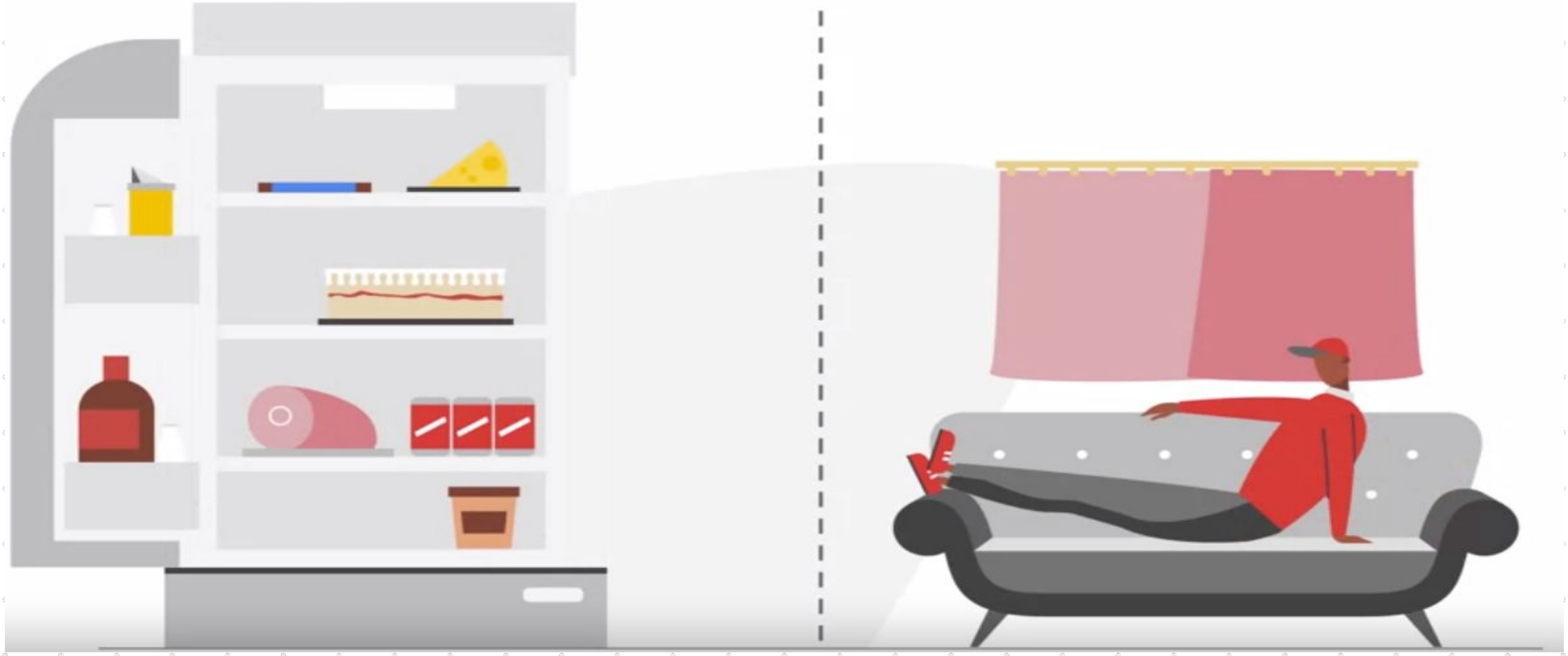
Innovation Culture



Yourself (1/3)

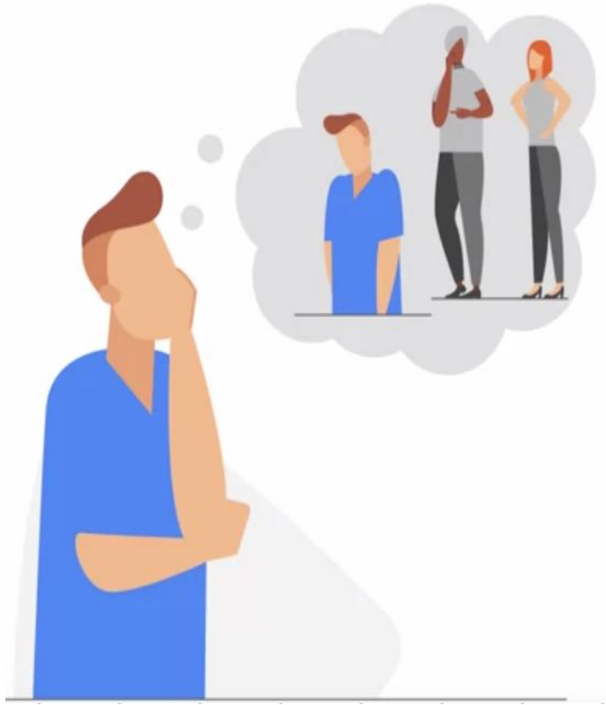


Yourself (2/3)

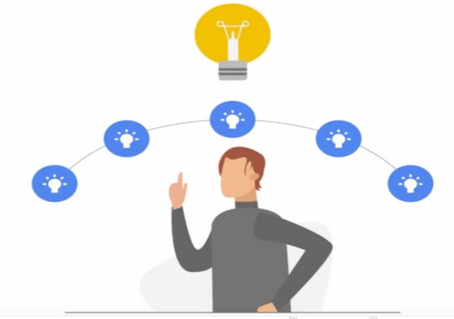


Yourself (3/3)

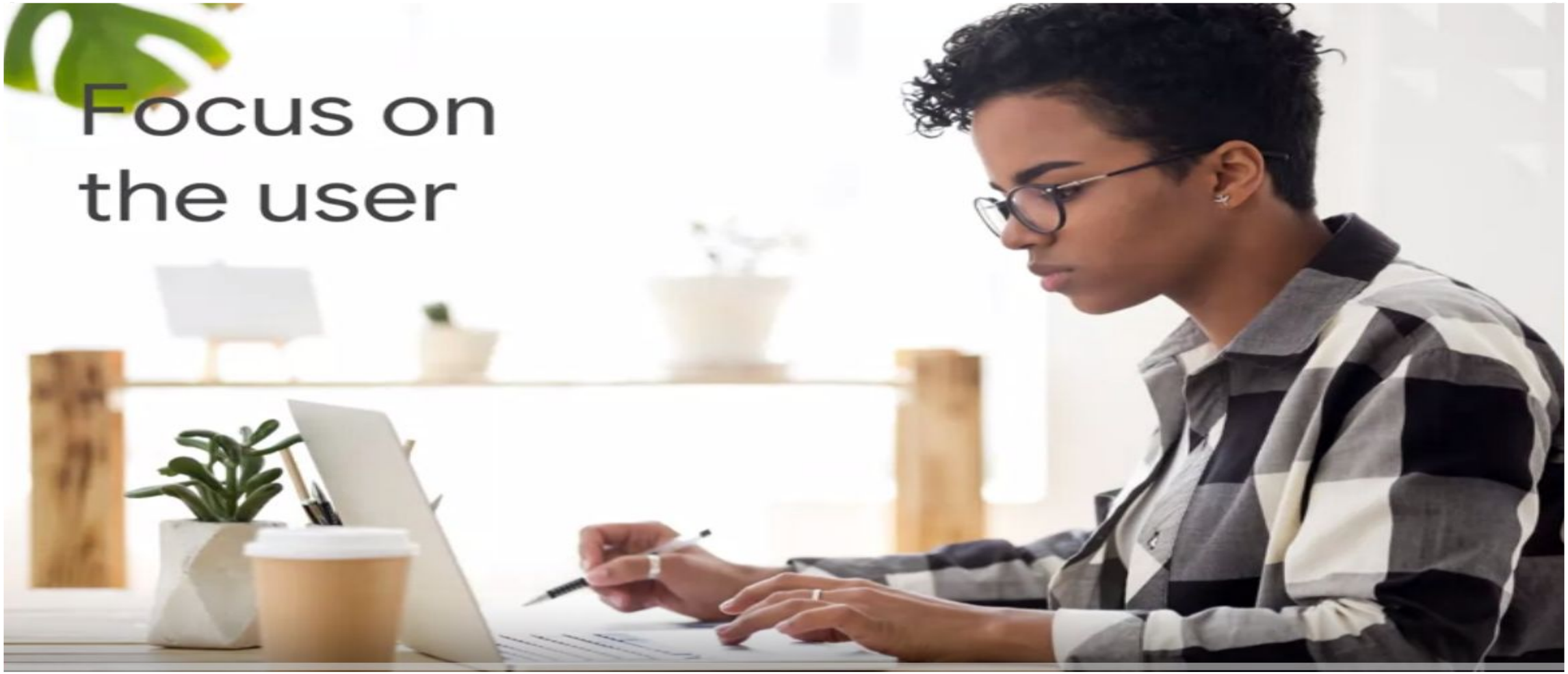
Your Project Team



Your Project Team: Upskill



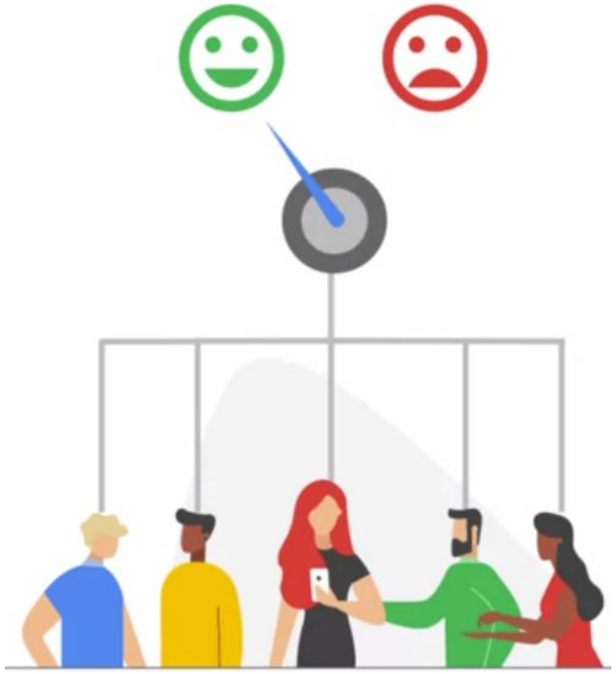
First Innovation Principle

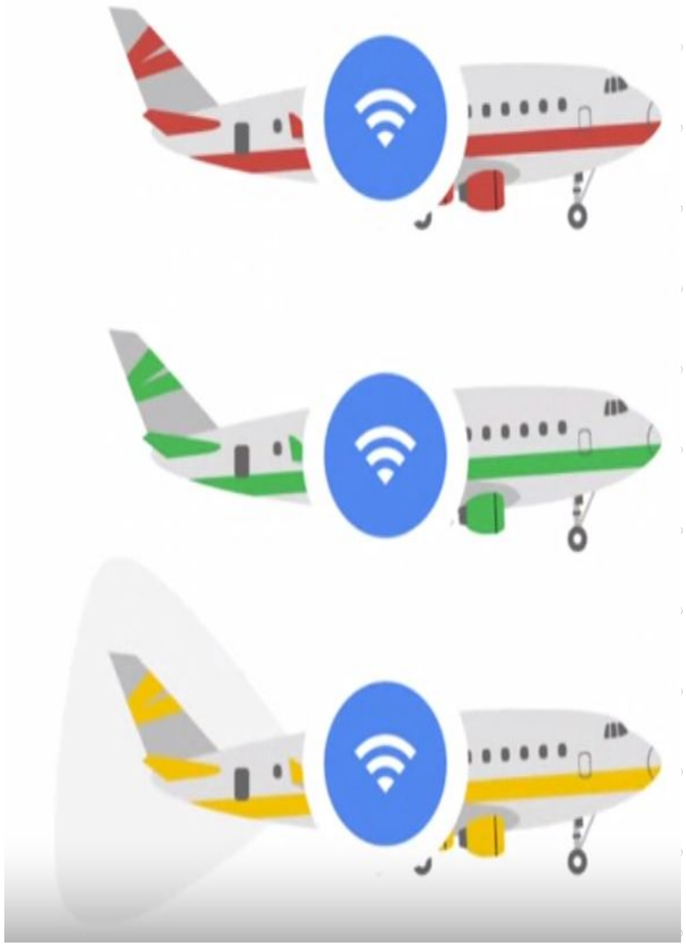


Customer First

- Paying customers
- People outside of our business
- Employees as customers

New Service vs Expectation

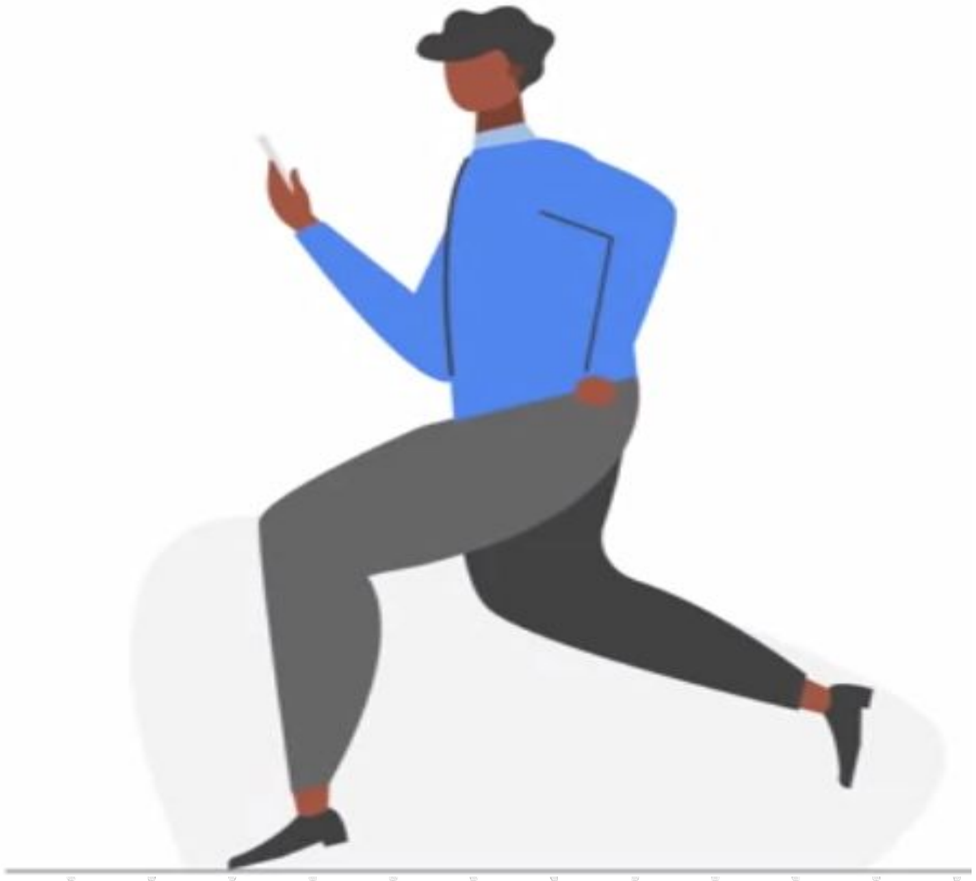




User Expectation (1/4)

1

Access

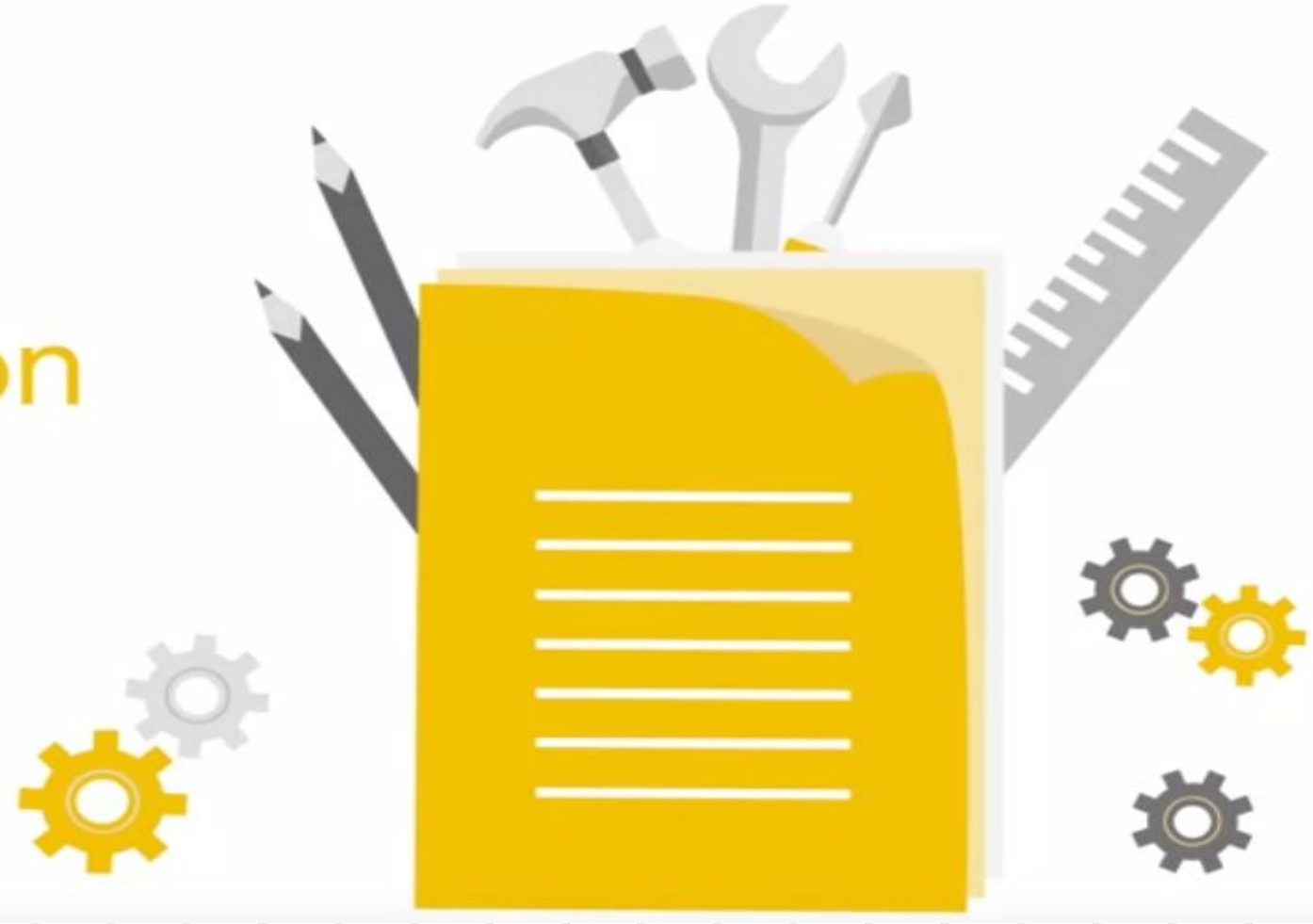


User Expectation (2/4)

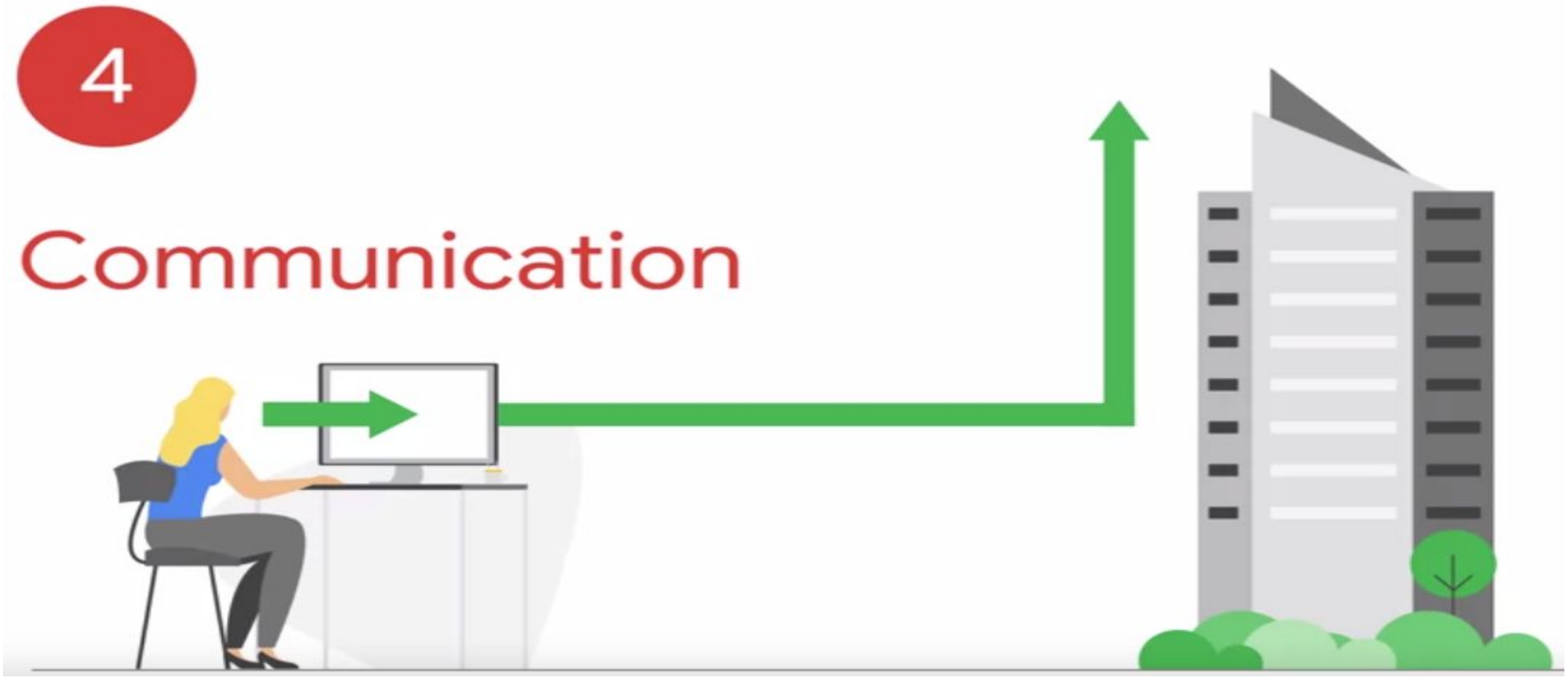
User Expectation (3/4)

3

Customization

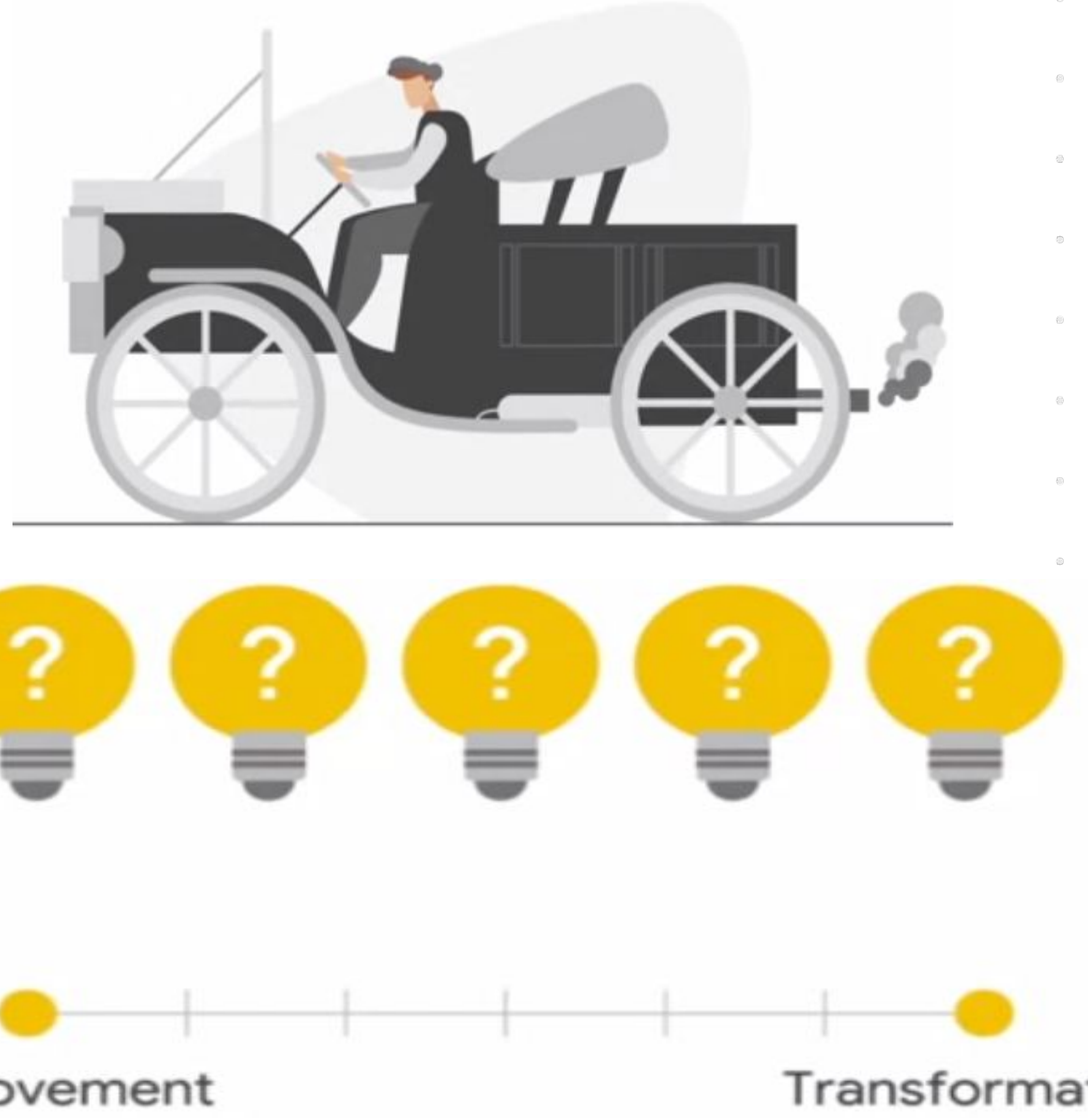


User Expectation (4/4)

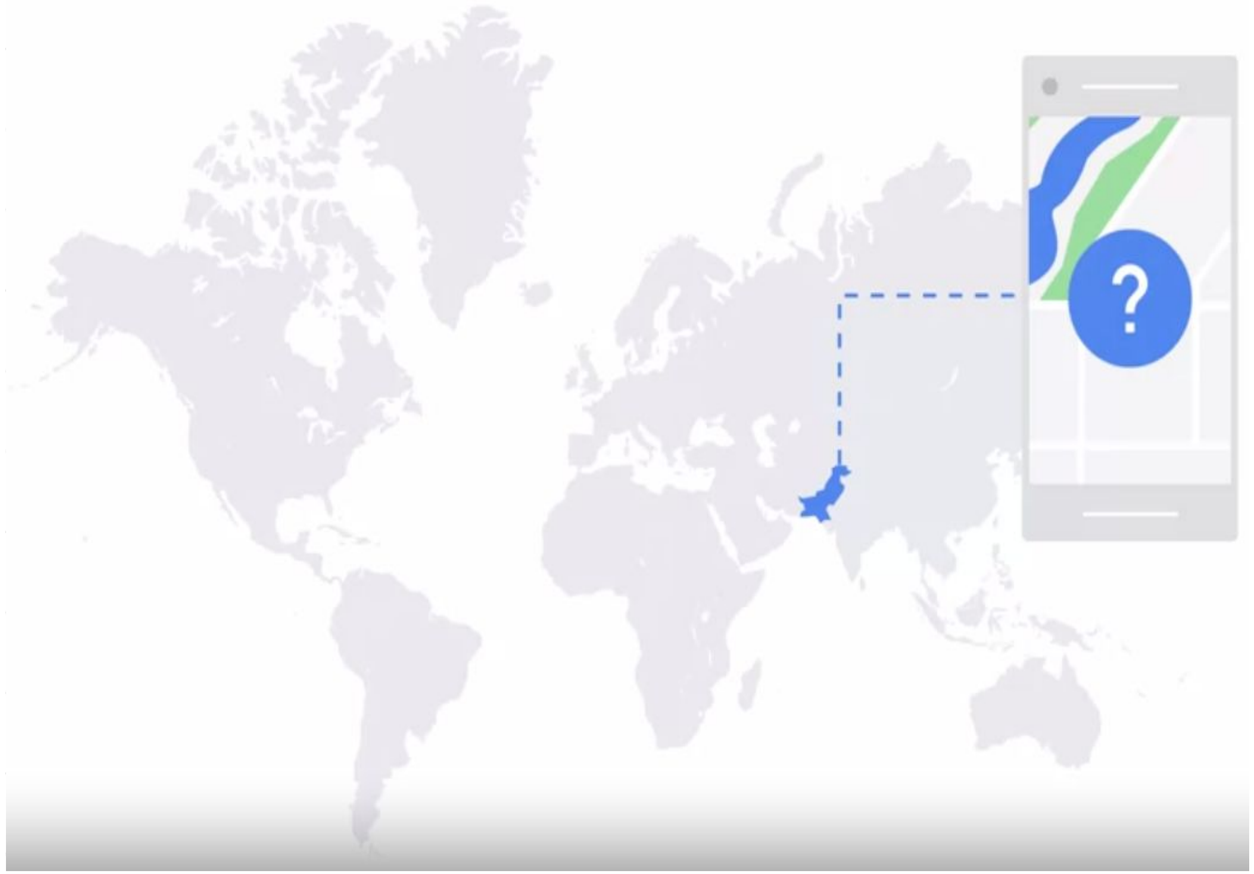


Second Innovation Principle

Improvement vs Transformation (1/2)

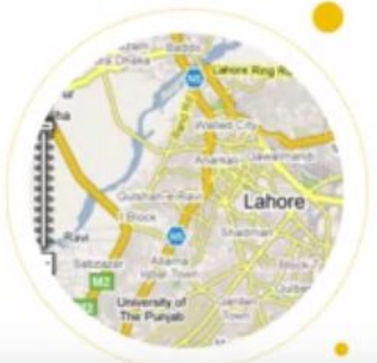


Improvement vs Transformation (2/2)



2008

Global Launch
of Map Maker

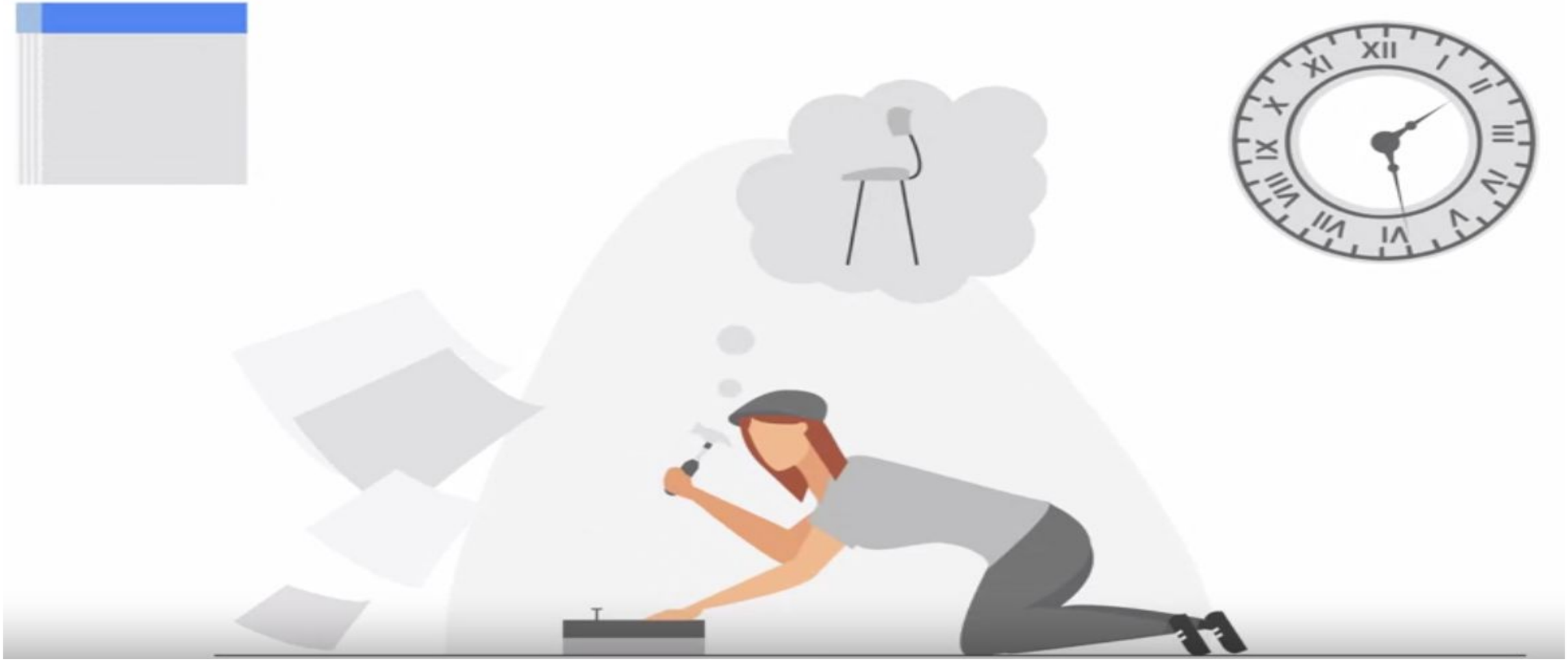


2010

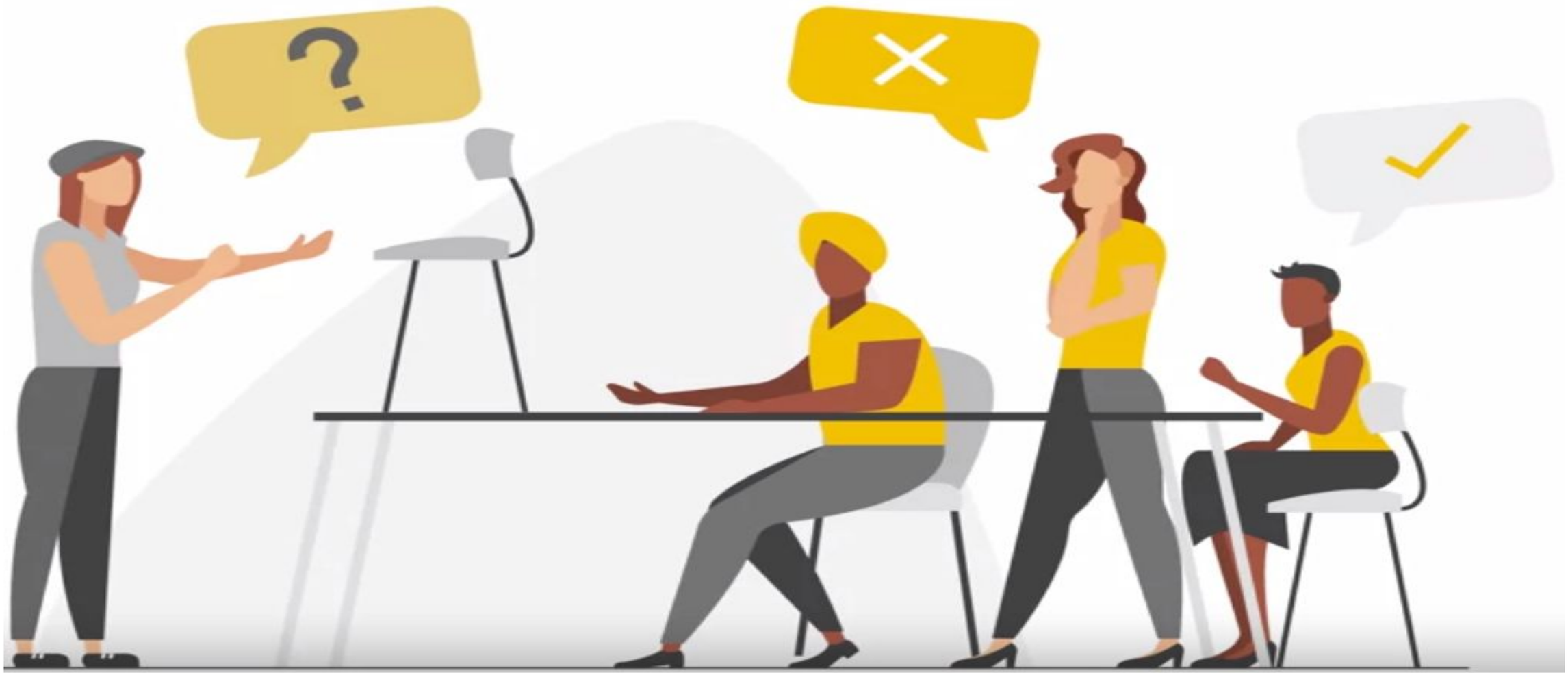
400,000 lives saved
during the flood

Third Innovation Principle

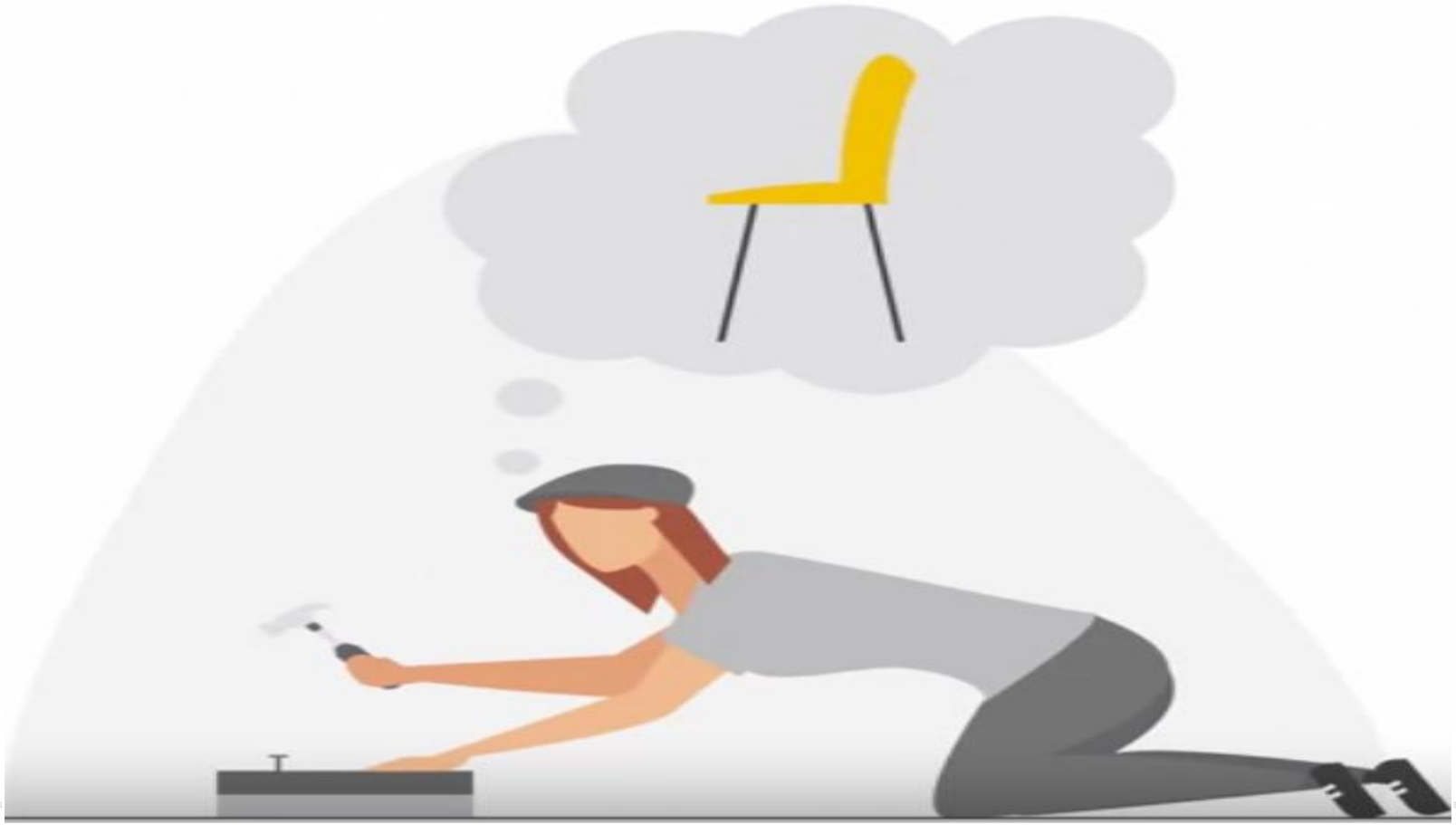
Launch and Iterate (1/3)



Launch and Iterate (2/3)

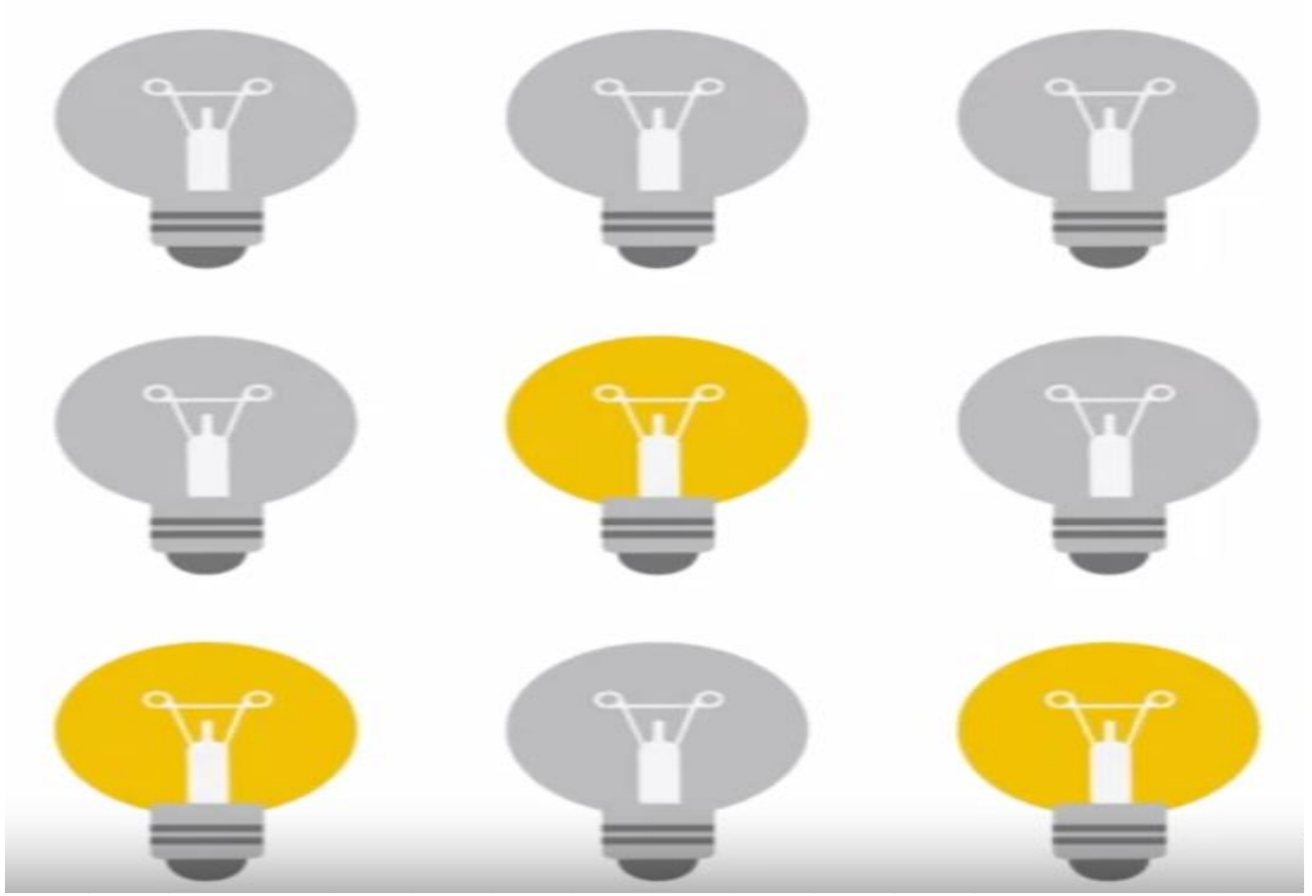


Launch and Iterate (3/3)



Launch and Iterate: Google Glass

Launch and Iterate: Try … Try … Try …



Questions

Study List

1. https://www.coursera.org/learn/business-transformation-google-cloud