

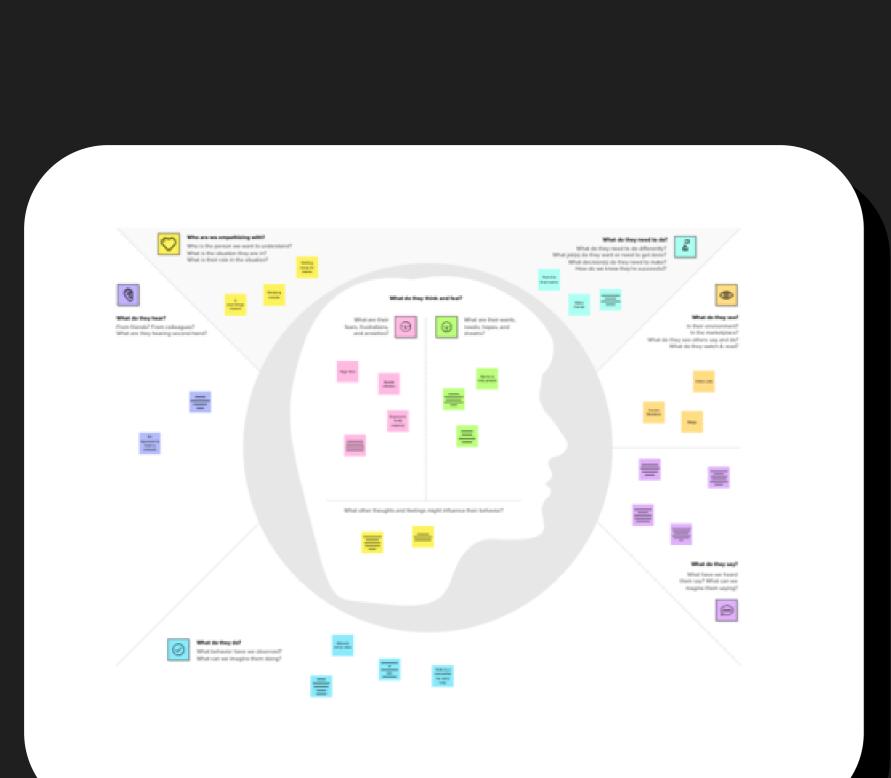
canvas

Use this framework to empathize with a customer, user, or any person who is affected by a team's work. Document and discuss your observations and note your assumptions to gain more empathy for the people you serve.

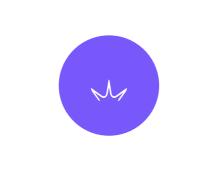
Originally created by Dave Gray at



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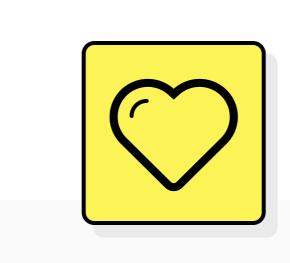


Need some inspiration? See a finished version of this template to kickstart your work.



Develop shared understanding and empathy

Summarize the data you have gathered related to the people that are impacted by your work. It will help you generate ideas, prioritize features, or discuss decisions.



WHO are we empathizing with?

Who is the person we want to understand? What is the situation they are in? What is their role in the situation?

Safety Officers and

Recognizing the

protocols.

officers to ensure

Understanding the

challenges faced by

supervisors in monitoring

safety across large work

responsibility of safety

compliance with safety

Workers and Site Personnel:

importance of safety in

the workplace for the

well-being of workers.

Recognizing the potential

discomfort of wearing

Data Privacy and Security

Challenges related to

visual data captured

during surveillance.

concerns of workers

being monitored and

ensuring compliance with

Addressing privacy

data protection

regulations.

safeguarding sensitive

Concerns:

GOAL

What do they THINK and FEEL?

()

GAINS

Efficient Resource

Reduction in manual

monitoring efforts

surveillance.

reporting.

Enhanced Safety Oversight:

Improved surveillance

capabilities for real-

gear compliance.

of safety violations

environment.

time detection of safety

Proactive identification

leading to a safer work

through automated

Efficient allocation of

resources as a result of

automated logging and

Utilization:

What are their wants,

needs, hopes, and dreams?

PAINS

Challenges:

Integration and Deployment

and systems.

Complexities in integrating

YOLO-based surveillance

Deployment challenges

with existing infrastructure

related to logistical issues,

potential disruptions during

compatibility with varied

environments, and

implementation

Maintenance and Updates:

The ongoing need for

system maintenance to

ensure consistent and

reliable performance.

or work environments

Feelings of responsibility

safety culture on

construction sites.

towards fostering a strong

Influence of organizational

policies and regulatory

compliance in shaping

Safety Culture and

behavior.

Challenges in updating the

YOLO model and adapting

to changes in safety gear

What other thoughts and feelings might influence their behavior?

Pressures:

Time and Efficiency

Pressure to maintain

and timelines on

construction sites.

Balancing safety

efficient work processes

requirements with the

need for productivity.

What are their fears,

Understanding the

inconvenience or

safety gear.

What do they HEAR? What are they hearing others say? What are they hearing from friends?

What are they hearing from colleagues? What are they hearing second-hand?

Generates audible alarms for safety gear violations.

> Listens for responses from workers to verbal instructions or alerts.

Listens and processes environmental sounds for contextual awareness.



What do they DO?

What do they do today? What behavior have we observed? What can we imagine them doing?

Actively monitors surveillance feed using YOLO for continuous safety assessment.

What decision(s) do they need to make? How will we know they were successful?

> **Implements** measures for privacy compliance in surveillance.

Requires continuous training of the **YOLO** model for adapting to changes.

What do they need to do differently?

What job(s) do they want or need to get done?

What do they need to DO?

Considers

to varying

conditions in

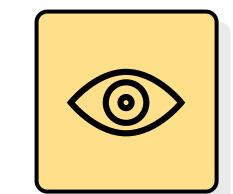
environmental

context, adapting

surveillance areas.

Detects visual workers not

anomalies like wearing required safety gear.



Utilizes YOLO

for real-time

detection of

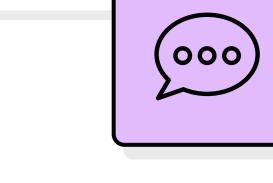
safety gear.

visual

What do they SEE?

What do they see in the marketplace? What do they see in their immediate environment? What do they see others saying and doing? What are they watching and reading?

> Alerts and seeks human intervention for challenging classifications.



What do they SAY?

What have we heard them say? What can we magine them saying?

Verbally communicates alerts for detected safety gear violations.

Communicates periodic safety reports or compliance summaries.

Provides spoken instructions for corrective actions and safety guidelines.

Automates logging of safety events and integrates with access control systems

Triggers immediate actions based on detected safety gear compliance or violations.



