The Problem

General Problem Statement: How might we design more effective ways to communicate dynamic and evolving fire risk to the public before a wildfire event?
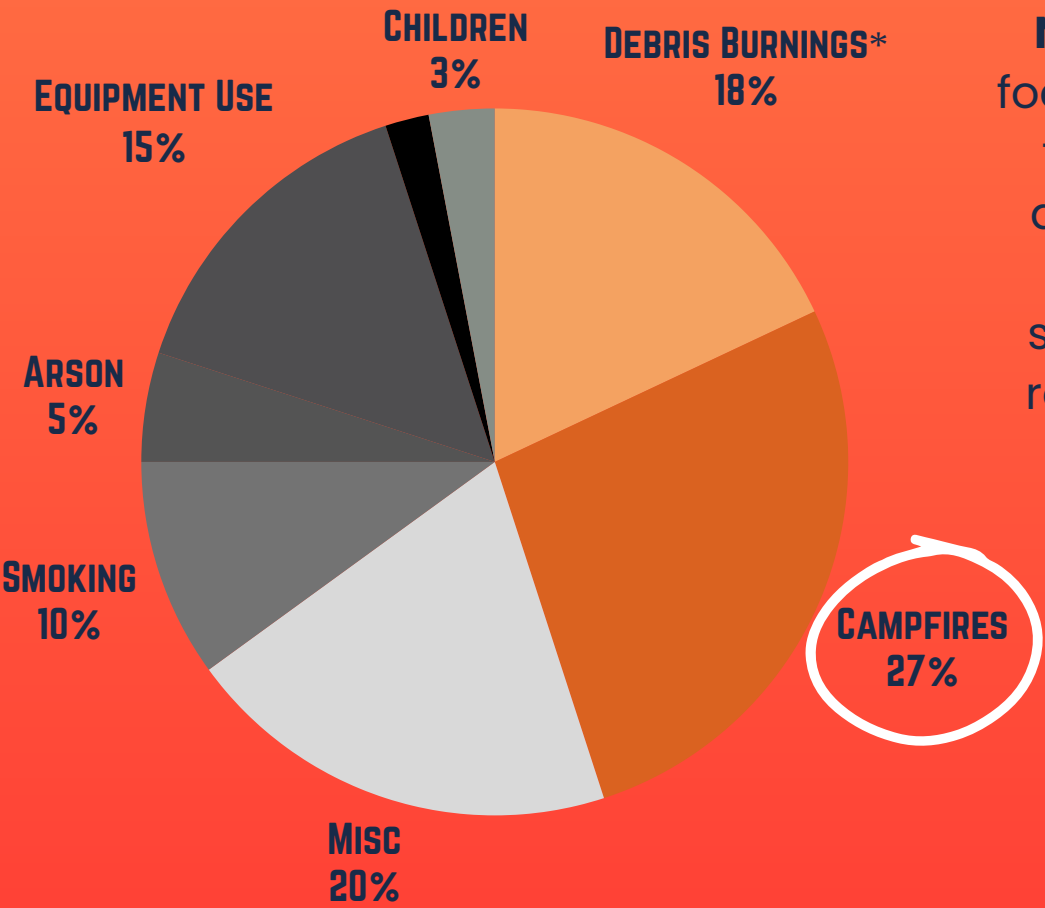
Common Causes of WildFires

Figure 1: Campfires are the leading identifiable cause of wildfires, responsible for 27% of cases, followed closely by debris burning at 18%.

CHILDREN 3%

DEBRIS BURNINGS* 18%

EQUIPMENT USE 15%

ARSON 5%

SMOKING 10%

CAMPFIRES 27%

MISC 20%

"COMMON CAUSES OF WILDFIRES." IDAHO FIREWISE, IDAHO FIREWISE

NOTE*: While we focus on campfires, the project also applies to debris burnings which similarly occur in remote, high-risk areas.

Campfires/Debris Burnings Specific Risks

1. No Reception in Remote Areas
2. Slow Fire Response Times
3. Ignites Natural Fuel Load Accumulation

The Product

Input Image ->

🏕️✅ **Camp VeriFIRE**

City:

riyadh | Save

Use Current Location

Upload Image of Area:

Choose File | UCSD forest.jpg

Check Fire Risk

Fire Risk: High 🔥

City: Riyadh

Temperature: 42.29°C

Humidity: 8%

Wind Speed: 2.43 m/s

Image Risk Score: 0.986

Final Risk Score: 1.538 / 2.3

Input Image ->

🏕️✅ **Camp VeriFIRE**

City:

la jolla | Save

Use Current Location

Upload Image of Area:

Choose File | la jolla coastline .jpeg

Check Fire Risk

Fire Risk: **Low ✅**

City: La Jolla

Temperature: 20.82°C

Humidity: 93%

Wind Speed: 0 m/s

Image Risk Score: 0.004

Final Risk Score: 0.004 / 2.3