

Fish Counting System

Massive numbers of fish need to pass through a dam during migration. If the fish are not able to pass through the dam, the species may drastically decline or near extinction. Researchers need a system to count the fish to ensure their travel through the dam.

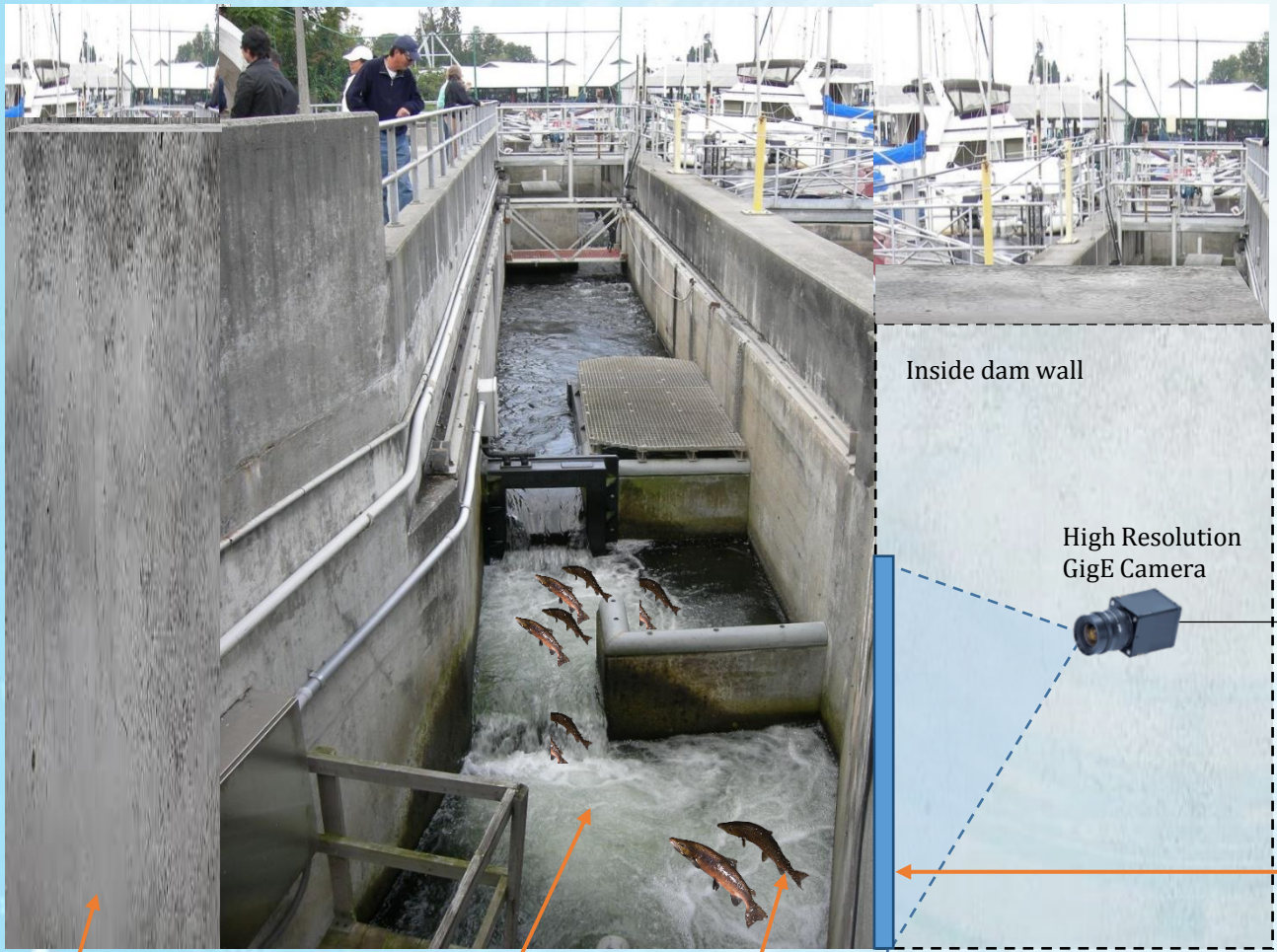
The system must be accurate and reliable.



Solution:

A partially submerged plexiglass window is installed into the wall of the dam. Behind the window, a high resolution GigE camera is positioned looking outward towards the water. The camera captures the images of the fast moving fish as they move past the plexiglass.

Attached to the camera is a DVR. The DVR records the images of the fish over several hours for months. The researchers are then able to analyze the data and form an accurate conclusion on the number of fish traveling through the dam each year.



Inside dam wall

High Resolution GigE Camera



Partially submerged plexiglass window on dam wall

High resolution image of fish captured by camera



DVR Recorder stores images for analysis

Dam

Fish ladder

Fish traveling through the dam