

Our research focuses on the information the sensors on the physical sites and server exchange.

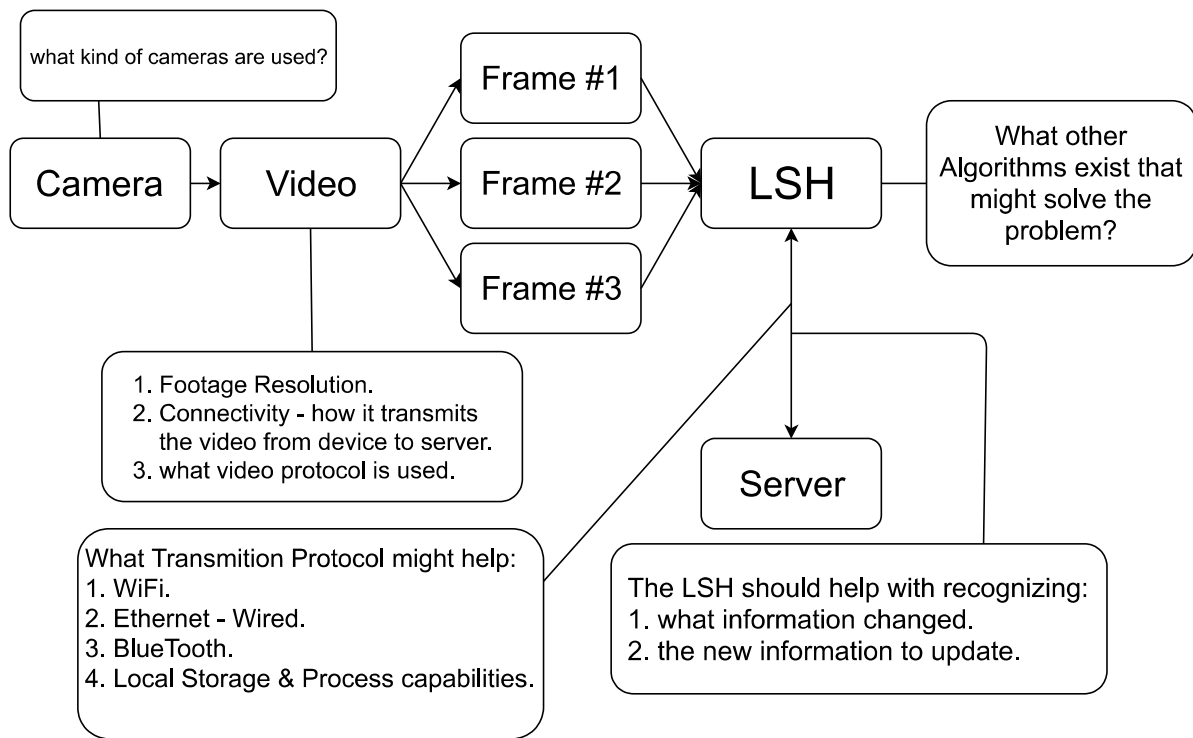
While the amount of information is growing rapidly, the cost to upgrade old communication infrastructure might not be possible or desirable.

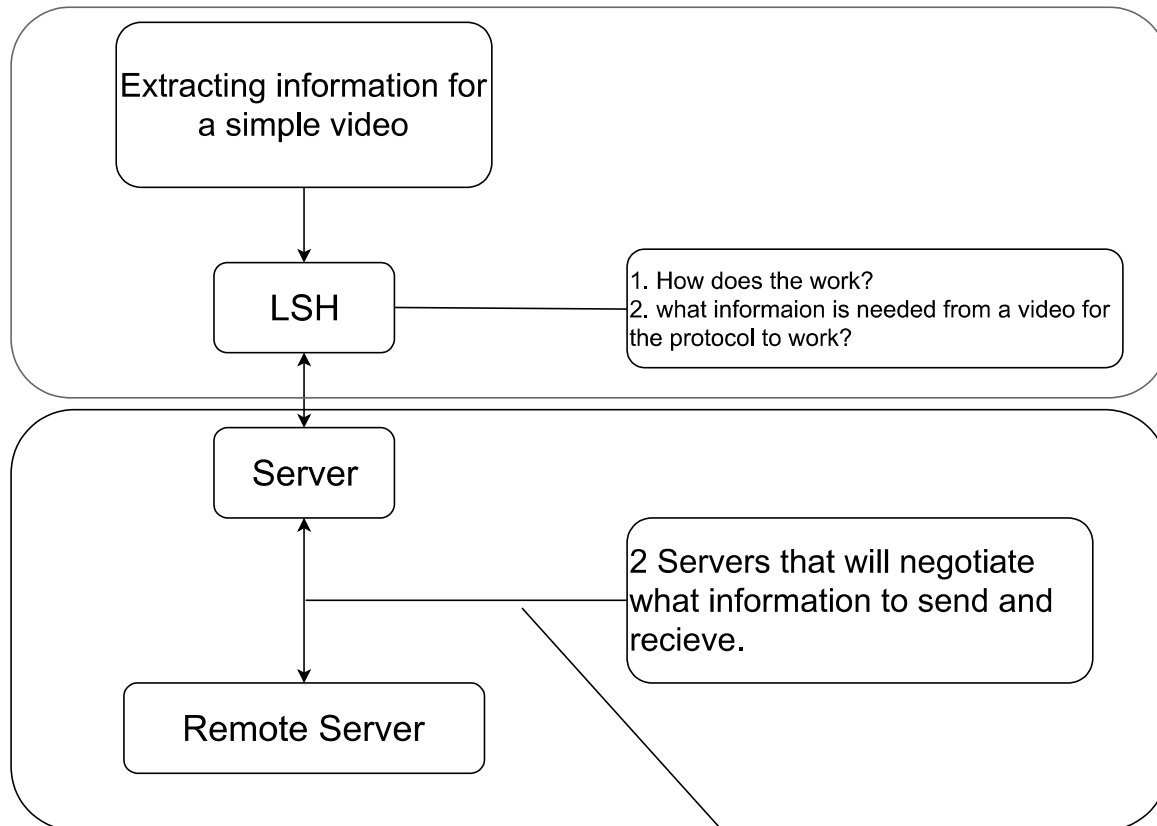
thus, we try and minimize the amount of information a remote server processes and send back to on-the-field sensors.

for example:

a camera sends constant information to a server for a security monitor job.

after sampling enough data, the camera might not send a whole picture, but only pixels that changed.





Summarizing the Stages:

1. LSH and Image data extraction needed to be developed together.
 - 1.1. a group of 2 people will work together to figure what information to extract, how to store it and how to devide it so LSH can be used efficiently.
2. Developpe a simple server that can be used by 2 different computers.
 - 2.1. the servers need to simply send information to each other.
 - 2.2. the servers need to be able to send information by UDP and TCP protocol.

Need to figure:

1. Build 2 servers.
2. they have to be remote.
3. decide what information to send.
 - 3.1. information of the frame of relevant data (for a picture it is a 2D array of pixels).
 - 3.2. information from the frame that changed or expected to change \ not change.