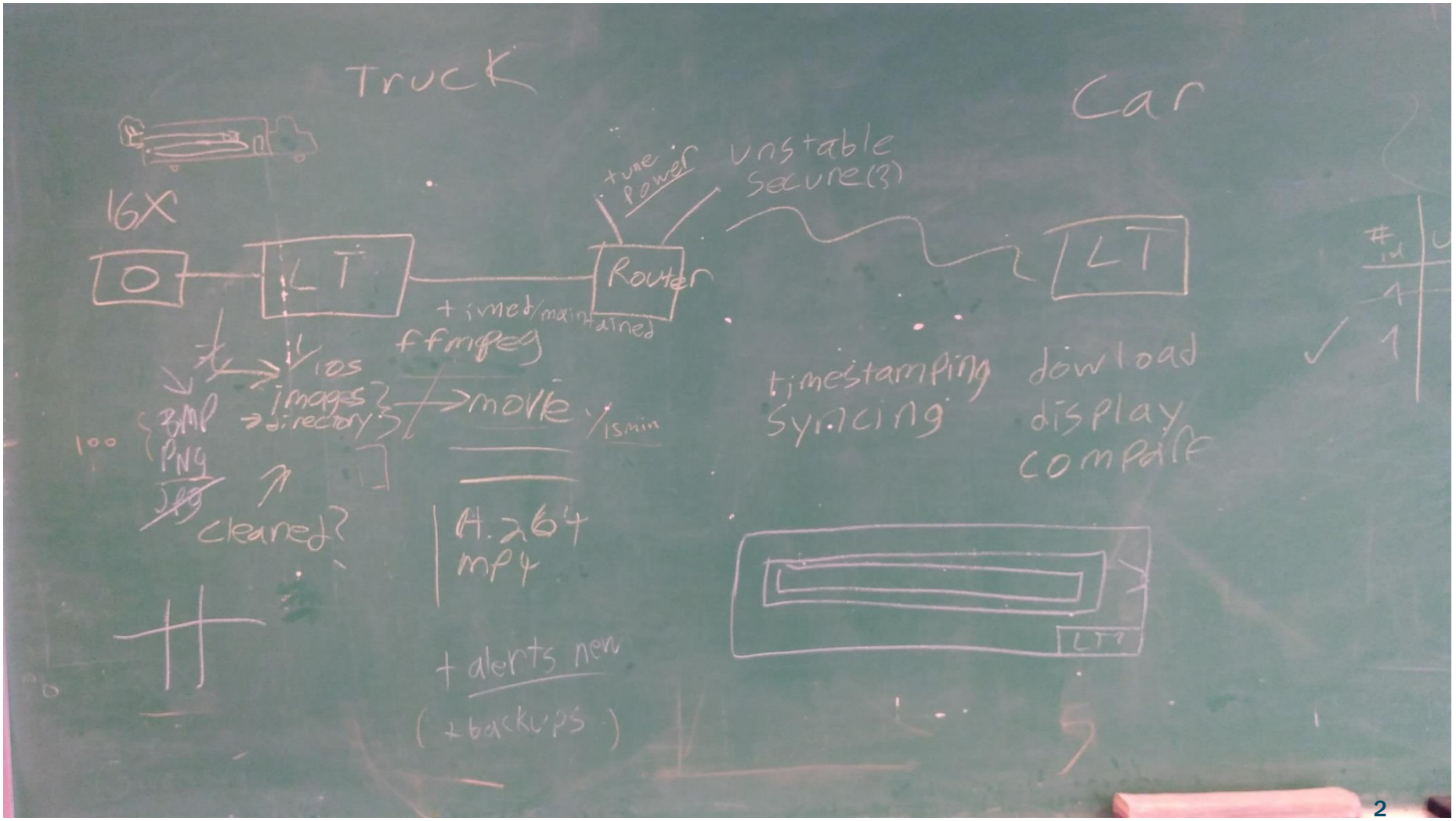
PRELIMINARY MONITORING PLANS

INITIAL SKETCH



CARTOON

Cameras

Picture every ~10s

Laptop (Truck)

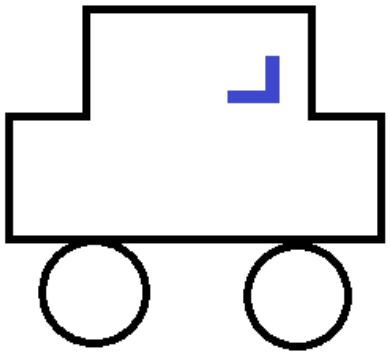
Processes pictures into time lapse video

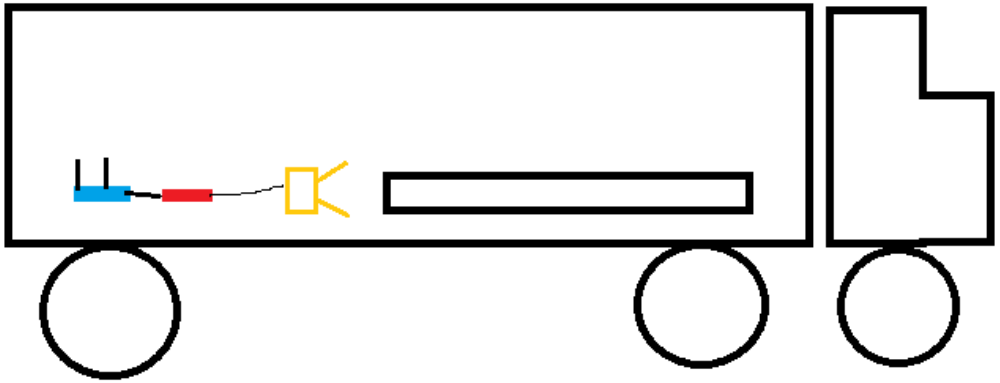
Router

-Maintains local wifi
-Tuned

Laptop (car)

-Receives video
-Checked every ~15m





LAPTOP ON THE TRUCK

- Takes images from camera and produces video
  - ffmpeg can make a 30fps video from files in a directory
  - Time lapse will preserve sanity of monitor
- Powered by 12-20V DC depending on LT (could use 120V AC as well, of course).
- Presumably powers camera
- Still need to get Camera->Laptop link defined

ROUTER

- WRT54GL
- Can be flashed to increase antenna power
- Antenna have standard extension cable/replacements
  - Can these be brought outside truck?
- Getting proper range will require science

-12V DC or 120V AC

LAPTOP IN THE CAR

- Once a link is established, receive video and display it
- A script using scp to sync will work fine
  - Other options exist if needed (more careful updating and checking – rsync, etc)
- Use common video software (VLC)
- Compression happening on the truck puts minimal stress on the link