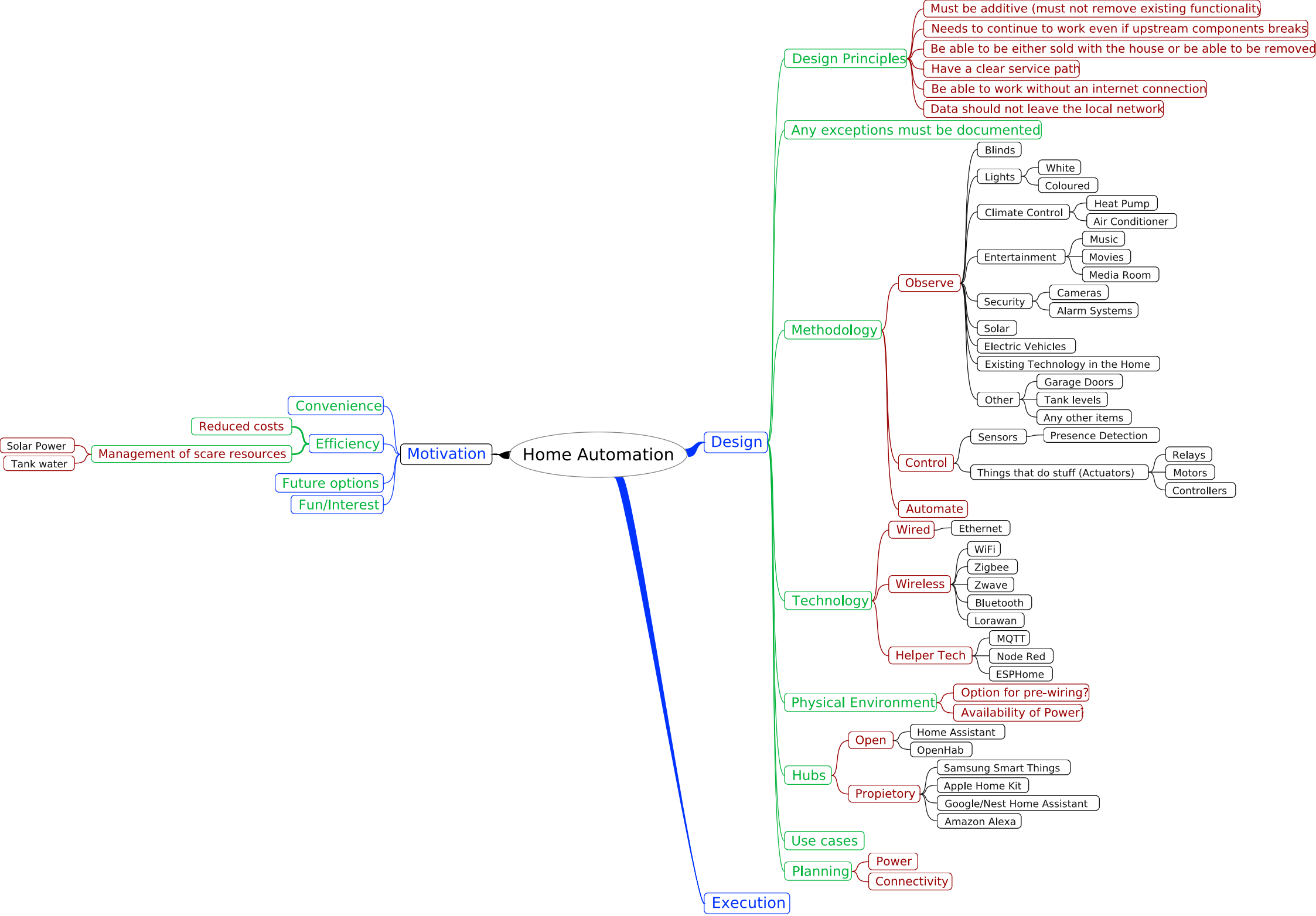
Home Automation
Motivation
Convenience
Efficiency
Reduced costs
Management of scare resources
Solar Power
Tank water
Future options
Fun/Interest
Design
Design Principles
Must be additive (must not remove existing functionality
Needs to continue to work even if upstream components breaks
Be able to be either sold with the house or be able to be removed
Have a clear service path
Be able to work without an internet connection
Data should not leave the local network
Any exceptions must be documented
Methodology
Observe
Blinds
Lights
White
Coloured
Climate Control
Heat Pump
Air Conditioner
Entertainment
Music
Movies
Media Room
Security
Cameras
Alarm Systems
Solar
Electric Vehicles
Existing Technology in the Home
Other
Garage Doors
Tank levels
Any other items
Control
Sensors
Presence Detection
Things that do stuff (Actuators)
Relays
Motors
Controllers
Automate
Technology
Wired
Ethernet
Wireless
WiFi
Zigbee
Zwave
Bluetooth
Lorawan
Helper Tech
MQTT
Node Red
ESPHome
Physical Environment
Option for pre-wiring?
Availability of Power?
Hubs
Open
Home Assistant
OpenHab
Propietory
Samsung Smart Things
Apple Home Kit
Google/Nest Home Assistant
Amazon Alexa
Use cases
Planning
Power
Connectivity
Execution