Designing a Smart Home infrastructure
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DIY products and the IoT

Multimedia and the changing face of TV viewing

connected Vs. smart home
Connected Vs Smart

Right now we are really in the connected home space

The smart home might take a bit longer to be realised
Integrated

Adjective:

combining or coordinating separate elements so as to provide a harmonious, interrelated whole

Smart home?
Smart home = 4 main subcategories

**Safety and security**
locks, cameras, motion detectors, fire/smoke/water/gas/intruder alarms, etc.

**Infotainment**
already here with Smart TVs and personalized streaming services

**Environmental controls**
also moving with “learning” thermostats

**Metering**
30 minute billing, time of use credit, budgeting & choice
Smart homes or technology should provide:

- Time or money

Quality of life
Smart meters

New tariffs

Customer choice

Time of use based billing
Smart use of energy

The Smart home needs to make smart choices for us
Integrated systems

Heating
Cooling
Lighting
Security/CCTV
Renewables

Sensors for
occupancy
temperature
air quality
time of day
solar gain

Smart home
DIY & the {IoT} Internet of Things
Smart Home, everybody wants a piece
Nest set up screen

Heating has changed
But

Sometimes, even if I stand in the middle of the room, no one acknowledges me.
Smart

Today

some things
talk to

some other things
The silo effect

A system, process, department, etc. that operates in isolation from others
Smart

This will change
Smart

It all needs to work together in order for it to be a smart home.

Working together is success.

Henry Ford
Traditional devices
new devices appear daily
Assisted living

Modern technology is changing the face of assisted living

Enabling easy
  Remote communications
  Emergency calls
  Health monitoring

Must work
Multimedia and the changing face of TV viewing
• Video goes mobile by generation

• By 2019 it is anticipated 80% of internet traffic will be video
Everything is streamed now
- Social media
- Internet browsing
- Music
- Film & TV
What will the smart home of the future look like from a technical perspective?
The solution?
Part of
but not the whole solution
Modern construction techniques
Faraday cage effect
The case for copper
The case for copper

- Smart meters increasingly looking for a wired connection
- TV viewing from aerial, satellite or internet
- Streaming services
- Location of wireless routers often an issue
Structured wiring for the home

The connected home needs

A wiring infrastructure

Cabled to a central point

With all available incoming services wired to the same location (ELVHE)

Connected to the internet
And media services
Developers, house builders, home owners need a simple, scalable structured wiring solution to facilitate the needs of the smart home.
Thank you

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