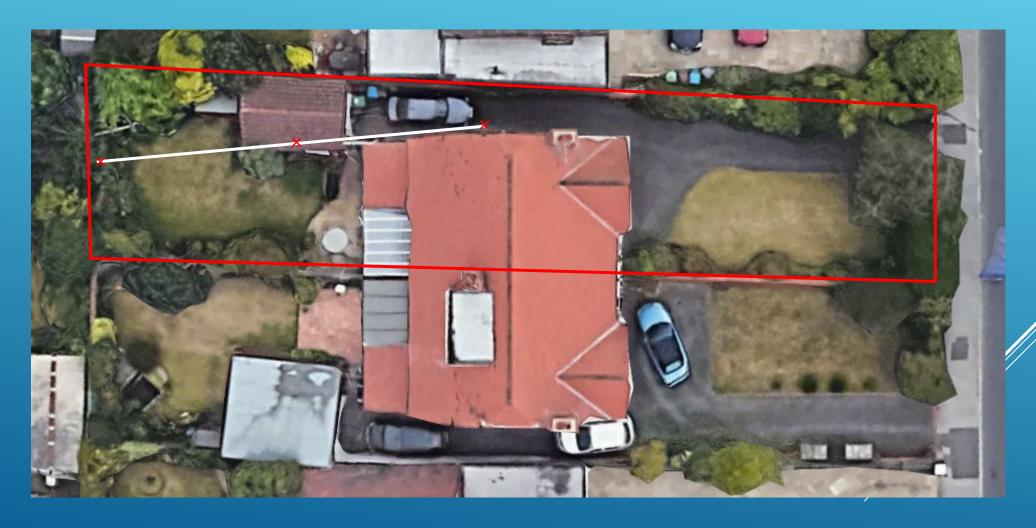
# THE EVOLUTION OF AN HE ANTENNA

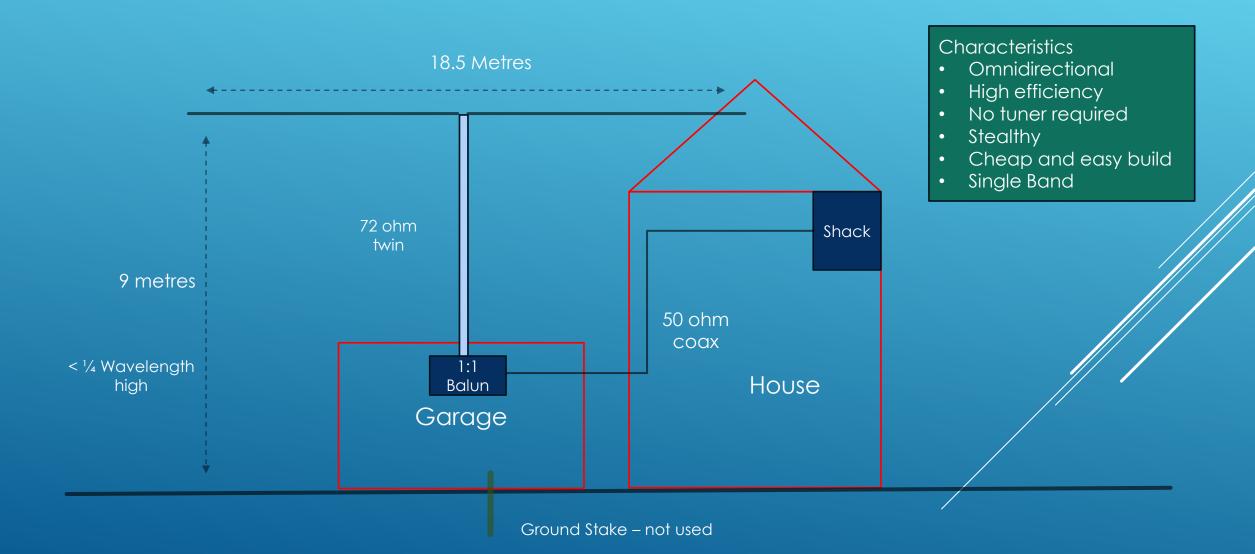
In a moderately sized garden...

Steve Withnell GOAIN

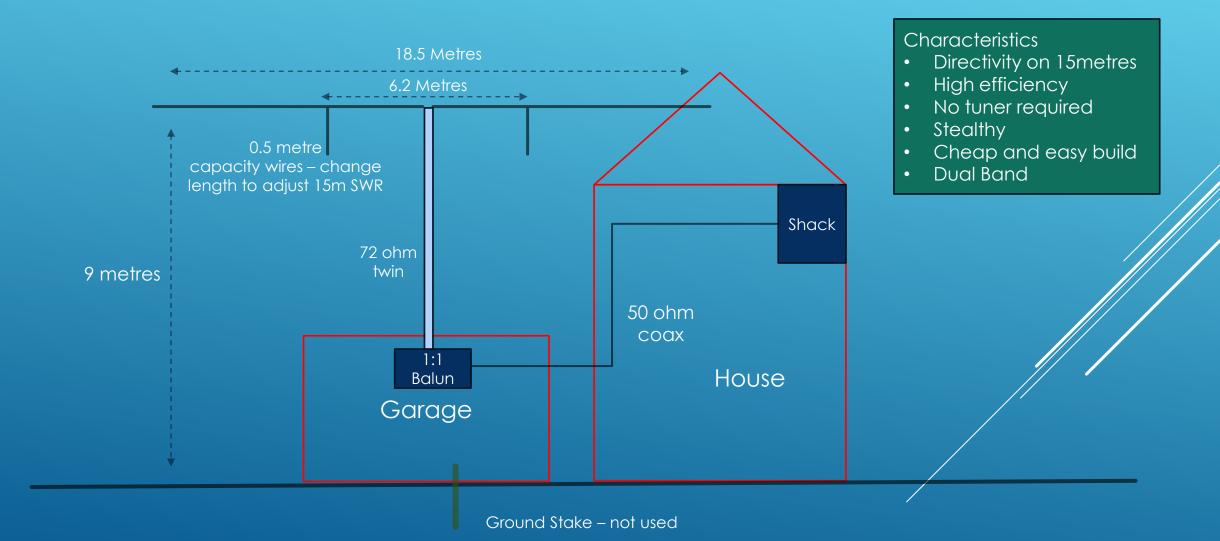
My plot – I can just squeeze in 19 metres of Antenna Wire Which is just enough for a ½ wave dipole on 40 metres!



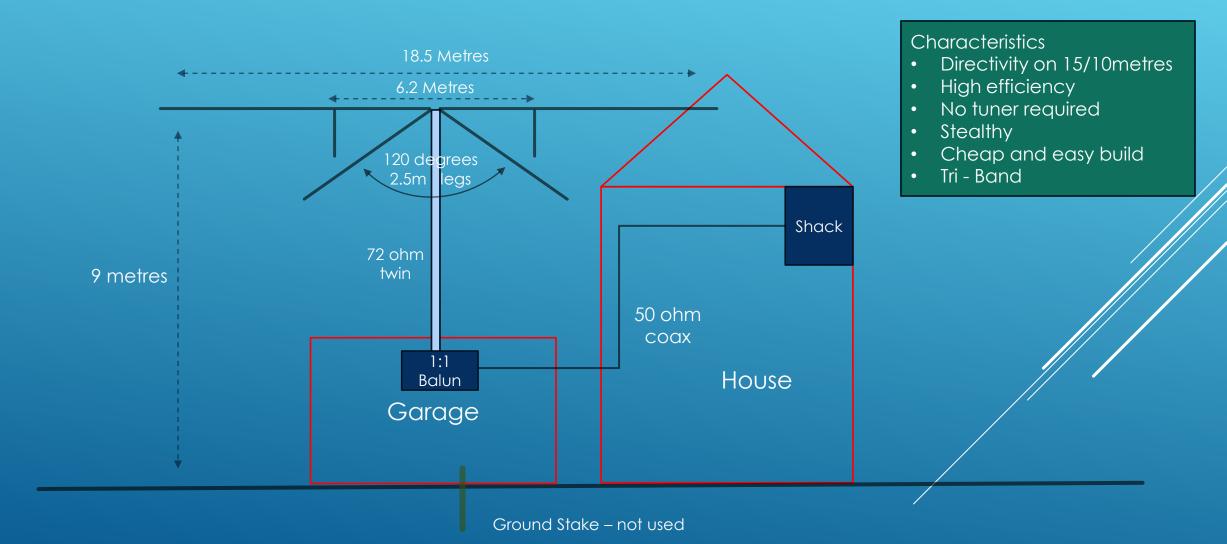
### Antenna No.1 – 40 metre dipole



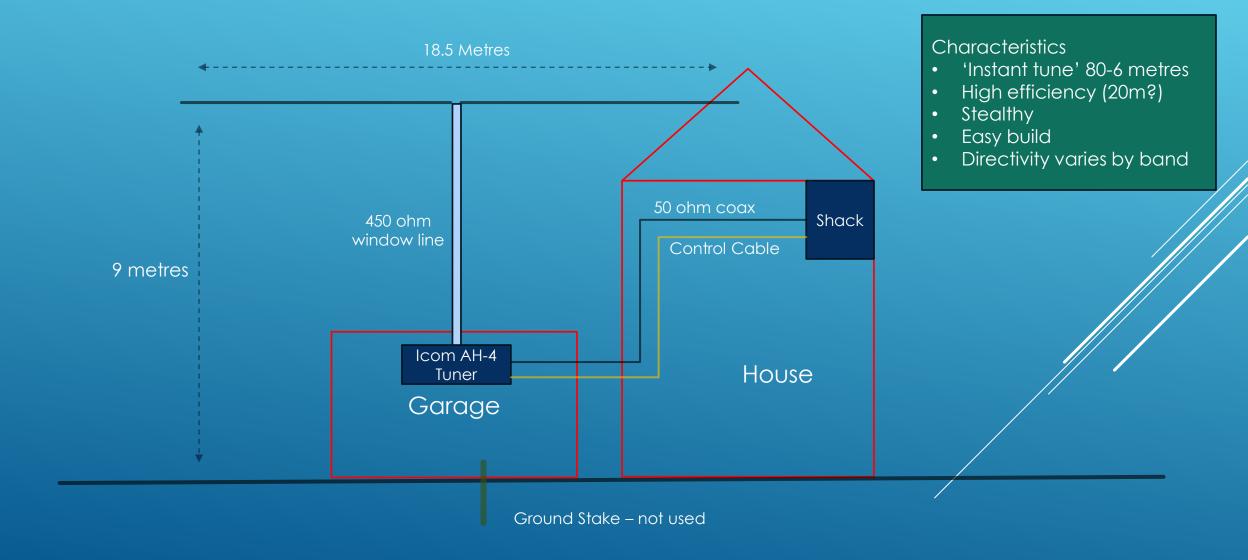
#### Antenna No.2 – 40/15 metre dual band dipole



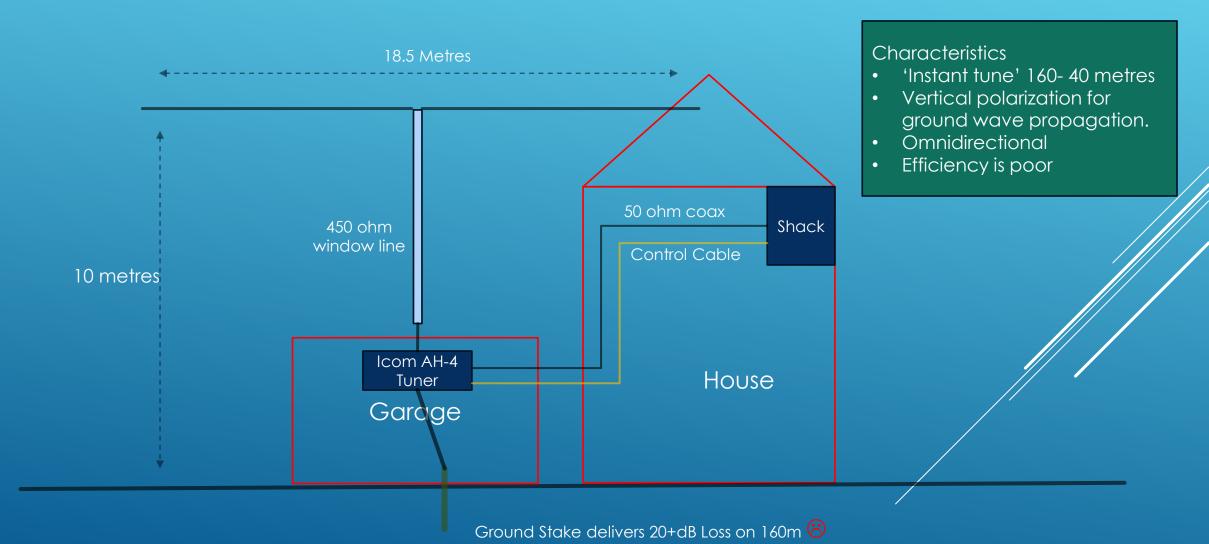
#### Antenna No.3 – 40/15/10 metre tri-band dipole



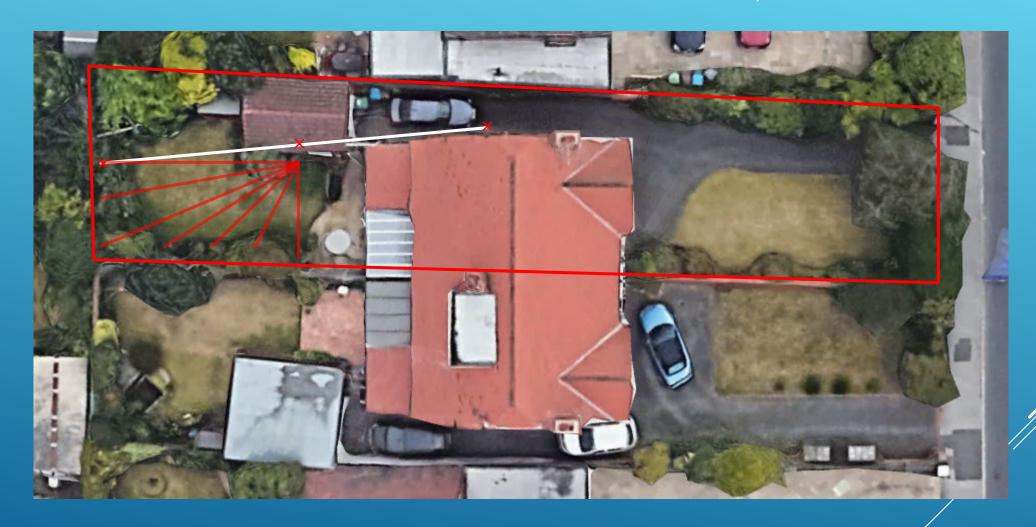
#### Antenna No.4 – 80 to 6 metre multiband-band doublet



## Antenna No.5 – 160 to 6 metre multiband-band top loaded Marconi (Easy to switch back to Antenna #4)



## The Addition of Some Radials Reduces Losses by 10dB



So I now estimate the losses on Top Band to be about 10dB...

# Antenna No.7??? – 630m top loaded Marconi (A work in Progress)

