



Kevin Hoban

Smart Street Project Manager



Smart Street project overview



£11.5m,
4 year
innovation
project



Started in Jan
2014 and
finishes in
Apr 2018



- Quicker connection of LCTs.
- Lower energy bills.
- Improved supply reliability.

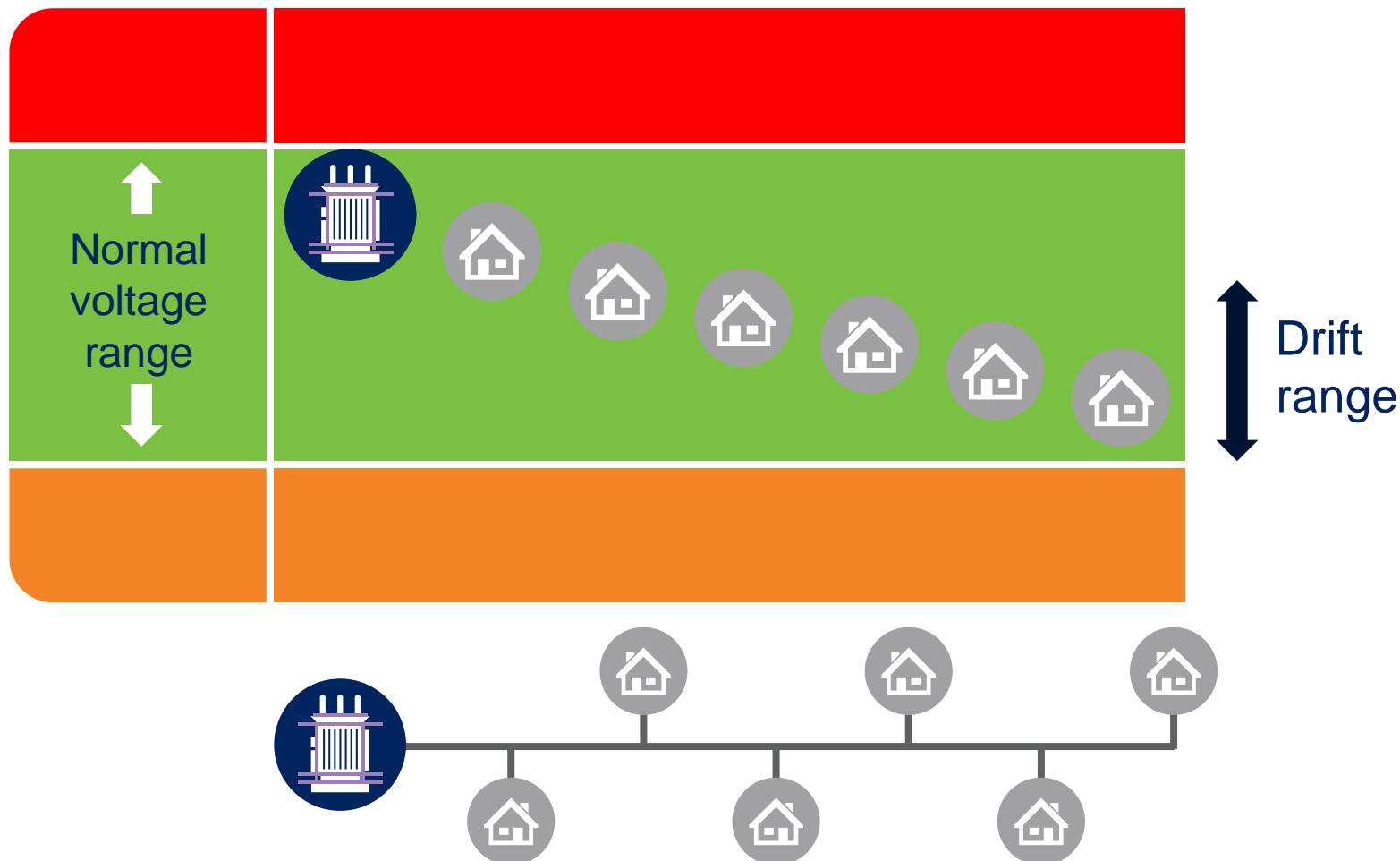


Trials period
Jan 2016 –
Dec 2017



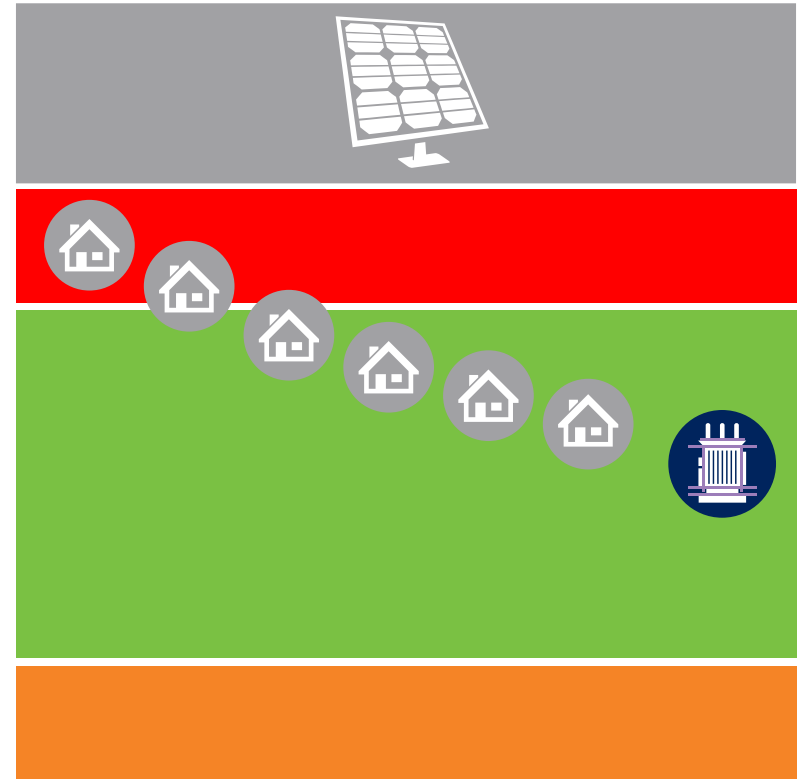
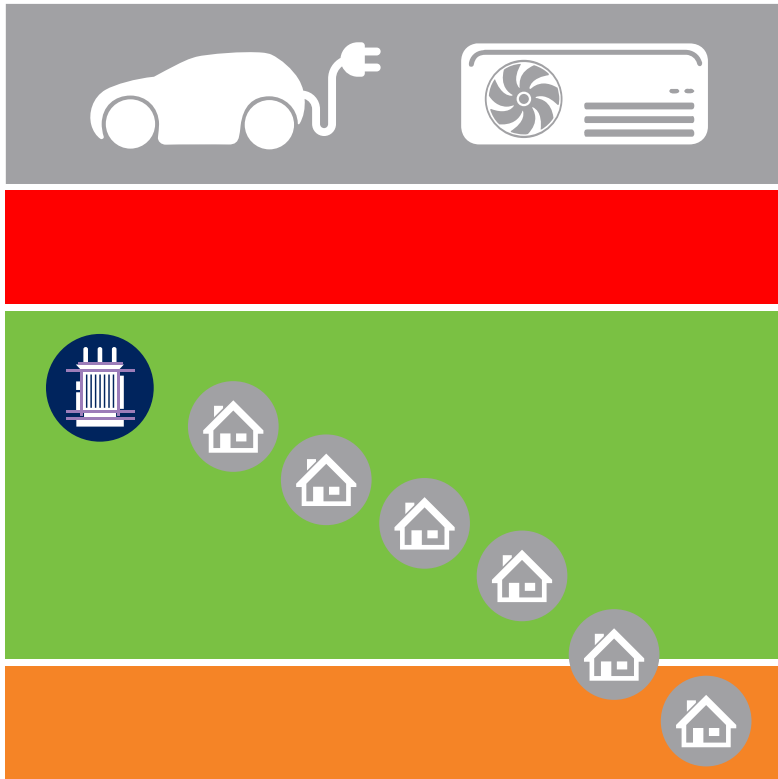
Extensive
customer
engagement
programme
throughout
project

Voltage profile

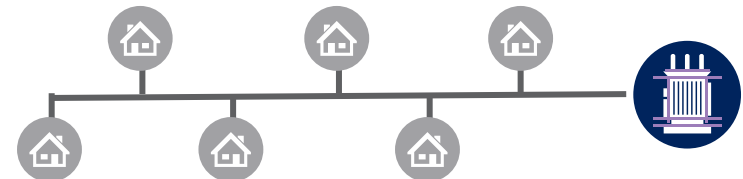
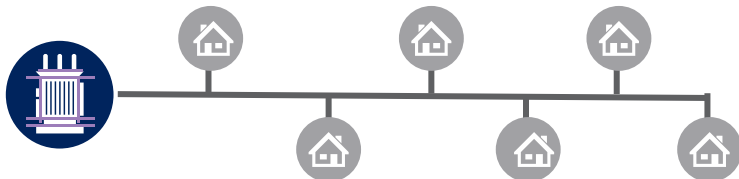


Historic networks have no active voltage regulation

Problem - LCTs create network issues

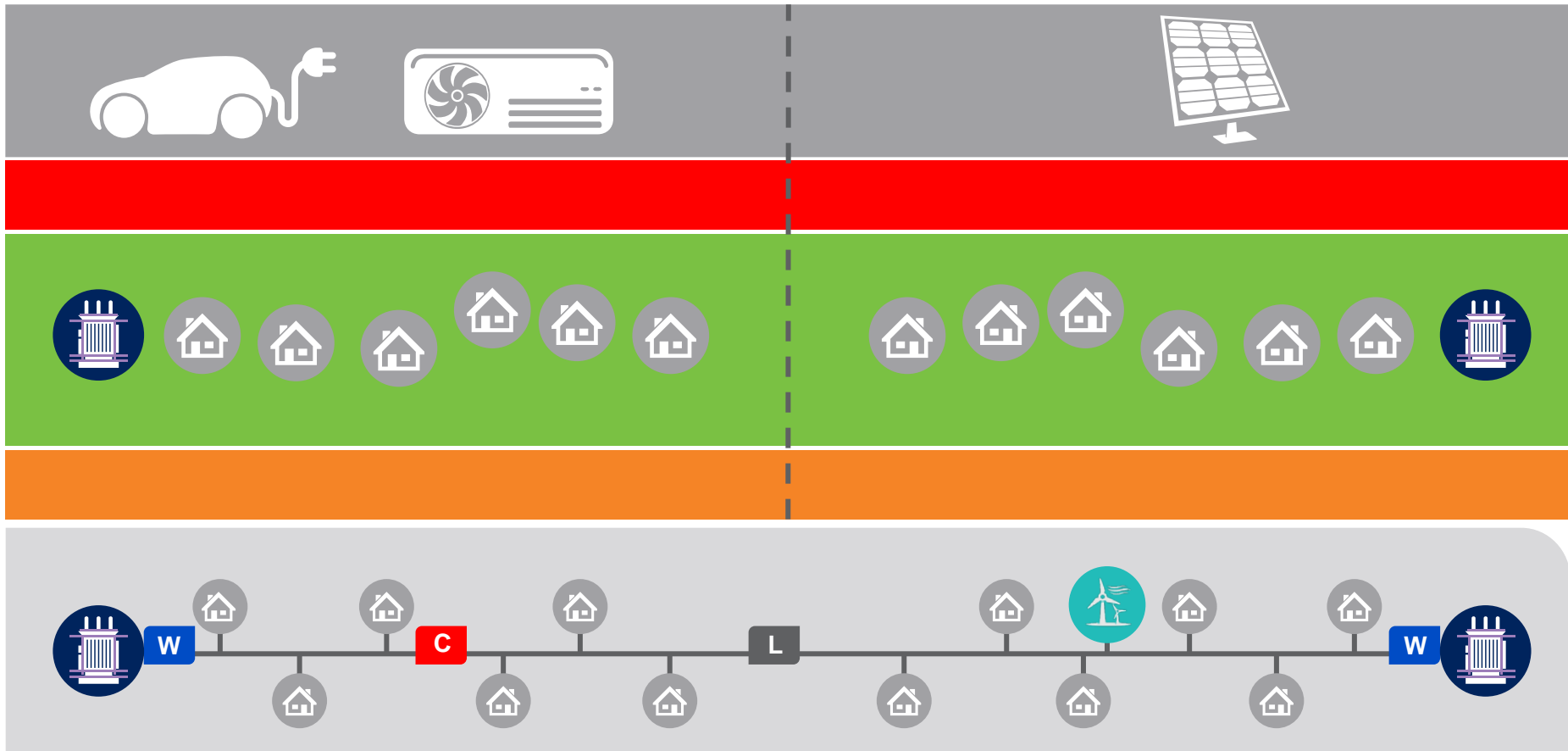


↑
Drift range
↓



LCTs rapidly surpass voltage and thermal network capacity

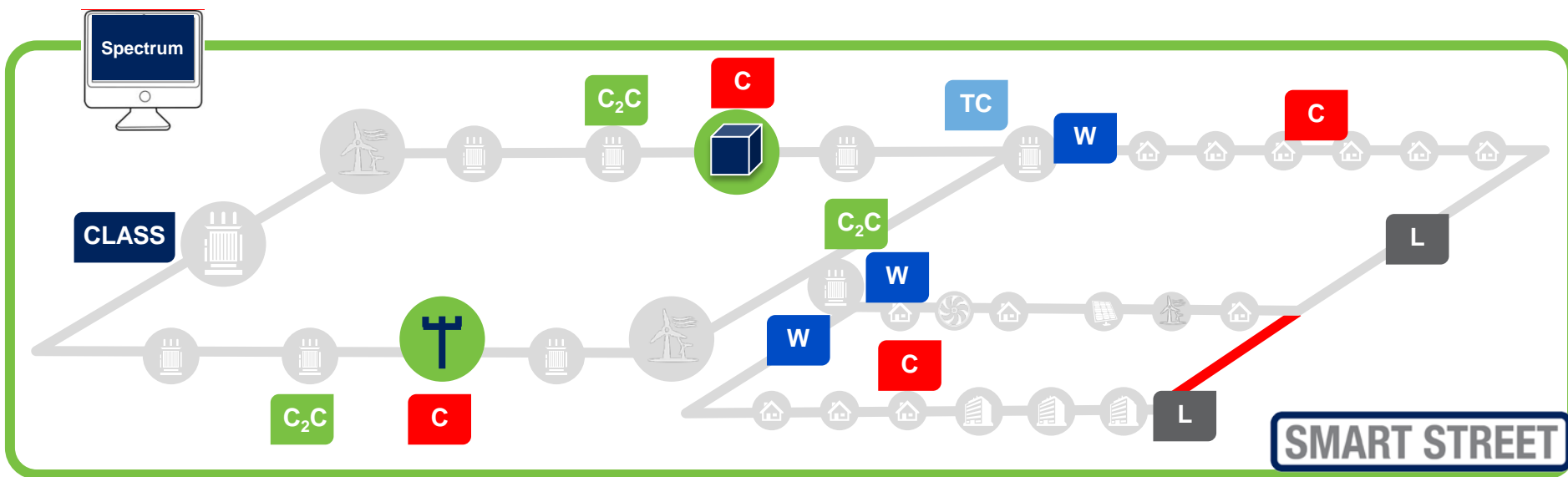
Smart Street – the first intervention



Low cost • Quick fit • Minimal disruption • Low carbon • Low loss • Invisible to customers

Voltage stabilised across the load range • Power flows optimised

Network reliability improvement



- C₂C Capacity to Customers
- C Capacitor
- W WEEZAP
- L LYNX
- TC On-load tap changer

Builds on C₂C and CLASS • Storage compatible • Transferable solutions

Smart Street benefits




New controllable equipment on network stabilises voltage

Allows us to lower voltage levels

Enables networks and appliances to work in harmony

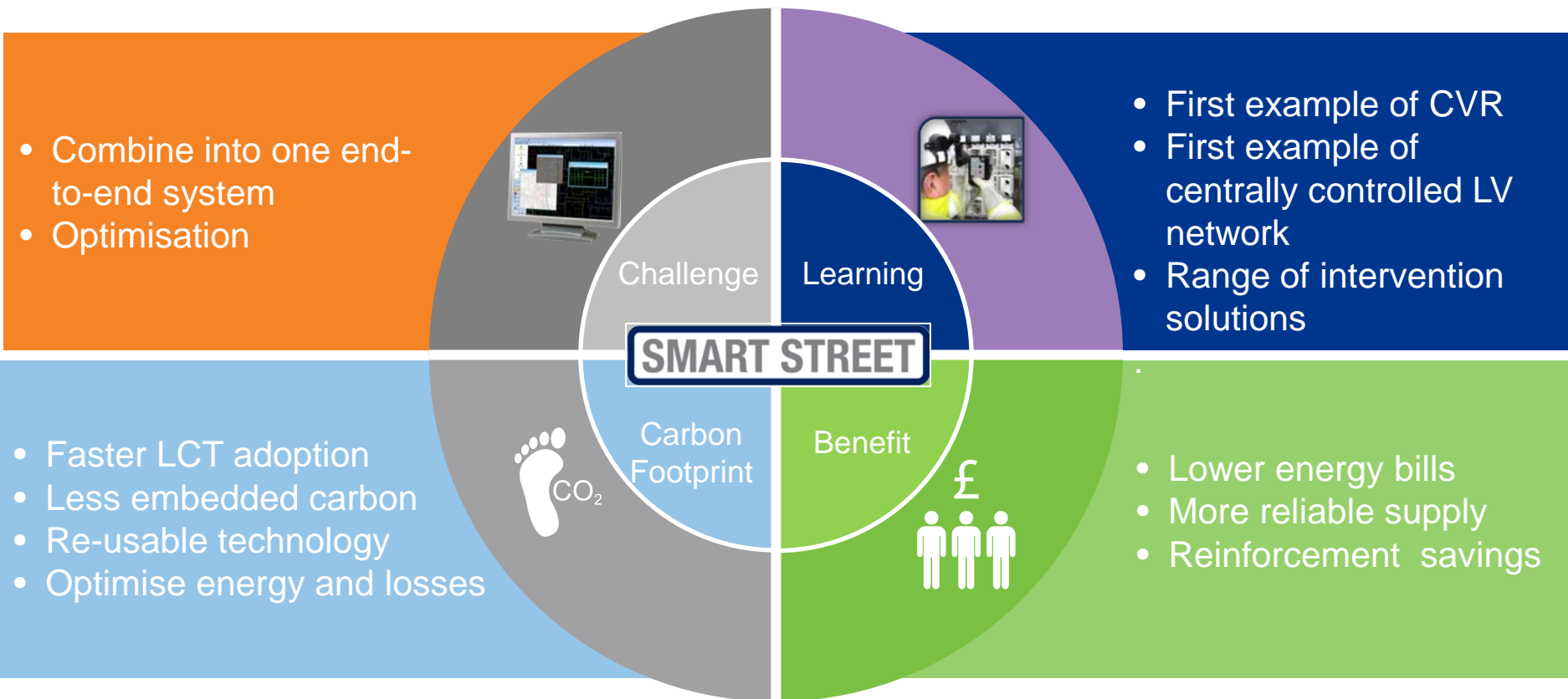


How much could customers save?

		GB
Reinforcement savings via DUoS	£330 over 25 years	£8.6b over 25 years
Reduced energy consumption, 2013 (from CVR ≈ 3 - 7%)	£15 - £30 pa	£390 - £780m pa
Maximise DG output (from maximising Feed In Tariff income)	£70 pa	£20m pa

Efficient network solutions ● Energy savings ● Carbon benefits

Smart Street summary



Want to know more?



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www.enwl.co.uk/smartstreet



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Thank you for your time and attention