



RailDigital Summit 2017



How the Digital Railway is affecting suppliers

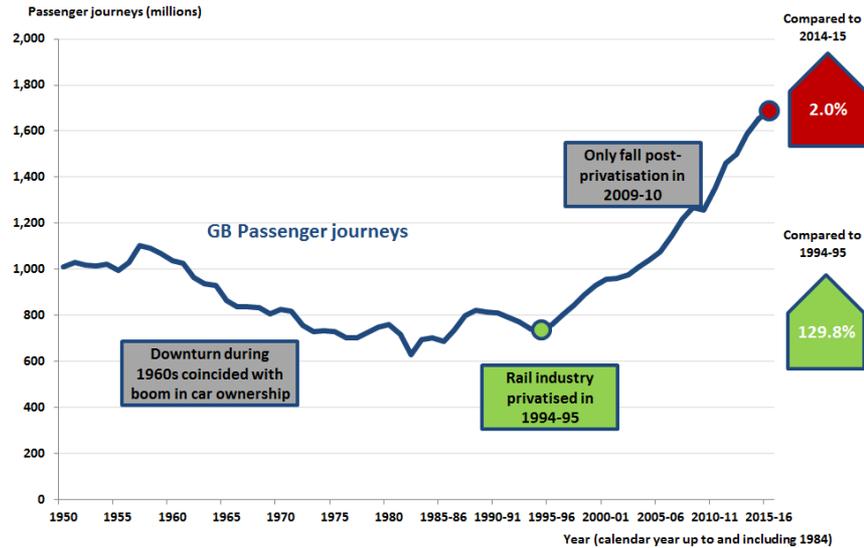
Alstom Transport

26th April 2017



The Headlines

Passenger Demand Growth

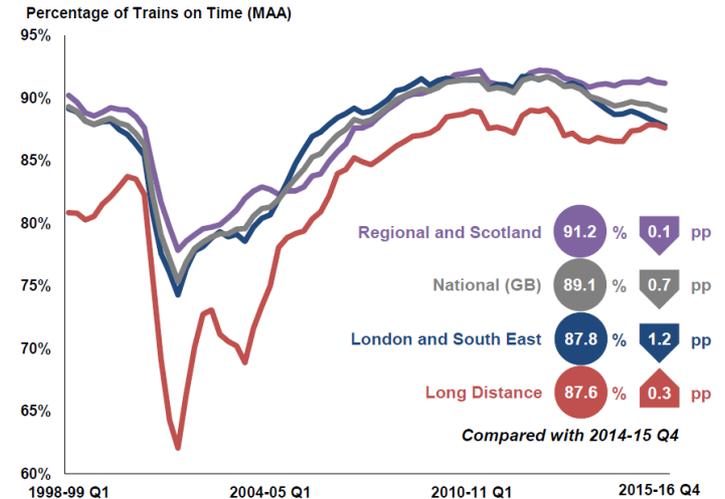


Increased overcrowding & adverse impact when things go wrong

The Headlines

Financial & PPM performance

£m (2015-16 prices)	Actual	Allocated CP4 Rollover	Adjusted Actuals	PR13	Over-spend before adjusting for deferrals	Deferral/ (acceleration) of work	Gross Financial out/under performance
	(A)	(B)	C=(A+B)	(D)	E=(D-C)	(F)	G=(E-F)
Track	984		984	710	-274	42	-316
Signalling	647		647	792	145	425	-280
Civils	622		622	476	-146	70	-216
Buildings	221	10	231	188	-43	13	-56
Electrification & Fixed Plant	144	43	187	224	37	85	-48
Telecoms	53	13	66	96	30	38	-8
Wheeled Plant	90		90	118	28	28	0
IT	127		127	86	-41	-41	0
Property	15		15	30	15	15	0
Other renewals	174	-66	108	4	-104	-96	-8
Total renewals expenditure	3077		3077	2724	-353	579	-932

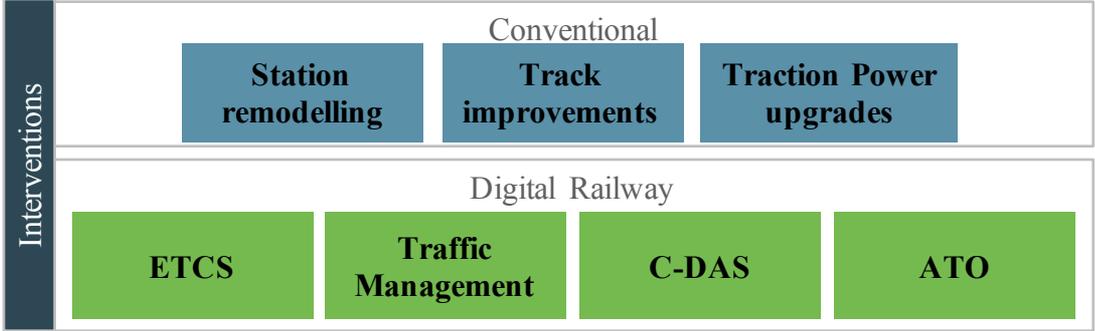


Deteriorating financial & passenger performance

The Digital Railway Challenge



- **No** Digital Railway Silver Bullet
- **No** overnight 'Big Bang'
- Industry **'tool kit'** of interventions
 - Conventional & Digital

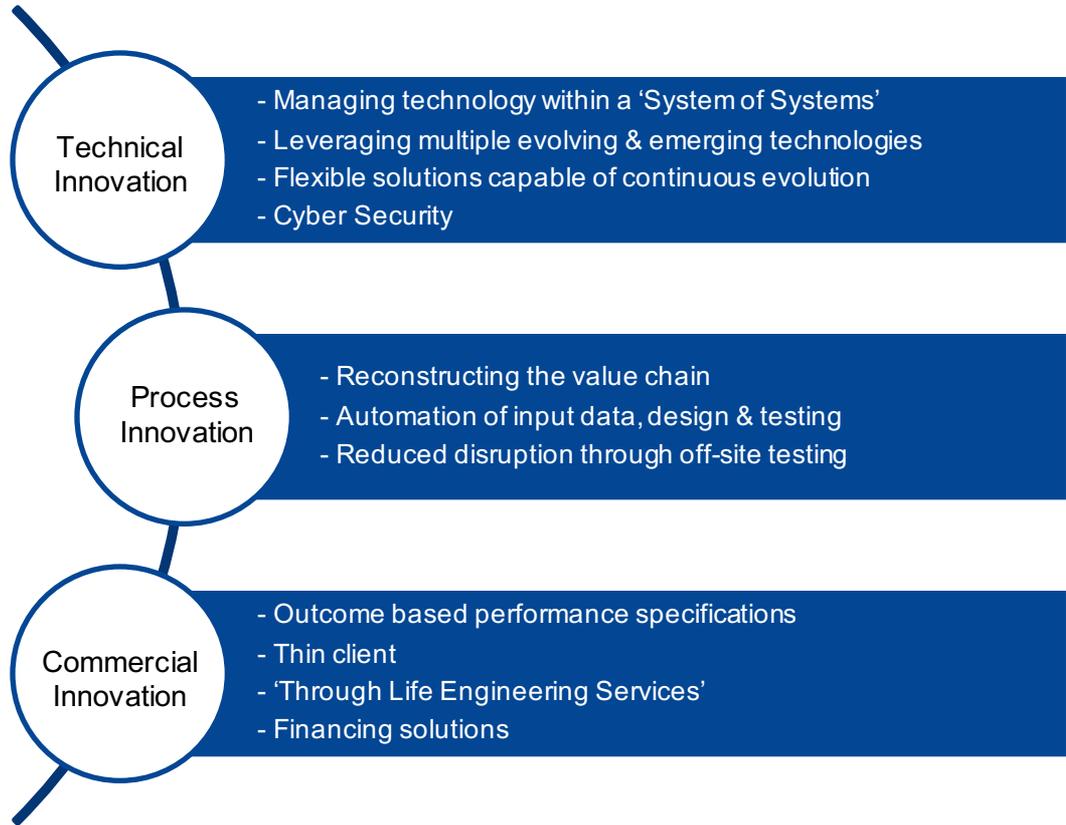


■ Key is selecting the right interventions to deliver the maximum benefit

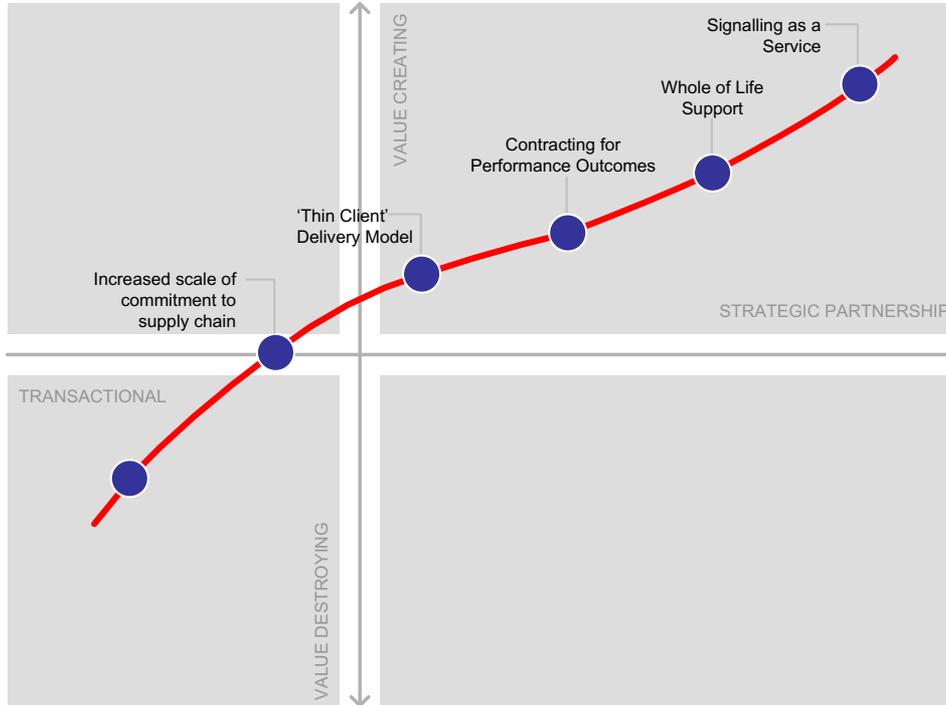
Meeting the challenge

- More capacity
- Improved performance
- A better customer experience

- Lower cost



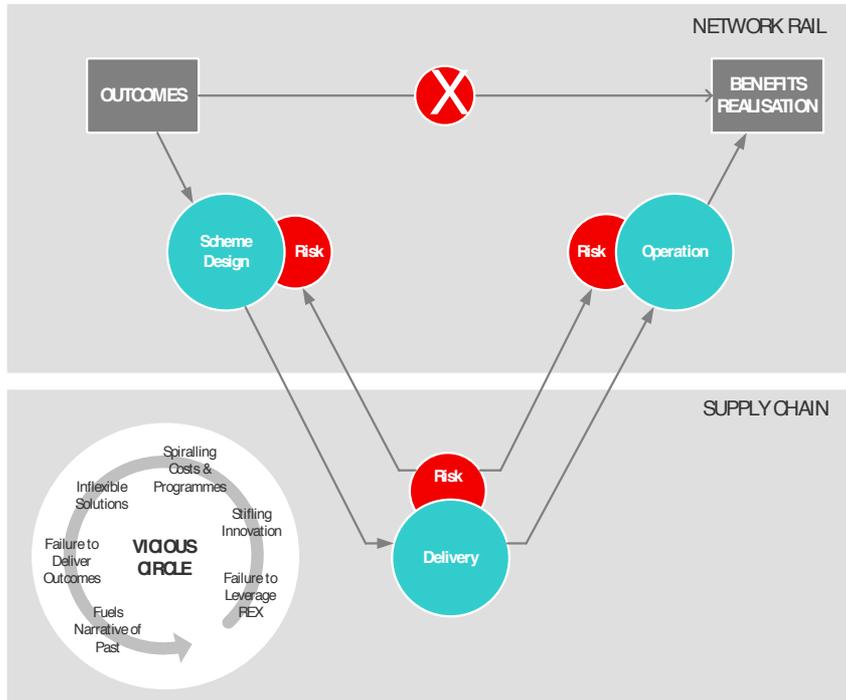
The Value Journey



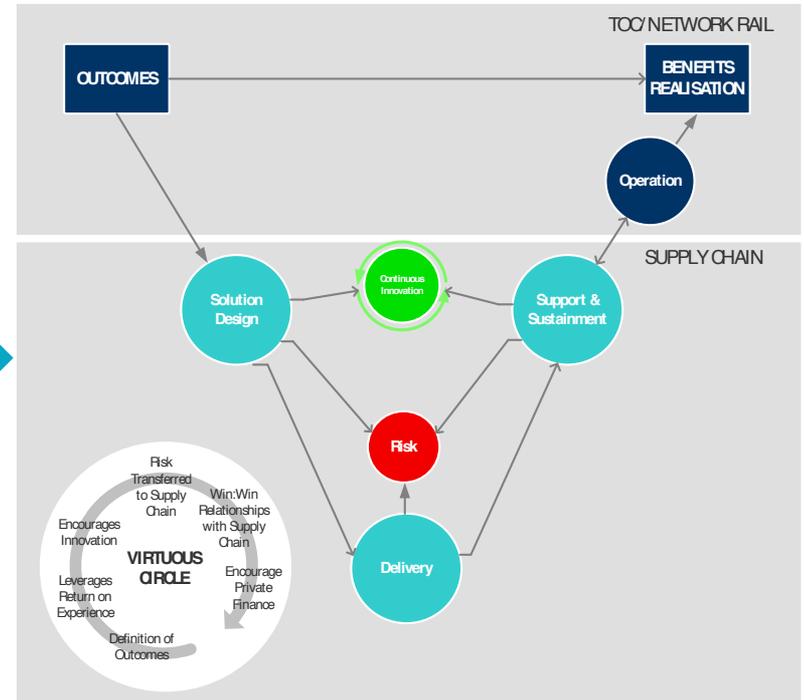
- Scale
 - *Route wide large-scale long term commitment*
- 'Thin Client' delivery model
 - *Light touch leveraging supplier's 'Return on Experience'*
- Contract for performance outcomes
 - *Capacity, Throughput, Security etc.*
- Whole of life engineering support
 - *In service sustainment & continuous improvement*
- Signalling as a Service
 - *Off balance sheet private sector financing*

New business model

From this....

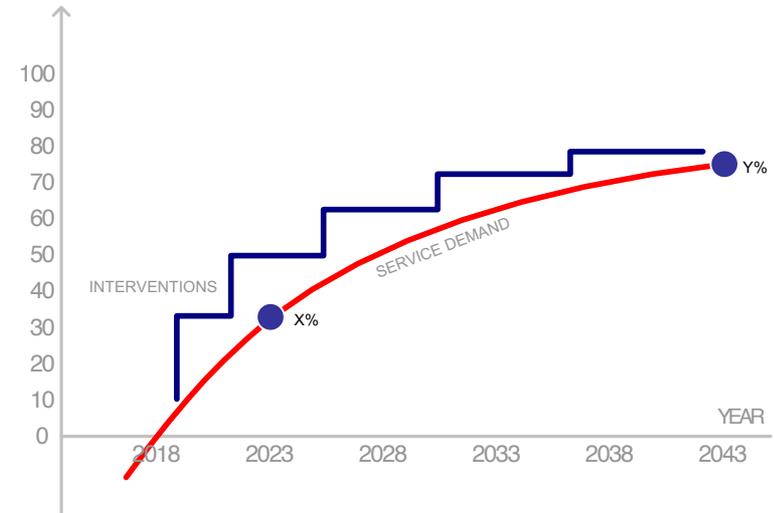


To this



Realising the Digital Railway

- Multiple Phases – “bring suppliers closer to the customer”
 - Solution development, intervention & migration planning
 - Design, delivery & through life engineering services – 25+ years
- Throughput, capacity & performance requirements evolve
- Delivered through incremental performance improvement
 - Interventions & migration states eliminate constraints over 25 year period
 - Interventions move the “efficient frontier” & stay ahead of service demand
 - TLES enables continuous innovation
- Performance, delivery & technology risk with supplier
- Transformational route modernisation through incremental change
 - Broken down into deliverable projects & refreshes over extended period
- Long-term strategic alliance between route, TOC & supplier



Key takeaways

- 1 Today's industry approach will not enable the future
- 2 Targeted interventions, leveraging supplier's return on experience & connecting payment & performance creating the potential to take off-balance sheet
- 3 Aligned incentives around service performance to drive continuous improvement & innovation
- 4 Placing the supply chain closer to customer, combining core competencies will create new sources of value

