

Low Emission Buses in Strathclyde

 supporting delivery of the Regional Transport Strategy

LCVP Low Emission Bus Workshop

8 March 2018

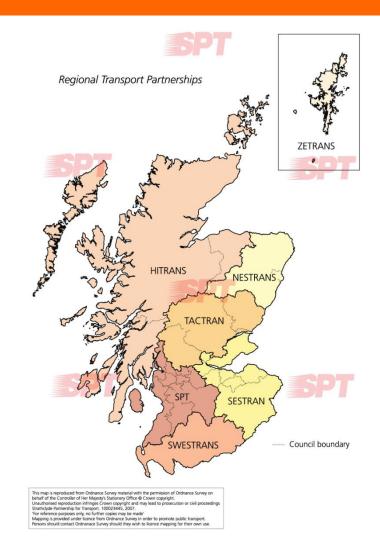




About SPT



- One of 7 Regional Transport Partnerships (RTPs)
- Transport (Scotland) Act 2005
- Partnership working on behalf of 12 councils and 2.15 million people
- Public Transport Trips = 285 Million
- The SPT region covers approximately 43% of Scottish population, but 60% of Public Transport trips
- An operator and an authority
- However.....Car trips = 700 million!!



What we do



- Plan the regional transport network
- Promote and deliver projects
- Operate the Subway
- Support bus & ferry services
- Provide bus infrastructure
- Provide Demand Responsive Transport
- Deliver school transport

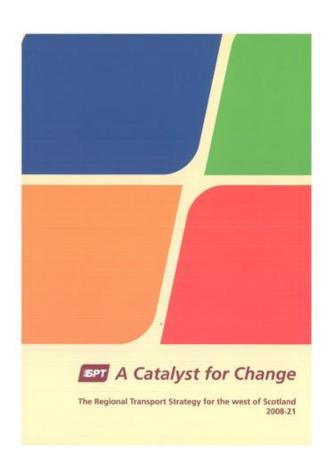
- Promote sustainable travel
- Provide travel information for the public
- Connect freight
- Develop integrated ticketing
- Address transport affordability
- Make journeys safer
- Promote equality

Regional Transport Strategy – 2008 to 2021



4 key transport outcomes;

- Improved Connectivity
- Access for all
- Reduced emissions
- Attractive, seamless, reliable travel



SPT Bus Fleet



- Current Fleet of 102 buses
- Mix of Minibuses & Midibuses
- Solo (50), Orion (28), Tucana (8), Streetlite (8), Sprinter (6)
- Deployed on Local Service & DRT contracts
- Deployed in Urban & Rural Services
- Fleet Mix by Euro Standard;

Euro level	Fleet	LCV?	
Euro 4	8	0	
Euro 5	86	7	
Euro 6	6	0	
EV	2	2	

ADL Enviro 200 Hybrid





Optare Solo EV





Wrightbus Streetlite MicroHybrid





ADL E300 – Euro 6





Mercedes City Sprinter – Euro 6





Why invest in LEB's?



- Reduced operating costs / improved MPG
- Support improved local air quality
- Reduce carbon emissions
- Reduce risk of investment in new technology
- Lead the way in LEB development

Scale of the challenge?



	No of Vehicles	% of total	Vehicle Replacement Cost c £200k per bus	Upgrade Cost Exhaust retro-fit E-fans, telematics & R & M, c £25k per bus
Pre Euro (pre 1993)	76	2.3	£15,200,000	
Euro I (1993-1995)	34	1.0	£6,800,000	
Euro II (1996-1999)	156	4.8	£31,200,000	
Euro III (2000-2004)	896	27.6	£179,200,000	
Euro IV (2005-2007)	479	14.8		£11,975,000
Euro V (2008-2013)	1064	32.8		£26,600,000
Euro VI (2014- to date)	415	12.8		
Hybrid	58	1.8		£1,450,000
Electric	2	0.1		
No response	62	1.9		
Total No. of Vehicles	3242	100.0		
Total Cost Veh Retrofit				£40,025,000
Total Cost Veh Replacement			£232,400,000	

Grand Total £272,425,000

Low Emission Zone(s)



- Bus is key part of the solution (cleaner buses + modal shift)
- Significant Investment in retrofit & fleet replacement required
- Bus running speeds & reliability must improve
- Additional bus priority measures essential
- + Improved passenger facilities
- LEZ Phasing; Alignment with Investment? / Scale of Challenge?



Questions?