



**Don Valley
Railway**

**A presentation to Community Action Penistone &
Stocksbridge**

Don Valley Railway

- A Brief history...
- Current activity and the bid as submitted..
- Wider Aims of the project...
- How it addresses Climate Change...



Brief History of Don Valley Railway and the line

- Manchester, Ashton Under Lyne and Sheffield Railway (1841)
- Manchester, Sheffield and Lincolnshire Railway (1857)
- Great Central Railway (1897)
- Britain's first electrified InterCity route (1954)
- Closure of the line in (1981)

DVR Attempts to Open the Line

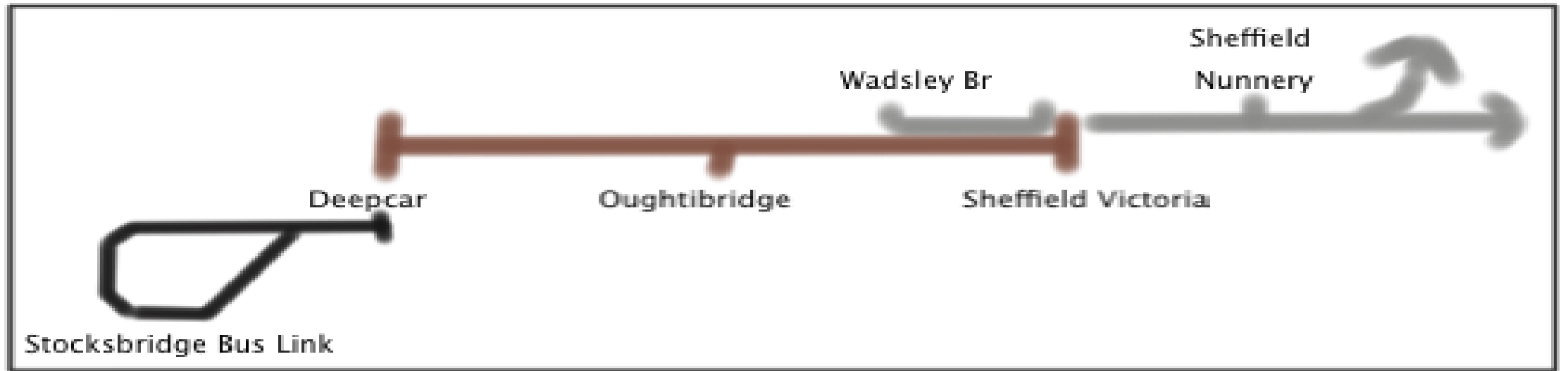
- **DVR Heritage Plans (2004)**
- **Feasibility Study and Passenger Plans (2010)**
- **Study Brief (2012)**
 - **Parry People Movers (2012)**
 - **Bloomberg Philanthropies (2014)**
 - **Northern Re-franchising (2014)**
- **Petition (2013)**
- **Working with Stocksbridge Solar Futures (2015)**

Engineering Feasibility Study and subsequent work

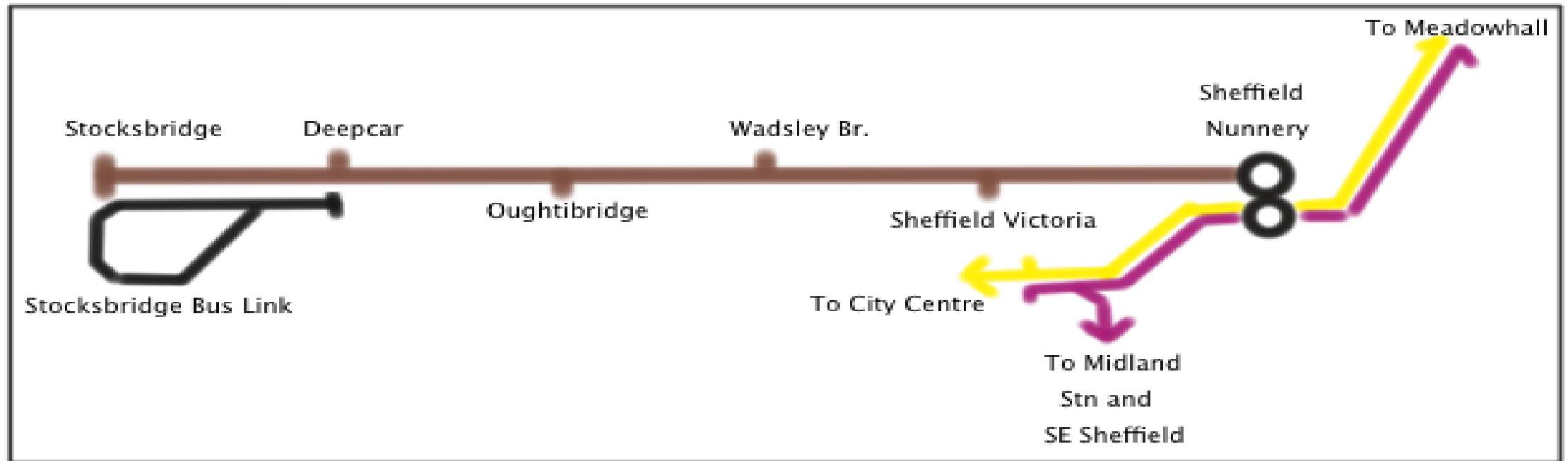
- Cost £11,000
- Undertaken by Arup
- Funded jointly by DVR, Sheffield CC, SYPTE
- Key Conclusion was that it was opening a line to Deepcar initially was a feasible project in engineering terms
- **Cost of Shuttle : £4.3million (2010)**
- Became the bedrock of a plan for our campaign



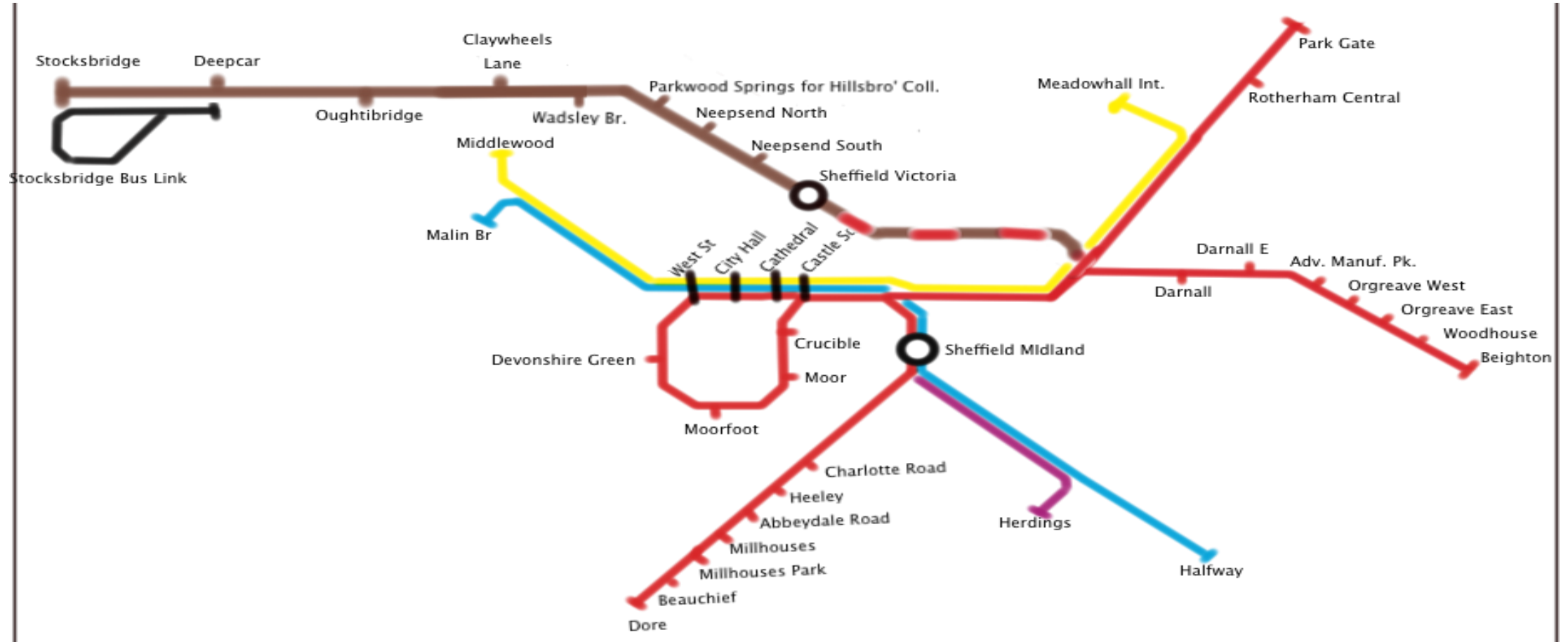
Option 1: The Study Brief - Shuttle



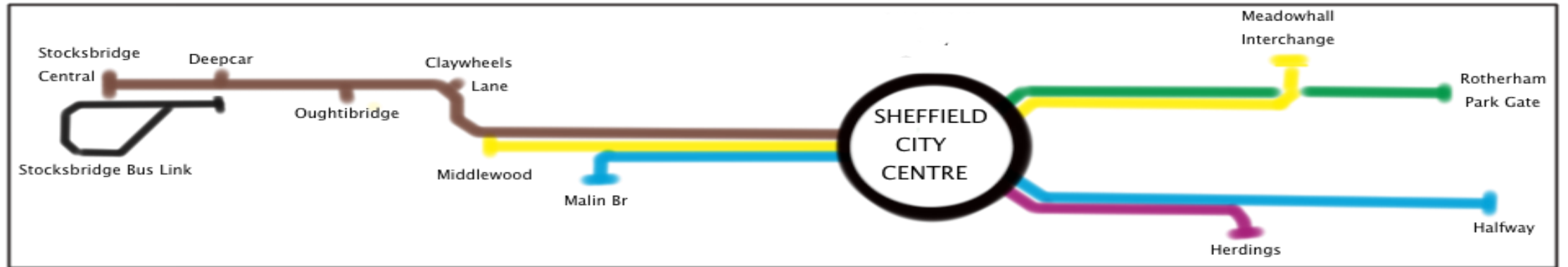
Option 2: The Study Brief - All stations service



Option 3: The Study Brief - Tram Train on Don Valley Line



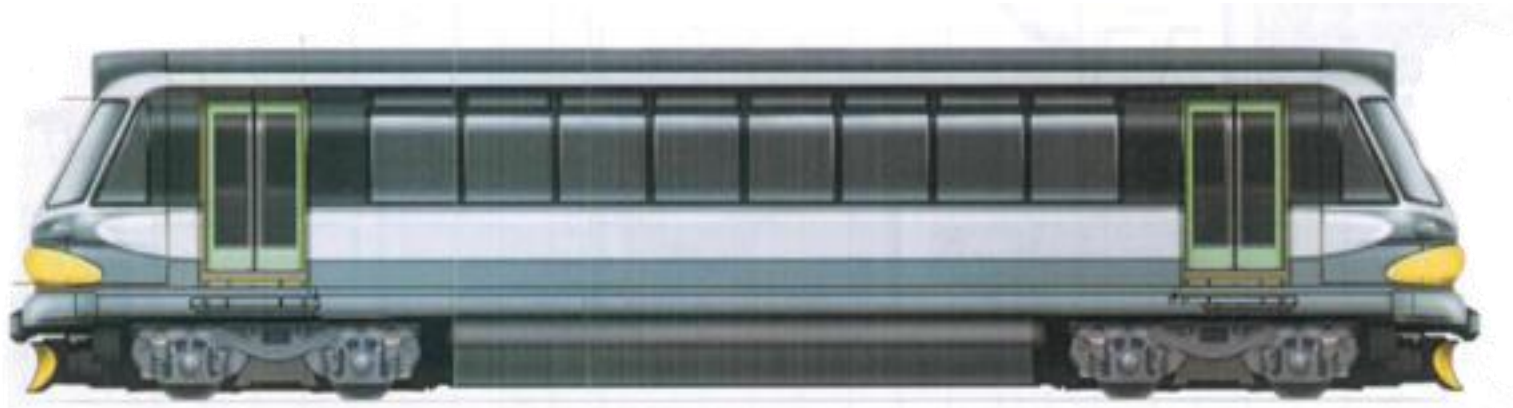
Option 4: The Study Brief Middlewood Extension



COST OF OPTIONS

	Supertram via Don Valley Line to City Centre	Supertram/Tram Train Middlewood to Stocksbridge	Option Stopper to Stocksbridge	Option PPM Shuttle to Deepcar only
TOTAL INFRASTRUCTURE COSTS	£ 138.3m	£ 114.8m	£19.5m	£2.8m
Trains per hour	3	3	3	2
TOTAL OPERATING COSTS	£1.64m	£1.34m	£1.54m	£0.98m
AVERAGE ANNUAL REVENUE	£ 5.33m	£ 1.99m	£ 2.2m	£ 1,25m
PAY BACK YEARS	38.23	174.04	28.67	13.35
30 YEAR CONTRACT RETURN	£102916068	£16616163	£15760836	£6269916
Profit per year	£3430535	£553872	£525361	£208997
Annual Per cent return on investment	2.48	0.48	2.68	7.5

Parry People Northern franchise Movers/ITM Power & Bloomberg



H₂

- PPM were looking for opportunities to launch the concept of **LIGHT RAPID TRANSIT**
- Bloomberg Philanthropies \$ 5,000,000 prize
- ITM Power - Green hydrogen train
- Supported by Abelio's bid for the Northern Franchise which they did not win.

Petition to Sheffield CC 2013

- Spearheaded by DVR Supporter Roy Marsland
- Gained 2900 local signatures
- Presented to Sheffield City Council
- This really put DVR on the council's radar
- Eventually led to further studies
- Led to inclusion in Local Plan



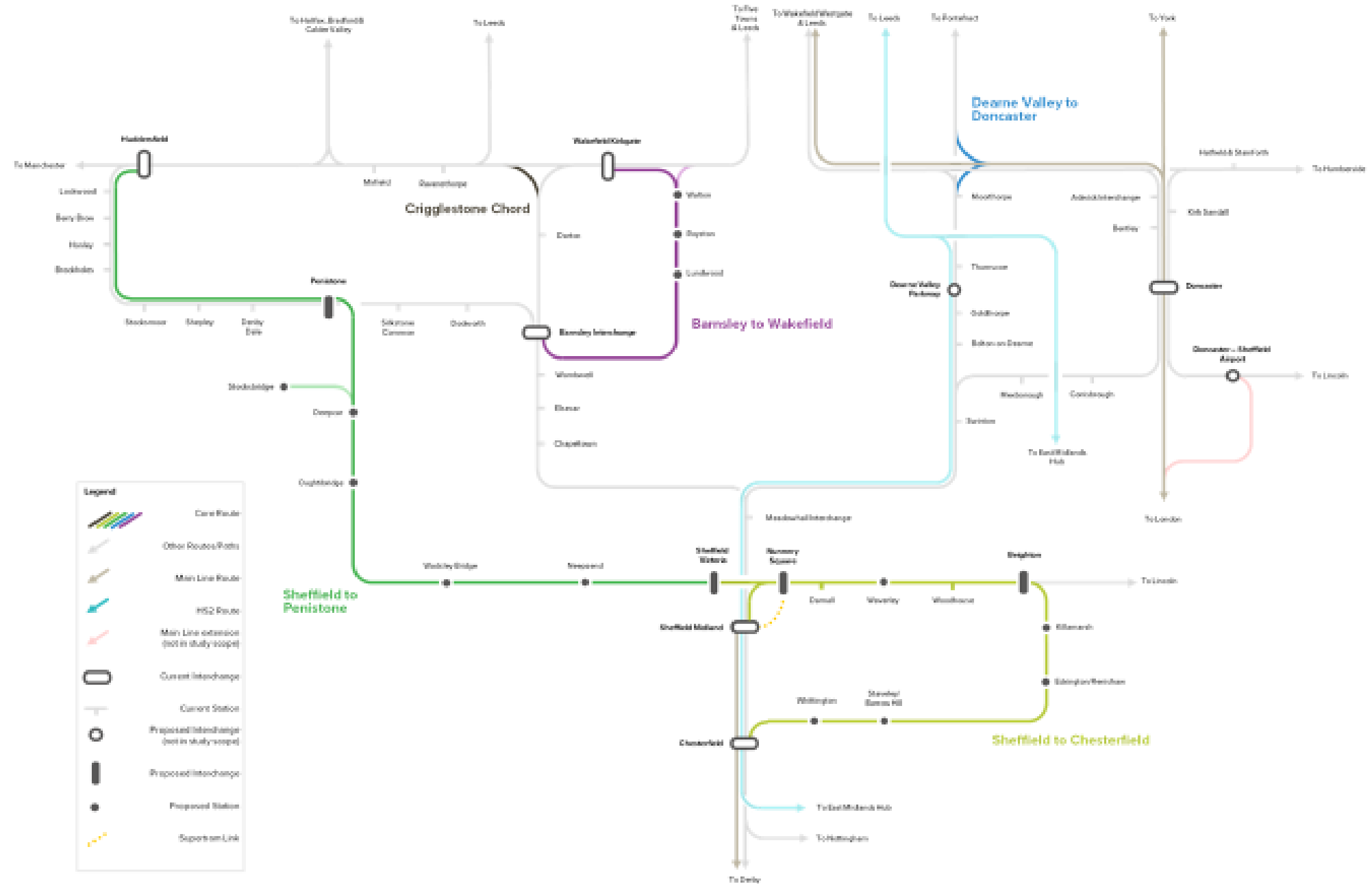
DVR are not the only ones with proposals for openings of the Woodhead Line

- **Great Central Liverpool-Lille Freight Route**
- **Supertram feasibility**
- **Connex Bid (2002)**
- **Translink – Roll on-Roll Off Freight Shuttle**
- **High Speed Rail UK – Network North**

More recently what's happening?

- **2019: Sheffield City Region Rail Re-instatement Study**
 - **Early 2020 : Restoring Your Railway Bid (1st Round)**
 - **Stocksbridge Towns Fund**
 - **March 2021 : Restoring Your Railway Bid (3rd Round)**
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- **Further aims (Penistone/Manchester??)**

SCR Rail Reinstatement Study: Outline Proposals





Department for Transport

- The Restoring Your Railway Programme
- Aim: reconnect smaller towns and communities - improving access to jobs, homes and education.
- £500m fund:
- New Stations Fund: Proposals for new and restored stations.
- Accelerating existing proposals for advanced schemes
- **The Ideas Fund for early stage proposals**

Restoring Your Railway Round 1 (March 2020)

- Don Valley Line not taken forward but highlighted for further development
- Barrow Hill Line taken forward



Restoring your railway re-bid (Round 3)

Option No.	Service / stopping pattern	Service frequency	Station infrastructure	Additional track capacity	Overall capital cost to deliver the pattern	Likely rolling stock required	Alignment with Ambition
1a	Victoria to Deepcar shuttle <i>non-stop</i>	1tph	Deepcar and Victoria	None	Medium	1	Poor
1b		2tph		Passing loop	Medium	2	Poor
1c		3tph		Passing loop(s) as minimum	Medium	2	poor
2a	Victoria (Nunnery Square optional) – Deepcar <i>stopping 2-3 stations</i>	1tph	Deepcar and Victoria plus stations at selected locations	None	Medium	1	Poor
2b		2tph		Passing loop as minimum		2	Moderate
2c		3tph		Doubling likely	High	2or3	Moderate
3a	Victoria (Nunnery Square optional) – Deepcar <i>stopping all stations</i>	1tph	All stations	None	Medium	1	Poor
3b		2tph		Passing loop as minimum	Medium	2	Moderate
3c		3tph		Doubling	High	3	Moderate
4a	Victoria to Stocksbridge shuttle <i>non-stop</i>	1tph	Stocksbridge and Victoria	None	Medium	1	Poor
4b		2tph		Passing loop	Medium	2	Moderate
4c		3tph		Passing loop(s) as minimum	Medium	2	Moderate
5a	Victoria (Nunnery Square optional) – Stocksbridge <i>stopping 2-3 stations</i>	1tph	Stocksbridge and Victoria plus stations at selected locations	None	Medium	1	Moderate
5b		2tph		Passing loop as minimum	Medium	2	Strong
5c		3tph		Doubling likely	High	2or3	Strong
6a	Victoria (Nunnery Square optional) – Stocksbridge <i>stopping all stations</i>	1tph	All stations	None	Medium	1	Moderate
6b		2tph		Passing loop as minimum	Medium	2	Strong
6c		3tph		Doubling	High	3	Strong

How does DVR address Climate Change?

- Takes cars off the road
- Improves the public transport provision in the Upper Don
 - Journey Times
 - Simplicity
- Zero Emissions??
 - Fuel sources
 - Overhead Lines
 - Battery Power
 - Hydrogen (Green, Blue, Brown)

Conclusions

- **DVR will help reduce emissions locally**
- **But note that if Climate Change did not exist DVR would still have benefits (community environmental and socio-economic)**
- **The climate benefits are not localized and are dependent on wider national and global initiatives**
- **A big question is how rail features in the net-zero future**
 - Is improved public transport key or an irrelevance and if not how easy is it to achieve?**
 - Will integrated transport, net-zero technology or both provide the solution?**
- **Fingers are crossed regarding the latest bid**



**Don Valley
Railway**

www.donvalleyrailway.org