

What's new in TUBA

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Since last user group meeting

- Version 1.6c
 - New output tables
 - html
 - Improved performance
- Version 1.7a
 - Fuel consumption calculations
 - Carbon emissions
 - RPF
- Website

New tables in 1.6c

TRIP MATRIX TOTALS

Annualised total trip numbers, 1000s of trips

| Submode | Year | Time Period | DO MIN | DO SOM |
|----------------|-------------|--------------------|---------------|---------------|
| Car | 2010 | AM peak | 644 | 655 |
| Car | 2010 | PM peak | 707 | 726 |
| Car | 2010 | Inter-peak | 865 | 880 |
| Car | 2010 | All | 2216 | 2262 |

SENSITIVITY

Total user benefits as a percentage of total DM user costs

| Mode | Modelled years | |
|-------------|-----------------------|-------------|
| | 2010 | 2025 |
| Road | 28.85% | 39.65% |
| Bus | 3.84% | 6.97% |

html output

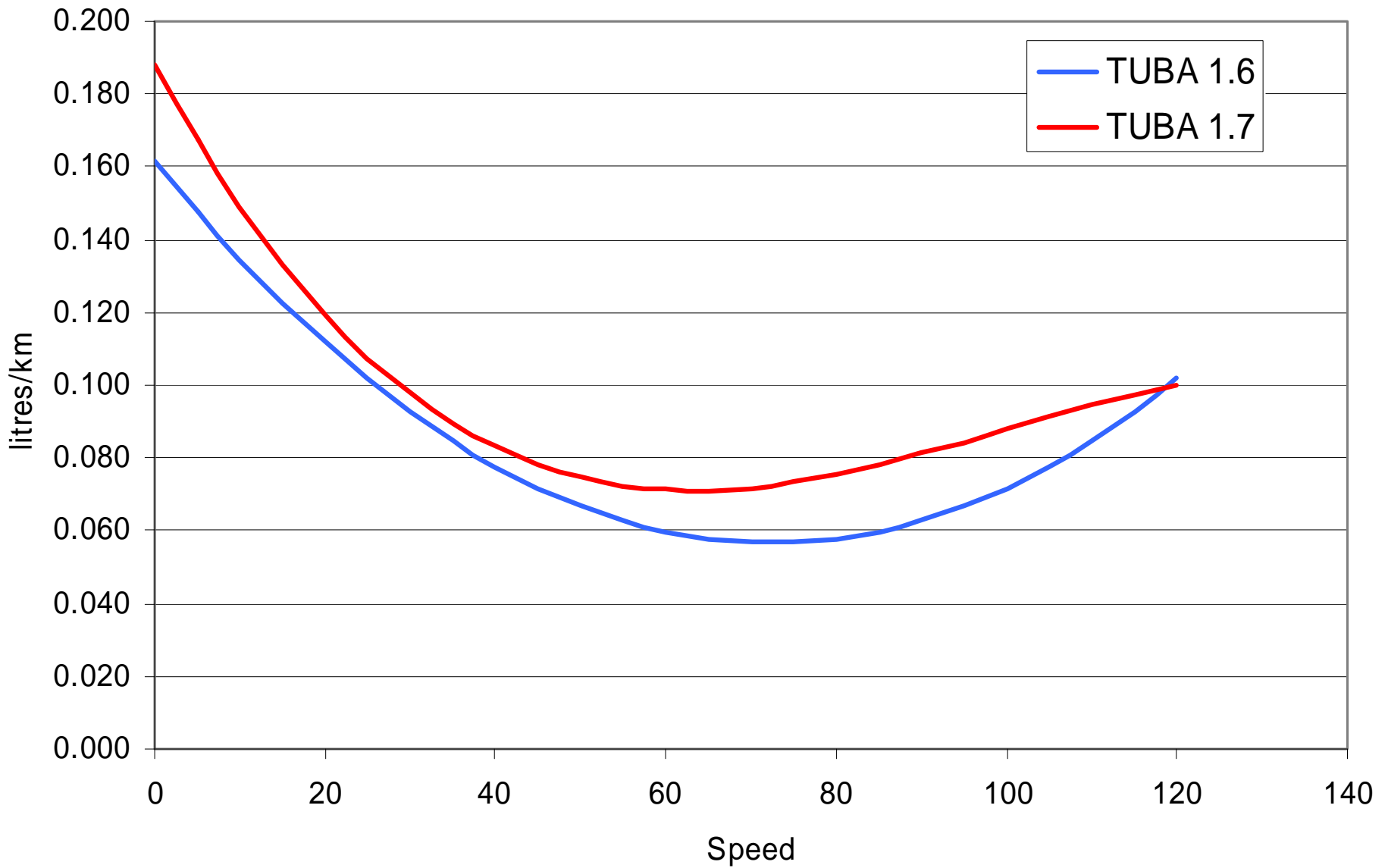
- <C:\TUBAdemo\EXAMPLE1.html>

Improved performance

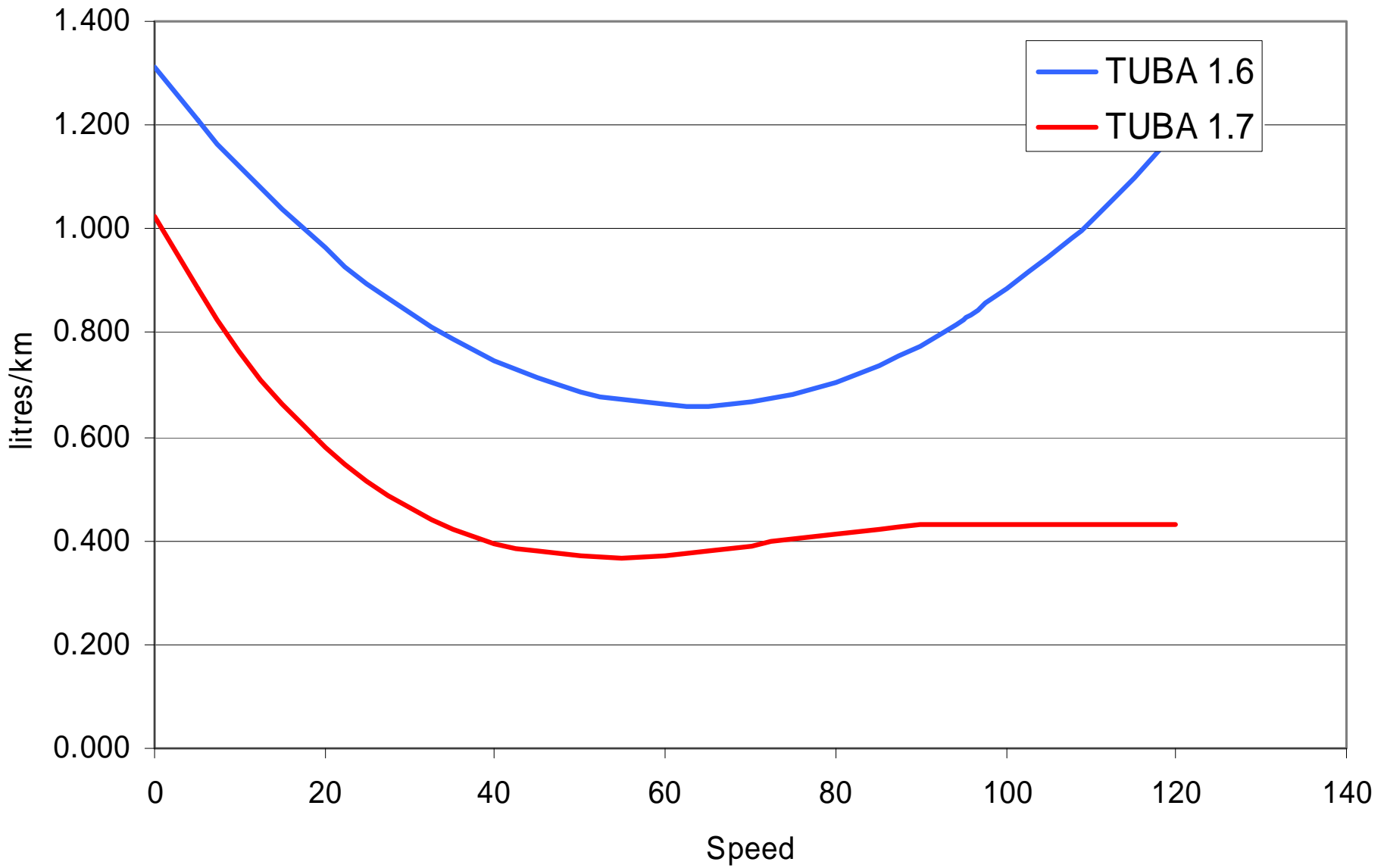
- Reduced memory requirements by up to 40%
- New default sectoring system
- Significantly reduced run times for large data sets

Changes to fuel consumption

- Cubic formula instead of quadratic
- Speed cut-off implemented
 - Prevents spurious results from high speed HGVs!

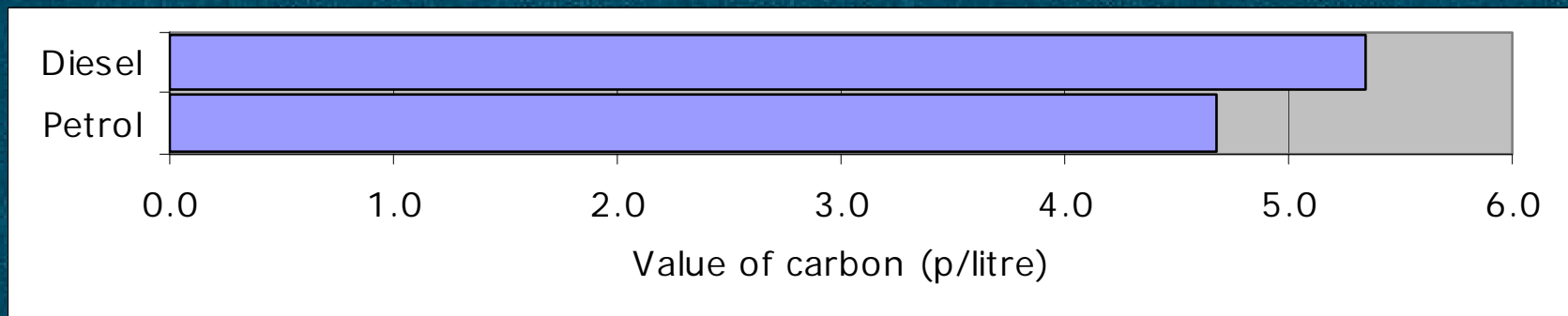


Petrol car



Carbon emissions

- Based on fuel consumption
 - fixed amount per litre fuel
- Central value £74.52/tonne carbon
 - (2002 prices/value from DEFRA)
- ... but will change soon
- 2002 value of carbon emissions per litre of fuel:



Relative price factor

- RIP RPF
- New guidance in WebTAG 3.5.9
- Explicit consideration of increases in construction costs required
- Covered in more depth later



Website

- www.tuba.org.uk
- News, documentation, updates

TUBA

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Home

Welcome to the TUBA website.

TUBA is transport economic appraisal software developed by [Mott MacDonald](#) on behalf of the [Department for Transport](#). It stands for Transport User Benefit Appraisal.

The purpose of TUBA is to carry out transport scheme economic appraisal in accordance with the DfT's published guidance in Units 3.5 of the [WebTAG guidance](#). It implements a 'willingness to pay' approach to economic appraisal for multi-modal schemes with fixed or variable demand.

TUBA is used by practically all transport consultants in the UK and a number of others abroad.

For more information about the technical details behind TUBA please download the [TUBA manuals](#) or [contact us](#) if you have a specific question.

The current version of TUBA is 1.7a.

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