Understanding, Defining A & Measuring Scope 3 Travel Emissions

John Pinkard

Associate Director JMP Consultants Ltd





Agenda



Presentation
Q&A
Workshop





To provide guidance on measuring scope 3 travel emissions from higher education institutions in England (JMP)

Other elements to the project include procurement (supply chain) and estates (water and waste) scope 3 emissions (ARUP/De Montfort University)



Produce definitions for measuring scope 3 travel emissions at institutional level for use within the estates management statistics from 2012/13

Provide guidance that helps higher education institutions to adopt efficient and effective travel data collection practices



Background & wider context CO2 CH_4 HFCs PFCs SF₆ N₂O SCOPE 2 SCOPE 1 INDIRECT DIRECT PURCHASED ELECTRICITY. STEAM, HEATING & COOLING FOR OWN USE 11 PURCHASED SCOPE 3 COMPANY SCOPE 3 GOODS & INDIRECT FACILITIES INDIRECT SERVICES INVESTMENTS -FRANCHISES CAPITAL TRANSPORTATION GOODS & DISTRIBUTION LEASED ff. ASSETS _mI FUEL & ENERGY LEASED COMPANY RELATED ASSETS VEHICLES EMPLOYEE PROCESSING 8 Ŵ ACTIVITIES COMMUTING OF SOLD PRODUCTS TRANSPORTATION BUSINESS END-OF-LIFE & DISTRIBUTION USE OF SOLD WASTE GENERATED TRAVEL TREATMENT OF PRODUCTS IN OPERATIONS SOLD PRODUCTS REPORTING **UPSTREAM ACTIVITIES** DOWNSTREAM ACTIVITIES COMPANY

Background & wider context

World Resources Institute - Greenhouse Gas Protocol: A Corporate Accounting and Reporting Standard, Revised Edition 2004

DEFRAI DECC - Guidance on how to measure and report your greenhouse gas emissions

ISO 14064:2006 – Greenhouse gases

The Carbon Trust – The Carbon Standard Rules

SPECIFIC GUIDANCE

Logistics Carbon Reduction Scheme (LCRS) developed by the DfT and the Freight Industry

> Defra: Guidance to local authorities and Government Offices on National Indicator 185

BESPOKE GUIDANCE:

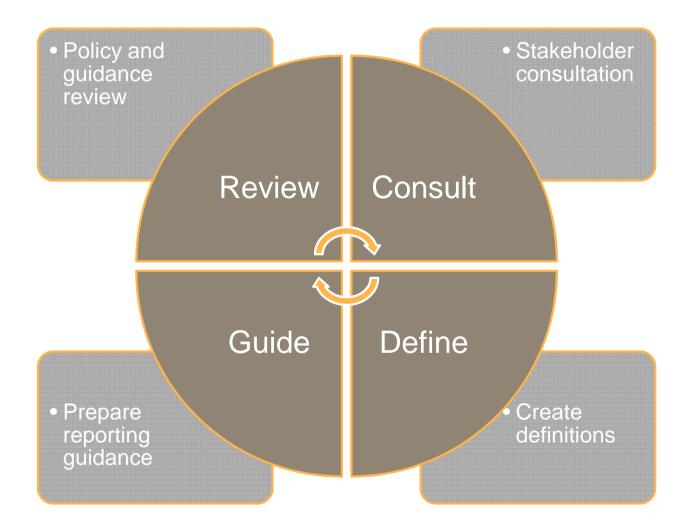
DfT / DEFRA / JMP: Measuring and Reporting Greenhouse Gas Emissions – A Department for Transport Guide to Work-Related Travel

SPECIFIC GUIDANCE

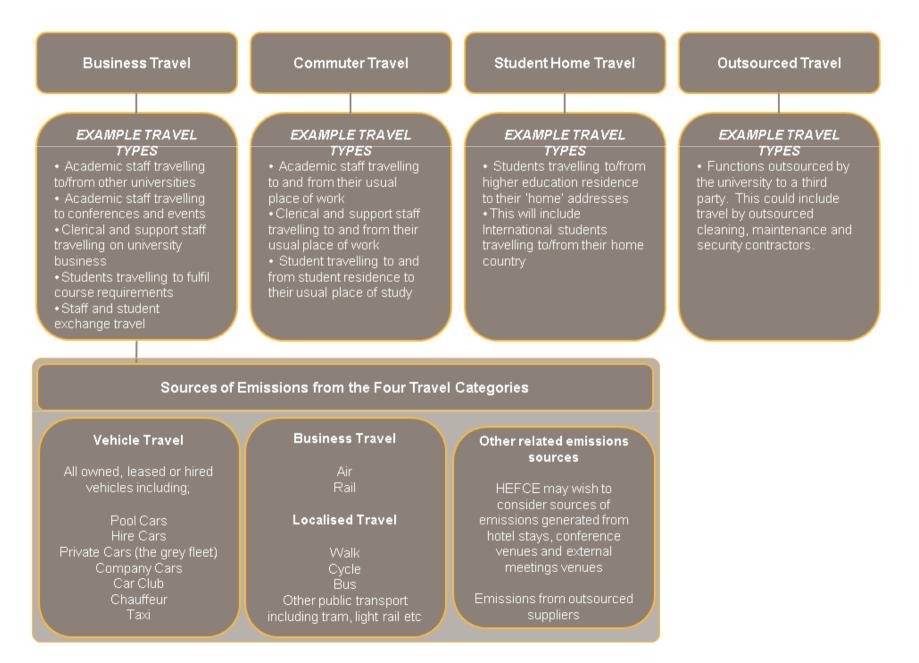
HECFE Guidance

Scope of the project





Travel emissions – sources



Travel emissions – key issues & challenges



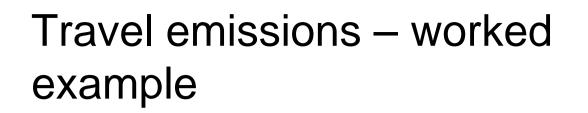
- Setting the boundary (agreeing the definitions)
- ↗ Sourcing the right data
- ↗ Applying the right metrics
- ↗ Double counting



Travel emissions – key issues & challenges

Do you know...

- ↗ how much you spend on travel?
- ↗ the breakdown by mode?
- ↗ total travel distance by mode?
- ↗ how much fuel you consume?
- オ the breakdown by fuel type?



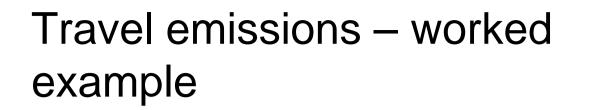


Department A spends £100,000 per annum on mileage claims

This equates to 250,000 miles per year

... or 37,500 litres of petrol







250,000 miles x 0.33910 (average petrol car) = $84,775 \text{ kg CO}_2$

37,500 litres x 2.3018 (petrol) = 86,318 kg CO₂







Scope 3 travel emissions

- Definitions for commuter, business and student travel
- **7** Guidance document



Q&A



Any questions?







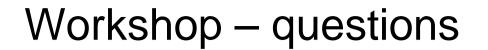
When?

What?

Where

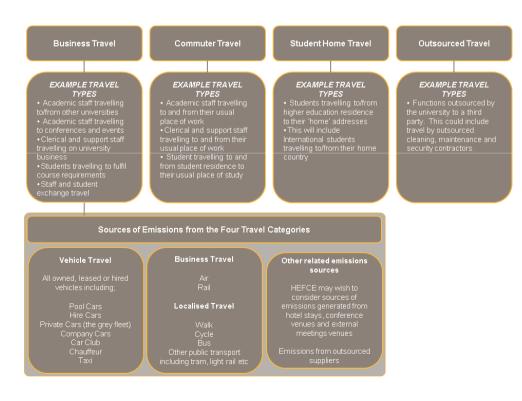
Split into 4 groups Nominate a scribe and speaker Discuss each question for 5-10 minutes Record key findings (top 5 points?)

Feed back your findings





1. How **relevant** are these categories / subcategories to the HE Sector?

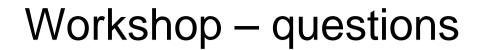


Workshop – questions



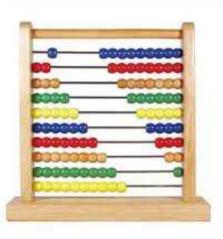
2. How easily can a **complete** and **accurate** data-set be generated?







3. What travel data do you currently collect?







Feedback please!



Contact Details

JMP has been commissioned to provide guidance on measuring **scope 3 travel emissions** from higher education institutions in England. For further details please contact:

John Pinkard Associate Director

JMP Consultants Ltd 85-89 Colmore Row, Birmingham, B3 2BB

- [M] 0776 542 6639
- [E] john.pinkard@jmp.co.uk
- [F] 0121 230 6011

[W] <u>http://www.jmp.co.uk</u>

Contact Details



A partnership of ARUP/De Montfort University will deliver other elements to the project, which include procurement (supply chain) and estates (water and waste) scope 3 emissions. For further details please contact:

Paul Brockway

[E]

Arup Central Square Forth Street, Newcastle upon Tyne, NE1 3PL

- [T] 0191 261 6080
 - paul.brockway@arup.com
- [F] 0191 261 7879

[W] <u>www.arup.com</u>