



LEARNING AND LEGACY THE ROLE OF EDUCATION IN CREATING HEALTHIER, HAPPIER CITIES EAUC 20th Annual Conference 25th - 26th May 2016

Travel Plans: the next generation. Is carbon the final frontier?







Session format Star date 69784.7





- De Montfort University (DMU) Travel Plan
- Reporting scope 3 emissions at DMU
- Modal shift vs Carbon emissions
- Kobayashi Maru



De Montfort University today Star date 69784.7





- Main city centre campus
- @ 18,000 students
- @ 2,800 staff
- <900 parking spaces (mostly staff only)



These are the voyages of the University De Montfort. Its 15-year mission:



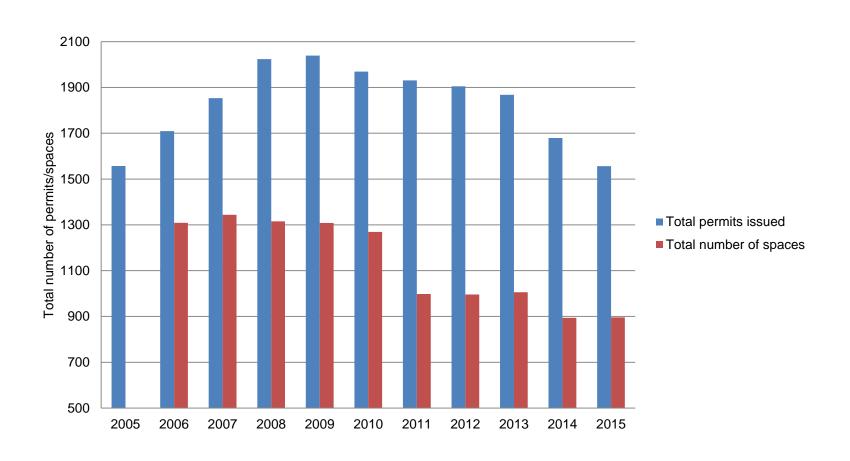


- •To act to avoid unnecessary journeys, encouraging the use wherever practical of teleconferencing
- •Where journeys are necessary, to promote the use of the most sustainable form of transport practical, supporting walking, cycling and the use of public transport and shuttle buses (where available) for transport between sites
- •Where cars are the most practical form of transport available for a particular journey, to seek to use them as efficiently as possible, by encouraging multiple occupancy of vehicles and avoiding duplication of journeys
- •Where vehicles are hired, leased or purchased by the university, to favour the use of small, efficient, low-emission engines, including where possible electric vehicles

Car park spaces versus permits







"Boldly going where few universities had been before"





- First Green Travel Plan introduced 2003/4
- Phase 2 launched 2008
- Phase 3 launched 2014
- Annual reports to City Council
- Spring Travel Survey
- GTPG meets termly
- Policies continually introduced
- Funding provided by car park charges

"Logical Choices"





- Cash incentives
- Subsidised public transport
- Information
- Car share schemes
- Salary sacrifice schemes
- Interest-free loans
- Parking permits
- Reduced parking spaces
- Flexible working
- Video conferencing

"Star Trek Solutions"





- New bus routes
- Cycle shelters
- Showers
- Traffic calming measures
- 20 mph speed limits
- Cycle lanes
- Pedestrian crossings
- Improved lighting
- Pedestrianisation





"Everyone remember where we parked?"





- Pay for permits
- Exemptions exist:
- Disabled permits
- Pay and Display permits
- '3 for free' car shares
- Permits are a 'permit-to-hunt'
- Exclusion zone
- Some permits are building specific
- Incorrect permit = Parking Charge Notice



"Three to beam up"





- Subscribe to <u>www.choosehowyoumove.com</u>
- Offer an emergency ride home service
- Offer '3 for free' permits
- Provide a separate, superior car parking area



"Energise"





- Seven staff/student cycle lock-ups
- Showers and changing
- Free reflective items
- Cycle lights and locks
- Student cycle stands & lockers
- Police security marking
- Covered cycle and motorcycle stands
- Free puncture repair kits
- BuG
- Dr Bike





"Ahead at walk speed"





- 10,000 steps/day
- Pedestrian maps
- Campus walks
- Park & Stride
- Walk2Work week
- Umbrella pool
- Campus improvements & pedestrianisation

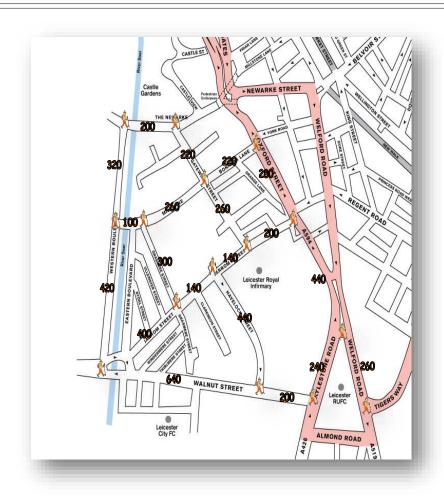




"Ahead at walk speed"





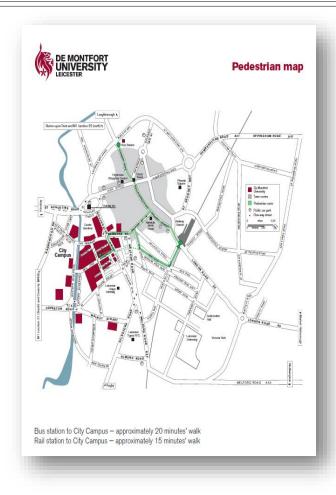


"Ahead at walk speed"



Operations





"Transport needs of the many outweighs the transport needs of the few"





- Park & Ride
- Hospital Hopper bus service
- Discounts
- Rail card discounts

"Damn it Jim, I'm a doctor not a salesperson"





- Website
- Fresher's Fair
- Media articles
- Green Impact
- Notice boards
- Welcome Events
- Web pages
- Staff 'challenges'
- Social Media



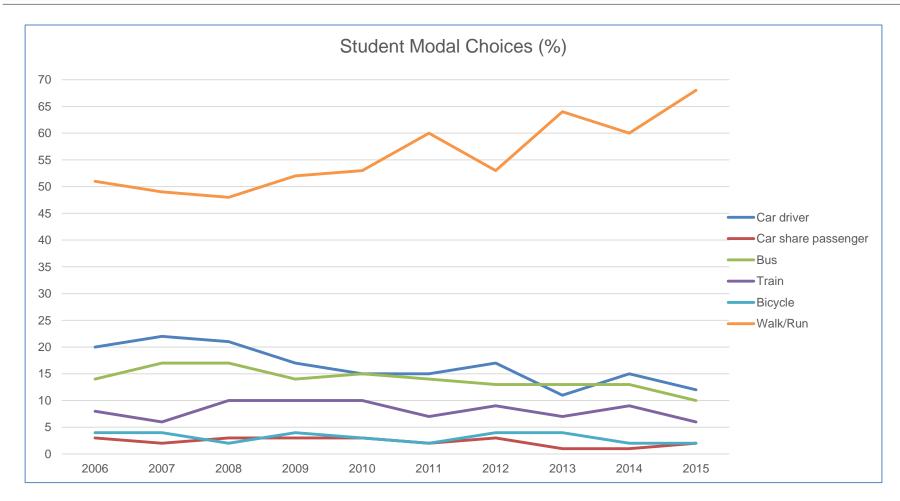
If only 10% of people know about your policies, then 90% of people will never follow them.

"What do you say Mr Data?"





Estates and Operations

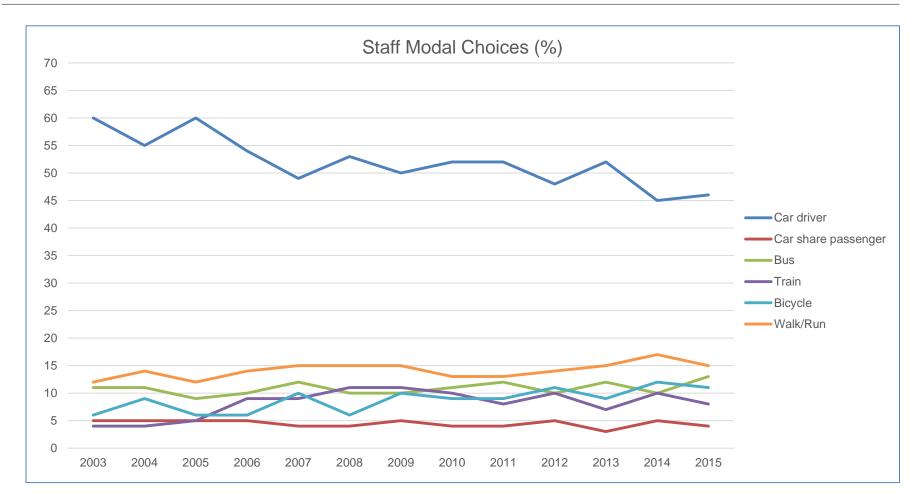


"What do you say Mr Data?"





Estates and Operations

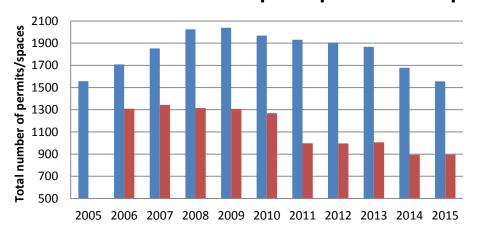


Where to next?





Car park spaces versus permits



Total permits issuedTotal number of spaces

Should this continue to be our focus – "Set spaces to none"?



"No challenge is too great if you plan ahead."

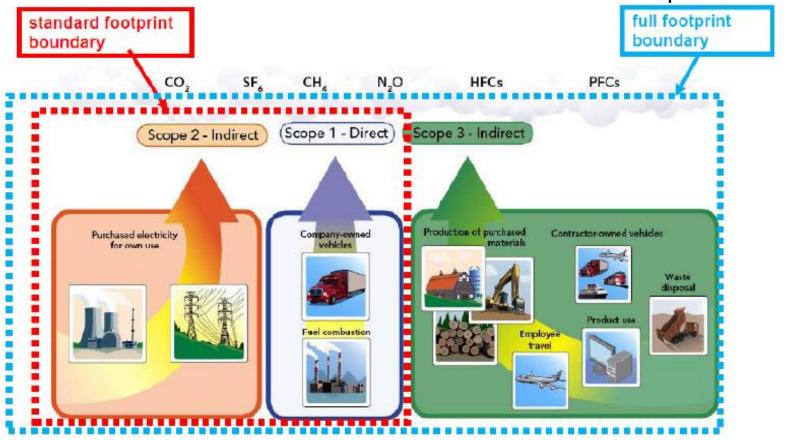




The Greenhouse Gas (GHG) Protocol defines 3 levels of carbon emissions for corporations: Scope 1-2-3

Scope 1-2 emissions are usually measured by organisations in their carbon footprinting

But the actual footprint includes Scope 1-2-3 emissions

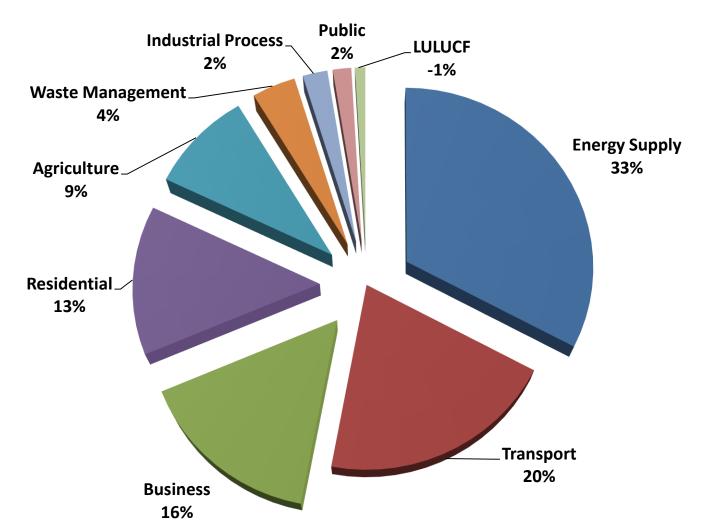


"Let's see what's out there"



Operations





UK Greenhouse Gas Emissions 2013 - DECC

"To destroy your home planet's ecosystem for imaginary wealth is highly illogical"

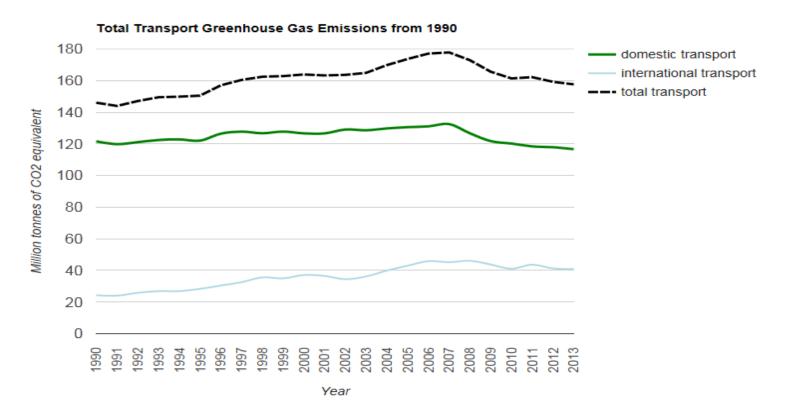


Estates and

Operations

Total Transport Greenhouse Gas Emissions from 1990

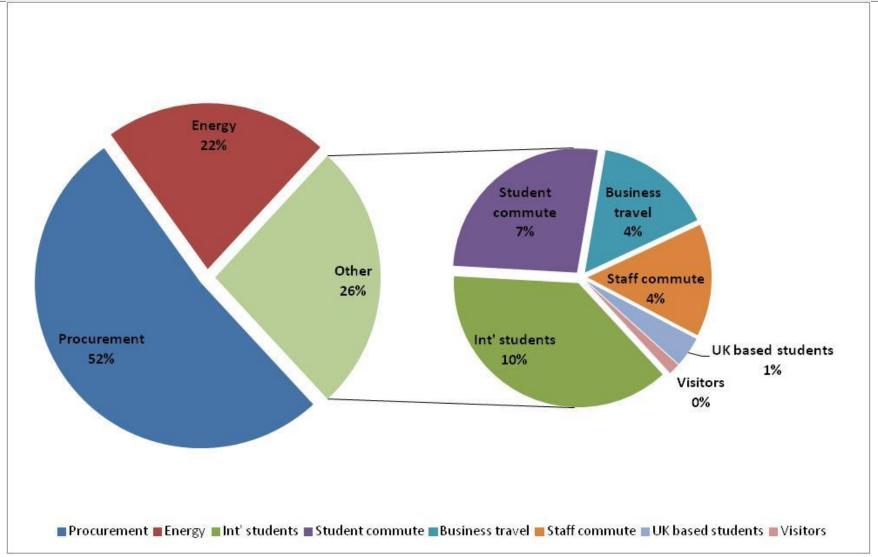
View business plan indicator: Total greenhouse gas emissions from transport



DMU Greenhouse Gas Emissions 2014/15





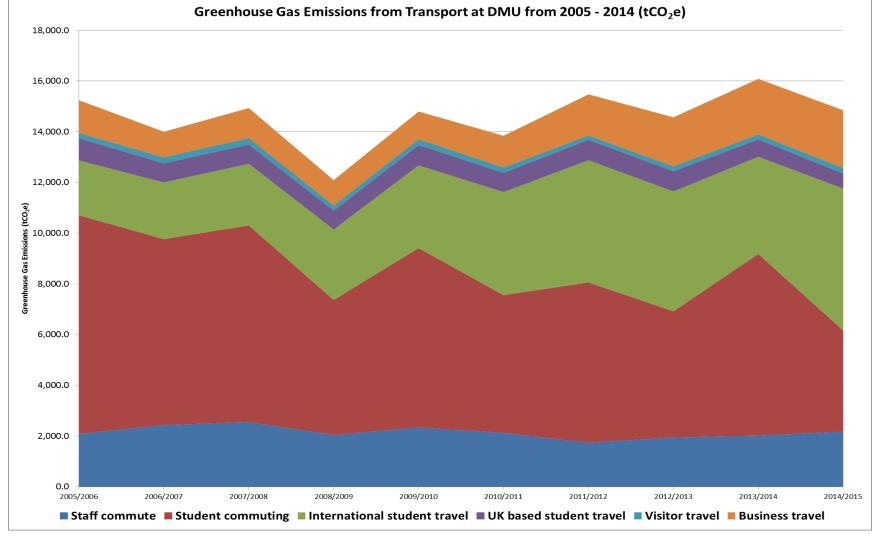


GHG Emissions at DMU.









Data sources for travel emissions calculations





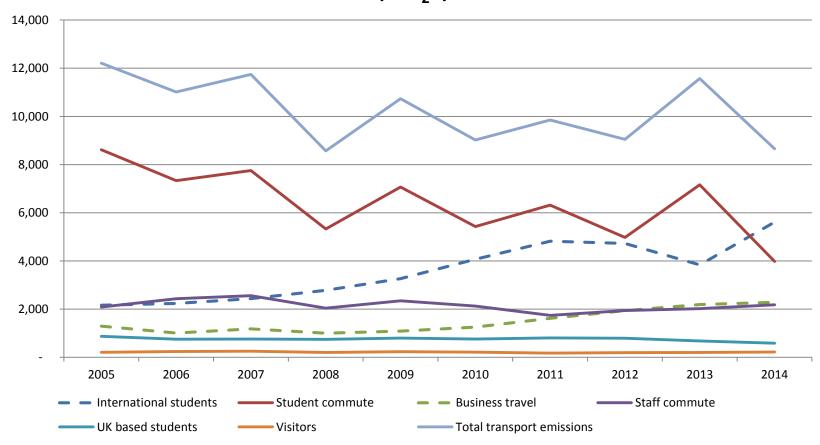
- Annual staff and student travel survey commuting
- Procurement activity business travel
- Student origins international & UK students
- Visitors % of business travel

"Change is the essential process of all existence."





Greenhouse Gas Emissions from Transport Sources at DMU (tCO₂e)



Carbon v Modal shift





Carbon

- Scope 3 emissions are 'hidden' emissions
- Represent a large slice of the carbon footprint
- Electric vehicles

Modal shift

- Wellbeing and health of staff
- Staff attendance
- Congestion around campus

Kobayashi Maru - 'I don't believe in No-Win scenario'





Group exercise

- Travel planning can often feel like a No-Win scenario
 - Pressure from staff for more cheaper spaces
 - Pressure to reduce spaces v pressure to reduce emissions
 - Pressure from regulators and planning authorities
 - Pressure on resources
- What feels like your Kobayashi Maru?
- •What have you tried?
- •What were the barriers and how did you overcome them?
- One barrier and one solution
- Feedback to main group

Contact details





- •Karl Letten, Environmental & Sustainability Officer, De Montfort University
 - e: kletten@dmu.ac.uk
 - w: www.dmu.ac.uk/sustainability
 - t: 0116 207 8746
- •Ian Murdey, Project Manager, Go Travel Solutions
 - e: <u>ian.murdey@go-travel-solutions.com</u>
 - w: www.go-travel-solutions.com
 - t: 0116 216 8326