

CSS RESEARCH FUND

Project No:	Project Title	Description
1	Molasses Monitoring - Project Complete	A database containing detailed information on the effectiveness of safety engineering schemes implemented by Local Authorities within the UK.
2	Surface Characteristics & Safety of on Wet Roads -	Study carried out to review and update knowledge on how different road characteristics, especially wet surfaces affect safety on roads.
3	Skid Resistance of Surfacing Materials - Project ongoing	A test protocol developed for study of early life skidding resistance in both dry and wet conditions.
4 & 50	Developer Contributions - Project complete	A comprehensive inventory of techniques that has been used to determine and secure Section 106 contributions over the last 5 years.
5	SMART (Linear Quarry - Phase 2) - Project complete	Research conducted to promote the responsible and efficient use of Innovative Cold Recycling materials in the highway maintenance industry.
6	Highways Authorities Product Approval Scheme - Project complete	Guidelines have dramatically increased the quality and range of High Friction Surfacing on the market and given a high degree of customer confidence in Thin Surfacing, which has aided implementation
7	Traffic calming in Practice - Project complete	This is a previous CSS guide which has been updated to take account of more recent findings.
8	IHT Guidelines on Parking Strategies - Project complete	New Best Practice Guideline developed, detailing Parking Strategies and Management.
9	Streets for People Publication - Project complete	The Working Party created a Vision of the role and characteristics of the street in 2025 and identified a number of specific steps recommended to achieve this vision, which are now live in a review publication. Joint funding project with ICE and UDAL.
10 34 35 47 58 & 63	Annual Survey into Public Perceptions of Transport Infrastructure - Project ongoing	Telephone survey used to research public opinions on traffic calming, bus lanes, cycle facilities and other relevant topics, which will assist member authorities in identifying priorities and funding needs
11	National Waste Awareness Initiative - Project complete	Identified and developed a uniform system of nationwide research parameters to monitor and evaluate waste awareness initiatives. Jointly funded with BIFFAWARD.
12	Puffin Good Practice Guide - Project complete	A guide to assist local authorities in how to correctly install and design a puffin crossing, to ensure the benefits are maximised for pedestrians and drivers.
13	Skills Shortage to Deliver Transport Plans - Project complete	A self completion questionnaire designed and posted to each County, Unitary and Metropolitan District Council in England, in order to obtain a benchmark opinion regarding the process of implementing Local Transport Plans.
17	Guidance on the Procurement of Transport Projects -	Published report outlining and referencing best practice in the procurement of transport projects.
18 & 27 & 61	Long Term Performance of Reinstatements (Phase 1 & 2) - Project complete (Phase 3) - ongoing	Research to determine the long-term effects of trenching and reinstatement works on the life of carriageways and footpaths. Research gained from stage 1 and 2 to be published in stage 3. Phase 2 also developed a condition indicator and a charging structure to recover the cost of the premature maintenance incurred. Stage 3 will disseminate the results of work widely to ensure that appropriate proposals are included without delay in the Regulations being drafted as part of the implementation of the Traffic Management Act
19	SCIP workshops on secondary & recycled aggregates - Project complete	The objective was providing a sustainable construction roadshow attracting 500 registered delegates. Jointly funded by Dti and other industrial partners.
20	Council Economic Development Activity - Project complete	Research carried out to measure the performance of Council Economic Services, with the results being used to help develop an easier and more cost effective method for Councils' to use when monitoring this in the future. Benchmarking ongoing.
21	Sustainable Construction Roadshow - Project complete	Roadshows organised to deliver practical and understandable information on sustainable construction to small to medium sized companies, covering issues such as waste minimisation, recycling, use of alternative materials and environmental management in recent years.
22	New Guidelines for mini-roundabout design - Project complete	Assessments of mini-roundabouts, covering a wide range of conditions in the UK, in order for new design standards and best practice to be included in a guide.
23	Benchmarking & Performance Indicators - Project complete	Report identifying national benchmarking scheme to be endorsed by CSS and stating committee's view on initiating a project to establish modules of recommended performance indicators for each service covered by CSS. Results used in a national benchmarking scheme.
24	Research into sub-regional planning arrangements -	Research on the identification of sub-regional areas, successful and less successful partnership arrangements and the addressing of cross boundary problems.
25	Surface Dressing and Slurry Surfacing (contribution) -	Support for HA Group standardising Surface Dressing and Slurry Surfacing in Europe.
26	The NumeLiTe Project - Project complete	The key objective was to formally prove the feasibility of an optimal and energy efficient city lighting scheme. Final report published in June 2005.
28	Planning Reform Research - Project complete	Research and analysis relating to the Government's proposals to reform the planning system as initiated in the Green Paper on Planning.
29	Peer Support Initiative - Project complete	Opportunities identified for CSS involvement in peer review to tackle poor performance arising from the outcome of CPA assessments and best value reviews.
31 44 51	Framework for Highway Asset Management Plans -	An Outline Guide for a Highway Network Asset Management Plan for Local Authorities in the United Kingdom to use.
32	Failures in Thin Surfacing SM2 - Project ongoing	Guideline document produced entitled "Failures in Thin Surfacing"
36	Local Transport Plan Network - Project complete	A free accessible website designed to create a national framework within which LTP authorities and in particular LTP writing officers could network, benchmark, disseminate good practice and collectively influence local government thinking
37	Sport & Regeneration - Project complete	Report evaluating the planning for the provision of sport in England at the regional level and how regeneration is affected

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39	Public Utility Reinstatement Coring Project complete	- A survey of all English Highway Authorities conducted to see how many have reinstatement coring programmes and how successful these have been.
40	Lighting Columns: Review of Risk Assessment Data -	A document outlining a method for assessing the structural condition of lighting to enable local authorities to more effectively manage their lighting stock
41	Code of Practice on Skid Resistance for LA Roads -	Code of practice produced providing guidance on achieving and maintaining adequate Skid Resistance on local roads.
42	Assessment of Dry Stone Retaining Walls - Project ongoing	A Best Practice Guide for the assessment of dry stone walls, produced for local authorities to refer to.
45	IHIE Motorcycling Design Guidelines - Project complete	Publication (including saleable cd rom), providing practical guidance for public sector and private sector engineers on how to provide safer environment for motorcycles.
46	Landfill Allowance Trading Scheme Market Intelligence -	A robust database created to enable proper (risk) management of the Landfill Allowance Trading Scheme.
48	Performance Indicators Project Phase 1,2 & 3 - Project ongoing	Research to be carried out with regard to developing performance indicators for economic development, in order to contribute towards a study being undertaken by the Audit Commission.
49	Performance Benchmarking - Transitional Project - Project complete	Information included on the CEDOS website, describing best practice in economic development and regeneration, as a means of improving service performance in local authorities.
52	Road Lighting - Production of National Term Maintenance -	Contract terms and conditions developed for street lighting maintenance works including installations.
53	Negative Textured Surfaces and Horses - Project ongoing	Guidance note . The work contributed to a much larger DfT project which is now published under the title "Guidelines for Thin Surfacing"
55	CSS Communications Strategy Project - Project ongoing	Project improving communication in many different areas between CSS and its members, partners and stakeholders
56	It's Good to Travel (Transport Futures) - Project ongoing	Investigate the potential of technological developments, investment in transport, fiscal and behavioural measures in 2030 and recommend a strategy for CSS and recommend a strategy for CSS and other decision-makers. Report to be produced for website.
59	Using Food Waste Disposers to Divert Putrescible Kitchen Waste from Landfill - Project ongoing	Research to determine potential impact and scope for food waste disposers in dealing with putrescible kitchen waste, with the results being expressed in a website, seminar and report
60	The Case for England's County Regions - Project ongoing	Report to be published to enhance awareness and understanding of the importance of county regions and their diversity, to sustainable economic development in this country.
62	Route Safety Research Project ongoing	To assess the impact of existing route safety work in the UK in terms of speed and casualty reduction, and to produce national guidance on methods and good practice for developing future schemes
64	Future Models for Delivery of Sub-regional Economic Development - Project ongoing	Report to identify and analyse key developments in central government policy making likely to have a major impact on the delivery of local economic development and regeneration activities.
65	Climate change adaptation Best Practice for professions and services falling within the remit of CSS -	Report on climate change adaptation best practice for CSS remit services and professions and seminar to be arranged to disseminate project findings.
66	Review of Assessment Methods for Masonry Arch Highway Bridges - Project ongoing	Report on additional guidance to be used in assessment of masonry arch highway bridges on local roads for website and from CSS Publication office
67	Pavement Design Method for Local Roads - Project ongoing	To develop a framework for the economic design of pavements for local roads and provide a design method which can be applied for the routine design of pavements for main distributor roads and lower categories only. The outcome will be published on the CSS website and presented at a seminar.
68	Development of a Protocol for Excavated Materials containing Tar - Project ongoing	Report to establish allowable uses of excavated highway materials containing tar with an emphasis on re-use rather than disposal to support the CSS aim of sustainability.
69	The Use of Passive Safety Lighting Columns - Project ongoing	A document publishing research to provide local authorities with current and relevant information on which to determine the use of passive safety traffic sign posts and lighting columns in different locations on all local authority road types.
70	Required Strength of a pavement to receive a Negatively Textured Surfacing - Project ongoing	Evaluate the effectiveness of NTS for local authority roads giving guidance to ensuring reasonable durability in a scientific way based on measurements for publication on CSS website
71	Guidance on the Financial Returns from the "Spend to Save" Initiative - Project ongoing	To strengthen the document "Spend to Save" published in 2006 by the provision of some costed examples of the proposals by preparing a technical paper for recommendation at a national seminar and publication of a final document.
72	Review of the Class & Quality of Street Lighting Provided on Traffic Routes and in Residential Streets - Project ongoing	Research and prepare a technical paper with current and relevant information on which to determine the level of illumination required for specific road type to help reduce energy consumption
73	Review of Luminaire Maintenance Factors	Research to determine accurate maintenance factors for the maintenance of road lighting systems to minimise over provision of lighting, reducing capital, energy and maintenance cost
75	Designing Waste Facilities into New Housing and Commercial Developments – A National Waste Management Design Guide	Production of design guide for builders and developers, to propose minimum standards for waste materials storage and collection access in new developments, and set out the need for waste infrastructure generated by new housing.
76	Traffic System Group Survey of local	Establish the installed base of traffic signal and associated ITS systems in the UK. Predict future

	authorities' traffic signal inventory	demand for traffic systems, to stimulate innovation and development by equipment suppliers.
77	Update/Review of Road Safety Audit Guidance	Review current Road Safety Audit practice to ensure compatibility with DfT <i>Manual for Streets</i> (March 2007) and compliance with best practice; (joint project with IHT & DfT).
78	Effect of elevated temperatures combined with high rainfall on evolved pavements	Evaluate climate change impacts on the evolved road network, consisting mainly of Class C & Unclassified roads. To produce a guide for engineers on design and remedial techniques, and management decision strategies.
79	Potholes and repair techniques for local highways	To improve understanding of the scale, process and risk of pothole formation, and evaluate repair techniques and materials, in order to identify best practice.
80	Review of bridge inspection competence and training	There is no single standard for bridge inspection techniques throughout the UK, and the project will aim to propose a consistent approach to inspection data, to promote sound asset management.
81	Review & Standardization of Lighting Column Design	Project will develop an updated generic lighting column specification for contract use, and help to control costs by reducing the number of variables needing to be considered by manufacturers.
82	Street Lighting – carbon footprint	To examine the impact of Street Lighting on a local authority's carbon footprint, assessed against beneficial aspects, eg in relation to accidents and crime. Development of Carbon Calculator will allow evaluation of different lighting methods & products, to support strategic decision-making.
83	Correlation of Griptest and SCRIM	To provide a correlation factor between the two measures, and hence allow comparison and consistency in the assessment of surface skidding resistance.
84	Design and Maintenance Regimes for Sustainable Drainage Systems (SUDS)	To provide design guidance for local authorities and acceptance criteria (under eg s.38 agreements) for developers. To consider long-term effectiveness of SUDS and future maintenance implications.
85	Performance Specification for Sub bases and reinstatements	To investigate existing techniques and instruments for measuring compaction, with a view to critically evaluating alternatives to the HAUC specification, and live-testing methods in the field. The intention would be to propose a performance specification for national use.
86	Creation of National Highway Inspector's Qualification	To develop a better training qualification and establishment of a career path, to help address skills shortage and increased exposure to litigation faced by local authorities.
87	Taking forward Economic Regeneration and Place-shaping in times of Recession	To study the impact of the 2008-09 recession on policy-making for national/ regional economic development and place-shaping, in order to influence government.
88	Contribution to the production of the 'Manual for High Streets'	Support development of design guidance for major streets, recognising that there is little technical guidance to assist professionals in this area (joint project with IHT, DfT & CABE).
90	Pitt Response and Resources (Flood-risk Management)	Part 1: review of Government proposals for implementing Pitt recommendations, & implications for County Councils Part 2: identification of options; skills & resources needed to deliver Pitt.
91	Investigation of PV ² Criteria - Pedestrian Crossings	To review alternative justification criteria for pedestrian crossings and produce guidance.
92	Skills & Recruitment	To address issues about attracting sufficient skills into the engineering profession.
93	Housing Growth & Infrastructure	Deliverability of housing and infrastructure assumptions in regional spatial strategies in the current economic crisis.
94	Road Traffic Accidents on waterside roads: a study of trends, causes and preventative measures	To analyse common characteristics of accidents in which vehicles enter water, and evaluate engineering, educational and enforcement responses; would include benchmarking with experience of UK and foreign waterside roads.
95	Behavioural Evaluation of Route Safety Interventions (Stage 1)	Initial investigation of measurable road-user behaviours, which can be identified as directly relevant to the impact of route safety schemes.