

Sustainability Appraisal Framework 14.9.06 (in line with amended RSDF)

RSDF Objective	Appraisal Questions: Will the option/proposal...	Indicators	Targets
1. Sustainable Consumption and Production			
1.1 Use natural resources such as water and minerals efficiently, including by incorporating efficiency measures into new land use and developments, redevelopment and refurbishment	use natural resources such as water and minerals efficiently, including by incorporating efficiency measures into new land use and developments, redevelopment and refurbishment?		
	promote the balance of water supply and demand?		
	reduce the use of primary aggregates?		
1.2 Promote and support the development of new high value and low impact technologies, especially resource-efficient technologies and environmental technology initiatives	promote and support the development of high value and low impact new technologies, especially resource-efficient technologies and environmental technology initiatives?		
	promote the development of technologies to address climate change, eg new energy generators using renewable sources, more efficient industrial technology and processes to minimise or mitigate for the impacts of climate change?		
	secure improvements to communication infrastructure?	Accessibility to broadband – % of households and businesses with access to broadband	All businesses and 97% of households with access to broadband
1.3 Promote and ensure high standards of sustainable resource efficient design, construction and maintenance of buildings, both new build and existing stock, where possible exceeding the requirements of the Building Regulations	promote and ensure high standards of sustainable resource-efficient design, construction and maintenance of buildings, where possible exceeding the requirements of the Building Regulations?		
	ensure the adoption of sustainable design and construction practices in all buildings?	Numbers of buildings built with BREEAM 'very good' or 'excellent' ratings	

RSDF Objective	Appraisal Questions: Will the option/proposal...	Indicators	Targets
1.4 Increase use of public transport, cycling and walking as a proportion of total travel in order to reduce road traffic congestion, pollution and accidents, and improve health through increased physical activity	increase use of public transport, cycling and walking as a proportion of total travel in order to reduce road traffic congestion, pollution and accidents, and improve health through increased physical activity?	Walking and cycling as a percentage of all trips (UKSD) Public transport as a percentage of all trips (UKSD) Children who walk or cycle to school (UKSD) Percentage of resident population that travels to work a) by private motor vehicle; b) by public transport; c) on foot or by cycle (LQOL 42)	10% growth in bus patronage by 2010 50% growth in rail passengers 2000-2015
	promote more sustainable transport patterns in areas suffering from congestion?	Congestion/journey times – mean travel time to work (minutes). Congestion/journey times – % of average trunk road speed achieved at a.m. peak.	
	promote a shift of freight from road to rail?	Tonnes of freight transported by rail and road per annum	Increase rail share of market by 10% by 2010
	Improve the quality of transport infrastructure?		
	make best use of existing airport capacity?		
1.5 Ensure development is primarily focused in the major urban areas, and makes efficient use of existing physical infrastructure and reduces need to travel, especially by private car	ensure development is primarily focused in the major urban areas, makes efficient use of existing physical infrastructure and helps reduce need to travel, especially by private car?		
	focus development in the major urban areas?		
	reduce the number and length of journeys made by car?	Number/length of car journeys	
	reduce the need to travel?		
	promote alternative, more sustainable, modes of transport to the car (including walking and cycling) through location of housing, employment sites, services and facilities, and appropriate infrastructure for sustainable modes of transport?	Public transport usage Walking and cycling trips per person	

RSDF Objective	Appraisal Questions: Will the option/proposal...	Indicators	Targets
1.6 Encourage and enable waste minimisation, reuse, recycling and recovery to divert resources away from the waste stream, including the use of recycled materials where possible	encourage and enable waste minimisation, reuse, recycling and recovery to divert resources away from the waste stream?		
	reduce waste arisings?	Total waste arisings	
	ensure that sustainable waste management can be carried out in the Region?	Amount of waste being generated, recycled, recovered, going to landfill etc	Recycle 30% of domestic waste by 2010
	enable communities to take responsibility for their own waste and meet their own needs (self-sufficiency)?		
1.7 Encourage local sourcing of food, goods and materials	encourage local sourcing of food, goods and materials?		
1.8 Reward efficient resource use and encourage development of alternative and renewable resources in order to reduce dependence on fossil fuels	reward efficient resource use and encouraging development of alternative and renewable resources in order to reduce dependence on fossil fuels?	Ecological footprint	
	See questions under Objectives 1.1, 1.2, 1.3, 1.4, 1.5, 1.6, 1.7, 1.9, 2.1, 2.2, 2.3, 3.4 and 4.5		
1.9 Encourage corporate social and environmental responsibility, with regional organisations and agencies leading by example	encourage corporate social and environmental responsibility, with regional organisations and agencies leading by example?	Number of companies with ISO14001 registration	
	encourage sustainable procurement?		
1.10 Encourage and support a culture of enterprise and innovation, including social enterprise	encourage a culture of enterprise and innovation, including social enterprise?	Business survival rates – % of new companies surviving 3 years Levels of business innovation – % of companies reporting innovative activity	
1.11 Achieve a strong, stable and sustainable economy and prosperity for the benefit of all the Region's inhabitants	achieve a strong, stable and sustainable economy and prosperity for the benefit of all the Region's inhabitants?		
	narrow the GVA gap between the best and worst performing parts of the Region?	GVA per capita	To raise GVA per capita above the national average.
	support efficient, competitive, diverse and innovative business, commercial, industrial, retail, tourism and leisure sectors?		

RSDf Objective	Appraisal Questions: Will the option/proposal...	Indicators	Targets
2. Climate Change and Energy			
2.1 Reduce overall energy use through increased energy efficiency	reduce overall energy use through increased energy efficiency?		
	raise energy efficiency to current Building Regulations standards in refurbishments for Decent Homes Standard?		
2.2 Increase the proportion of energy generated from renewable and low carbon sources, including by micro-generation, CHP, district heating, and in transportation	and increase the proportion of energy generated from renewable and low carbon sources, including by micro-generation, CHP, district heating, and in transportation?	% of energy generated from renewables and CHP	Renewable generation equivalent to 5% of electricity consumption by 2010 and 10% by 2020. Heat from renewable sources providing 250 GWh (0.3% of consumption) by 2010 and 650 GWh (1% of consumption) by 2020. Production of 460 GWh of liquid biofuels per year (approximately 44 million litres - 2% of current diesel sales) by 2010.
	promote energy generation from CHP and community heating?		Combined Heat and Power: 1,000 MWe by 2010
2.3 Minimise the Region's contribution to the causes of climate change by reducing emissions of greenhouse gases from transport, domestic, commercial and industrial sources	minimise the Region's contribution to the causes of climate change by reducing emissions of greenhouse gases from transport, domestic, commercial and industrial sources?	Carbon dioxide emissions by sector and per capita (LQOL 25)	Industry: Reduce CO ₂ emissions by 2.4 Mt (18%) by 2010 and an additional 4.3 Mt (32%) by 2020. Commercial and public sector: Reduce emissions by 2.0 Mt (36%) by 2010 and an additional 1.5Mt (26%) by 2020. Domestic: Reduce emissions by 2.4 Mt (19%) by 2010, and an additional 3.7 Mt (29%) by 2020. Transport: Stabilise emissions by 2010 and reduce by 0.7 Mt (7%) by 2020.
	reduce the Region's contribution to climate change?		
2.4 Implement a managed response to the unavoidable impacts of climate change, ensuring that the design and planning process takes into account predicted changes in the Region's climate	implement a managed response to the unavoidable impacts of climate change, ensuring that the design and planning process takes account of the predicted changes in the Region's climate?		
	promote the adoption of climate change adaptation and climate proofing principles in planning and design?		
	promote sustainable urban drainage systems?		

RSDF Objective	Appraisal Questions: Will the option/proposal...	Indicators	Targets
2.5 Land use and development that takes into account predicted changes in the Region's climate including flood risk	ensure that land use and development takes into account predicted changes in the Region's climate, including flood risk?		
	prevent all inappropriate development in areas of flood risk?	% of new houses built in flood risk areas	
3. Natural Resource Protection and Environmental Enhancement			
3.1 Value, protect, enhance and restore the Region's environmental assets, including the natural, built and historic environment and landscape	value, protect, enhance and restore the Region's environmental assets, including the natural, built and historic environment and landscape?	Area of land designated as a local nature reserve per 1,000 population (LQOL 30) Proportion of developed land that is derelict (LQOL 22) Employment and economic value associated with environmental economy activities – such as environment based tourism and recreation (as estimated in the 'Environmental Economy of the West Midlands').	
	value, enhance and protect the Region's natural environmental assets (eg Green Belt, parks and open spaces, AONBs etc)?		
	value, enhance and protect the Region's historic environment assets (eg World Heritage Sites, archaeological remains, historic buildings, parks and gardens, and landscapes, and conservation areas, battlefields and other architectural and historically important features and areas, and their settings)?	Number of listed buildings (Grade I and II*); monuments (Scheduled Monuments); and landscapes (Registered Parks and Gardens) at risk	
	promote heritage-led regeneration?		
	promote the repair and reuse of historic buildings?		
	enhance the amenity value of the countryside, meeting the recreational and leisure needs of communities?		

RSDF Objective	Appraisal Questions: Will the option/proposal...	Indicators	Targets
	protect, enhance and manage the character and appearance of the region's landscapes and townscapes, maintaining and strengthening local distinctiveness and sense of place?	Percentage of Joint Character Areas showing no change or showing change consistent with existing character area descriptions. Number of Village or Local Area Design Statements that have been adopted by the relevant local planning authority as planning guidance	
3.2 Value, maintain, restore and re-create regional biodiversity, where possible using approaches that improve the resilience of natural systems such as linking fragmented habitats	value, maintain, restore and re-create regional biodiversity?	Percentage area of land designated as sites of special scientific interest (SSSI) within the Region in favourable condition (LQOL 30)	95% by 2010
	value, enhance and protect the Region's designated sites, including sites designated for geodiversity?	Extent of ancient woodland Farmland bird populations (UKSD) Woodland bird populations (UKSD)	
	value, enhance and protect the Region's priority habitats and species, and promote the delivery of regional biodiversity targets?	Area of priority habitats protected and restored in the region Change (additions and subtractions) to: <ul style="list-style-type: none"> • priority biodiversity habitats (by type) • areas designated for their intrinsic environmental value, including sites of international, regional or subregional significance 	Twenty three priority habitats have targets set for both protection and restoration
	support development that incorporates improvements to wildlife habitats?		
	3.3 Minimise air, water, soil, light and noise pollution levels and create good quality air, water and soils	minimise air, water, soil, light and noise pollution levels, and create good quality air, water and soils?	
promote more sustainable transport patterns in areas of low air quality?		SO ₂ , NO ₂ , PM ₁₀ levels Number of AQMAs	
address air quality impacts arising from specific development activities?			
protect and enhance the quality of watercourses in the Region?		% of watercourses in 'good' or 'fair' biological and chemical quality	
reduce the quantity of contaminated land in the Region?		Amount of derelict and contaminated land in different parts of the region	
prevent noise and light pollution?		Tranquility	

RSDF Objective	Appraisal Questions: Will the option/proposal...	Indicators	Targets
3.4 Encourage land use and development that optimises the use of previously developed land and buildings	encourage land use and development that optimises the use of previously developed land and buildings?	New dwellings built on previously developed land (UKSD)	
3.5 Encourage land use and development that creates and sustains well-designed, high quality built environments that incorporate green space, encourage biodiversity, and promote local distinctiveness and sense of place	encourage land use and development that creates and sustains well-designed, high quality built environments that incorporate green space, encourage biodiversity, and promote local distinctiveness and sense of place?		
	require good urban design to create attractive, high quality environments where people will choose to live, work and invest?	Percentage of residents satisfied with living in their local community	
	increase access to good quality green space (eg increase the number of people in towns and cities with accessible greenspace within 300m of their homes)?	Area/accessibility of greenspace in towns and cities % of population within 500m access to woodland of no less than 2ha in size % of population within 4km access to woodland of no less than 20ha in size Parks/open spaces attaining 'Green Flag' status	2 ha of accessible greenspace within 300m of home 1 ha of Local Nature Reserve per 1000 population At least 1 greenspace of 20 ha within 2 km of home One 100ha site within 5km of home One 500ha site within 10km of home
	protect existing and encourage the development of new biodiversity assets in developments?		
3.6 Encourage local stewardship of local environments, for example by promoting best practice in agricultural management or enabling communities to improve their neighbourhoods	encourage local stewardship of local environments, for example by promoting best practice in agricultural management or enabling communities to improve their neighbourhoods?		
3.7 Promote environmental justice, recognising that deprived areas and disadvantaged communities are more likely to be affected by environmental damage and degradation	promote environmental justice, recognising that deprived areas and disadvantaged communities and more likely to be affected by environmental damage and degradation?		

RSDF Objective	Appraisal Questions: Will the option/proposal...	Indicators	Targets
	specifically improve environmental quality in deprived communities?		
4. Sustainable Communities			
4.1 Enable communities to influence the decisions that affect their neighbourhoods and quality of life	enable communities to influence the decisions that affect their neighbourhoods and quality of life?	% participation rates in community and volunteering activities	
	promote the use of community-based planning tools?		
4.2 Ensure easy and equitable access to services, facilities and opportunities, including jobs and learning, and that people are not disadvantaged with regard to ethnicity, gender, age, disability, faith, sexuality, background or location	ensure easy and equitable access to services, facilities and opportunities, including jobs and learning, regardless of culture, ethnicity, faith, gender, sexuality, age, disability or location?	Changes in the level of accessibility to housing and key services in different parts of the region (IMD) Households finding it very or fairly difficult to get to a corner shop or supermarket; post office; doctor or hospital (UKSD)	
	ensure that existing services and opportunities are retained and, where possible, developed?		
	promote compact, mixed-use developments with good accessibility to local facilities and services that reduce the need to travel?		
4.3. Address poverty and disadvantage, taking into account the particular difficulties of those facing multiple disadvantage	address poverty and disadvantage, taking into account the particular difficulties of those facing multiple disadvantage?	Wage/income levels – gross weekly pay Indices of deprivation – % of wards in bottom 10% of UK wards Working age people/children living in workless households (UKSD) Children/pensioners in relative low-income households before/after housing costs (UKSD)	
	ensure the provision of employment land in, or accessible to, the most deprived communities in the Region?		
4.4 Improve health and reduce health inequalities by encouraging and enabling healthy active lifestyles and protecting health, as well as providing equitable access to health services	improve health and reduce health inequalities by encouraging and enabling healthy active lifestyles and protecting health, as well as providing equitable access to health services?		
	diminish inequalities in mortality, health	Healthy life expectancy (UKSD)	

RSDF Objective	Appraisal Questions: Will the option/proposal...	Indicators	Targets
	and wellbeing across the Region?	Infant mortality (UKSD) Death rates from circulatory disease; cancer; suicides (UKSD) Prevalence of cigarette smoking (UKSD) Life expectancy at birth (LQOL 32)	
	ensure that infrastructure for healthcare is provided to meet projected future demand and need?		
	promote healthy lifestyles and opportunities for exercise (eg through environmental infrastructure and design)?		
	promote opportunities to participate in sport?	Area of outdoor playing space per 1,000 pop Percentage of population within 20 minutes travel time (urban – walking; rural – by car) of different sports facility types (LQOL 9)	National Playing Fields Association standard: 2.4ha per 1,000 pop
4.5 Provide decent and affordable housing for all, of the right quantity, type, tenure and affordability to meet local needs, in clean, safe and pleasant local environments	provide decent and affordable housing for all, of the right quantity, type, tenure and affordability for local needs, in clean, safe and pleasant local environments?	Numbers, types, tenures and locations of newly built housing Housing starts and completions (market and affordable) Percentage of housing that is unfit (LQOL 40) Households living in fuel poverty (UKSD) Number of rough sleepers (UKSD) Households in temporary accommodation (UKSD) Household accommodation without central heating (LQOL 38)	Halve the numbers living in temporary accommodation by 2010. Ensure that all social housing meets set standards of decency by 2010 Eradicate fuel poverty for vulnerable households by 2010 and for all households by 2016. Ensuring the number of vulnerable households in decent housing is at least 65% by 2006, 70% by 2010 and 75% by 2020
	deliver genuine 'pathways of housing choice'? ¹		

¹ 'Pathways of Housing Choice' means providing a variety of housing opportunities for people in terms of type, tenure and location over the length of their housing career, so that people can exercise different choices within a locality rather than having to make choices between localities when they want to adjust their housing situation

RSDF Objective	Appraisal Questions: Will the option/proposal...	Indicators	Targets
	increase the supply of affordable housing?	Affordable dwellings completed as a percentage of all new housing completions (LQOL 37) House price to income ratio (LQOL 41) House prices relative to national and regional averages Vacancy rates and Concealed Households	
	reduce the percentage of unfit/non-decent homes?	% of unfit/non-decent homes	
	encourage housing development which makes more efficient use of land (between 30 and 50 dwellings per hectare net); and seek greater intensity of development at places with good public transport accessibility (such as city, town, district and local centres or around major nodes along good quality public transport corridors)?		
	promote the renovation and reuse of existing building stock, rather than the construction of new houses, where appropriate?		
	ensure the adoption of sustainable design and construction practices in housing?	Numbers of houses with EcoHomes 'very good' or 'excellent' ratings	
4.6 Reduce crime, fear of crime and antisocial behaviour	reduce crime, fear of crime and antisocial behaviour?	Recorded robberies; burglaries; vehicle crimes per 100,000 population (UKSD) Percentage of residents that think people being attacked because of their skin colour, ethnic origin or religion is a very or fairly big problem in their area (LQOL 2) Percentage of residents who say they feel very or fairly safe outside a) during the day; b) after dark (LQOL 5)	Reduce domestic burglary by 5% Reduce robberies by 9% Reduce vehicle crimes by 8% Reduce violent crime by 5% (Targets for 2004-2005)
	promote the reduction of crime rates?		
	encourage the adoption of principles to 'design out' crime in housing and employment sites?		

RSDF Objective	Appraisal Questions: Will the option/proposal...	Indicators	Targets
4.7 Improve opportunities to participate in the diverse cultural, sport and recreational opportunities the West Midlands can offer locally and in the wider region	improve opportunities to participate in the diverse cultural, sport and recreational opportunities the West Midlands can offer locally and in the wider region?	Percentage of residents that think over the past three years community activities for their area have got better or stayed the same (LQOL 3) Percentage of residents that think over the past three years for their area a) activities for teenagers; b) cultural facilities; c) facilities for young children; d) sport and leisure facilities and e) parks and open spaces have got better or stayed the same (LQOL 10) number of school pupil visits to museums and galleries number of visits to libraries per capita	
	ensure that facilities and locations for cultural activities are protected and provided?		
	protect and create high quality or valued recreational spaces and avoid erosion of recreational function?		
4.8 Encourage physical development with a better balance of jobs, housing, social and cultural services and amenities within each part of the Region in order to meet local needs locally and encourage stable and sustainable communities	encourage physical development with a better balance of jobs, housing, services and facilities within each part of the Region in order to meet local needs locally and encourage stable and sustainable communities?		
	Focus retail and office development in town centres?	Percentage of resident population travelling over 20km to work (LQOL 43)	
	link housing development and employment opportunities?		
	reverse the pattern of people migrating from metropolitan areas to rural parts of the Region?	Pattern of population movement to and from the Major Urban Areas and changes over time	
4.9 Ensure that the Region's workforce is equipped with the skills to access high quality employment opportunities suited to the changing needs of the Regional economy, whilst recognising the value and contribution of unpaid work	ensure that the Region's workforce is equipped with the skills to access high quality employment opportunities suited to the changing needs of the Regional economy, whilst recognising the value and contribution of unpaid work?		

RSDF Objective	Appraisal Questions: Will the option/proposal...	Indicators	Targets
	reduce inequalities in employment rates across the Region?	People of working age in employment (UKSD) Working age people economically inactive (UKSD) 16-18 year olds not in employment, education or training (UKSD) Percentage of population of working age claiming key benefits (LQOL 15) Employment rate by local authority IMD Employment deprivation	
	provide employment land near to the potential workforce?		
4.10 Promote investment in future prosperity, including ongoing investment and engagement in learning and skills development	promote investment in future prosperity, including ongoing investment and engagement in learning and skills development?	R&D investment levels	
	ensure an appropriate supply of employment sites within the region to support sustainable economic development?		
	Encourage investment to develop deprived areas and focusing resources in areas of greatest need		
	ensure that education and skills infrastructure meets projected future demand and need?	% of workforce qualified to NVQ 3+ % of school leavers staying on to FE/structured training Numbers of organisations employing graduates Percentage of employers reporting skills gaps	50% of young people moving into higher education by 2010
	reduce inequalities in education and skills across the Region?		