

Summary - Liverpool City Region Local Nature Recovery Strategy Engagement Workshop

Habitat Ambition – what does good look like?

Farmland	
<ul style="list-style-type: none"> • Hedgerow field margins: new planted and restoration. • Network of joined ponds and hedgerows. • More in field trees. • Connected land and habitat. • Linking up existing and restoration/ creation of new ponds/ wetlands. • Linking pasture in river corridors. • Improve provision for bird roosting. • Soil management/ conservation • Soil structure, below ground biodiversity considered as well as above ground. • Soil fertility / health – high soil fertility, especially high phosphate, makes it very difficult to sustain wildflowers, ponds. Recognise limitations for habitat creation on fertilised soils. • Orchards (increased) • Habitat for climate adaptation i.e. corpse for livestock shading. • Resilience to climate change and flooding. • Carbon farming • Carbon or at least carbon neutrality. • 25% of land 'spared' for habitat creation. • Better use of field margin strategic. • Higher plant and insect/invertebrate diversity and abundance, especially on field margins. • Link into urban spaces, link to community growing. • No factory or intensive farming. • Methane reduction. • Reduce pesticide (water pollution run off). • Paludiculture • Peatland restoration and agricultural land use. • Good quality agriculture land (ALC 1 + 2) protected for food production. • More support for mental health of farmers. Consideration of stress, more investment, financial support model, simplify incentive. • Promoting farming who are trying to do something different. • Natural food management. • Riverbank erosion prevented, good boundaries. • Designated areas for rewilding. On unproductive land, marginal lands. • Crops for pollinators, bee friendly. 	<ul style="list-style-type: none"> • Integrated food production and habitat/ biodiversity enhancement on the same areas of land. – inter cropping. • Complementary - hay for equestrians, wood pasture, tiered payments, for margin, flower rich grasslands. • Working with the inherent nature of the land. I.e. Growing what suits the land. • Listen to the voice of the smaller farmers. • Species rich in term of farm animals (rare breeds) • Mixed species grazing. • Grazing systems: targeted, change in livestock type/ species / numbers. • Regenerative agriculture practice. Extra = less • Discussion with farmers to strengthen nature – barn owls, ditches for water vole etc. • No run-off into water bodies. • Management of run-off into watercourses. • No neonicatoin • Low input • MOB grazing – need to be strategic and coordinated. • Nature friendly farm owner/managers – who to work with? Tenant 70%, landowner/farmer 30%. • Nature recovery alongside profitable and sustainable farming business. • More funding: farming not currently financial sustainable. • Financial incentives. • Support to adapt. • Language advice link to LNRS. • BNG as an opportunity/ banking. • Elms • Circular food economy. About what you grow locally, education about this. Receives good advice on management and economic model. • Farm shop or local supply. • Markets: better system whereby farmers aren't forced to focus on just breaking each year, where they can invest in the longer term and nature recovery. • Training for contractors. Re litter etc. • More public access in right place. • Education on where our food comes from. • Education and skills.

<ul style="list-style-type: none"> • Agro forestry. • Move towards organic practices. • Use fertiliser in certain part of land to avoid crop resilience. • Introduce predators instead of chemicals. • Farming/gaming advocates. 	<ul style="list-style-type: none"> • Targeted habitat improvement on large estates. • Access footpath/ public rights of way • Community owned model. More support protection for tenant farmers. • Foster cohesion between farmers/public producers/consumers etc.
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Grassland and heathland

<ul style="list-style-type: none"> • Provide space to increase dune heath and connect existing dune heath areas. • Recognise the benefits of rabbits grazing within dune grassland. • Definition of grassland – any unused grass areas, dune grassland, saltmarsh. • Diverse species rich: 1) encourage species specific to habitat, 2) recording methods, know what there, 3) support the above. • Species rich : wildflower/hay meadows, right species, more quality grasslands. • Invertebrates' species rich/ monitored. • Messy – urban and wild species. Less cut grass in urban areas • Looks natural, not overcultivated. • Mowing – more varied regimes, weed suitable machinery collecting and disposing of cutting e.g. compost or biomass digestion. • No mow summer? • Protection and management • unspoilt, not over developed. • Garston coastal reserve – overused for dog walking leading to reduction in starlings. • Ground nesting bird protection – keep dogs and people from these nesting sites, fencing! • Balance of public access and nature needed to reduce disturbance. • Increased public awareness of benefit of grassland and heathland to nature carbon and people. • Sharing resources for heathland management, e.g. if a site is cutting heather providing the brush to another site for seeding. • Picking up cuttings reduces fertile ground and increases diversity. • Education of park and green space teams on habitat management. • Invest suitable machinery. • Open, green, fresh air, good for nature. • Community involvement/ education so they're cared for spaces. • Protect and retain historic grasslands as a priority over creating new. • Categorised to look for particular species e.g. rapid assessment test. 	<ul style="list-style-type: none"> • Pollinator fodder, buzz pollinators. • Invasives management (rush). • Well managed, but not overly interfered with. • Well-funded • Inspire people to be less tidy and less hard landscapes. • Less grouse shooting, hare coursing. • Increase to rural police budget. • Pasture on farmland, beneficial to wintering birds, ground nesters in some cases. Functionally linked land. • Sandstone ridge: restore (scrub and tree management), damp heath (drying out), create stepping stone and extending heathland habitat. • Education: let things grow, influence visitor experience, signposting/ information post, paths, regular. • Habitat section in urban parks, especially wildflower grassland (soil fertility) • Damp heathland – drainage and nutrient pollution need reversing. • More heathland: less erosion, tall shrub structure, scattered trees, diverse invert assemblage. • Use infertile soils for grassland and (if acid enough) heathland – keep tree planting to fertile soils. • Controlled burning in suitable areas to encourage strong new growth. • Very different habitats. • Protection from tree planting. Balanced approach to areas, mixed uses. • Wet grassland and wet heathland were meant to be wet. • Flood management plan. • Intro new species if appropriate. • Well connected • Signage • Appropriate access. • Ambition to create new. • Education/engagement plan and interpretation. • Controlled dogs place, spaces. • Urban design practical uses vs aesthetic (e.g. ??) • re-inventing the wheel. • Lower development pressures, changed policy, harder to develop on grassland.
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<ul style="list-style-type: none"> • Low input (no/low artificial fertiliser use) rotationally grazed. • Restrict use of chemicals. • Balanced managed spaces e.g. variety, • Amenity grassland available for recreational use and formal use. 	<ul style="list-style-type: none"> • Invest in orgs that are already in place. Avoid bringing g in new orgs. • Low managed spaces e.g. primrose valley and southern grasslands. Habitat developments. • Well, managed for farming habitat set a side, buffer strips, dedicated pastures.
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Marine, intertidal and coastal

<ul style="list-style-type: none"> • Species rich – reptiles and amphibians (natterjacks, sand lizards), wading birds, inverts, and plants. • Managing competing priority species, e.g. red squirrel's vs natterjack toads. • Thriving nationally important species well managed. • MPZ • Better linked coastal and inland habitats. • Transitions gradients (Heterogenous) • Decreased litter (from coasts or sea) • Barriers and protection to stop recreational disturbance. • Zonation e.g. for wintering birds • Waterbird refuges, not disturbed by people! • Separate areas controlled for recreation. • Recreation, accessible, sympathetic, managing number of people pressure. • Recreational disturbance to manage over use of coast. • Monitoring and responding to disturbance; legal framework, operation seabird. • Education of public • Education/social responsibility – national curriculum – thread throughout education from age 4 (operation seabird). • Recording for baseline and monitoring (sharing of this info with landowners) • Behavioural changes engage with dog owners, get ambassador for nature. • Signage/interpretation and general public info. • Mersey tidal barrage scheme: impact on natural population, lessons learned from elsewhere. • Green energy - habit • Recognise that with climate change we will need to allow habitat to shift. Landowners remove coastal embankments, issues of public safety/ stablished developed areas. • Financial resource. • Bin and infrastructure to manage waste. • Coastal protection: footfall, erosion, footpath planning, cliffs and beaches, managed decline. • Better education for the damage dune to the coast with paths etc. • What good look like depends on place: seaside, natural. 	<ul style="list-style-type: none"> • Remove land drainage. • Coastal Change management, Impact of erosion, nature-based solutions. • Flood protection – erosion. • Value of sand dunes and salt marsh • Eco Tourism • Dynamic – adaptation to natural processes work with nature, especially shoreline. Education re the benefits. • Low pollution – partnerships to work on: water quality (suitable for outdoor swimming) sewage and dogs, solid (plastics etc), High pollution, PFAs. • Water quality: blue flags and clean beaches, water safe to swim, WFD, good ecological status. Well managed/appreciated, agri, business/industry. • Sewage free with penalties for polluters i.e. nationalisation. • Ensure infrastructure is not impacting natural processes. • Enforce (CMA in planning) • Connected • Floating habitats • Access to water for recreation (managing impacts). • Invasive species • Well managed. • Specific species: wildfowl and wader's baseline • Reduced/eliminated by catch- responsible fisheries and fishing practice. • Gill net free coast • Designated sites: in good quality, protected (that of nation and international importance). • Specific habitat: mud flat and sand dune. Improved flood defence, biodiversity, Hoylelake • Protected areas of habitat. Reduce loss, coastal squeeze. • Marine reserves legal protection • Salt marsh restoration. • Liverpool city centre: ability to get down to engage with the water. • Seagrass meadows. • Improve docklands for tourism. • Cruise ships/ ferries causing pollution air and water.
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- **Reduce plastic:** Plastic in sea, outflows from water treatment.

Wetlands

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| <ul style="list-style-type: none"> • Habitat Creation • Insinuate ponds/ wet grassland in every type of land use, including urban. • More wetlands in new developments/ urban e.g. ponds/ reedbeds. • Scrapes, soakaways, swales being the norm for managing water in parks and greenspaces- temporary wetlands. • Free from littering • more wet farmland: wet grassland, Paludiculture, raise water levels. • Defining wetlands, not necessarily large spaces of land. • Ponds • Nature based solution and management. • Effective management • Managed for increasing biodiversity. • Looks good. • Species rich, plant and animals • Where the land wants to be wet. • Species: wading bird species, water voles to move across landscape • Encouragement of native plant species for all ponds – garden. • Use of reed bed filtration to improve water quality. • Mink • A bird sanctuary • Connected habitats for natterjack toad and GCN. • Beavers • Biodiversity measurements. • Baseline habitat surveys • Indicator species – willow tits • Native species. • Monitored • Invasive species • Enhanced and restore dune slacks, dune slack in different stages of succession. • No peat extraction. • Responsible farming/land management • Only takes 10 years to create wetland quicker than other habitats. • Sustainable urban drainage systems (SUDS), sustainable for flooding but not effective enough to filter chemicals. • Peat • Areas formerly wetlands • Stable coast, water level. • Avoid building development in river catchment close to streams. • Biosecurity, dogs, flea medication, shoes/clothing, | <ul style="list-style-type: none"> • Safe from development and nearby developments. • Safe environment, protecting from vandalism. • Land identification not conflicting with agricultural need. • Citizen Science, national records. • Wet woodland • Network of ponds and wetland (especially on clay soils). • Education and understanding. • Public access to nature • Good for health and wellbeing. • High quality accessible blue spaces. • Species disturbance. • Inland waterways and multi-use can be habitat in proxy and other use. • Re-wiggling rivers: returning rivers to their natura state. • De-culverting rivers. • Carbon Sequestration • Carbon offsetting opportunities. • Peatland and carbon emissions avoidance - restoration • Climate change adaption. • Global warming – rise in levels. • Hydrological monitoring, SLR and Saline inclusion impacts to ground water. • Watercourses, lakes and ponds should have: cleaner water, health ecology, as a natural form as possible, resilience to drought and high rainfall, less INNS. • unpolluted • Road run-off pollution • Water quality nutrient pollution • Pollution from sewage, discharge from Irish sea. • When creating or bringing back wetland support appropriate plant/shrub species • Control drainage. • Freshwater marshlands e.g streams, mixed ponds, (bogs, fens and marsh). • Water seeping into coastal boundary and breaking down, exposing tip underneath. • Effect of Mersey barrage on tide, silt, water levels. • Natural Flood management – Slow the flow. • Flood management, moving water to where it is needed (use canals). • Embrace the flood land. |
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Urban

- NHS Forest – NHS gardens on hospital sites, volunteering, nature gardening heals.
- Parks and wellbeing.
- **Health and wellbeing**
- Active lifestyle
- Conflict of original design and habitat diversity.
- Balance between public use and allowing nature to thrive.
- Water bodies in parks – habitat diversity and flood prevention.
- **Education and engagement** with nature (especially disconnect and unengaged).
- Initiatives, **activities in parks and greenspaces**, composting schemes.
- Skills workshop for community planting, rewilding
- **Wildflowers** – community spaces, gardens, veg, education.
- Native species
- More diversity in planting
- Open mosaic habitat on infertile soils, plant, inverts, tough for public use.
- Long-term management.
- Authorised swimming spots! (not canals)
- More nature-based solutions: **Rain gardens, green walls/roof**, planted spaces.
- Alleyways closed and neighbours adopt to grow.
- School – control over contractors.
- **Less formal mowing, more picture frame mowing.**
- **No mow may.**
- Council/ highways only mowing where necessary.
- Canals mow one-side leave other to grow.
- Green the road/ hard surfaces - Less tidy and weed control – increase biodiversity saves money.
- Sustainable transport
- **Flood management** – more canals, 16°C in city/urban, more trees for shade.
- Space for water
- Communities can see and access watercourses.
- Green infrastructure – building with nature (building standards).
- **Urban wildlife habitats – bee brick etc, plant for pollinators.**
- **Bee's- pesticides EU regs, no longer need to follow.**
- Invertebrates and pollinators, can be very rich, can support on small areas.
- Hedgehogs' highways, bird boxes, feeders
- **Pride in community engagement, no litter, ownership sharing of ideas.**
- Public will to look after spaces.

- Growing for food. Specialise in different crops.
- Growing in education- should be on the national curriculum (GCSE in native).
- Every school should have a plot/ community plot.
- 9m² green space for resident with half managed for healthy habitat.
- **Improve/ better use of green belt.**
- **Encourage small stuff lichen, moss, etc.**
- **Wildlife corridors through urban green.** Roadside verges/ spp rich grassland
- **Greenspace built up area.**
- **Incidental green space/ brown field**
- **Dual purpose greenspace – biodiversity and recreation.**
- More multi-functional open spaces.
- **Good quality blue urban space.**
- **Green and blue infrastructure and corridors.** Physical activity and connectivity.
- Infrastructure that has adaptation and is sustainable for future climates.
- Genuine planning for trees and green space provision in new estates/ proposed builds.
- Stronger enforcement in building regs.
- Building regulation and policy: more wildlife friendly measures, community green spaces lost to development and not replaced, no compensation received (section 106), enforcement of breaches, reporting , transparency and accountability.
- Swift boxes and structures for housing, house sparrows, bats, etc.
- **Focus on re-generation of brownfield sites – despite it being cheaper to build on green fields.**
- **More tree street of native species such as rowan, whitebeam, etc.**
- **Pocket parks/ street trees/ tiny forests**
- **On-site BNG**
- Co-ordinated use of BNG funds to ensure most effective.
- Increase funding opportunities for green infrastructure for development and retrofitting.
- Wise use of cost/balance
- **Recreation uses need to be factored in.**
- **Forest school in parks.**
- **Co-production and codesign with communities.**
- **Community spaces:** for interaction/engagement, good growing, art, connecting to nature, taking pride, sustained engagement and maintenance, education/around rewilding, habitat building, build into policies.
- Wetland areas protected from inappropriate development.

- Change perception that there is no wildlife in urban areas not just pests.
- Joined up wildlife awareness.
- Creative conservation (land life-style)
- Diversity – people feel nature for them.
- **Focus food- how do we prepare for the future of food shortage etc.**
- Food recycling – make it as easy as possible in urban (with high levels of consumption.)
- Wildlife friendly construction materials
- **Public safety, accessible spaces.** Biodiversity vs safety, nocturnal gardens.
- **SUDs (more)**
- **Join up across community garden spaces.**
- **Connection improved “Making stepping stories for nature”** but also larger cooperative growing, collectively.
- corridors networks (e.g. railway, roads).
- A network ownership (self-managed), coordination and networking (foods, skills, funding).
- Small, heritage community orchards.
- Management **including community** and skills.
- **No nighttime lighting**, damaging to night insects.

- **New developments include green space.**
- **Local authority has minimum size of garden space.**
- **No over development of property.**
- **Welcoming/ safety issues: no litter, no ASB, access for all/ enabling. Policed?**
- **No astro turf in any garden** (30°C natural grass, 60°C artificial grass).
- **Living roof on public buildings, walls, and bus stops, etc.**
- Alternative to hard surfacing/ landscaping
- Climate mitigation and cleaner air. Cooler in heatwaves, especially in more deprived area and access to green space.
- Urban island heat affect.
- **Tree planting** to tackle: air pollution-vulnerable location (school, hospital etc), flood management (drainage, swales), soil expo increased, less concrete.
- **Trees:** shade (climate resilience), more tree planting, right tree right place,
- Miyawaki forests.
- Naturalise what is what is suitable don't force nature.

Woodland – planted and ancient

- **Diverse Native species**, climate resilient and disease resilience.
- Diverse ecology at all level: soil, ground flora, shrub layer, trees, epiphytes
- **Deadwood left.**
- **Active management – coppicing and thinning**
- **Forest schools**
- **Education:** business, landowners and farmers.
- **Engagement:** community activity, anatomy over decision, café, good car parking (affordable), woodland trails, and engagement from a young age (Gruffalo).
- Bats
- **Bat boxes and bird boxes.**
- Invertebrates
- Woods to have all the classic woodland species.
- Advocate native species for this area.
- **Diversity:** age, species (native/nonnative), mixed habitat for species, glades, spaces, ground flora, understory.
- **Indicator species present** (Ferns),
- Connection of woodland habitats
- **Better connected across landscape**
- Wildlife corridor

- 15% minimum woodland cover
- Increase woodland cover.
- Right tree, right place.
- Need a strategic approach! On public land or farmland.
- Anticipation of climate change premature loss of trees.
- Woodland not seen as ‘silver bullet’ for carbon capture and used within a suite of options.
- **More wet woodland**
- **Connectivity by more** street trees, woodland, farming field margins, and **hedgerows.**
- More tree un urban areas such as city/town centres to protect population n heatwave and encourage wildlife.
- **New planting – targeted in underrepresented areas.**
- Size, larger woodland, where need from species is connectivity.
- Woodland management plans essential.
- If woodland is taken for building, then equal amount should be provided of equal quality.
- Maintenance for young trees.
- **Well managed.**
- By design: – **management plans**, ancient/ native, function of woodland,

<ul style="list-style-type: none"> • Soil management • Good mycelium network • Coordinated red squirrel conservation and moving reds out of coastal woodlands into inland to ensure sustainability. • Invasive species control. • Deer management maybe an issue. • Joined up approach. • Woodland as part of a mosaic of habitats. • Accessibility: resilient habitat, proximity/location • Utilising community woodland in existing parks – land management. • Mersey forest, northern forest. • Funding • Circular economy • Available for health and wellbeing activities. • Legal protected. • Healthy, diseases managed. • Disease control: re-stocking of resistant strains, better management of existing woodland prioritise, right tree/right place. • Linking local send/ have provisions. • Insect survival • Healthy understory. • UK forestry standard 	<p>type of trees/structure/canopy/ national capital, safety, forestry- crop.</p> <ul style="list-style-type: none"> • Natural management, certain species (e.g. wild boar) • A management plan with baseline surveys (removed for financial gain?). • Management, what is prime function people or nature conservation? • Balanced: open to public or closed site • Orchards commercial and community. • Long term management of existing woods, many are too dark. • Garden tree undervalued- can make an open woodland. • Natural regeneration • Climate adaptation: carbon sequestration, shade/cooling, food alleviation, agro-forestry, air quality (uni of Liverpool). • Benefit of managed commercial woodland. • Mapped and recorded, e.g. green infrastructure mapping tool. • Interpretation boards • Welcoming: safe, biophilia, dark spaces, quiet. • Sustainability • Bring diversity to new planted woodland which tend to have few species.
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Opportunities and challenges

Farmland	
Opportunity	Challenge
<ul style="list-style-type: none"> • Engage Landowners to value their assets. i.e. encourage sustainable land use. • Youth Environmental Service – paid one year employment for 18 – 25-year-olds into nature-based projects – more please. • New techniques/ innovation • Encouraging landowners to adopt appropriate crops that maximise biodiversity potential – i.e. no winter wheat sowing, no sowing of maize new watercourse etc. • New biproducts for local economy • Alternative incomes • Farmers can benefit from biodiversity net gain. • Location of agriculture- reducing Co2 FIP stronger/ clearer links between people and farming • Employment and good quality jobs. • Farmer sustainability – economic – relies on adequate capital and revenue funding of habitat creation and management interventions. • Farmer champions/ cluster case studies. 	<ul style="list-style-type: none"> • Landowners' pressure in tenant farmers to maximise profit and increase rents. • Landowners selling land for development. Balance of development on farmland. • Public ownership pressure to sell/develop. • Land values – ownership. Owner occupied easier than tenanted in some gets absentee landlords “hope value”. • Development “land banking” how know and manage into wider LNRS vision? • Loss of green space. • Farm size and trend towards amalgamation. • Unsustainable contract with supply chain. • Supply chain dominated by supermarkets. • Supply chain – transport duties. • Declining meat and dairy consumption. • Food waste need to promote seasonal eating. • Mental health • Lack of young people and new entrants

<ul style="list-style-type: none"> • Show casing outcomes can be done in the bottom line, utilising the language. • Lots of existing good work and knowledge by farmers (demonstrations and peer to peer). • Healthy productive agriculture – ecological land system = novel integration of crop and biodiversity production. • Piggybacking on farmer being stewards of land → public champions. • BNG etc • Apprenticeships • New legalisation • Agri-environmental scheme potential • Attract votes. • Produce marketed in sustainable ways. • Local food to local markets. / buy locally, eat seasonally – organic farming • Connecting food producers and consumers. • Renewable energy generations- challenge and opportunity. • NFM plus water storage – livestock / Pico hydro. • Diversification to include tourism, nature conservation target, to get different income. • Nestboxes, bat boxes etc on farms • Hedgerow planting and connectivity. • Subsidies – more profitable to farm in a nature friendly way. Not entirely productivity driven. • Subsidies - ELMS • Education for both farmers, contractors and public. NPF of county trust LTL. • Education on farmland birds – change in practice/awareness. • Education on farming practice. • Declining Meat and dairy consumption, new crops for new diets, to counter changing climate. • Paludiculture, carbon friendly farming, small holding, allotments, and community growing. • Gleaning – large scale composting – biogas? (carbon impacts – needs to be localised?) • Conservation grazing • Community growing • Transition to veganism. • Access for disabilities – miles without styles 	<ul style="list-style-type: none"> • Capacity of farmer/farm manager highly constrained. Need ready, external availability of materials, expertise, and skilled labour. • Farmers and growers receiving such tiny amount of final cost of product. • Lack of time, especially time to learn about species and habitats. • Uncertainty about future policy: what if you put your land into 30-year BNG and then big policy changes, puts food production up, political agenda. • Opposition – traditional thinking • Changing long held traditional beliefs. • Resistant farmers • Profitability/ lack of funding • How to develop/ implement subsidies • Lower/ lost farm subsidies. • Feed, fuel, and fertilise loses. • If not herbicides, what? • Identifying suitable land funding, skills to deliver. • Working the land harder • Removing rainwater without polluting water bodies • Continuing loss of key farmland species – birds and plant, especially indication some of national importance. • Reduction in pollinators. • How to be economically viable. • Policy reflects voter interest. • Poor regulation/ poor planning guidance. • Chemical, pesticides run off issues. • High phosphate and nitrogen from fertilizers, limits habitat creation possibilities. • Farmer buy in • BNG, New funding → choice, structuring, tied in • Funding and schemes not accessible to support/ language. • What pays in the urban fringe? Liveries (hay) extensive pasture. • Public access • Politics/ Brexit and trade • Food security • Climate change
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Grassland and heathland	
Opportunity	Challenge
<ul style="list-style-type: none"> • Habitat creation • BNG • Finding funding opportunities for management. • Training/ employment. Green skills • Apprenticeships – making use of grassland for temporary flood water storage. 	<ul style="list-style-type: none"> • Investment/ funding (there is some available) • Trained staff • Competing demand – property development • Knowledge to manage. • Danger of scrubbing up (woodland)

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| <ul style="list-style-type: none"> • Environmental act • Natural health service • Development. • Reintroduction of key species were lost. • Economic → grassland cut for animal deed • Natural health products from healthland. In partnership with local farmers. Etc • More national parks created • Demonstration ROI • Flood prevention → wet grassland → carbon sequestration. • Urban/green infrastructure more biodiverse • Better grazing management. • Reclaim land use → subsidier → opportunity to influence all types of landowners → verges/ gardens/ schools fields etc. • Identify and survey city region grassland and heathland. • Connect people to landscape through history – relax growing in Sefton for industrial revolution – teaching kids. • Massive potential for carbon sequestration • More information sharing/ training for staff to manage land better. • Rewilding of improved/ semi-improved grassland • Reforesting – converting grassland – only where appropriate. • Using building waste to build diver wildlife. • Ares in the right place with the right waste! • Utilising verges to regenerate – increase connectivity through species rich grasslands. • Changes to farming subsidies to support habitat creation – paying farmers to continue to manage existing high-quality habitats. • Increase biodiversity in small areas/ species rich grass verges. • Cyclical management of heathland – keep on top of scrub/woodland region. • Manage urban grassland for nature and not aesthetics. • Rare bree livestock grazing. • Restoration and connection or existing heathland. • Grassland corridors through woodland – glade, rides, fire breaks. • Creating space inland to allow for loss of dune grassland and heathland as a result of coastal squeeze. • Honey Income Stream via bees. • MOB Grazing systems for species rich swards. (biodiversity/increased productivity/ cost saving hay production). • Helping pollinators | <ul style="list-style-type: none"> • Non-native species (plant and animal) • Litter • More people visiting – damage to habitats. • Nutrient enrichment from atmosphere and from other sources e.g. dogs • Making it economically viable for landowners • Being able to demonstrate ROI • Inappropriate land use. Habitat creation especially if BNG not deliver correctly. • Increased pressure of local greenspace use. • Perceptions of grassland management - tidy. • Climate change – fire risk • Disturbance - People walking (and dogs) on habitat and damaging habitat • Heathland very fragment habitat. • Not a common habitat – lack of awareness of what it is and where it is. • Recreational use: mountain bike, trail bike damaging the heathland- need to provide alternative sites for bikers. • Having to prove ROA – What is the focus. • Councils having different structures/management systems. • Lack of food production – food insecurity. • Public perception of wild area and education. • Creation of suitable soil. • Grazing management – number and type – grazing important. • Flooding (can be Beneficial). • Unsuitable tree planting • Wildfire – heathlands • Nutrient enrichment, e.g. heath- dogs. • Neglected public areas – use education to enhance perception and understanding. • Some grassland vulnerable to development. • Impoverished seed sources due to over 90% loss of grassland. • Disturbance of ground nesting birds. • Need for housing + reduction of grassland. • Landowner perception that public purse should subsidize their business. • Active management to prevent dominant species. • Education on management techniques. • Funding for cut and collect equipment. • Local seed Banks. • Increasing tics • Dependant on land ownership – enhance land in public ownership very possible. • reduction of mowing regimes of grass verges. • Public ownership not always simple way forward. |
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- Education on what good looks like.
- Identifying unproductive areas.
- Linking habitats with grassland corridors.
- Hay collection as a source of income and selling seed bank.

Marine, intertidal and coastal

Opportunity

- Better management and planning required.
- make most of increased public awareness and care.
- Better water quality led to greater recreational use.
- Sustainable recreation (challenges¹). Lots of audiences: fishing, water sports, photographer, and tourist. Leads to better nature connection and then action. Self – policing **Varying levels of access.**
- Education: behaviour change,
- Varying levels of access.
- Reintroduction of key/ rove species.
- Opportunities – heritage neolithic site (Formby).
- Green energy (wind farms).
- Disturbance of nationally important bird roost.
- Shipping waste thrown overboard.
- Shrink carbon consumption.
- Seaweed – sustainable food source.
- Public education safe and sustainable coastal use
- Working with schools and youth group to improve education and awareness.
- Sea grass meadows,
- Salt marsh restoration.
- Flood mitigation opportunity.
- Carbon sequestration → salt marsh, sea grass
- Flood barrier → sand dunes.
- **Merseyside people like the coast! Emotional**
- **Investment/ have ownerships.**
- Open water swimming health benefits.
- Changing behaviour by encouraging good – introducing to volunteering.
- **Opportunity of international/national designations, irreplaceable habitats, and species assemblages, to protect important sites. Breeding of red listed species in these areas².**
- Working with local planner – join up!! Development land.
- LNRS provide strategic overview.
- **Shoreline management plan.**
- **Celebrate the biggest sand dune system in the UK – Sefton Coast.**
- **Engage wider public on activity/ participation in coast habs.**

Challenge

- Coastal erosion, especially from poorly located footpaths.
- Samly invasion and non-native species problem on dunes etc and bodies
- Difficult species with warming climate e.g. jellyfish etc.
- Climate change and sea level rise – coastal squeeze.
- Hoylake, Southport etc sand very vegetation on accenting shores.
- Need a port for import of goods doesn't always look pretty.
- **²A lot of designated sites are currently threatened.**
- Green energy (offshore wind farms). Tidal barrage, peel ports, seeing it as a money-making scheme.
- Pollution → industry → public → water companies
- ¹litter, disturbance
- Balancing recreation use vs damage to marine environmental species. E.g. jet ski, disturbance, dogs, fishing etc
- Behaviour
- **How do you create more?**
- Development – NSIP's, ROP,
- Removal of coastal defences
- Water quality.
- Climate change.
- **How do you manage a dynamic landscape?**
- Multiple owners
- Multiple interests
- Lack of protection form marine environments,
- Lack of monitoring baseline information on intertidal and marine habitat and species.
- How to manage species.
- **Participation/ impact/activity that may be damaging/ disturbance.**
- Mersey Tidal green energy, impact on nature.
- **Impact on intertidal habitat and species, can be a source of conflict.**
- Storms frequency and strength.
- Tidal surges
- **Litter/waster – coast or sea.**
- **Uncontrolled public access e.g. 4x4 etc.**
- Future increase visits to coast due to climate change.

<ul style="list-style-type: none"> Mersey tidal green energy, MCZ Focus on species (charismatic) Controlled recreational use. Nature based solution for FCERM. Improve water quality – sewage storm water overflow/ legislature compliance/ PFA. Creating salt marshes for grazing animals (Income??). Cleaning up our waterways. Education around coastal change and adaptation 	<ul style="list-style-type: none"> LJMU “river Mersey had one of the worst levels recorded globally for a river basin of PFAS. Dredging – impact on environment at navigation. Educate councils to enforce MCERTS DEFRA regulation. Lack of funding/ local authority and EA cutbacks. No policing Ships washing tanks offshore. Environmental impact of shipping. Invasive species – linked to port activity and marine drifts. Reenforce SSSI laws
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Wetlands

Opportunity	Challenge
<ul style="list-style-type: none"> Paludiculture if it can be made economically viable. Re-naturalise Riverbanks. Natural health service. Beaver. NBS to water quality and quantity Water pollution fine, go towards social investment. Habitat creation (as at Lunt) reintroduction of key rare species. Famer creating wetlands for flood management, drinking water for animals and crops. Make sympathetic with environment green roof, stilts. Natural flood management scrapes, swales, temporary storage. Opportunity to turn it into an amenity feature-board walks etc. Signage – education about what it is and what it is doing. Very important in winter when sites may not look their best. Stop housing development on flood plain zones. New wetland Global warming, climate, sea level - Wetland mitigation Flood prevention. Pollution discharge, forever chemical - ??? awareness, social media. More research into how pollutants getting into system. Water companies invest into ? structures (rather than profits) Mersey ??? - Reduce global warming and sea level rise/ carbon footprint. Litter plastics – people engagement, pride in local area, education, curriculum. Pressure on supermarkets about plastic packaging. Re-introduction, bottle return scheme. 	<ul style="list-style-type: none"> Global warming, climate change, sea levels More expensive than farmland Pollution/ discharge forever chemicals Invasive non-native species Mersey barrage Litter/ plastic. Loss of internation/ national bird assemblages Loss of pond DDL scheme, not following mitigation hierarchy. Loss of wetland, silting up/poor management Top load investments, funding long term vision and investment, brave attitude to risk investments. = more quality jobs Loss of dune slacks. INNS Space to allow rivers to function naturally. Funding – capital and maintenance Health and safety – water born disease. Public access Maintenance, no dredging. Education, benefits of wetlands Very variable water table (especially costal) and saline intrusion. Making wetland popular!! – but issues of perception, insects (biting), waterborne disease. Water extraction increasing with drier summers (climate change). Bird flu and other diseases. Skills shortages – conservation specialist, funding/ bid specialist, ecologist etc. Managing wetland at different successional stages. Legislative drivers and funding options. Water quality and road runoff, fertiliser and pesticides.

<ul style="list-style-type: none"> • Understanding monetary value of wetland in the long-term prevention of ill health, flooding, global warming, soil degradation • Career not a job • Accessible blue space • Valuing volunteers • Brave attitude to risk/investment – conversations with Influences, co-creation, evidence based locally led. • Top load investment = more quality jobs • Education • Awareness raising • Volunteering • Bird watching hides. • Carbon storage • Unique species restoration • Natural flood defence • Restoration of an underrepresented habitat. • Ponds – small manageable, need clusters of ponds. Close to people, link to urban/gardens. • Links to culture and heritage – archaeology, peat cores/paleoecology. Place names. • Natural treatment of wastewater, through wetland/ reedbed creation. • Opportunities to create interconnected wetland areas. • Community Projects -Artist residencies, poet/ literature. • Wetland habitat on farms, wet grassland grazing. • Stream out of culverts – connectivity for water voles. • Network of wetlands e.g. buffer corridor on Wirral (poor quality farmland, supporting habitat to SPA). • Create/restore dune slacks. • Increase and improve habitat and connect for natter jack toads and declining insects. • Where the ground want be wet – easy creation. • Farmland- drainage for agriculture, nutrient pollution, pesticides. • Loss of dune slacks. • Making wetland popular!! 	<ul style="list-style-type: none"> • Dog disturbance and veterinary chemical. E.g. effect on newts of nematoid flea treatment.
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Urban	
Opportunity	Challenge
<ul style="list-style-type: none"> • Less herbicide uses in urban pavement etc to green up city. • Work with local CVS build on existing actions. • 15-minute cities • Vertical greenspaces • Community plots for schools • Understand/appreciate, respect and protect/conservate gardening/growing veg. 	<ul style="list-style-type: none"> • Funding (for maintenance not just creation). • Housing pressures – i.e. greenfield sites • Right people leading on planting projects. • Public perception – of messy spaces and perfection of weeds or pests. • Mental health • Health inequalities and wealth

<ul style="list-style-type: none"> • Education of homeowners re garden planning for biodiversity. • Social value and impact • Education (what wildlife can actually live in the city) • Fostering and education council officials, councillors and general public on the needs and risks of environment – air, land, seas, rivers and lakes. • Green social prescribing – NHS forest-volunteering in hospital sites. • Bees and schools • Working with schools on long term plans. • Community led native initiatives, e.g. tree planting. • Community organising. • Community engagement with nature. • Statutory planning requirement for nature restoration/recovery e.g. swift brick/green infrastructure. • Look at examples of nature rich urban areas. What are they doing/making it happen? • Use of public space/ land-supermarkets (anything “public facing” not just public owned/ NHS premises libraries – for nature restoration. • Cover flat roofs – warehouses/ supermarkets etc in solar panel/green roofs. • Volunteering • Better public transport and active travel infrastructure. • More active travel needed. • Road verges and railway edges. • Ban astro turf! • Education of disadvantage of astroturf, community conversion – help them do their garden rather than pave/astro. • Urban cooling • Carbon sequestration. • Plant flowers or eat¹ / education into growing food/ schools and education programs. • Opportunity to influence policy. • Climate resilience and adaptation. – heat and flood resistance, offsetting and carbon • Enhance interest in garden bird feeding/ nest boxes etc. Use of swift nest boxes, bat boxes etc. • Encourage swallows e.g. Church grounds, school ground, balconies, rooftop gardens. • Encourage small areas, e.g. church grounds, school, balconies, rooftop gardens, urban bee keeping, green roofs and walls, birds, and bat boxes. • Urban bee keeping • Green roofs and walls • Hedgehog boxes 	<ul style="list-style-type: none"> • Poverty – (opportunity¹) • Full curriculum for high schools, environment is low priority versus key stage subject or targets. • Recreational pressures • Loss of garden to paving for cars, plastic grass (astroturf). • Competing objectives for the land – recreation, nature, and housing. • It's the economy stupid. • Planning new housing development with direct access to green space- parking given priority • DEFRA cut Canal River Trust funding. • Protecting tree in Urban environment – roof damage over tree: • Protecting tree in Urban environment- health and safety (more safety at the moment- needs to be more health), • removal of trees in conservation areas happening, TPO need strengthening. • Pesticide use on urban areas e.g. street edges the grass. How to reduce on climate. • Real estate values. • Willingness to compulsorily purchase for green space. • Linking up green spaces by corridors through the local plan system. • Need to know baseline of species. • Lack of space. • Heritage • Allocation of land for other uses • Travel rates. • Responsibility • Car is king policy. • Land pressures – housing provisions. • Poor quality of ponds. • Hard surfacing e.g. concretes.
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<ul style="list-style-type: none"> • Green and blue lungs of LCR • Green corridor of canal. Cooling of areas of green lung concept. • Change perception of some urban wildlife – not pest – love nature. • Protecting tree in Urban environment. • Orchards - opportunities for link to farm/farmland, woodland, grassland • Garden roofs/ green roofs. • Urban cooling policy. • Individual plots, as community plots bring people together. • Use of net zero as a catalyst for moving away from bedding plants and cut grass in urban parks. • More porous material in gardens to prevent flooding. • Celebrating nature culture people live. • Accessibility • Surface flood water management – SUDS/ wetlands. • BNG uplift- transforming abandoned spaces. Survey for existing wildlife, management. • Reducing ASB – self policing. • Health and wellbeing. • Trees – street planting. • Cooling affects – trees • Enhance ecosystem benefits – pollinators, water management SUDS, Species rich grass verges. • Allow people to apply to have trees planted outside houses – in place of car spaces. • Tolerance of untidy vegetation. 	
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Woodland – planted and ancient	
Opportunity	Challenge
<ul style="list-style-type: none"> • Mersey Forest – Community Forest bringing in national funding partnership in place to deliver. • Lunt -National Trust/ wildlife trust partnership. Joining up local woodlands. • Engage people with existing woodland/ trees. Connection already there. Tourism/cultural and heritage opportunities. • Can be incorporated into existing landscapes/ margins. • Big public will for more trees. • Highlight/celebrate ancient woodlands. • Galvanise communities to cares for local woodlands/ trees. • Forest Gardens – edibles • Places for people • Involve people/ schools in practical action and activities. • Multi use woodland – specific area for recreation to avoid conflict. 	<ul style="list-style-type: none"> • Overcoming binary tree vs farmland type dialogue that can be portrayed by media. • Very little ancient woodland in Merseyside – identifying the small pockets of woodland important. • Funding for management, not just creation – easy to plant but who managed long term. • Agreed metric for what is good management. • Coordinating separate interest groups into one meaningful action group. E.g. lots of voluntary groups working separately for the same aim. • New woodland, funding existing sites, via Mersey Trust, Northern Forest (Identifying suitable location who take it on local communities?) • Housing development for diversity if new planted woodland especially ground flora. • Maintenance of new trees planted. • Path management - flooding

<ul style="list-style-type: none"> • Huge and varied ecosystem service benefits of woodland • Engaging landowners- how two pieces land are managed better connectivity. • Forest schools • Reintroduction of key/rare species • Training / employment in forestry. • In some places allow natural vegetation rather than planting trees. • Active management for carbon sequestration • Carbon credit market • Carbon sink • Wildlife corridors, and more hedgerow/linear habitats. • Connectivity of woodland through hedgerow network. • Learning and wellbeing for forest schools. • Community engagement and woodland management • Habitat variety. • Funding schemes? • BNG market • Wildlife corridors, and more hedgerow/linear habitats. • Red squirrels. • Allowing re-wilding of woodland from scrub, hedgerows, rural land. Also, vital habitats. • Making natural regeneration acceptable • Education on appropriate management – e.g., thinning is good. • Storms – makes clearings. • Tree provides 2 – 8-degree reduction in temperature during heat waves. That foster sheltered activity (urban trees). • Long-term thinking e.g. what species will thrive in 50 -500 years' time. • Woodland management need active management with coppicing timber – making this partially vegetable. • Sensible planting, nature planting as part of a habitat mosaic. Not just blanketed planting creates much greater biodiversity. 	<ul style="list-style-type: none"> • Ownership/management • Maintenance, active management to reduce anti-social behaviour. • Resource/ funding for long term. • Resourcing management in existing tree planted areas. • Short- and long-term management plans • Nutrient impact from dogs, nitrogen from atmosphere etc. • Not residential – not allowed to live there. • Priority given to windfarms. • Trees dug up for green air zone signs. • Roots damage property/canal banks/ housing • new woodland – right trees/ location etc. • Prioritising woodland over other habitats – funding pressures. • Inappropriate management, • Disease control • Ethical dilemmas • Lack of suitable site for creation – Supply of land and labour skills • Joined up strategy between market and product chain. • Accessible funding- points of contact. • Eviction of tenant farmer for large scale tree planting. • INNS • Land for large woodland/ Creation and expansion. • Deer and sheep grazing. • Lack of local seed/saplings. • Balance broadleaved trees and non-native blossom trees. • Increase woodland cover near urban areas when there are pressure for housing. • Tree diseases • Storms- loses trees. • Commercial woodland for wood/timber – pressure to expand. Homogenise plantations (hostage to disease).
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