

This unique database of documents, case-studies, videos, tools and other information about Green Infrastructure and its benefits is produced for the [Green Infrastructure Partnership](#) by Dr Ingo Schüder of [Brillianto](#). The alternative format of the [GIRL searchable database](#) contains identical items.

**Green Infrastructure - Green Spaces - Natural Capital - Ecosystem Services**

Strategy development and implementation, national and international policy.

**Version 29: March 2019**

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<a href="#">Trees Woodlands &amp; Forestry</a>	<a href="#">Water Environment</a>			










Throughout the document the following symbols guide you to different types of information sources:

- |                                                                                     |                                  |                                                                                     |                                   |
|-------------------------------------------------------------------------------------|----------------------------------|-------------------------------------------------------------------------------------|-----------------------------------|
|  | Recommended (any type)           |  | Publication (pdf)                 |
|  | Case study                       |  | Video/ webinar                    |
|  | Tool                             |  | Webpage                           |
|  | Funding/ Environmental economics |  | Conference Proceedings (e.g. ppt) |

## New in this issue

- [State of Natural Capital Annual Report 2019](#) (Natural Capital Committee, 2019)
- [Enhancing Resilience Of Urban Ecosystems through Green Infrastructure](#) (European Commission, 2019)
- [Woodland Wildlife Toolkit](#) (Bat Conservation Trust; Butterfly Conservation; Forestry Commission; Natural England; Plantlife; RSPB; Sylva Foundation; Woodland Trust, 2019)
- [Accounting for National Nature Reserves: A Natural Capital Account of the National Nature Reserves](#) (Natural England, 2019)
- [Biodiversity net gain. Good practice principles for development - a practical guide](#) (Chartered Institute for Ecology and Environmental Management (CIEEM); CIRIA, Institute of Environmental Management & Assessment (IEMA), 2019)
- [Biodiversity net gain - Good practice principles for development - Case studies](#) (WSP; Balfour Beatty; Footprint Ecology; ciria, 2019)
- [B£ST \(Benefits Estimation Tool\) - valuing the benefits of blue-green infrastructure](#) (susdrain, 2019)
- [Green Infrastructure focus - interactive map](#) (Mayor of London, 2019)
- [UK housing: Fit for the future?](#) (Committee on Climate Change, 2019)
- [Monitor of Engagement with the Natural Environment Children's Report \(MENE\) 2017-2018](#) (Natural England (NE), 2019)
- [The state of the world's biodiversity the state of the world's biodiversity for food and agriculture](#) (Food and Agriculture Organization of the United Nations (FAO), 2019)
- [Future Cities -planning for our urban population](#) (Infrastructure Australia, 2018)
- [What are the benefits of green \(and blue\) space?](#) (Edinburgh Napier University; Queen Margaret University Edinburgh; The University of Edinburgh, 2018)
- [Local standards and guidance for surface water drainage on major development in Oxfordshire](#) (Oxfordshire County Council, 2018)
- [Ensuring no net loss for people as well as biodiversity: Good Practice Principles](#) (Balfour Beatty, Bangor University, Oxford University, Wild Business, 2018)
- [Achieving Urban Flood Resilience in an Uncertain Future](#) (Urban Flood Resilience Research Project; University of Nottingham, 2018)
- [Spatial Planning for Health- An evidence resource for planning and designing healthier places](#) (Public Health England, 2017)
- [Chimney Meadows Ecosystem Services Assessment](#) (Consultancy for Environmental Economics & Policy (CEEP); Berkshire, Buckinghamshire and Oxfordshire Wildlife Trust (BBOWT), 2017)
- [Public Health Outcomes Framework - Improving outcomes and supporting transparency](#) (Department for Health, 2016)
- [Prescribing Green Space - is it important?](#) (Centre for Sustainable Healthcare, 2015)

## Access and Recreation




-  [Monitor of Engagement with the Natural Environment Children's Report \(MENE\) 2017-2018](#) (Natural England (NE), 2019)
-  [Walking Design Standards](#) (Oxfordshire County Council, June 2017)
-  [Evaluating the outdoor learning experience - A toolkit for practitioners](#) (Cardiff University, 2016)
-  [Outdoor Recreation Valuation Tool](#) (ORVal) (Exeter University, Launched 2016)
-  [Whitepaper: The Outdoor Environment in Secondary Schools](#) - Understanding nature deficit and environmental citizenship at Key Stage 3 and Key Stage 4 (The Learning Escape, 2014)
-  [Making Space for Cycling](#) A guide for Developments and street renewals (Cyclenation, 2014)
-  [Cycling Revolution London](#) (Transport for London, 2010)
-  [Improving Londoner's access to nature](#) (Greater London Authority, 2008)
-  [An analysis of accessible natural greenspace provision in the South East](#) (South East AONB, Natural England, Forestry Commission, 2007)






















See more under: [greenspace standards](#)













## Air quality / Air pollution
























-  [UK air pollution removal: how much pollution does vegetation remove in your area?](#) (Office for National Statistics [ONS], 2018)
-  [The UK environment – fighting pollution, improving our health and saving us money](#) (ONS, Oct 2017)
-  [Developing Estimates for the Valuation of Air Pollution Removal in Ecosystem Accounts](#) (CEH/ONS, July 2017)
-  [Air pollution: outdoor air quality and health](#) (NICE & Public Health England, June 2017)
-  [First Steps in Urban Air Quality for built environment practitioners](#) (TDAG, Birmingham University, Lancaster University, 2017)
-  [Planting Healthy Air](#) (The Nature Conservancy, Oct 2016)
-  [Tree and forest effects on air quality and human health in the United States](#) (USDA Forest Service 2014)
-  [Air Quality Strategy for England, Wales, Scotland and Northern Ireland](#) (Defra, 2007)












## Biodiversity and Green Infrastructure

-  [Biodiversity by design](#) (TCPA)
-  [Biodiversity net gain. Good practice principles for development - a practical guide](#) (Chartered Institute for Ecology and Environmental Management (CIEEM); CIRIA, Institute of Environmental Management & Assessment (IEMA), 2019)
-  [Biodiversity net gain - Good practice principles for development - Case studies](#) (WSP; Balfour Beatty; Footprint Ecology; ciria, 2019)

-  [The state of the world's biodiversity the state of the world's biodiversity for food and agriculture](#) (Food and Agriculture Organization of the United Nations (FAO), 2019)
-  [Ensuring no net loss for people as well as biodiversity: Good Practice Principles](#) (Balfour Beatty, Bangor University, Oxford University, Wild Business, 2018)
-  [Assessment of biodiversity accounting approaches for businesses and financial institutions](#) (European Commission, 2018)
-  [Evaluating the effectiveness of policy instruments for biodiversity](#) (Organisation for Economic Co-operation and Development (OECD), 2018)
-  [GRETA – Green infrastructure: Enhancing biodiversity and ecosystem services for territorial development](#) (ESPON, 2018)
-  [Mainstreaming biodiversity targets for the private sector: Technical Appendix](#) (JNCC; Valuing Nature Network; Oxford University; Interdisciplinary Centre for Conservation Science, 2018)
-  [Mainstreaming biodiversity targets for the private Practice note](#) (JNCC; Valuing Nature Network; Oxford University; Interdisciplinary Centre for Conservation Science, 2018)
-  [Mainstreaming international biodiversity goals for the private sector: Main Report & Case Studies](#) (JNCC; Valuing Nature Network; Oxford University; Interdisciplinary Centre for Conservation Science, 2018)
-  [National Pollinator Strategy: Implementation Plan, 2018-2021](#) (Department for Environment, Food and Rural Affairs (Defra), 2018)
-  [Working for Biodiversity Net Gain - An Overview of the Business and Biodiversity Offsets Programme \(BBOP\)](#) (Business and Biodiversity Offsets Programme (BBOP), 2018)
-  [UK Biodiversity Indicators 2018](#) (Department for Environment, Food and Rural Affairs [DEFRA]; The Scottish Government; Welsh Assembly, 2018)
-  [green infrastructure and biodiversity -factsheet](#) (PERFECT, Town and Country Planning Association [TCPA], 2018)
-  [Why & How to Increase Pollinators on Your Farm - Practical Guide](#) (Scotland's Farm Advisory Service, 2018)
-  [Biodiversity Action plan 2018-202](#) (Canary Wharf Group PLC, 2018)
-  [A Better Balance- A Roadmap to Biodiversity Net Gain](#) (Balfour Beatty, 2018)
-  [Encouraging biodiversity at multiple scales in support of resilient woodlands](#) (Forest Research, 2018)
-  [Living Cities - towards ecological urbanism](#) (Scottish Wildlife Trust, 2018)
-  [Field Guide to Conservation in Cities in North America](#) (The Nature Conservancy; Center for Whole Communities, 2017)
-  [Guidance on Permission in Principle and Brownfield Registers of Land](#) (brownfield Register guidance) (Wildlife and Countryside Link, Sep 2017)
-  [Biodiversity in the City](#) - Practical actions to make our UK cities global leaders (WSP, Sep 2017)
-  [Implications of lowland broadleaved woodland management for the conservation of target bird species](#) (Forest Research, June 2017)
-  [An Action Plan for nature, people and the economy](#) (European Commission, April 2017)







-  [Optimising UK urban road verge contributions to biodiversity and ecosystem services with cost-effective management](#) (Journal of Environmental Management Volume 191, 15 April 2017, Pages 162–171; open access)
-  [Sustainable Agriculture. Green infrastructure integration into the agriculture sector](#) (CEEweb, Jan 2017)
-  [Healthy for Bees: Healthy for People Managing the grounds of public buildings for pollinators](#) (Natural Resources Wales, 2017)
-  [Mainstreaming Biodiversity into Future Cities](#) –conference presentations (CIEEM 2017)
-  [Financing City Parks in Canada: What Might Be Done?](#) (Park People & Trent University, 2017)
-  [The Nine Concepts Making space for nature and beauty](#) (Berkeley Group, 2017)
-  [Connectivity and Ecological Networks](#) – technical information note (Landscape Institute, April 2016)
-  [Biodiversity Net Gain Good practice principles for development](#) (CIRIA, CIEEM, IEMA, Dec 2016)
-  [Helping pollinators locally – developing a local pollinator action plan or strategy](#) (Buglife, Friends of the Earth, 2016)
-  [Maidenhead's Nature Matters](#)(Wild Maidenhead, October 2016)
-  [Green Infrastructure action plan for pollinators in South-East Wales](#) (TACP& Monmouthshire Council, Dec 2015)
-  [The Nature Recovery Plan for Wales](#) Setting the course for 2020 and beyond (Welsh Government, December 2015)
-  [Managing green spaces for pollinators](#) An introduction for managers – supplement to Green Infrastructure Action Plan for Pollinators in South-east Wales (TACP, Nov 2015)
-  [Conservation 21 – Natural England's Conservation Strategy for the 21st Century](#) (natural England, Oct 2016)
-  [Living Planet report](#) (WWF, Oct 2016)
-  [Rewilding and Ecosystem Services](#) (Parliamentary Office of Science and Technology, Sep 2016)
-  [Our Environment Buckinghamshire and Milton Keynes: State of the Environment Report](#) (Buckinghamshire & Milton Keynes Natural Environment Partnership, July 2016)
-  [UK Biodiversity Indicators 2015](#) (Defra 2016)
-  [Achieving locally contextualised biodiversity-led multifunctional urban green infrastructure](#) (Turas 2016)
-  [Ecomimicry tool](#) for urban areas (TURAS project 2016)
-  [Biodiversity Net Gain](#) – A new role for infrastructure and development in improving Britain's wildlife. (WSP 2016)
-  [Spaces Wild](#) - championing the values of London's wildlife sites (Wildlife Trust London, Oct 2015)
-  [Better brownfield: ensuring responsive development on previously developed land](#), (CPRE, 2015)
-  [London Pollinators: creating a buzz in the capital!](#). (Sustain, Jan 2015)

-  [Planning for brownfield land regeneration to woodland and wider green infrastructure](#) – Practice note (Forestry Commission, March 2014)
-  [London's Living Landscapes](#) – a recovery plan for nature (London Wildlife Trust, 2014)
-  [Biodiversity and Planning in Oxfordshire](#) (BBOWT, TVERC and Oxfordshire County Council, Mar 2014)
-  [Community and Parish Guide to Biodiversity](#) (BBOWT, TVERC and Oxfordshire County Council, 2012)
-  [Making Ecology For All](#): A report on equality and diversity in ecological education and career pathways (British Ecological Society, December 2013).
-  [Advisory Information - Bumblebees](#) - advice on managing their quarries for wildlife (Bumblebee Conservation Trust in co-operation with Mineral Products Association, 2014)
-  [Assessing and enabling climate change adaptation in Nature Improvement Areas](#) (Natural England, November, 2013)
-  [The Mosaic Approach: Managing Habitats for Species](#) - a series of interactive guides (Natural England; December, 2013)
-  [Proceedings](#) of the Brownfield Conference (Buglife; Oct 2013)
-  [Habitats Directive Risks tool](#) (Environment Agency; requires MS Access 2003 or above), sharing information on the risks posed to protected sites from activities the EA regulates.
-  [Biodiversity and Planning Decisions](#) (Parliamentary POSTnote, Feb 2013) - sets out how information on impacts of proposed developments on biodiversity is given to planners in England, and also summarises approaches to enhance biodiversity and avoid, mitigate and compensate for negative impacts.
-  [Rivers by Design](#) (RESTORE partnership, including EA, 2013) - guide, aimed at explaining the benefits of river restoration to developers, local authorities, planners and communities, with relevance to urban or green infrastructure projects.
-  [Brownfield Hub](#) (Buglife; launched 2013)
-  [Creating Green Roofs for invertebrates](#) (Buglife 2012)
-  [Strategic Plan for Biodiversity 2011–2020](#) (UNEP, 2011)
-  [Delivering biodiversity benefits through green infrastructure](#) (CIRIA 2011)
-  [Managing for species: Integrating the needs of England's priority species into habitat management](#) (Natural England 2010)
-  [Climate Change and Biodiversity Adaptation: The Role of the Spatial Planning System](#) (Natural England April 2009 – *please note this was published before major change to planning system in 2012*)
-  [Safeguarding our Soils. A Strategy for England](#) (DEFRA), 2009)
-  [The management of roe deer in peri-urban Scotland](#) (Forest Research, 2009)
-  [Urban Deer Vehicle Collisions](#) - A risky life for deer (British Deer Society, Linnean Society, 2008) pdf
-  [Planning for brownfield biodiversity](#) (Buglife, 2009)
-  [England Biodiversity Strategy](#) - Towards adaptation to climate change. Final Report to Defra for contract CR0327 (Defra,2007)

-  [Guidance for Public Authorities on Implementing the Biodiversity Duty](#) (DEFRA, 2007)
-  [Guidance for Public Authorities on Implementing the Biodiversity Duty](#) (DEFRA, 2007)
-  [Working with the grain of nature: biodiversity strategy for England](#) (Defra, 2002)
-  [Making contracts work for Wildlife](#): How to encourage biodiversity in Urban Parks (CABE 2006)
-  [Brownfield: red data. The values artificial habitats have for uncommon invertebrates](#) (English Nature, 1998)
-  [Biodiversity Planning Toolkit](#) (ALGAE)
-  [Landscape and Urban Design for Bats and Biodiversity](#) (Bat Conservation Trust)
-  [Planning for biodiversity toolkit](#) (ALGAE)
-  [brownfield resources](#) (EPA)
-  [Nature After Minerals](#) , a resource for everyone with an interest in quarry restoration & minerals planning for biodiversity (funded by Natural England, RSPB & DCLG)
-  [Series of webinars on biodiversity off-setting](#) (Business and Biodiversity Offsets Programme & Forest Trends)

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## Biodiversity off-setting

-  [Biodiversity Offsetting: Government Response to the Committee's Sixth Report of Session 2013–14](#) (House of Commons Environmental Audit Committee, March 2014)
-  [South Devon Biodiversity Offsetting Guidance](#) (Natural Devon/ Defra, 2014)
-  [Biodiversity offsetting report](#) (Environmental Audit Committee/House of Commons, Nov 2013)
-  [The advantages of biodiversity offsetting](#) Environment Bank, Sep 2013)
-  [Biodiversity off-setting – Busting the offsetting myth](#) (The Environment Bank, Sep 2013)
-  [Biodiversity offsetting for developments](#) (BRE, April 2012)
-  [Biodiversity Offsetting](#) (4-page briefing to Ministers), Office of Science and Technology, 2012

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## Case stories and videos

### Websites providing collections of case studies (in a searchable database)

- SUDS by CIRIA/ [Susdrain](#)
- [SUDS case studies UK](#) (Green Blue Urban)
- [SUDS case studies USA](#) (Green Blue Urban)
- [Working with natural processes to reduce flood risk](#) – 65 case studies (Environment Agency, Oct 2017)
- [Essex Design Guide case studies](#) (Essex Planning Officers Association, from 2018)
- [Creative community engagement case studies](#) (Eden Project, 2018)
- [Building with Nature case studies](#) (Building with Nature, 2018)
- [Nature-based solutions case studies](#) (Oppla, from 2017)
- [Designing for exceedance](#) –12 SUDS case studies (CIRIA 2017)

- [Healthy Design case studies](#) (Horticulture Week, 2015)
- [Local Action urban best practice case studies](#) (Local Partnerships in urban Landscapes; from 2016)
- [SUDS case study library](#) (The American Society of Landscape Architects, from 2013)
- [Naturally Resilient Communities](#) (focussing on erosion and flooding)
- [Natural Capital case studies](#) (Natural Capital Coalition, from June 2015) [h](#)
- The Economics of Ecosystems and biodiversity by [TEEB](#)
- Sustainable transport by [Sustrans](#)
- Landscape architecture, housing, parks and gardens by the [Landscape Institute](#)
- [Environmental Economy of North West England case studies](#)
- [Urban Green Infrastructure case studies](#) (Citygreen)
- [Catchment Management Modelling Platform](#) case studies (Catchment Management Modelling Platform)
- Sustainable housing by [HCA Place Spotlight](#) (archived June 2016)
- [Green Infrastructure & open environments: preparing tree and woodland strategies – case studies](#) (Forestry Commission and Mayor of London, Feb 2013)
- [Green Roof case studies](#) (City of London, Nov 2011)
- Green Roof case studies by [Green Roof Technology](#)
- [Active travel case studies](#) (Central Scotland Green Network, 2017)

## Individual case studies

- ◆ [Camden County Municipal Utilities Authority: A Wet Weather Case Study of Incorporating Community Interests into Effective Infrastructure Decision-Making](#) (US Environmental Protection Agency EPA, 2018)
- ◆ [Natural Capital Planning Tool case study](#) (Consultancy for Environmental Economics & Policy CEEP, Natural Capital Planning Tool, 2018)
  - [Langley Sustainable Urban Extension](#) (Birmingham)
  - [Black Country Garden City](#)
  - [Central Bedfordshire Land Allocations](#)
- ◆ [National Ecosystem Approach Toolkit](#) case studies (NEAT & EKN, 2018)
- ◆ [Active travel case studies](#) (Central Scotland Green Network, 2017)
  - ['Green Cycle Routes', Copenhagen](#): cycle and pedestrian network for green commuting
  - ['Grünes Netz', Hamburg](#): masterplan and strategy for a green active travel network
  - ['Connswater Community Greenway', East Belfast](#): a living landmark for east Belfast
  - ['Greener Greenways', across the UK](#): a large scale initiative promoting biodiversity
  - ['Little France Park: Creating Connections', Edinburgh](#): initiative integrating active travel routes within masterplan
- ◆ [Barcelona: Nature-based Solutions](#) (NBS) Enhancing Resilience to Climate Change Regeneration (Oppla, 2017)



- ◆ [Lisbon: Nature-based Solutions](#) (NBS) Enhancing Resilience through Urban Regeneration (Oppla, 2017)
- ◆ [Ljubljana: Nature-based Solutions](#) (NBS) for Urban Regeneration and Wellbeing (Oppla, 2017)
- ◆ [Rainbow Garden, Hull](#) (Hull City of culture 2017)
- ◆ SUDS case study: [Gibside View Gateshead](#) (Susdrain, 2017)
- ◆ SUDS case study: [Glenbrook Wetlands in Enfield](#) (Susdrain, 2017)
- ◆ SUDS case study: [Grovelands Park and Wetlands, Enfield](#) (Susdrain, 2017)
- ◆ SUDS case study: [Rain Gardens, Enfield](#) (Susdrain, 2017)
- ◆ SUDS case study: [Queen Caroline Estate, London Renfrew Close, London](#) (Susdrain, 2017)
- ◆ [Centenary Park Case Study, Rugby](#) (Fields in Trust, 2017)
- ◆ [SUDS case study video – Forest Way School](#) (CIRIA/ Susdrain, July 2017)
- ◆ [Payments for ecosystem services](#) (PES) Round 3 – with case studies from Winford Brook, Energy for Nature (RSPB), Holnicote & Woodland Trust - Smithills (Defra, Sep-Nov 2015)
- ◆ [The economic benefits of Green Infrastructure](#) - case study Lancaster, Pennsylvania (US EPA, Feb 2014)
- ◆ [Physical Activity and the Rejuvenation of Connswater](#) – socio-economic case studies & findings (PARC, 2014)
- ◆ [St Lawrence Park](#), Byker - Transforming a park with a voluntary community 'green exercise' group – (Natural England, 2014)
- ◆ [Wynyard Woodland Park](#), Stockton -Managing future development by investing in green infrastructure (Natural England, 2014)
- ◆ [Tees Heritage Park](#), Stockton - Reconnecting communities with their heritage and each other (Natural England, 2014)
- ◆ [Blyth Green Travel project](#) - Creating the UK's first Active Travel Town (Natural England, 2014)
- ◆ [Easington Colliery Concept statement](#) -A concept for a place to live, a housing development worth approving (Natural England, 2014)
- ◆ [Woods for Health](#) hospital greenspace case studies (Forestry Commission, 2013)
- ◆ [Case Studies Analyzing the Economic Benefits of Low Impact Development and Green Infrastructure Programs](#) (US EPA, Aug 2013)
- ◆ [Planning naturally – Spatial planning with nature in mind: in the UK and beyond](#) (RSPB, CIEEM and RTPI, July 2013). The report is structured around 12 principles of good spatial planning, illustrated with case studies from the UK and abroad, capturing a broad range of issues critical in the planning system.
- ◆ [London 2012 GI legacy](#) (Natural England 2013) - Case studies featuring the Games' most iconic venues including The Queen Elizabeth Olympic Park, Weymouth and Portland sailing venue and Hadleigh Farm mountain biking venue
- ◆ [SUDS scheme Manor Ponds, Sheffield](#) (CIRIA case study)
- ◆ [Derby Midland Station, retrofit tree pits](#) (CIRIA)




















- ◆ [Ever wonder where the rain goes?](#) and [Water Sensitive Urban Design](#) (two short video animations by CIRIA , Oct 2013)
- ◆ [Green benefits in Victoria Business Improvement District](#) (London Climate Change Partnership Aug 2012)
- ◆ [GI in East New York That Will Improve Water Quality](#) (NYC, March 2013)
- ◆ [The Olympic Parklands Green Infrastructure](#) shows how Green Infrastructure was embedded in the transformation of the east End of London as part of the Olympics
- ◆ Green Growth for Green Communities, A [selection of regional case studies](#), ParkCity Conference March 2009, p89-93
- ◆ [The best buildings and places in the country, from large-scale plans for city centres to shops and theatres.](#) (CABE)
- ◆ [TEEB case studies](#)
  - [Natural Spaces and Health: Mapping Accessible Natural Greenspace in Wales, UK \(2010\)](#)
  - [Benefits of green infrastructure – socio-economic importance of constructed wetlands, Nummela, Finland \(2013\)](#)
  - [Economic value of Toronto’s Greenbelt, Canada \(2010\)](#)
  - [Managed realignment for coastal protection, UK \(2011\)](#)
- ◆ [Stamford Brook development](#) (Stamford; National Trust)
- ◆ [Slowing the Flow](#) at Pickering is exploring a new approach to flood management. (Forestry Commission 2010)
- ◆ [West Park, Darlington \(HCA Place Spotlight\)](#)
- ◆ [Hexham Flood Trail](#) (HCA Place Spotlight)
- ◆ Social Return on Investment of urban nature sites – 4 case stories published by greenspace Scotland (July 2011)
  - [Glen Mile Mountain Bike Trail](#) an urban mountain bike trail in the Cumbernauld Glen Wildlife Reserve managed by Scottish Wildlife Trust
  - [Coronation Garden](#) in Spier’s Old School Ground, Beith the reinstatement by volunteers of a community garden
  - [Woods for Health Pilot](#) at Kinnoull Hill, Perth ‘green prescription’ activities for people with severe and enduring mental health support needs
  - [Dumbreck Marsh Local Nature Reserve](#) in Kilsyth a school EcoClub’s use of a local nature reserve
- ◆ [Green Infrastructure in Worcestershire](#) A short 9 min inspiring film about the multifunctional Green Infrastructure resource in Worcestershire
- ◆ [Animation](#) communicating the significance of Green Infrastructure and what it means for all of us (landscape Institute)
- ◆ [Our Green Space](#) on community greenspaces in North West
- ◆ [Woods for Health on Kinnoull Hill Perth, case story](#) on the social return on investing in Green Infrastructure Greenspace Scotland (July 2011)




















- ❖ [Nature-inspired play park opens at Dinton Pastures Country Park](#) (Landscape Institute, April 2014)
- ❖ [The Olympic Parklands Green Infrastructure](#) shows how Green Infrastructure was embedded in the transformation of the east End of London as part of the Olympics
- ❖ [Green Benefits in Victoria Business Improvement District](#) - An analysis of the benefits of trees and other green assets in the Victoria Business Improvement District. (2012)
- ❖ [Creating climate change parks](#) explores the opportunities to adjust the design and management of parks to maximise climate change benefits. (Green Space Scotland)
- ❖ [The Importance of Parks to People and Wildlife](#) (YouTube video 4 min 15; BSG Ecology)
- ❖ The [Online Green City](#) brings together urban investment projects from across Europe and presents them as a single, ideal city. You can also explore case studies based on these projects.
- ❖ Large scale development in [St Neots](#), design, planning and risks were shared by a group of 7 developers with very good integration and management of Green Infrastructure, including footpaths/cycleways, flood/water management features, woodland and wetland habitats.
- ❖ [Catchment Management Modelling Platform](#) case studies (Catchment Management Modelling Platform)
  - [Case Study 1](#) Multiple pollutant and ecosystem services responses to land management policies and agri-environment interventions
  - [Case Study 2](#) Effectiveness of land management policies and agri-environment interventions
  - [Case Study 3](#) Costs and benefits of mitigation measures
  - [Case Study 4](#) Effectiveness of pollution control measures under scenarios
  - [Case Study 5](#) Uncertainty in ecological responses to water quality control measures
  - [Case Study 6](#) Effects of input data quality & quantity on evaluation of land management
  - [Case Study 7](#) Interpolation of model outputs and data from catchment to national scales






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## Climate Change & Green Infrastructure

- ★ [Green Infrastructure to combat climate change](#) (summary) (*Community Forests NW*) – a good overview/ introduction to subject
- ★ [Green infrastructure to combat climate change](#) - A Framework for Action in Cheshire, Cumbria, Greater Manchester, Lancashire, and Merseyside (*Community Forests NW; March 2011*)
- ★ [The impact of the environment and climate change on future infrastructure supply and demand](#) (National Infrastructure Commission, 2017)
- 📖 [UK housing: Fit for the future?](#) (Committee on Climate Change, 2019)
- 📖 [Building Resilience with Nature: A Practitioner's Guide to Action](#) (Earth Economics; 100 Resilient Cities, 2018)
- 📖 [Health in a changing climate - guidance](#) (Greenbelt Foundation, 2018)











-  [Health in a changing climate - Climate Change and Health: Impacts and Opportunities fact sheet](#) (Greenbelt Foundation, 2018)
-  [Financing Climate Futures - Rethinking Infrastructure](#) (Organisation for Economic Co-operation and Development (OECD); United Nations; World Bank Group, 2018)
-  [From Surviving to Thriving: Equity in Disaster Planning and Recovery](#) (Center for Progressive Reform, 2018)
-  [Delivering urban resilience](#) - Costs and benefits of city-wide adoption of smart surfaces to strengthen resilience, improve health and liability, reduce urban inequality, and slow global warming (Capital E, 2018)
-  [Greenhouse gas removal](#) (The Royal Society; Royal Academy of Engineering, 2018)
-  [Natural Flood Management Scotland case studies](#) (James Hutton Institute; Scottish Environmental Protection Agency [SEPA], 2018)
-  [The Clean Growth Strategy](#) Leading the way to a low carbon future (BEIS, Oct 2017)
-  [Adapting cities to climate change](#) - exploring the flood risk management role of green infrastructure landscapes (The Mersey Forest, Sep 2017)
-  [Climate Resilient & Equitable Water Systems](#) Capital Scan (CREWS, California Environmental Associates, June 2017)
-  [Resilient Parks, Resilient City](#) (Park People, July 2017)
-  [Developing the role of community groups in local climate resilience: final report of the Urban Heat project](#) (Policy Studies Institute, Feb 2017)
-  [Climate change, impacts & vulnerability in Europe 2016](#) (European Environment Agency, Jan 2017)
-  [Financing urban adaptation to climate change](#) (European Environment Agency, Feb 2017)
-  [Gardening in a changing climate](#) (Royal Horticultural Society, 2017)
-  [Urban adaptation to climate change in Europe 2016](#) — Transforming cities in a changing climate (European Environment Agency, April 2016)
-  [Climate Change and Nature in Scotland](#) (Scottish Natural Heritage, 2016)
-  [Forests and Climate Change](#) (FAO 2016)
-  [Climate change risk assessment and adaptation plan](#) (Natural England, Oct 2015)
-  [Climate Change Adaptation report](#) (Network Rail, 2015)
-  [Reconceptualizing green infrastructure for climate change adaptation: Barriers to adoption and drivers for uptake by spatial planners](#) (scientific article in Landscape & urban planting, June 2015)
-  [Economic Assessment of Green Infrastructure](#) Strategies for Climate Change Adaptation: Pilot Studies in The Great Lakes Region (NOAA, 2014)
-  [National biodiversity climate change vulnerability model](#) - results from model and assessment tool (Natural England, March 2014)
-  [Adapting to climate change Policy](#) (EA, update April 2014)
-  [Climate Change video](#) (narrated by Morgan Freeman Sep 2014)
-  [The heatwave plan for England](#) (NHS, 2014)

-  [Rotterdam Climate Change Adaptation Strategy](#) – incorporating many aspects of SUDS and Green Infrastructure (Rotterdam Climate Change Initiative, Oct 2013)
-  [‘Testing the Effectiveness of Climate Change Adaptation Principles for Biodiversity Conservation’](#) (Natural England 2013)
-  [How Local Authorities can reduce emissions and manage climate risk](#), Committee on Climate Change, May 2012
-  [Planning for climate change](#), guidance for local authorities (TCPA, RTPI et al., April 2012)
-  [Managing risks and increasing resilience](#) (climate change adaptation strategy) (Mayor of London, Oct 2011)
-  [A brief guide to the carbon valuation methodology for UK policy appraisal](#) (Department for Energy and climate change, 2011)
-  [adaptation to climate change using green and blue infrastructure - a database of case studies – executive summary](#) (Town and Country Planning Association TCPA; GRABS, 2011)
-  [participation in climate change adaptation](#) (Town and Country Planning Association TCPA; GRABS, 2010)
-  [Forestry and climate change](#) (Forestry Commission 2010). This document presents the Forestry Commission’s key messages on climate change. It draws together the information available from the Forestry Commission, Forest Research and other relevant organisations, to explain in one document the role of trees, woods and forests in tackling climate change.
-  [Green Infrastructure Solutions to Pinch Point Issues in the North West – how can GI enable sustainable development \(The Mersey Forest et al. 2010\); focuses on threats that needs to be addressed as policy priorities in the North West, including flood risk, urban heat islands, inadequate water supply and loss of carbon storage](#)
-  [Slowing the Flow](#) at Pickering is exploring a new approach to flood management. (Forestry Commission 2010)
-  [Green Infrastructure – how and where in the North West it can help to mitigate and adapt to climate change](#) –evidence-based report (partnership report from Green Infrastructure NW 2010)
-  [Defra's Climate change plan 2010](#) (DEFRA), 2010)
-  [The draft climate change adaptation strategy for London](#) (Greater London Authority, 2010)
-  [Improving response, recovery and resilience](#) (Defra/ Environment Agency, 2009)
-  [The UK low carbon transition plan](#). National strategy for climate and energy (HM Government, 2009)
-  [Critical Climate Change Functions of Green Infrastructure for Sustainable Economic Development in the North West](#) (Community Forests Northwest, 2008) – very large file
-  [Which landscape features affect species movement? A systematic review in the context of climate change](#). (Forest Research, 2008)
-  [SCORCHIO Workshop Report](#) – about heat amelioration (Newcastle University, Met Office, EPSRC, The University of Sheffield, university of East Anglia, 2008)

-  [Climate Change and Biodiversity Adaptation](#): The Role of the Spatial Planning System (Natural England April 2009 – *please note this was published before the change to Planning System under NPPF in 2012*)
-  [Air quality and climate change: A UK perspective](#) (DEFRA, Air Quality Expert Group (AQEP), 2007)
-  [GRaBS Adaptation Action Planning Toolkit](#) Planning for a Changing Climate Across Europe
-  The [European Climate Adaptation Platform](#) aims to support Europe in adapting to climate change.
-  [Creating climate change parks](#) explores the opportunities to adjust the design and management of parks to maximise climate change benefits. (Green Space Scotland)





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













## Community engagement & Localism


-  [re-imagining garden cities for the 21st century](#) benefits and lessons in bringing forward comprehensively planned new communities (TCPA & Land Securities; July 2011)
-  [An Introduction to neighbourhood planning](#) (DCLG Oct 2011)
-  [Community ownership for woodland management](#) (Woodland Trust, July 2011)
-  [Local Green Infrastructure](#) - Helping communities make most of their landscape (Landscape Institute Sep 2011)
-  [Community organisations controlling assets: a better understanding](#) (Rowntree Foundation; June 2011)
-  [Community-led spaces](#) (CABE 2010) A guide for local authorities and community groups
-  [Improving Young People's Lives](#) (SDC Oct 2010)
-  [Guidelines on Effective Community Involvement and Consultation: Good Practice Note 1](#) (RTPI, 2005, revised 2007)
-  [Attitudes and behaviours in relation to the environment](#) (Defra, 2007)
-  [Guide for implementing the comprehensive strategy for serious, violent and chronic young offenders](#) (US department for Justice, Office of Juvenile Justice and Delinquency Prevention, 1995)

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## Concept statements, master planning & design

-  [Green Infrastructure by design – adding value to development](#) (partnership production including Natural England, 2010)
-  [Biodiversity by design](#) (TCPA)
-  [Guidance on Engaging Communities in Decisions Relating to Land](#) (Scottish Government, 2018)
-  [Future Cities -planning for our urban population](#) (Infrastructure Australia, 2018)

-  [Design and masterplanning -Practical Guides for Creating Successful New Communities](#) - Garden City Standards for the 21st Century series (TCPA, Dec 2017)
-  [locating and consenting new garden cities](#) – Garden City Standards for the 21st Century - Practical Guides for Creating Successful New Communities (TCPA, 2017)
-  [Cities Alive: Designing for Urban Childhoods](#)(Arup, Dec 2017)
-  [Resilient Modern Cities. With a Little Help from Our Nature](#) - Green infrastructure integration into urban spatial planning (CEEWeb, Jan 2017)
-  [A NEW APPROACH TO DEVELOPER CONTRIBUTIONS](#) (UK Government, Oct 2016)
-  [Neighbourhood Plans: In Theory, In Practice, In the Future](#) (NLP Planning, June 2016)
-  [Adaptive Circular Cities](#) –series of downloads on water, health and construction (Deltares, Wageningen University, 2016)
-  [Neighbourhood Planning Technical Information Note](#) (Landscape Institute, April 2016)
-  [Nature and Cities - The Ecological Imperative in Urban Design and Planning](#) (Lincoln Institute of Land Use, scientific paper, Feb 2016)
-  [Building better places](#) (House of Lords, Feb 2016)
-  [Space-Syntax](#) a free tool & training for techniques for analysing spatial layouts and human activity patterns in buildings and urban areas, UCL,2016
-  [Getting Houses Built](#) (CPRE, June 2015)
-  [The UK in 2030. key trends for the built environment](#) WSP, May 2015
-  [Demystifying Green Infrastructure](#), UK Green Building Council (Feb 2015)
-  Case Study: [Easington Colliery Concept statement](#) -A concept for a place to live, a housing development worth approving (Natural England 2014)
-  [City Health Check: How design can save lives and money](#) (RIBA; Dec 2013)
-  [Design and sustainability business plan](#) (Homes and Communities Agency; June 2013)
-  [Creating Garden Cities and Suburbs today](#) a guide for councils (TCPA, 2012)
-  [A Design Wayfinder](#), developed in response to the National Planning Policy Framework (NPPF) emphasis on good design in development (Design Council, May 2012)
-  [creating garden cities and suburbs today](#) - policies, practices, partnerships and model approaches –a report of the garden cities and suburbs expert group (TCPA, Crest Nicholson, The Lady Margaret Paterson Osborne trust, 2012)
-  [Design, Implementation and Cost Elements of Green Infrastructure Projects](#) (Ecologik Dec 2011) – summary of European research also relevant for economic value of GI
-  [South Hams District Council Development Policies Development Plan Document \(Adopted July 2010\)](#) - was first authority to prepare concept statement for every site
-  [Creating Successful masterplans](#) (CABE 2010) – [summary document](#)
-  [Helping local people choose good design-](#) report on work of design review panels (Design Council 2010)
-  [Capitalising on the inherited landscape: An introduction to historic characterisation for master planning](#) (HCA & EH, now Historic England, 2009)

 [Putting the green in the grey](#) Creating sustainable grey infrastructure A guide for developers, planners and project managers (CABE 2009)

[Future health - sustainable places for health and well-being](#) -explaining how good design makes healthy places (CABE 2009)


 [Concept statements](#) - Delivering sustainable development in the Sustainable Communities Growth Areas (Natural England and Planning Co-operative Feb 2007)

 [Concept statements and Local Development Documents](#) (Countryside Agency, Oct 2003)


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## Ecological corridors/ GI corridors


 [Linear Green Infrastructure network](#) webpage (CIRIA, TCPA et al 2016)

 [Liverpool City Region Ecological Network](#) (Liverpool City Region and Nature Connected, Nov 2015) & [interactive map](#))

 [Green Bridges technical guidance note](#), Landscape Institute, Dec 2015


 [B-lines](#) – strategies for developing ecological corridors for pollinators (Buglife, 2012)

 [Developing Urban Blue Corridors Scoping Study](#) (Defra, March 2011)


 [Y & H GI mapping project](#) (Natural England and Local Authorities, March 2011) a worked example how to develop GI or ecological corridors showing methodology, data on each corridor and GIS data sets for download

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## Economic Value of Green Infrastructure


 [Economic Value of Green Infrastructure](#) (NWDA, Natural Economy NW & Natural England, 2008) Executive summary.

 [Bridging the finance gap How do we increase financing for conservation?](#) (RSPB, 2018)

 [Towards the new normal - increasing investment in the UK's Green Infrastructure](#) (Aldersgate Group, 2018)


 [The economic value of our green spaces](#) (The Land Trust, Feb 2018)


 [Putting economic values on green infrastructure improvements](#) (Natural England, Oct 2016)


 [Demystifying Economic valuation](#) (Valuing Nature network, June 2016)

 [GI economic Framework](#) (Victoria University and the Government of Victoria, Nov 2015)

















 [The Economic Case for Investment in Natural Capital in England](#) (Eftec, Jan 2015)


 [Investing in our natural assets: how government can support business action](#) (Aldersgate group, 2015)

 [State of Natural Capital Report](#) - Restoring our Natural Assets (Natural Capital Committee, March 2015)

 [The economic benefits of woodland](#) (Woodland Trust, 2015) – research report: the benefits that UK woodland can provide are worth over £270 billion, however their full value is not always recognised.
























-  [Microeconomic Evidence for the Benefits of Investment in the Environment 2](#) (Natural England June 2014). This report offers an insight into the cause and positive effect of investment into the natural environment. A must-read for anyone who wants to get buy-in from decision makers and funders.
-  [The economic benefits of Green Infrastructure](#) - case study Lancaster, Pennsylvania (US EPA, Feb 2014)
-  [Restoring ecosystems likely to be economically profitable](#) (European Commission, December 2013)
-  ['Green Infrastructure – Valuation Tools Assessment'](#) (Natural England, Sep 2013) draws together a number of the most widely used tools and assess them against research standards for natural science and economics.
-  [Guide to Multi-Benefit Cohesion Policy Investments in Nature and Green Infrastructure](#), Inforegio (August, 2013), discusses how investment in green infrastructure and biodiversity has implications for cohesion policy.
-  [Case Studies Analyzing the Economic Benefits of Low Impact Development and Green Infrastructure Programs](#) (US EPA, Aug 2013)
-  [Green Infrastructure's contribution to economic growth: a review](#) (Defra and Natural England, July 2013) shows how investment in GI encourages inward investment, attracts increased visitor spending, provides health benefits, generates employment and promotes food production.
-  ['Realising Nature's Value'](#), (Defra & Ecosystem Markets Task Force, 2013)
-  [The Economics of Ecosystems and Biodiversity for Water and Wetlands'](#) (IEEP & Ramsar Secretariat, 2013; published as part of TEEB project) - outlines critical water related ecosystem services and urges a major shift in attitudes towards wetlands
-  [Infrastructure Productivity: How to save \\$1 trillion per year](#) (McKinsey & Company, Jan 2013) report on global infrastructure, referencing Green Infrastructure
-  ['Benefits of Urban Parks – A systematic review'](#), (International Federation of Parks and Recreation Administration, Jan 2013)
-  [Green Infrastructure's contribution to economic growth: a review](#) (Sheffield Hallam University & Eftec, July)
-  [Building natural value for sustainable economic development: Green Infrastructure Valuation Toolkit](#) (GI North West)
-  [Guide to Corporate Ecosystem Valuation](#) (World Business Council for Sustainable Development, 2012)
-  [Economic Benefits of Green Space](#) (2012) – **Forestry Commission** research report providing a critical review of evidence of the net economic benefits, both direct and indirect, of initiatives to improve green space.
-  [VALUE Final Report](#) (Sep 2012) **Summarising** the main investments, areas of research and wide-ranging achievements of the project, the VALUE Final Report demonstrates the economic value of green infrastructure in cities and regions across North West Europe, including two UK case stories from Sheffield and Manchester

-  [The multifunctionality of Green infrastructure](#) (European Commission, March 2012) – reviews the relationship between Green Infrastructure and Ecosystem services and how they can be valued
-  [The Green Book: appraisal and evaluation in central government](#) (HM treasury, July 2011)
-  [The economics of ecosystems and biodiversity](#) - Mainstreaming the Economics of Nature: A synthesis of the approach, conclusions and recommendations of TEEB. (United Nations Environment Program Oct 2010)
-  [TEEB case studies](#) (United Nations Environment Programme)
-  [The Benefits of Green Infrastructure Knowledge portal](#) (Forestry Commission)
-  [Improving Young People's Lives](#) (Sustainable Development Commission Oct 2010)
-  [Benefits of Green Infrastructure](#) (Forest Research, Oct 2010)
-  The economic benefits of Green Infrastructure: [The public and business case for investing in Green Infrastructure and a review of the underpinning evidence](#) (Natural Economy North West 2009)
-  [The real value of park assets](#) (CABE Feb 2009)
-  [No Charge? Valuing the Natural Environment](#) (Natural England 2009)
-  [Economic Contribution of Green Networks](#) (NW Green Infrastructure Think Tank and LUC; July 2009)
-  [A Valuation of the Economic and Social Contribution of Forestry for People in Scotland](#) (Forestry Commission, Scotland, 2009)
-  [The Economic Contribution of The Mersey Forest's Objective One-Funded Investments](#). (Regeneris Consulting, 2009)
-  [Social Return on Investment \(SROI\) Analysis of the Greenlink](#), a partnership project managed by the Central Scotland Forest Trust (CSFT) (Greenspace Scotland, 2009)
-  [An evaluation of Cydcoed: the social and economic benefits of using trees and woodlands for community development in Wales](#) (Forest Research, 2008)
-  [Additionality & Economic Impact Assessment Guidance Note](#) (Scottish Enterprise, 2008)
-  The economic benefits of Green Infrastructure: [Developing key tests for evaluating the benefits of Green Infrastructure](#) (Natural Economy North West 2008)
-  [An Introductory Guide to Valuing Ecosystem Services](#) (Defra, 2007)
-  [The economic benefits of Green Infrastructure](#): Developing key tests for evaluating the benefits of Green Infrastructure (Natural Economy North West (NENW), 2007)
-  [The contribution of the local environment on the local economy](#) (Groundwork UK, CLES, 2007)
-  [Sustainable forestry in brief: social and environmental benefits of forestry](#) (Forestry Commission, 2004)

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## Ecosystem services



-  [Chimney Meadows Ecosystem Services Assessment](#) (Consultancy for Environmental Economics & Policy (CEEP); Berkshire, Buckinghamshire and Oxfordshire Wildlife Trust (BBOWT), 2017)
-  [Delivery of ecosystem services by urban trees](#) (Forestry Commission; Jan 2017)
-  [Defra's Payments for Ecosystem Services Pilot Projects 2012-15](#) Review of key findings (Defra, Dec 2016)
-  [Valuing flood-regulation services for inclusion in the UK ecosystem accounts](#) (ONS, Nov 2016)
-  [Ecosystem Services](#) (Volume 21, Part B, Pages 175-372; special issue with several science articles, Oct 2016)
-  [Experimental Ecosystem Accounts for the Central Highlands of Victoria](#) (Australian National University, June 2016)
-  [Integrating an Ecosystems Approach into Strategic Environmental Assessment](#) information note (Scottish Government, June 2016)
-  [Landscape opportunity and ecosystem services mapping in the South West Peak](#) (Natural Capital Solutions and South West Peak, March 2016)
-  [An Evaluation Framework for applying the Ecosystem Approach](#) (SNH, March 2016)
-  [Federal Resource Management and Ecosystem Services Guidebook](#) –including Ecosystem Services Assessment methodologies (US National Ecosystem Services Partnership, Feb 2016)
-  [Blueprints for a Greener Footprint - Sustainable Development at a Landscape Scale](#) (World Economic Forum, Jan 2016) – references ecosystem services
-  [Mainstreaming Ecosystem Services and Biodiversity into Agricultural Production and Management in East Africa](#) (FAO, 2016)
-  [Estimating the economic impacts of ecosystem restoration](#) (US Geological Survey, 2016)
-  [Global Assessment of Non-wood Forest Ecosystem Services](#) (Profor, WAVES, Dec 2015)
-  [Payments for ecosystem services](#) (PES) Round 3 – with case studies from Winford Brook, Energy for Nature (RSPB), Holnicote & Woodland Trust - Smithills (Defra, Sep-Nov 2015)
-  [The future of the urban environment and ecosystem services in the UK](#) (Government Office for Science, Oct 2015)
-  [Putting the Ecosystem Approach into practice](#) – what can it do for you? Natural Capital initiative, Sep 2015)
-  [Ecoserv-GIS- A Wildlife Trust toolkit for mapping multiple Ecosystem Services](#) (workshop handbook accompanying Ecosystem Services Workshop, January 2015)
-  [Linkages between biodiversity attributes and ecosystem services: A systematic review](#), Ecosystem Services, Volume 9, September 2014, Pages 191–203 (free scientific article)
-  [Ecosystem Services and Biodiversity](#) (EU Commission, May 2015)
-  [Water Ecosystem Services](#) (Unesco, 2015)
-  [Defra Payments for Ecosystem Services \(PES\) Pilot Projects: Review of key findings of Rounds 1 and 2, 2011-2013](#) (Defra, Oct 2014) – several good case studies
-  [A policy analysis of the use of Ecosystem service values in state and local decision-making](#) (NOAA, 2014)

-  [Link between biodiversity and ecosystem services](#) & [Non-monetary valuation](#) (OPENNESS, 2014). Other [Synthesis Papers](#) available.
-  [Participatory Ecosystem Services Visualisation Framework](#) (Westcountry Rivers Trust, 2014) tailored towards working with river catchments
-  [A strategy for England's wildlife and ecosystem services, Biodiversity Indicators: 2014 assessment](#) (Defra, Dec 2014)
-  [Ecosystem Approach Handbook](#) (Natural England & Countryside, 2014)
-  [A Guidance Manual for Assessing Ecosystem Services at Natura 2000 Sites](#) (RSPB, 2014)
-  [Ecosystem services assessment: How to do one in practice](#) (IES, Oct 2013,
-  [Assessing and Evaluating the Cultural Services of the South Pennines Ecosystem Services Pilot](#) (Natural England, October, 2013)
-  [Payment for Ecosystem Services Pilot Project: The Fowey River Improvement Auction](#) (University of East Anglia & Westcountry Rivers Trust, Sep 2013)
-  ['Introducing an ecosystem services approach to quarry restoration'](#) (Cranfield University, July 2013)
-  [Developing the potential for Payments for Ecosystem Services: An Action Plan](#) (Defra, May 2013).
  -  Refreshed **Defra** [Ecosystem services](#) webpage. Several of these documents make explicit reference to GI, for example the [Payment for Ecosystem Services \(PES\) Pilot on Flood Regulation in Hull](#)
  -  [https://www.gov.uk/government/uploads/system/uploads/attachment\\_data/file/368126/pes-pilot-findings-141028.pdf](https://www.gov.uk/government/uploads/system/uploads/attachment_data/file/368126/pes-pilot-findings-141028.pdf) (Defra, May 2013).
-  [Ecosystem services mapping gateway](#) (NERC Biodiversity and Ecosystem Services, since May 2013)
-  [Payment for ecosystem services: lessons from around the world](#), European Commission (May 2013)
-  [What nature can do for you](#) (Defra, April 2013) - A practical introduction to making the most of natural services, assets and resources in policy and decision making.
-  ['Dialogue on Ecosystem Services, Payments and Outcome Based Approaches'](#) (Stockholm Environment Institute, March 2013) towards an outcome-based approach for assessing ecosystem service provision.
-  [Measuring and Managing Corporate Performance in an Era of Expanded Disclosure: A Review of the Emerging Domain of Ecosystem Services Tools](#) (BSR, Jan 2013) -aims to help corporate decision-makers understand the tools available to measure impacts and dependencies on ecosystem services.
-  [Mapping and Assessment of Ecosystems and their Services in Europe](#) - discussion paper (European Commission, April 2013)
-  ['A Global Assessment of the Links between Urbanisation, Biodiversity and Ecosystem Services'](#) (Stockholm University et al 2012) – A global assessment of the links between Urbanization, Biodiversity and Ecosystem Services

-  [Ecosystem Services from Environmental Stewardship that benefit agricultural production](#) (Natural England, Aug 2012)
-  [Costs and Benefits of Sustainable Drainage Systems](#) (Committee for Climate Change and Royal Haskoning, July 2012)
-  [Monitoring and modelling ecosystem services](#) (Natural England, Dec 2011)
-  [Measuring and Monitoring Ecosystem Services at the site-scale](#) (University of Cambridge, UNEP et al, 2011)
-  [Naturally, at your service: Why it pays to invest in nature](#) (RSPB, 2010)
-  [Securing a healthy natural environment; an action plan for embedding an ecosystem services approach](#) (Defra 2007)
-  [An introductory guide to valuing ecosystem services](#) (Defra 2007)

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## Food & Agriculture


-  [The role of cities in the transformation of food systems: sharing lessons from Milan pact cities](#) (Food and Agriculture Organization of the United Nations (FAO), 2018)
-  [Integrating Food into Urban Planning](#) (Food and Agriculture Organization of the United Nations (FAO), 2018)

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## Funding

### Actual funding sources

-  [LIFE+ funding](#); up to 60% funding, typical funding value €1-2m, calls open in April/May for application Sep/Oct
-  [HS2 Community #Fund](#) 4 #pedestrian #cycle #Landscape #nature #conservation #biodiversity #greenspace up to £1m per grant Groundwork UK, opened Jan 2017)
-  Guide to Countryside Stewardship: [woodland capital grants 2015](#) (Defra & Forestry Commission, Feb 2015)
-  [People's Trust for Endangered Species](#) Main grant is UK mammal grant £500 - £30,000. Deadline October 2015 – check next deadline online
-  [Bags of Help](#), Tesco/ Groundwork, up to £20k for community greenspaces, opens in April each year
-  [People's Postcode Trust](#) Applications biannually April & Oct. Grants ranging from £500-£10,000. The Trust acts within six fields of operation, including Health, Community Development and Environmental Protection. Phone 0131 555 7287 or [email](#)
-  [Heritage Lottery Fund: Parks for People](#) £250,000 to £5million. Parks for People offers grants for projects that regenerate public parks of national, regional or local heritage value. Application: 1 Sep & 29 Feb
-  [The Big Lottery Fund](#) (various) will give grants from £300 to over £500,000
-  Woodland Trust [Free Tree Pack](#) for Community & schools, apply in September










-  The North of England Horticultural Society (NEHS) [grants scheme](#) for community groups in the North of England

## Guidance where to get funding from

-  [Funding nature's recovery: how new public spending can unlock private investment](#) (green alliance; The National Trust, 2018)
-  [Engaging the Private Sector in Green Infrastructure Development and Financing: A Pathway Toward Building Urban Climate Resilience](#) (Climate Links, 2018)
-  [Rethinking parks –funding for parks and green Infrastructure](#) (NESTA, Feb 2016)
-  [Getting to Green: Paying for Green Infrastructure](#) - covers several funding mechanisms and is broadly transferable to the UK. (US Environmental Protection Agency, Dec 2014)
-  [NewcastleGateshead Green Infrastructure strategy \(Aug/Sep 2011\)](#); detailed section on funding sources for Green Infrastructure in annex H, pp. 130 -143
-  Natural England's Green Infrastructure guidance, [Funding section p79-89](#)
-  [potential funding for Community greenspaces](#) (DCLG Aug 2011)
-  [Paying for Parks](#) 8 Models for funding green space. (CABE 2006; full and summary version)
-  [Supplementary Guidance to Local Enterprise Partnerships \(LEPs\) on the Development and Delivery of the European Structural and Investment Fund Strategies](#) (EU SIF, July 2013) – makes specific reference to GI.
-  [Community Infrastructure Levy](#) (CIL) advice on the Planning Advisory Service webpage

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## Green Infrastructure guidance (general)























-  [North West Green Infrastructure guide](#) (hands on guide how to develop GI strategy; *and a supplementary technical document: [green Infrastructure mapping method](#) on the steps of data mapping, functionality and needs assessment*)
-  [Green Infrastructure by design –adding value to development](#) (partnership production, 2010)
-  [Natural England's Green Infrastructure guidance](#) (March 2009)
-  [Green Infrastructure focus - interactive map](#) (Mayor of London, 2019)
-  [Homes for people – how to build housing in a nature-friendly way](#) (The Wildlife Trusts, 2018)
-  [52 steps towards a greener city](#) (European Union, 2018)
-  [Incentives for Green Infrastructure Implementation on Private Property: Lessons Learned](#) (The Water Research Foundation, 2018)
-  [Delivering green infrastructure along linear assets. Scoping study](#) (CIRIA, 2018)
-  [Envisioning A Great Green City - Our Vision for a Sustainable Urban Century](#) (The Nature Conservancy, 2018)




-  [Green Infrastructure Mapping Guide](#) (National Oceanic and Atmospheric Administration (NOAA), 2018)
-  [Green Infrastructure Wizard - interactive web application](#) (US Environmental Protection Agency (EPA), 2018)
-  [PERFECT MAGIC Matrix - for a strategic approach to developing green infrastructure action plans](#) (Town and Country Planning Association (TCPA); PERFECT; Brillianto, 2018)
-  [NERC projects and programmes relevant to Green Infrastructure](#) (Mainstreaming Green Infrastructure; Northumbria University, 2018)
-  [maximising the benefits of green infrastructure in social housing](#) (Scottish Natural Heritage [SNH], 2018)
-  [Green Infrastructure - Menu of State Policy Options](#) - Benefits for State Legislators (US Green Building Council, 2018)
-  [Urban Green Infrastructure A foundation of attractive and sustainable cities](#) Pointers for municipal practice (Bundesamt für Naturschutz/ German Federal Agency for Nature Conservation, 2017)
-  [Greening the Grey: a framework for integrated green grey Infrastructure](#) (University of Glasgow, Oxford University, 2017)
-  [A Greener New York is a Safer New York](#) (New York Restoration Project, 2017)
-  [Translating Green Infrastructure research into decision making and practice](#) (Centre for Ecology & Hydrology, 2017)
-  [Review of the Natural Environment Research Council Green Infrastructure Innovation Programme](#) (Birmingham City University; Natural Environment Research Council, 2017)
  
-  [Garden City Standards for the 21st Century](#) - Practical Guides for Creating Successful New Communities guide 9: long-term stewardship (TCPA, Dec 2017)
-  Planning for green and prosperous places - [Garden City Standards for the 21st Century](#) - Practical Guides for Creating Successful New Communities (TCPA, Oct 2017)
-  [Green Infrastructure Checklist For Implementing a Successful Plan](#) (ESRI & ICMA, Oct 2017)
-  [Green Infrastructure designs scalable solutions to local challenges](#) (community toolkit) (Delta Institute, Sep 2017)
-  [Joining forces with active citizens to manage inclusive, biodiverse urban green infrastructure](#) (Greensurge, Sep 2017)
-  [Balancing environmental and social demands for urban green infrastructure](#) (Greensurge, Sep 2017)
-  [Identifying the dynamics between green spaces and human use to create sustainable urban green infrastructure](#) (Greensurge, Sep 2017)
-  [Uncovering the value of urban green infrastructure](#) (Greensurge, Sep 2017)
-  [What benefits does Green Infrastructure in Cities offer?](#) (Greensurge, Sep 2017)
-  [London Environment strategy](#) (draft) (Mayor of London, August 2017)
-  [Unlocking Alternative Ways Of Financing Urban Green Infrastructure By Getting A Better Grasp Of Its Diverse Values](#) (Greensurge, July 2017)

-  [Urban Green Infrastructure and Ecosystem Services](#) (POST - Parliamentary Office of Science and Technology, July 2017)
-  [A Green Infrastructure Guide for Small Cities, Towns and Rural Communities](#) (Green Belt & Green Infrastructure Ontario Coalition, June 2017)
-  [Tackling barriers to Green Infrastructure](#)- An audit of local codes and ordinances (Sea Grant University of Wisconsin, 2017)
-  [Green Infrastructure in Parks](#) - resource guide for planning, designing and implementing (National Recreation and Park Association, 2017)
-  [Planning and Implementing Living Infrastructure in the Australian Capital Territory](#) (Canberra Urban and Regional Futures & University of Canberra, May 2017)
-  [A Green Network Strategy for the Glasgow City Region](#) (GCV Green Network, 2017)
-  [Green Infrastructure - A Practitioner's Guide](#) (Centre for Science and Environment & Indian Ministry of Housing and Urban Affairs, 2017)
-  [Delivering Green Infrastructure along linear assets](#) – scoping study (CIRIA, 2017)
-  [Green Infrastructure: Engineering to Benefit Business and Biodiversity](#) - Living solutions to environmental challenges on corporate lands (Wildlife Habitat Council, 2017)
-  [Community Project Toolkit](#) (Groundwork) (Groundwork UK, 2017)
-  [Green Infrastructure developers guide](#) –case studies, benefits, cost comparison with grey infrastructure (New Jersey Future, New Jersey Builders Association, from 2017)
-  [Greening the city regions Opportunities for new metro mayors](#) (Campaign for better Transport, National Trust, Green Alliance, CPRE, The Wildlife Trusts, May 2017)
-  [Development of Green Infrastructure in EU regions](#) - Nature-based solutions delivering multiple benefits (Interreg Europe/ European Commission, May 2017)
-  [Green infrastructure - a vital step to brilliant Australian cities](#) (AECOM, May 2017)
-  [Green Infrastructure in Parks: A Guide to Collaboration, Funding, and Community Engagement](#) (US EPA, May 2017)
-  [Exploring the Green Infrastructure workforce](#) – a natureworks issue brief (Jobs for the Future, April 2017)
-  [Nature-based solutions for sustainable urban development](#) (ICLI, March 2017)
-  [Interactive map - Green infrastructure indicators - characterise green infrastructure at the city level and in the peri-urban area](#) (European Environment Agency, Mar 2017)
-  [Green Infrastructure effectiveness database](#) - compilation of literature resources documenting the effectiveness of using green infrastructure to reduce impacts from coastal hazards (US National Oceanic and Atmospheric Administration NOAA, 2017)
-  [Green Infrastructure – a prospectus for lowland Derbyshire and Nottinghamshire](#) - investing in natural capital for the benefit of the economy, people and nature (Lowland Derbyshire and Nottinghamshire Local Nature Partnership, Jan2017)
-  [Green laneways online guide](#) (ARUP, City of Melbourne, from 2017)
-  [Review of the Natural Environment Research Council Green Infrastructure Innovation Programme](#) (University of Birmingham/ NERC, Dec 2017)


















- [Urban green infrastructure planning: strategic choices for a better quality of life in the city –the basics](#) (Greensurge, October 2016)
-  [Vision and Principles for the Improvement of Green Infrastructure](#) in Buckinghamshire and Milton Keynes (BUCKINGHAMSHIRE AND MILTON KEYNES NATURAL ENVIRONMENT PARTNERSHIP, Sep 2016)
-  [Green Infrastructure – Research into Practice](#) (UWE, August 2016)
-  [City Green: Innovative Green Infrastructure Solutions for Downtowns and Infill Locations](#) [www.epa.gov/smartgrowth/city-green-innovative-green-infrastructure-solutions-downtowns-and-infill-locations](http://www.epa.gov/smartgrowth/city-green-innovative-green-infrastructure-solutions-downtowns-and-infill-locations) (US EPA; May 2016)
-  [Supporting the Implementation of Green Infrastructure](#) (European Commission, May 2016)
-  [London global green city](#), (IPPR, April 2016)
-  [City Parks, Clean Water - Making great places using green infrastructure](#) (Trust for Public Land, March 2016)
-  [Updated GI guidance](#) (DCLG, Feb 2016)
-  [Green Capital Green Infrastructure for a future city](#) - Green Infrastructure for a future city (Mayor of London, Natural England, Cross- River partnership, 2016)
-  [Advanced urban green infrastructure planning and implementation](#) (Greensurge, April 2016)
-  [Report On The Potential For Integrating Monetary And Non-Monetary Valuation Of Urban Ecosystem Services](#) (Greensurge, 2016)
-  [Iterative place-based knowledge gathering in Urban Learning Labs](#) (Greensurge Jan 2016)
-  [Innovative Governance Of Urban Green Spaces](#) (Greensurge, 2016)
-  [Interaction Of Biological And Cultural Diversity Of Urban Green Spaces](#) (Greensurge, Dec 2015)
-  [Integrating Green Infrastructure Ecosystem Services Into Real Economies](#) (Greensurge, Oct 2015)
-  [Cash Flows Generated By Urban Green Spaces](#) (Greensurge, Oct 2015)
-  [Local Learning Alliances established in five Urban Learning Labs](#) (Greensurge, Aug 2015)
-  [Green Infrastructure Planning And Implementation](#) (Greensurge, March 2015)
-  [A Typology Of Urban Green Spaces, Ecosystem Provisioning Services And Demands](#) (Greensurge, 2015)
-  [Green Infrastructure and the Sustainable Communities Initiative](#) (US Department of Housing, Feb 2015)
-  [Green Bridges – technical guidance note](#) (Landscape Institute, December 2015)
-  [Spatial analysis of green infrastructure in Europe](#) (European Environment Agency, Mar 2014)
-  [Cities Alive - Rethinking Green Infrastructure](#) (ARUP 2014)
-  [Green Infrastructure in the energy sector](#) (European Commission, 2014)
-  [Green City Guidance](#) (International Association of horticultural producers, 2014)
-  [Getting to Green: Paying for Green Infrastructure - Financing Options and Resources for Local Decision-Makers](#) (US Environmental Protection Agency EPA, 2014)

-  [Atlanta BeltLine - 2030 STRATEGIC IMPLEMENTATION PLAN](#) FINAL REPORT (Atlanta Beltline, Dec 2013)
-  [National Planning Practice Guidance](#) (DCLG, August 2013) - The sections on [Biodiversity, ecosystems and green infrastructure](#) supports the National Planning Policy Framework policy on these work areas should be taken into account in plan-making and decision-taking on planning applications. Some of the sections on [Climate change adaptation](#) and the [Open space, green space and rights of way](#) section may be particular relevant in the context of GI.
-  [Enriching our Society through Natural Solutions](#) (CEEweb for Biodiversity and ECNC, 2013), focussing on why and how to make GI projects a sustainable answer to ecological, social and economic problems.
-  [The case for Green infrastructure](#), joint industry white paper (Nature Conservancy, 2013)
-  [Building a Green Infrastructure for Europe](#) (EC, 2013)
-  The Natural Choice: securing the value of Nature ([Natural Environment White Paper](#); Defra; June 2011; provides strong support for the concept of Green Infrastructure )
-  [Green Infrastructure Audit - Best Practice Guide](#) (Natural England & Arup, Oct 2013) – experience from the Victoria Business Improvement District
-  [Urban Green Infrastructure](#), Parliamentary Office of Science & Technology (November 2013)
-  [Planning naturally – Spatial planning with nature in mind: in the UK and beyond](#) (RSPB, CIEEM and RTPI, July 2013). The report is structured around 12 principles of good spatial planning, illustrated with case studies from the UK and abroad, capturing a broad range of issues critical in the planning system.
-  [Green Infrastructure: An integrated approach to land use](#) (*Landscape Institute position statement, May 2013*)
-  ['Green Infrastructure – Enhancing Europe's Natural Capital'](#), (European Commission, May 2013) sets out a concept for a European-wide GI strategy.
-  [Planning for a healthy and natural environment, good practice for green infrastructure and biodiversity](#) (The Wildlife Trusts and TCPA July 2012)
-  [The multifunctionality of Green infrastructure](#), (European Commission, March 2012)
-  [National Planning Policy Framework](#) (DCLG, March 2012)
-  [Green Infrastructure Implementation and Efficiency](#) (European Commission 2012)
-  [Smart and Green - The Future of Visegrad Cities](#) (CEEweb, 2012)
-  [Local Green Infrastructure](#) - Helping communities make most of their landscape (Landscape Institute Sep 2011)
-  [Green Infrastructure and Territorial Cohesion](#) - Technical Report (European Environment Agency 2011) - on the concept of GI and its integration into policies using monitoring systems
-  [Design, Implementation and Cost Elements of Green Infrastructure Projects](#) (EC, 2011)
-  [London Garden City?](#) From green to grey; observed changes in garden vegetation structure in London (London Wildlife Trust, 2011)
-  [Multifunctional Urban Green Infrastructure](#) (CIWEM, May 2010)
-  [The essential role of Green Infrastructure](#) (*TCPA and DCLG, Sep 08*)

-  ["Putting the green in the grey" - Creating sustainable grey infrastructure](#): A guide for developers, planners and project managers (NENW, 2007)
-  [Natural England GI pages](#) (archived June 2014)
-  [New York City Green Infrastructure Co-Benefits Calculator](#) (City of New York, 2000)


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## Green Infrastructure policy examples (core strategies and Local Plans)



-  Cambridgeshire City Council – Policy 31: Integrated water management and the water cycle (incl. SUDS) in [Local Plan](#) submission (March 2014)
-  [Thurrock Core Strategy](#) (adopted Dec 2011 –local Plan for consultation 2014)
  - P51-55; CSSP4 – sustainable green belt; and pp. 56-59 CSSP5 – sustainable green grid
-  [St Edmundsbury Borough Council Local Plan submission](#) (June 2013, section 5 – assessment of concept plans, Policy BV27 Green Infrastructure)
-  [Plymouth Local Plan](#) (adopted Sep 2015) – *Theme 3 Green city; Policy 6 Enhancing Plymouth's role in maintaining the south west's special natural environment; Policy 14 'Optimising the health and wellbeing benefits of the natural environment.'*
-  London Borough of Hounslow Local Plan (adopted Sep 2015) [chapter 7 Green and Blue infrastructure](#)
-  Cheshire East Council Local Plan submission – [policy SE6: Green Infrastructure](#) (March 2014)
-  Hastings BC Local Plan (adopted Feb 2014) – [chapter protecting environment](#) POLICY EN2: Green Infrastructure Network
-  [Dover District Land Allocations Pre-Submission Local Plan](#) (Jan 2014) ss. 2.30-2.36 Green Infrastructure
-  [Liverpool Local Plan](#) Green Infrastructure policy, Developer contributions SPD and Design for Access for all SPD (Dec 2013)
-  [Cambridgeshire City Council](#) – Policy 27: on SUDS (Local Plan submission; July 2013)
-  [Manchester Local Plan](#) - core strategy: GI policy (2012)
-  [Trafford Planning Obligations SPD](#) –*good practice example of securing Green Infrastructure through planning obligations (adopted Feb 2012)*
-  [Rossendale DC Core Strategy DPD](#) (adopted 2011); Policy 17 Green Infrastructure
-  [North Northamptonshire Core Strategy](#) adopted June 2008 Policy 5: The Green Framework; Policy 16: Sustainable Urban Extensions
-  [Planning for places - Delivering good design through core strategies](#) (CABE 2009)

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## Examples of GI strategies and action plans

-  [Planning for a healthy environment – good practice guidance for green infrastructure and biodiversity](#) - A list of 'model policies and approaches' can be found in annex c (TCPA & TWT, July 2013)

## Regional

-  [New South Wales green infrastructure policy](#) (draft) (New South Wales Government, Nov 2017)
-  [South East GI framework](#) (June 2009)

## Sub-regional

-  [South Yorkshire GI Strategy](#) (2011)
-  [Leeds City Region: GI Strategy](#) (Aug 2010)
-  [Leeds City Region Green and Blue Infrastructure Strategy 2017-2036](#) (Leeds City Region, 2017)
-  [All London Green Grid](#) – policy framework to promote the design and delivery of ‘green infrastructure’ across London (Greater London Authority, 2015)
-  [Mersey Forest Plan](#) (Mersey Forest, 2014) for Merseyside & Cheshire focusing on trees and woodland
-  [Tees Valley GI strategy](#) final version (2008)
-  [6Cs Growth Point Green Infrastructure Strategy](#) (East Midlands Growth Points, 2010)
-  [Liverpool City Region and Warrington Green Infrastructure Framework Action Plan](#) (Sep 2013)
-  [Green Infrastructure and open environments](#): the all London green grid supplementary planning guidance (Greater London Authority, March 2012)
-  [Mersey Dee Alliance](#) Green Infrastructure spatial framework covering NE Wales, Cheshire & Wirral







## Local Authority

-  [Birmingham Tree Policy](#) (Birmingham City Council, 2018)
-  [Telford and Wrekin Local Plan 2011- 2031](#) (Telford & Wrekin Council, 2018) – example of ecological/ GI networks
-  [New York City Green Infrastructure annual report](#) (City of New York, 2018)
-  [Salford: A Green City - Salford City Council's Green City Programme](#) (Salford City Council; Salford Vision, 2018)
-  [Leicester Landscape Sensitivity and Green Infrastructure Study](#) (Leicester County Council, Oct 2017)
-  [North Lanarkshire GN Opportunities Mapping](#) (GCVCN, Dec 2015)
-  [East Dunbartonshire Rural Opportunities Mapping](#) (GCVCN, Nov 2015)
-  [Test Valley DC Green Infrastructure Strategy](#) (July 2014)
-  [Green Network Opportunity Mapping Glasgow City](#) (GCVCN, Feb 2014)
-  [Worcestershire Green Infrastructure Framework](#) ~ 4 pdf (Worcestershire County Council, Natural England, Forestry Commission, 2008-2014)
-  [Dover District Green Infrastructure Strategy](#) (January 2014)
-  [New York City Green Infrastructure Plan](#) (NYC, 2013), including information on green roof tax

-  [Bath and North East Somerset GI strategy](#) (Nov 2012)
-  [North East Derbyshire GI Study](#) (March 2012)
-  [Green Infrastructure in South Worcestershire: Mainstreaming the Concept](#) – (Natural England, February 2012) Understanding and applying the principles of GI in South Worcestershire.
-  [Liverpool Green Infrastructure strategy](#) (2012) and [Action Plan](#)
-  [Hastings BC Green Infrastructure Study](#) (Dec 2012)
-  [Sedgemoor GI strategy](#) (May 2011)
-  [Stockton GI Strategy](#) (2011)
-  [Cambridgeshire County Council GI strategy](#) (June 2011)
-  [New York City Green Infrastructure Plan](#) – a sustainable strategy for clean waterways (New York City, 2011cf)
-  [St Edmundsbury GI strategy](#) –including ‘information pack’ of [guidelines for developers and planners](#) (Sep 2009)
-  [Bedfordshire and Luton GI plan](#) (Feb 2007)








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## GI strategy development

-  [North West Green Infrastructure guide](#) (hands on guide how to develop GI strategy; *and a supplementary technical document: [green Infrastructure mapping method](#) on the steps of data mapping, functionality and needs assessment*)
-  [Natural England's Green Infrastructure guidance](#) (March 2009)
-  [Nature Positive Local Plans](#) (Wildlife Trusts & RSPB, May 2015)
-  [Green Infrastructure Audit - Best Practice Guide](#) (Natural England & Arup, Oct 2013) – experience from the Victoria Business Improvement District
-  [Planning for a healthy and natural environment, good practice for green infrastructure and biodiversity](#) (The Wildlife Trusts and TCPA July 2012)
-  [The essential role of Green Infrastructure](#) (TCPA and DCLG, Sep 2008)

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## Greenbelt

-  [Landscape Briefing –Green Belt Policy](#) (Landscape Institute, 2018)
-  [Nature Conservation and Recreational Opportunities in the Green Belt](#) (CPRE, Dec 2016)
-  [Ontario's Good Fortune: Appreciating the Greenbelt's Natural Capital](#) (Green Belt Canada, Oct 2016)
-  [The Green Belt: A Place for Londoners?](#) (London First & SERC, Feb 2015)
-  [Oxfordshire Greenbelt Study](#) (Oxfordshire County Council, Oct 2015)
-  [In defence of the greenbelt](#) – paper by Dieter Helm, (Oxford University April 2015)
-  [STRATEGIC GREEN BELT FUNCTIONALITY STUDY](#) (North East Derbyshire DC; 2014)

-  [Thurrock Core Strategy](#) (adopted Dec 2011) pp. 51-55; CSSP4 – sustainable green belt)
-  [Green Belts: a greener future.](#) (CPRE and Natural England, 2010)
-  [Economic value of Toronto's Greenbelt, Canada](#) (TEEB case study 2010)





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## Green roofs and walls

















-  [The International Greenroof & Greenwall Projects searchable Database with 1600+ projects](#) (Greenroofs, from 2017)
-  [Green roof as flood mitigation measure: how to improve performance](#) (European Commission, Dec 2015)
-  [Green walls' economic sustainability assessed](#) (EC, Feb 2014)
-  [Green roof design guidelines: Maximising ecosystem service provision through regional design for biodiversity](#) (TURAS 2013)
-  [Creating Green Roofs for invertebrates](#) (Buglife 2012)
-  [Effectiveness of Green Infrastructure for Improvement of Air Quality in Urban Street Canyons](#) (scientific publication in Environmental Science and Technology June 2012)
-  [The GRO Green Roof Code](#) (EA & Groundwork Sheffield, 2011)
-  [Green Roof case studies](#) (City of London, Nov 2011)
-  [Living Roofs and Walls](#), GLA, Feb 2008
-  [Cost Benefit Evaluation of Ecoroofs](#) (City of Portland, 2008)
-  [Guidelines for the Planning, Construction and Maintenance of Green Roofing](#) (chargeable updated; FLL, 2008)
-  [Guidelines for the Planning, Execution and Up-Keep of Green-roof sites](#) (Free; FLL, 2002)

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## Greenspace management /Green Infrastructure skills








-  [3<sup>rd</sup> State of Scotland's Greenspace Report](#) (Greenspace Scotland, Feb 2018)
-  [Food Growing in Parks - A guide for councils](#) (Sustain, 2018)
-  [Future Parks A toolkit to help build a sustainable future for parks and green spaces](#) (The National Trust, 2018)
-  [Scotland's People Annual Report: Results from the 2017 Scottish Household Survey](#) (The Scottish Government, 2018)
-  [Walking in urban parks and green spaces](#) (Town and Country Planning Association TCPA; The Ramblers, 2018)
-  [Revaluing Parks and Green Spaces ~Measuring their economic and wellbeing value to individuals](#) (Fields in Trust, 2018)

-  [State of the Market Survey 2018 Local Authority Parks and Green Spaces Services](#) (APSE, 2018)
-  [Greenspace Use and Attitudes Survey 2017](#) (Greenspace Scotland, Scottish Natural Heritage, Central Scotland Green Network Trust, Nov 2017)
-  [Public parks](#) (House of Commons, Communities and Local government Committee, 7<sup>th</sup> report of session 2016-17, Jan 2017)
-  [Creating a lasting legacy of community green spaces across Canada.](#) (TD GreensSights, Sep 2017)
-  [FUTURE OF PUBLIC PARKS: POLICY, PRACTICE AND RESEARCH CONFERENCE REPORT](#) (Parks Alliance, Groundwork et al, July 2017)
-  [Good parks for London](#) (Parks for London, 2017)
-  [Living Architecture Performance Tool](#) (Green Infrastructure Foundation, 2017)
-  [UK green space data & green space map](#) (Ordnance Survey, June 2017)
-  [Future Parks toolkit](#) (National Trust, launch: Oct 2016)
-  [The Hidden Value of Green Spaces](#) (The Land Trust, Jan 2017)
-  [Neighbourhood Planning: Local Green Spaces](#) (My Community, 2017)
-  [Green Places - Putting the local environment at the heart of the devolution agenda](#) (Fabian Society, Sep 2016)
-  [Green Spaces, great places](#) –annual review 2015-2016 (Land Trust, Sep 2016)
-  [The Value of Our Green Spaces](#) (The Land Trust, Jan 2016)
-  [State of the UK's Public Parks](#) (HLF, 2016)
-  [Community ownership and management of parks and green spaces](#) (COMA, 2016)
-  [The Value of our Green Spaces](#) (Land Trust, Jan 2016) Greenspaces
-  [Good Verge Guide: a different approach to managing our waysides and verges](#) (Plantlife, 2016)
-  [Perceptions Survey and Social Value Study](#) –greenspace study, (The Land Trust, Dec 2015)
-  [Local Spaces: Open Minds](#) - managing commons and other green spaces (Chilterns Conservation Board, March 2015)
-  [The value of City of Edinburgh Council's parks](#) (The City of Edinburgh Council, 2015)
-  [Places to be - Green spaces for active citizenship](#) (Fabian Society, Groundwork, Keep Britain Tidy, RSPB, Woodland Trust, March 2015)
-  [A brief guide to the benefits of urban green space](#) (University of Leeds, 2015)
-  [Public Spaces/Private Money](#) (The Trust for Public Land, Feb 2015)
-  [Park Land: How open data can improve our urban green spaces](#), Policy Exchange (Nov 2013)
-  [Green Spaces: The Benefits for London](#) (City of London, July 2013)
-  [Trees or turf](#) looks at how authorities can save money by converting amenity grassland to woodland (Woodland Trust, May 2011)
-  [the green space factor and the green points system \(GRaBS Expert Paper 6\)](#) (Town and Country Planning Association TCPA; GRABS, 2011)
-  [Managing Green Spaces](#) (CABE Dec 2010)

-  [Blue Sky Green Space](#) (Green Link, Oct 2010) The report “Understanding the Contribution Parks and Green Spaces can make to Improving People’s Lives
-  [Urban green nation - Building the evidence base](#) (CABE, 2010)
-  [Methuselah: A Monitoring and evaluation strategy for Greenspace](#) (Forest Research, 2009)
-  [Green space skills](#) 2009 National employer survey findings (CABE, 2009)
-  [Skills to grow: Seven priorities to improve green space skills](#) (CABE, 2009)
-  [The green information gap: mapping the nation’s green spaces](#) (CABE space, 2009)
-  [Making the invisible visible: the real value of park assets](#) (CABE space, 2009)
-  [Greenspace and quality of life: A critical review](#) (Scottish Natural Heritage and Sniffer, 2008)
-  [It’s More Than Just the Park: Facilitators and Barriers to the Use of Urban Greenspace](#) (Medical Research Council, NHS Greater Glasgow and Clyde, Glasgow Centre for Population Health, 2008)
-  [How Much Value Does the City of Philadelphia Receive from its Park and Recreation System?](#) (Philadelphia Parks Alliance, 2008)
-  [Green buffers for screening & noise reduction](#) (Georgia Forestry Commission, 2008)
-  [Parks, People and Nature A guide to enhancing natural habitats in London’s parks and green spaces in a changing climate](#) (Mayor of London, Natural England, 2008)
-  [Greenspace Establishment on Brownfield land: the site selection and investigation process](#) (Forest Research, 2007)
-  [Enhancing urban green space](#) (National Audit Office, 2006)
-  [Start with the park. Creating sustainable urban green spaces in areas of housing growth and renewal.](#) (Commission for Architecture and the Built Environment (CABE), 2005)
-  [Creating Sustainable Communities: Greening the gateway. A greenspace strategy for Thames Gateway](#) (Defra,2004)
-  [Neighbourhoods Green toolkit](#) covers everything from understanding your legal responsibility as a landlord, risk management and involving residents in the care of trees.

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## Greenspace standards























-  [Nature Nearby - Accessible Natural Greenspace Guidance](#) (archived; Natural England 2010)
-  [Accessible Natural Greenspace Standard](#) (ANGSt) (archived; Natural England)
-  [Methods used to appraise and/or access an area for Green Infrastructure](#) (Telford Access to Nature Partnership Project May 2013)
-  [Local Nature Reserves in England: A guide to their selection and declaration](#) (Natural England 2010)
-  [Space for people](#) - Woodland Trusts standard for accessible woodlands, including data for all local Authorities (Woodland Trust 2010)
-  [Green Flag award](#) (Keep Britain Tidy)
-  [Country Park accreditation scheme](#) (Natural England)



























## Health

-  [Green Infrastructure and health](#) – factsheet 1 (PERFECT, TCPA, 2018)
-  [Essentials Guide - Sustainable Management of Natural Resources and our Well-being](#) (Welsh Government, 2018)
-  [Demystifying Health](#) (Valuing Nature Network, 2018)
-  [Creating healthier places and spaces for our present and future generations](#) (NHS Wales, 2018)
-  [nature4Health Impact report](#) (Community Forest Trust; The Mercy Forest, 2018)
-  [A systematic review of outdoor recreation \(in green space and blue space\) for families to promote subjective wellbeing](#) (What works Wellbeing; Brunel University London; Anglia Ruskin University; University of Winchester; The London School of Economics, 2018)
-  [Assessing the relationship between subjective wellbeing and spending time with family in the outdoors](#) (What works Wellbeing; Brunel University London; Anglia Ruskin University; University of Winchester; The London School of Economics, 2018)
-  [Family and outdoor recreation - briefing](#) (What works Wellbeing; Brunel University London; Anglia Ruskin University; University of Winchester; The London School of Economics, 2018)
-  [health, wealth and happiness –the multiple benefits of green infrastructure](#) (Town and Country Planning Association (TCPA); PERFECT, 2018)
-  [Outdoor learning: closing the attainment gap in primary schoolchildren in Scotland](#) (Forest Research, 2018)
-  [Promoting healthy weight in children, young people and families: A resource to support local authorities](#)  
(Public Health England (PHE); Local Government Association; Association of Directors of Public Health, 2018)
-  [Putting Health into Place - Introducing NHS England's Healthy New Towns programme](#) (NHS England; Town and Country Planning Association (TCPA); the kings Fund; The Young Foundation; Public Health England (PHE), 2018)
-  [Nature and mental health](#) (Mind, 2018)
-  [Green Infrastructure & Health Guide](#) (Oregon Health and Outdoors Initiative, 2018)
-  [Health and the natural environment: A review of evidence, policy, practice and opportunities for the future](#) (University of Exeter; European Centre for Environment & Human Health, 2018)
-  [Securing constructive collaboration and consensus for planning healthy developments-](#) A report from the Developers and Wellbeing project (TCPA, 2018)
-  [Physical activity and the environment](#) – NICE guidance (Public Health England, 2018)
-  [Planning for health and well-being in Wales:](#) A briefing on integrating planning and public health for practitioners working in local planning authorities and health organisations in Wales (TCPA, Wales Health Impact Assessment Support Unit, Public Health Wales, 2016)

-  [Creating health promoting environments](#) – Guidance for delivering new Garden Cities (TCPA, Dec 2017)
-  [The adult health and social care crisis – green infrastructure as part of the solution](#) (the National Forest & TCPA, in: Town and Country Planning Oct 2017)
-  [Promoting Education and Jobs to Enhance the Use of Urban Blue and Green Infrastructure for Health and Fitness](#) (Urban Design Promote Educate Health & TU Darmstadt, Sep 2017)
-  [10 minutes brisk walking each day in mid-life for health benefits and towards achieving physical activity recommendations](#) - Evidence Summary (Public Health England, Aug 2017)
-  [Healthy Planning and Regeneration: innovations in community engagement, policy and monitoring](#) (BRE, Aug 2017)
-  [Spatial planning for health -An evidence resource for planning and designing healthier places](#) (Public Health England, June 2017)
-  [The cost-effectiveness of addressing public health priorities through improved access to the natural outdoors](#) (Valuing Nature, Aug 2017)
-  [The health and wellbeing impacts of volunteering with The Wildlife Trusts](#) (University of Essex & The Wildlife Trusts, June 2017)
-  [Transforming Mental Health & Dementia Provision with the Natural Environment](#) – conference report and presentations (Centre for Sustainable Healthcare, May 2017)
-  [Biodiversity, Health and Wellbeing in Cornwall's Public Open Space](#) (University Exeter March 2017)
  -  [Card 1 – Natural environments and human health: an overview](#)
  -  [Card 2 – Promoting green space access](#)
  -  [Card 3 – Designing for green space sustainability](#)
  -  [Card 4 – Enriching experience through green space design](#)
-  [Reconomics Plus The Economic, Health and Social Value of Outdoor Recreation](#) (Sport & Recreation Alliance; Feb 2017)
-  [Good practice in social prescribing for mental health: the role of nature-based interventions](#) (Natural England; Jan 2017)
-  [Nature for health and Equity](#) (Institute for European Environmental Policy IEEP; Friends of the Earth Europe, 2017)
-  [The Place Standard tool](#) (NHS Health Scotland, 2017)
-  [Urban green spaces: a brief for action](#) (World Health Organisation, 2017)
-  [Fun and Fitness in the Forest](#) - Monitoring and evaluation of the three-year Active Forest pilot programme (Forest Research, 2017)
-  RAPID REVIEW: [Nature-based activities and wellbeing](#) (North Wales Wildlife Trust & Bangor University, 2017)
-  [Walking with Danni - Health and Wellbeing video case study](#) (Groundwork UK, 2017)
-  [Urban green space interventions and health: A review of impacts and effectiveness](#) (WHO, 2017)

-  [Monitor of Engagement with the Natural Environment](#) (MENE 2015/1 Report) (Natural England, 2017)
-  [Spatial Planning for Health- An evidence resource for planning and designing healthier places](#) (Public Health England, 2017)
-  [Public Health Outcomes Framework - Improving outcomes and supporting transparency](#) (Department for Health, 2016)
-  [Building the Business Case: Health, Wellbeing and Productivity in Green Offices](#) (World Green Building Council, Oct 2016)
-  [Nature4Health: Year 1 Impact Report](#) (Mersey Forest, Nov 2016) DLD providing five different evidence-based activities, from group walking to mindfulness, all taking place in a green, therapeutic environment.
-  [A healthier future, with a little help from our nature Green infrastructure integration into the health sector](#) (CEEweb, Dec 2016)
-  [Urban green spaces and health - a review of evidence](#) (WHO, Nov 2016)
-  [Green Space and Health](#) (Parliamentary Office of Science and Technology, Oct 2016)
-  [Greener cities and more exercise could dramatically reduce urban mortality rates](#) –Science for Environment Policy Note (European Commission, Oct 2016)
-  [Gardens and health - Implications for policy and practice](#) (Kings Fund, May 2016)
-  [Evidence Statement on the links between natural environments and human health](#) (Defra, University of Exeter, European Centre for Environment & Human Health, Sep 2016)
-  [The Health & Social Benefits of Nature & Biodiversity Protection](#) (IEEP, Friends of the Earth, April 2016)
-  [The direct and indirect contribution made by The Wildlife Trusts to the health and wellbeing of local people](#) (University of Essex & The Wildlife Trusts, Feb 2016)
-  [Green Infrastructure - a Catalysts of Wellbeing for Future Generations](#) (Wildlife Trust Wales, March 2016)
-  [Is it nice outside? Consulting people living with dementia and carers about engaging with the natural environment](#) (Natural England, Dementia Adventure, the Mental Health Foundation and Innovations in Dementia, March 2016).
-  [How does living near to green space affect death risk?](#) (EC, Feb 2016)
-  [Investigating the potential increase in health costs due to a decline in access to greenspace: an exploratory study](#) (Natural England, Feb 2016)
-  [A review of nature-based interventions for mental health care](#) (Natural England, Feb 2016)
-  [Building the Foundations: tackling obesity through planning and development](#) – Lessons from the TCPA ‘Planning healthy weight environments’ workshops (TCPA, Local Government Association, Public Health England, 2016)
-  [Delivering sustainable healthy homes and communities in Northern Ireland](#) (TCPA, Belfast Healthy Cities, Northern Ireland Housing Executive)
-  [Public Health in Planning- Good Practice Guide](#) (TCPA, 2015)
-  [Wellbeing benefits from natural environments rich in wildlife](#) (University of Essex & The Wildlife Trusts, Sep 2015)







-  [Cities, Green Infrastructure & Health, Landscape Institute](#), July 2015
-  [Prescribing Green Space - is it important?](#) (Centre for Sustainable Healthcare, 2015)
-  [The evidence base for the linkages between Green Infrastructure, public health and economic benefit](#) (University of Victoria, 2015)
-  [Natural Solutions to Tackling Health Inequalities](#) (UCL Institute of Health Equality, Oct 2014)
-  [Green Health](#) (Scottish Government & James Hutton Institute, Feb 2014)
-  [Natural Solutions to Tackling Health Inequalities](#) highlights the evidence of the benefits of green spaces to health and wellbeing outcomes, and the inequalities in use of, and access to, natural environments across England. (UCL Institute of Health Equity, 2014)
-  [Active Planning toolkit](#) (NHS Gloucestershire – Feb 2014) to help professionals create buildings and natural environments that support people to get more active
-  [Physical Activity and the Rejuvenation of Connswater](#)– socio-economic case studies & findings (PARC, 2014)
-  [Tree and forest effects on air quality and human health in the United States](#) (USDA Forest Service 2014)
-  [planning healthy weight environments](#) –a TCPA reuniting health with planning project (TCPA, Public Health England, 2014)
-  [Natural solutions for tackling health inequalities](#) (University College London, 2014)
-  [Promoting health, preventing disease: is there an economic case?](#) (World Health Organisation WHO; Organisation for Economic Co-operation and Development OECD; European Observatory on Health Systems and Policies, 2013)
-  [planning healthier places](#) – report from the reuniting health with planning project (TCPA, PHE, 2013)
-  [Improving the public's health](#) - A resource for local authorities (The King's Fund; Dec 2013)
-  [Public health and landscape: creating healthy places](#) (Landscape Institute, Nov 2013)
-  [Greening Dementia](#) (Natural England; November, 2013)
-  [Green space quantity, stress and wellbeing](#) (Scottish Government / greenspace Scotland; Oct 2013)
-  [Walking works](#) - Making the case to encourage greater uptake of walking as a physical activity and recognise the value and benefits of Walking for Health (Walking for health, 2013)
-  [Woods for Health](#) Strategy & Action Plan for Scotland & hospital greenspace case studies (Forestry Commission, 2013)
-  [Linking environment and health](#) (London Climate Change Partnership, Nov 2012)
-  [reuniting health with planning –healthier homes, healthier communities](#) (TCPA, 2012)
-  [‘Health and Natural Environments – an evidence-based information pack’](#). (Natural England 2012)
-  [Natural Childhood](#) (National Trust, 2012) a report about “nature deficit disorder” and what to do about it
-  [Learning in the Natural Environment: Review of social and economic benefits and barriers](#) (Natural England May 2012)

-  [Greenspace design for health and wellbeing](#), practice guide (Forestry Commission 2012)
-  [Managing Risk in Play Provision](#): Implementation guide (Play England, 2012)
-  [Woods for Health on Kinnoull Hill Perth](#), case story on the social return on investing in Green Infrastructure Greenspace Scotland (July 2011)
-  [Green Exercise Programme Evaluation](#) (Natural England, 2011)
-  [Community green: using local spaces to tackle inequality and improve health](#) (CABE 2010; archived)
-  [Play Shaper Evaluation report](#) evaluation of the programme aimed at helping local authorities to provide child-friendly communities (Play England, 2010)
-  [Urban health and health inequalities and the role of urban forestry](#) – literature review (Forestry Commission 2010)
-  [Great outdoors](#): How Our Natural Health Services Uses Green Space to Improve Wellbeing (Faculty of Public Health and Natural England 2010)
-  [Urban Green Nation](#) (CABE 2010) research commissioned by CABE Space to gauge the state of England's urban green space and its impact on people's health and well-being.
-  [Urban health and health inequalities and the role of urban forestry in Britain](#): a review (Forest Research, 2010)
-  [Greenspace and Health Outcomes Framework](#) (Greenspace Scotland, 2010)
-  [The Marmot Review: Fair society, healthy lives](#) (IDea, 2010)
-  [Nature play: Maintenance guide](#) (Play England, Aug 2009)
-  [Our Natural Health Service](#) (Natural England health manifesto, July 2009)
-  [New Horizons: towards a shared vision for mental health](#) - consultation (HM Government, 2009)
-  [Be Active, Be Healthy: A plan for getting the nation moving](#) (HM Government, 2009)
-  [Green space access, green space use, physical activity and overweight](#): a research summary. (Natural England, 2009)
-  [Future health: sustainable places for health and well-being](#) - summary (Commission for Architecture and the Built Environment (CABE), 2009)
-  [An estimate of the economic and health value and cost effectiveness of the expanded WHI scheme 2009](#) (Natural England, 2009)
-  [A future vision for mental health](#) (The future vision coalition, 2009)
-  [Inclusive Planning & health pages](#) (RTPI)
-  [Design for Play - A guide to creating successful play spaces](#) (Play England 2008)
-  [Future health sustainable places for health and well-being](#); Explaining how good design makes healthy places (archived; CABE 2009)
-  [Better Places to Play through Planning](#) (Play England; December 2009).
-  [Health Impact Assessment of greenspace](#) - A Guide. (Greenspace Scotland, 2008)
-  [Physical activity and mental health: the role of physical activity in promoting mental well-being and preventing mental health problems](#) (Health Scotland, University of Glasgow, 2008)
-  [Health effects of climate change in the UK](#) 2008: An update of the Department of Health report 2001/2002 (Health Protection Agency, Department of Health, 2008)

-  [Health, place and nature - How outdoor environments influence health and well-being: a knowledge base](#) (Sustainable Development Commission, 2008)
-  [Mental Capital and Wellbeing: Making the most of ourselves in the 21st century](#) (Lancaster University, Government Office for Science, 2008)
-  [Ecotherapy: The Green Agenda for Mental Health](#) (Mind, 2007)
-  [Returning urban parks to their public health roots](#) (Manchester University and John Moores University, 2007)
-  [Health effects of climate change in the UK 2012](#) - Current evidence, recommendations and research gaps (Health Protection Agency, European Centre for Environment and Human Health, University of Exeter Medical School, 2007)
-  [Natural thinking: Investigating the links between the natural environment, biodiversity and mental health](#) (RSPB, 2007)
-  [New Pathways to Health and Well-being: Summary of Research to understand and overcome barriers to accessing woodland](#) (Forestry Commission Scotland, 2007)
-  [The links between greenspace and health: A critical literature review 2007](#). Greenspace Scotland Research Report. Transforming urban greenspace (Greenspace Scotland, 2007)
-  [Health Challenge England - next steps for Choosing Health](#) (HM Government, 2006)
-  [Choosing Health: Making healthy choices easier](#) (HM Government, 2004)
-  ['Health and Garden Cities'](#) (TCPA, republication of Norman MacFayden's seminal pamphlet, first published in 1940)
-  [Thundersley on Foot](#) - Nine specific Walks of Discovery around a Suburban Essex Village and also [guidance to encourage communities](#) to get out in their neighbourhoods, record its heritage and history and enjoy walking.
-  [Eco-Health Relationship Browser](#) (US Environmental Protection Agency) exploring ecosystem services and how they affect health and well-being.

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## Legislation & Regulation

-  [Legislation](#) (published on Infrastructure Planning Commission website)
-  [National Planning Policy Framework](#) (Ministry of Housing, Communities and Local Government [MHCLG], 2018)
-  [PLANNING 2020](#) ~ Interim report of the Raynsford review of planning in England (Rt Hon. Nick Raynsford, TCPA, 2018)
-  [Plain English Guide to the Planning System](#) (DCLG, Jan 2015)
-  [Plan B: How to challenge bad developments in court](#) (CPRE and Environmental Law Foundation 2010)
-  [Flood and Water Management Act 2010](#) (HM Government), in particular [schedule 3](#) sets out key principles regarding SuDS








-  [Draft Flood and Water Management Bill](#) (Department of Environment Food and Rural Affairs (DEFRA), 2009)
-  [Flood Risk Management \(Scotland\) Act](#) (Scottish Parliament, 2009)
-  [Planning Policy Statement 25 Development and Flood Risk](#) (Communities and Local Government, 2006)
-  [Planning Policy Statement 1: Delivering Sustainable Development](#) (Office of Deputy Prime Minister ODPM, 2005)
-  [The Water Environment \(Controlled Activities\) \(Scotland\) Regulations](#) (Scottish Parliament, 2005)

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## Tools for Green Infrastructure, Ecosystem Services, SUDS & Natural Capital

-  [B£ST \(BEST; Benefits Estimation Tool\) - valuing the benefits of blue-green infrastructure](#) (susdrain, Update 2019)
-  [Natural Capital Planning tool](#) - free site assessment tool developed for the planning context (CEEP, University of Birmingham, Northumbria University, Birmingham City Council, Business Council for Sustainable development, March 2018)
-  [UK Urban Canopy Cover - interactive online map](#) (Forest Research; Brillianto; Trees for Cities, 2018)
-  [Tools for measuring, modelling, and valuing ecosystem services : guidance for Key Biodiversity Areas, natural World Heritage sites, and protected areas](#) (IUCN, 2018)
-  [National Ecosystem Approach Toolkit](#), including Ecosystem Services, Engagement, Futures, incentives, Regulatory and valuation tool (NEAT, 2018)
-  [CAVAT \(Capital Asset Value for Amenity Trees\): Valuing amenity trees as public assets](#) (Open Access article in Arboricultural Journal, Forest Research Doick et. al, 2018)
-  [Local Environmental Footprint Tool](#) (Oxford University, launched Oct 2016)
-  [Tool Assessor](#) – lists a large number of analytical tools, gives background and provides a pdf summary, Ecosystem Knowledge Network, launched May 2016)

This section below lists FREE analytical tools only

-  [Blue-Green Infrastructure multiple benefits tools](#) (Blue Green Cities, Feb 2016), guidance, methodology and tool; requires GIS
-  [Green Infrastructure modelling toolkit](#) (US EPA, 2016) including:
  -  [Green Infrastructure Wizard](#)
  -  [Watershed Management Optimization Support Tool](#) (March 2016)
  -  [Visualizing Ecosystem Land Management Assessments](#)
  -  [Storm Water Management Model](#)
-  [Eco-Serv GIS](#) (The Wildlife Trusts, Sep 2015); guidance & tool; GIS required

- ❖ [InVEST](#)- integrated valuation of ecosystem services and trade-offs (Natural Capital Project, 2015), guidance, methodology & tool; no GIS required; very large files
- ❖ [Toolkit for Ecosystem Service Site-based Assessment](#) (TESSA) (Birdlife International, 2014), guidance & tool; registration required; works with & without GIS
- ❖ [Ecosystem services toolkit and user guide](#) (Natural England (NE), 2014)
- ❖ [i-Tree Eco](#) urban forestry analysis (US Department for Agriculture, 2012) guidance, & tool; registration required; GIS required
- ❖ [Restoration Opportunities Optimization Tool](#) (ROOT) - a new ecosystem service software tool to assist with forest landscape restoration planning
- ❖ [Green Infrastructure Valuation Toolkit](#) (Green Infrastructure North West, 2012), guidance & toolkit; no GIS required
- ❖ [National Green Values Calculator](#) for Green Infrastructure & SUDS (US Environmental Protection Agency & Centre for Neighbourhood Technology, 2009), guidance & online tool; no GIS required
- ❖ [Glastir agri-environment scheme Monitoring report](#), CEH May 2014, using the Land Utilisation & Capability Indicator (LUCI) model

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## Natural Capital and nature-based solutions















- 📖 [State of Natural Capital Annual Report 2019](#) (Natural Capital Committee, 2019)
- 📖 [Enhancing Resilience Of Urban Ecosystems through Green Infrastructure](#) (European Commission, 2019)
- 📖 [Accounting for National Nature Reserves: A Natural Capital Account of the National Nature Reserves](#) (Natural England, 2019)
- 📖 [Natural Capital Investment Plan for Surrey](#) (Surrey Nature Partnership, March 2018)
- 📖 [Integrating natural capital in risk assessments: A step-by-step guide for banks](#) (Natural Capital Finance Alliance; United Nations Environment Programme (UNEP), 2018)
- 📖 [Natural Capital Indicators: for defining and measuring change in natural capital](#) (Natural England (NE), 2018)
- 📖 [This is Natural Capital 2018-scaling up](#) (Natural Capital Coalition, 2018)
- 📖 [Natural Capital Protocol – Forest Products Sector Guide](#) (Natural Capital Coalition, 2018)
- 📖 [UK natural capital: ecosystem accounts for urban areas - information about green space in urban areas](#) (Office for National Statistics [ONS], 2018)
- 📖 [The circular economy and the bioeconomy — Partners in sustainability](#) (European Environment Agency, 2018)
- 📖 [EcoService Models Library - a searchable database of models estimating the production of ecosystem goods and services](#) (US Environmental Protection Agency EPA, 2018)
- 📖 [Natural capital accounting for the sustainable development goals](#) - Current and potential uses and steps forward (PBL Netherlands Environmental Assessment Agency, 2018)
- 📖 [Natural Capital Assessment in Northern Ireland: Urban Study](#) (Natural Capital Solutions & Northern Ireland Environment Link, 2018)



-  [Northern Ireland Natural Capital Rural Study](#) ~ A review of the wider economic value of selected farm systems in Northern Ireland (Interserve, 2018)
-  [Natural Capital Accounting](#) – technical information note (Landscape Institute, 2018)
-  [Bringing health and the environment into decision making: The Natural Capital Approach](#) Oxford Martin School & Rockefeller Foundation, 2018)
-  [A Guide to Selecting Ecosystem Service Models for Decision-Making-](#) Lessons from Sub-Saharan Africa (world resources Institute, Centre for Ecology & Hydrology, ESPA, Jan 2018)
-  [The changing Wealth of Nations](#) (World Bank Group, 2018)
-  [Monetary Natural Capital Assessment in the Private Sector](#) (Valuing Nature Network; University of Edinburgh, 2018)
-  [Natural capital trade-offs in afforested peatlands](#) (Valuing Nature Network; University of York, 2018)
-  [Soil natural capital valuation in agri-food businesses](#) (Valuing Nature Network; Lancaster University, 2018)
-  [The natural capital of floodplains: management, protection and restoration to deliver greater benefits](#) (Valuing Nature Network; Open University; Forest Research; River Restoration Centre, 2018)
-  [Guided Choices towards a Circular Business model](#) (Institute for Sustainability, 2017)
-  [Natural capital accounts for public green space in London](#) (Greater London Authority, National Trust, Oct 2017)
-  [A Green Future: Our 25 Year Plan to Improve the environment](#) (HM Government, Jan 2018)
-  [Taking stock: progress in natural capital accounting](#) (European Commission, Nov 2017)
-  [Natural capital account for public green space in London](#) (Mayor of London, Oct 2017)
-  [Forum on Natural Capital Accounting for Better Policy Decisions: Taking Stock and Moving Forward](#) (Waves & World Bank Group, Oct 2017)
-  [Embedding the natural capital approach in the built environment: from strategy to design, implementation and maintenance](#) – workshop report (Natural Capital Initiative, Oct 2017)
-  [Is Corporate Natural Capital Accounting appropriate for monitoring nature reserves?](#) An assessment for National Nature Reserves managed by Natural England (Natural England, Oct 2017)
-  [Advice on government's 25-year environment plan](#) (Natural Capital Committee, Sep 2017)
-  [UK environmental accounts: 2017](#) (measuring the contribution of the environment to the economy and society's response to environmental issues.) ONS, July 2017)
-  [Experimental Ecosystem Accounts for the Central Highlands of Victoria](#) (Australian National University, July 2017)
-  [UK natural capital: ecosystem accounts for freshwater, farmland and woodland](#) (Office for National Statistics, July 2017)
-  [The Business Case for Natural Capital Assessment](#) (Global Nature Fund, June 2017)
-  [Investing in Natural Capital Creating the right environment for economic investment](#) (Humber Nature Partnership, June 2017)











-  [How to do it: A Natural Capital workbook](#) (Natural Capital Committee, April 2017)
-  [Value of natural capital – the need for chartered surveyors](#) (Royal Institute of Chartered Surveyors RICS, April 2017)
- [Natural Capital Accounting & Earth Observations – workshop presentations](#) (EU Environment Agency, April 2017)
-  [Economic valuation and its applications in natural capital management and the Government's 25 Year Environment Plan](#) (Natural Capital Committee, April 2017)
-  [Valuing Natural Capital for Sustainable Development](#) (WAVES, April 2017)
-  [London Borough of Barnet Natural Capital account](#) (London Borough of Barnet, March 2017)
-  [Systematic review of projects to improve the natural environment that have attracted private investment](#) (Defra, March 2017)
-  [Natural Capital, Ecosystem Services and the Historic Environment](#) (Historic England, 2017)
-  [This is Natural Capital 2017](#) (Natural Capital Coalition, 2017)
-  [Landscapes in transition - An account of 25 years of land cover change in Europe](#) (European Environment Agency, 2017)
-  [An impact evaluation framework to support planning and evaluation of nature-based solutions projects](#) (Eclipse, 2017)
-  [Review of UK Natural Capital Initiatives](#) (James Hutton Institute, 2017)
-  [Wholescape thinking: towards integrating the management of catchments, coast and the sea through partnerships](#) – a guidance note (Natural Capital initiative, 2017)
-  [Better Policy through Natural Capital Accounting: Stocktaking and Ways Forward](#) (Waves Partnership, 2017)
-  [Principles of Natural Capital Accounting](#) (ONS, Feb 2017)
-  [Improving natural capital: an assessment of progress](#) (Natural Capital Committee's 4<sup>th</sup> state of natural capital report, Jan 2017)
-  [Towards a Circular Business model](#) (Institute for Sustainability et al; 2017)
-  [Accounting for Nature: A Natural Capital Account of the RSPB's estate in England](#) (RSPB 2017)
-  [An impact evaluation framework to support planning and evaluation of nature-based solutions projects](#) (EKLIPSE project, 2017)
-  [Natural Capital: An Overview](#) (POST, Dec 2016)
-  [Business Insights –Pilot testing the Natural Capital Protocol](#) (Natural Capital Coalition, 2016)
-  [Mapping natural capital and ecosystem services in the Nene Valley](#) (Natural Capital Solutions, Nene Valley Partnership and University of Southampton, Dec 2016)
-  [Reviewing cultural services valuation methodology for inclusion in aggregate UK \(ONS, 2016\) natural capital estimates](#) (ONS, Nov 2016)
-  [Valuing flood-regulation services for inclusion in the UK ecosystem accounts](#) (ONS, Nov 2016)
-  [Ontario's Good Fortune: Appreciating the Greenbelt's Natural Capital](#) (Green Belt Canada, Oct 2016)

-  [Making Natural Capital Count](#) - HOW TO SEIZE THE OPPORTUNITIES AND AVOID THE RISKS (Arcadis, 2016)
-  [UK natural capital: monetary estimates](#) (Office for National Statistics, 2016)
-  [Biodiversity and ecosystem services in corporate natural capital accounting](#) (Cambridge University & Natural Capital Project, Oct 2016)
-  [Natural capital and ecosystem services in the Nene Valley: mapping and valuation](#) (Natural Capital Solutions & University of Northampton, Oct 2016)
-  [New markets for land and nature - How Natural Infrastructure Schemes could pay for a better environment](#) (Green Alliance, National Trust, Sep 2016)
-  [Wales The State of Natural Resources Report](#) (Natural resources Wales, Sep 2016)
-  [Natural Capital Protocol](#) (Natural Capital Coalition; tool launched July 2016)
-  [Biodiversity at the heart of accounting for natural capital](#) (Cambridge Conservation Initiative, July 2016)
-  [Natural capital accounting and the Sustainable Development Goals](#) (WAVES, May 2016)
-  [Operationalising Natural Capital](#) (Cambridge University, 2016)
-  [Showing the worth: Natural Capital Accounting and the design of payments for ecosystem services](#) (WAVES/ World Bank, March 2016)
-  [The Natural Place for Business – a Natural Capital investment strategy for Dorset](#) (Dorset Nature Partnership, March 2016)
-  [Natural Capital maps](#) focussing on agriculture and soil (Centre for Ecology & Hydrology & Natural England, March 2016)
-  [Natural capital assessment at the national and sub-national level](#) - A guide for Environmental practitioners (UNEP, 2016)
-  [Measuring the Value of Groundwater and other forms of natural capital](#) (scientific article in Proceedings of the National Academy of sciences, Feb 2016)
-  [Natural partners Why nature conservation and natural capital approaches should work together](#) (Green Alliance, Jan 2016)
-  [A Natural Capital Investment Plan for peatland in the Northern Upland Chain](#) (Northern Upland Chain LNP/Defra, 2016)
-  [Natural Capital in the Netherlands](#) (NL EAA, 2016)
-  [Nature-based solutions for building resilience in towns and cities](#) (Asian Development Bank, 2016)
-  [Natural Capital: Investing in a Green Infrastructure for a Future City](#) (Green Infrastructure Task Force report, Mayor of London Dec 2015)
-  [Beam parklands Natural Capital Account](#) (Greater London Authority & EFTEC, Nov 2015)
-  [Investing in our natural assets](#) (Aldersgate group, Nov 2015)
-  [Valuing our Life Support Systems](#) (Natural Capital Initiative, June 2015)
-  [Environmental information & natural capital](#) (Climate Disclosure Standards Board, June 2015)
-  [The State of Natural Capital - Protecting and Improving Natural Capital for Prosperity and Wellbeing](#) (Natural Capital Committee, March 2015)

-  [Natural and Social Capital Accounting](#) (Accounting for Sustainability, March 2015)
-  [Natural Capital Investment Strategy for Surrey](#) (Surrey Nature Partnership, Feb 2015)
-  [The Economic Case for Investment in Natural Capital in England](#) (Eftec, Jan 2015)
-  [Towards an EU research and innovation policy agenda for nature-based solutions & re-naturing cities](#) (European Commission, 2015)
-  [Quantifying natural and social capital: guidelines on valuing the invaluable](#) (ICAEW 2015)
-  [Realising Nature's Value in UK Business](#) (JNCC, 2015)
-  [Nature-Based Solutions and Re-naturing Cities](#) (European Commission, 2015)
-  [The Natural Capital Initiative Summit -full report](#) (NCI, Nov 2014)
-  [Towards a global map of natural capital: key ecosystem assets](#) (UNEP, 2014)
-  [Natural Solutions to Tackling Health Inequalities](#) (UCL Institute of Health Equality, Oct 2014)
-  [Building Natural Capital How REDD+ can support a Green Economy](#) (UNEP, 2014)
-  [Natural Capital: Theory & Practice of Mapping Ecosystem Services](#) (Oxford Scholarship Online: December 2013)
-  [Natural Capital and Financial Institutions -Transitioning towards a Green Economy](#) (New Foresight (NL), July 2015)
-  [The new Business Imperative: Valuing Natural Capital](#) (Nature Conservancy, 2012)

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## Regeneration/ Quality of Place





















-  [Shaping urbanization for children - A handbook on child-responsive urban planning](#) (UNICEF, 2018)
-  [Draft Noise and soundscape action plan 2018-2023](#) (Welsh Government, 2018)
-  [Cities Alive: Green Building Envelope](#) (ARUP, Sep 2016)
-  [Urban Europe - Statistics on cities, towns and suburbs](#) – incl. chapter on green cities (Eurostat, Sep 2016) **very large file**
-  [Our Environment Buckinghamshire and Milton Keynes: State of the Environment Report](#) (Buckinghamshire & Milton Keynes Natural Environment Partnership, July 2016)
-  [Built Today, Treasured Tomorrow: A practical guide to long-term stewardship](#) (TCPA, Jan 2014)
-  [Garden Cities Myth-Buster: a short guide to myths and truths about creating new garden cities](#) (TCPA 2014)
-  [The Art of Building a Garden City - Garden City Standards for the 21st Century](#) (TCPA 2014)
-  [The way we live now](#) – What people need and expect from their homes (Ipsos Mori/ Royal Institute of British architects, 2012), covers aspects such as access to green public space in urban locations
-  [Grey places need green spaces - the case for investing in our nation's natural assets](#) (Groundwork, May 2012) - –very large file to download at bottom of page




-  [Re-imagining urban spaces to help revitalise our high streets'](#) is aimed at anyone working to improve their high street, town centre or retail area (DCLG, July 2012)
-  [Greener Neighbourhoods: A good practice guide to managing green space](#) – National Housing Federation (November 2011).
-  [Healthy Environment toolkit](#) (Living Streets, 2010)
-  [Place Survey 2008](#), England: Local Government Statistical Release. (CLG (Department for Communities and Local Government), 2009)
-  [World class places](#) (HM Government, 2009)
-  [Flourishing people: connecting communities](#) (New Horizons, 2009)
-  [Performance of the Department for Communities and Local Government 2007-08](#): A Review by the National Audit Office (National Audit Office 2008)
-  [The Urban Environment](#) (Royal Commission of Environment Pollution (RCEP), 2007)
-  [Public Service Agreement 21: Build more cohesive, empowered and active communities](#) (HM Government, 2007)
-  [Sustainable communities: building for the future](#) (Office of Deputy Prime Minister (ODPM), 2003)
-  [Place Spotlight](#) uncovers 50 of the most effective housing and regeneration projects in England (HCA).
-  [Decent Homes need decent spaces](#) 10 Key considerations for improving open space in social housing, published on the [neighbourhoods Green](#) website























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## Sustainable Urban Drainage Systems (SUDS) & Flood Risk Mitigation


-  [SUDS manual](#) (CIRIA, Nov 2015)
-  Cambridge City Council [Sustainable Drainage Design and Adoption Guide](#) (won Landscape institute 2010 overall President's prize) – accompanied by & [case study](#) (Susdrain)
-  [Cambridgeshire City Council](#) – Policy 27: on SUDS (Local Plan submission; July 2013)
  
-  [Weathering the storm - developing a Canadian Standard for flood-resilient existing communities](#) (University of Waterloo; Intact Centre on climate adaptation, 2019)
-  [Achieving sustainable drainage](#) (Landscape Institute, 2019)
-  [What are the benefits of green \(and blue\) space?](#) (Edinburgh Napier University; Queen Margaret University Edinburgh; The University of Edinburgh, 2018)
-  [Local standards and guidance for surface water drainage on major development in Oxfordshire](#) (Oxfordshire County Council, 2018)
-  [Achieving Urban Flood Resilience in an Uncertain Future](#) (Urban Flood Resilience Research Project; University of Nottingham, 2018)
-  [SUDS Developers Hub](#) (CIRIA/ Susdrain, from 2018)
-  [Making it rain: Effective stormwater fees can create jobs, build Infrastructure, and drive investment in local communities](#) (Natural Resources Defense Council, 2018)

-  [A review of the application and effectiveness of planning policy for Sustainable Drainage Systems \(SuDS\)](#) (Ministry of Housing, Communities & Local Government, 2018)
-  [Multiple benefits of Natural Flood Management](#) (Natural Course; Natural England; Environment Agency (EA), 2018)
-  [National Stormwater Calculator - Tool to help control runoff and promote the natural movement of water](#) (US Environmental Protection Agency EPA, 2018)
-  [Surface Water Management - An Action Plan](#) (Department for Environment, Food and Rural Affairs Defra, 2018)
-  [Applying climate change allowances to SuDS design](#) (Susdrain, 2018)
-  [SUDS Green infrastructure solutions - Enhancing your environment with sustainable urban drainage systems, rain gardens and tree planting](#) (urbanvision , 2018)
-  [Sustainable urban drainage systems: green roofs and permeable paving compared in southern Italy](#) (European Commission, 2018)
-  [Overcoming common SuDS challenges](#) –Busting some design myths (Susdrain & ciria, 2018)
-  [Evaluating Green Infrastructure: A combined sewer overflow control alternative for long term control plans \(SUDS guidance\)](#) (New Jersey Department of Environmental Protection, Jan 2018)
-  [STRATEGIES FOR URBAN STORMWATER WETLANDS](#) (MIT CENTER FOR ADVANCED URBANISM, 2017)
-  [Guidance on the construction of SuDS](#) (ciria, Nov 2017) – free, but registration required
-  [When the Big Storms Hit – The Role of wetlands to Limit Urban and Rural Flood Damage](#) University of Waterloo & Intact Centre on climate adaptation, July 2017)
-  [Working with the market: Economic Instruments to Support Investment in Green Stormwater Infrastructure](#) (Storm and Stream Solutions & Willamette Partnership, April 2017)
-  [Naturally Stronger How Natural Water Infrastructure Can Save Money and Improve Lives](#) (American Rivers, March 2017)
-  [Natural Flood Management: Policy and practical implementation](#) (CIEEM & Stroud District Council), Feb 2017; webinar recording)
-  [Sustainable Drainage Systems on new developments](#) Analysis of evidence including costs and benefits of SuDS construction and adoption (Environmental Policy Consulting for Welsh Government, Jan 2017)
-  [A place for Suds](#) – Assessing the effectiveness of delivering multifunctional sustainable drainage (CIWEM Jan 2017)
-  [Working with natural processes to reduce flood risk](#) – evidence directory, literature review, mapping user guide and case studies (Environment Agency, Oct 2017)
-  [For Blue and Green Environment](#): Policy recommendations on better implementation of the Water Framework Directive and the Nature Directives (CEEweb, 2017)
-  [Harvesting the Value of Water – stormwater, green infrastructure and real estate](#) (Urban Land Institute, Centre for Sustainability and Economic Performance, 2017)

-  [Living Map of Innovative SUDS Financing Mechanisms in the United States – with links to case studies](#) (Stanford University, from 2017)
-  [Strategic Investigation of Natural Flood Management in Cumbria](#) (JBA consultants & Lancaster University for The Rivers Trust, Dec 2016)
-  [Local Action Plan - Developing an Eco-System Services \(ESS\) Approach for Urban Catchment Management](#) (Defra, Nov 2016)
-  [Benefit-cost analysis of stormwater green infrastructure for Grand Rapids, Michigan](#) (West Michigan Environmental Action Council, Sep 2016)
-  [Stormwater Trees Technical Memorandum](#) (US EPA Sep 2016)
-  SUDS case study: [Queen Caroline Estate, London](#) [Renfrew Close, London](#) (Susdrain, 2017)
-  [SuDS in London: A design guide](#) (Transport for London, Aug 2016)
-  [Reducing flood risk from source to sea](#) -First steps toward an integrated catchment plan for Cumbria (Environment Agency, June 2016)
-  [Delivering and Evaluating Multiple Flood Risk Benefits in Blue-Green Cities](#) – Newcastle pilot project report (Blue-Green Cities, Feb 2016)
-  [Blue-Green cities factsheets on water & blue-green infrastructure](#) (Blue-Green Cities, Feb 2016)
-  [Greener Gardens](#) An Introduction to Raingardens for Developers - Green Infrastructure, design and place making (Central Scotland Green Network, 2016)
-  [Water Assessment and Drainage Assessment Guide](#) (SEPA, 2016)
-  [Guide to Sustainable Drainage Products and Services](#) (British Water, 2016)
-  [Sustainable Drainage Guidance for Ireland](#)  
(HR Wallingford, online tool; 2016)
-  [Water Assessment and Drainage Assessment Guide](#) (SEPA, 2015)
-  [Design guidelines for urban stormwater wetlands](#) (MIT Centre for Advanced Urbanism, 2015)
-  [Green Infrastructure Options to Reduce Flooding](#) - Definitions, Tips, and Considerations (National Oceanic and Atmospheric Administration, 2015)
-  [Sustainable drainage systems](#) (BGS, online tool, 2015)
-  [SUDS scheme Manor Ponds, Sheffield](#) (CIRIA case study 2014)
-  [A catchment systems engineering approach to managing runoff in rural catchments](#). Case Study. (James Hutton Institute & Newcastle University, 2014)
-  [Management and maintenance of Sustainable Drainage Systems \(SuDS\) landscapes](#) Interim Technical Guidance Note (Landscape Institute; March 2014)
-  [Managing urban flooding from heavy rainfall](#) – encouraging the uptake of designing for exceedance (CIRIA, 2013, free on registration)
-  SUDS: [Culvert design and operation guide supplementary technical note](#) (CIRIA, April 2013)
-  [Final Surface Water Drainage Report - Comparative costings](#) (Defra & WSP, 2013)
-  [‘The Economics of Ecosystems and Biodiversity for Water and Wetlands’](#) (IEEP & Ramsar Secretariat, 2013; published as part of TEEB project) - outlines critical water related ecosystem services and urges a major shift in attitudes towards wetlands.
-  [FAQ on SUDS](#) (CIRIA; first published 2013)


















-  [SUDS case study library](#) (The American Society of Landscape Architects, from 2013)
-  [Sustainable Drainage Systems: Maximising the benefits for people and wildlife](#) – (Dec 2012) guide for local authorities and developers produced by the **RSPB and WWT**. Identifies design criteria and features necessary for delivery and long-term management
-  The [draft national SuDs standard](#) announced in the above act were published for consultation (Defra, Dec 2011)
-  [approval of sustainable drainage systems](#) (Town and Country Planning Association TCPA; GRABS, 2011)
-  Anglian Water SuDs guidance: [Sustainable drainage systems \(SUDS\) Guide](#) (overview; July 2009) and [Sustainable drainage systems \(SUDS\) manual](#) (March 2011) - A guide to the design, construction and adoption of sustainable drainage systems (SUDS).
-  [Green City Clean Waters](#) - The City of Philadelphia's Program for Combined Sewer Overflow Control (Philadelphia Water Department, June 2011)
-  [Opportunity mapping for woodland to reduce flooding in the River Derwent, Cumbria](#) (Forest Research, July 2010)
-  [Opportunity Mapping for Woodland Creation to Reduce Diffuse Sediment and Phosphate Pollution in the Lake District](#) (Forest Research, July 2010)
-  [Opportunity mapping for woodland to reduce flooding in the Yorkshire and the Humber region](#) (Forest Research, July 2010)
-  [Rural Sustainable Drainage - Natural Flood Management in the Stroud Valleys](#) (Stroud District Council; video)
-  [Principles and methods of natural flood management in small streams and their catchments](#), (Stroud District Council; video)
-  [Natural Flood Management](#) -6 case studies (Environment Agency, Stroud District Council, The National Trust, Gloucestershire County Council, Gloucestershire Wildlife Trust)
-  [Retrofitting SUDS](#): a series of presentations (CIRIA, posted on YouTube)
-  [Sudrain](#) provides up-to-date [guidance](#), [information](#), [case studies](#), [videos](#), [photos](#) and [discussion forums](#) that help to underpin the planning, design, approval, construction and maintenance of SuDS
-  [SUDS guidance](#) (CIRIA 2004-2010)
-  [Promoting Sustainable Drainage Systems](#) (Islington Council, 2010) – Design guidance with specific examples for schools, retrofitting, roads and new development
-  [SUDS for Roads guidance](#) (SEPA, Scottish Water et al, 2010)
-  [Suds for Roads whole life cycle tool](#) (SUDSWP and SCOTS, 2010)
-  [Flood and Water Management Act 2010](#) (HM Government), in particular schedule 3 sets out key principles regarding SuDS
-  [Green Values national Stormwater Management Calculator](#) (Center for Neighborhood Technology, 2009)
-  [Final Surface Water Drainage Report - Comparative costings](#) (Defra & WSP, 2013)
-  [case studies on commercial SUDS schemes](#) (Green Blue Urban)



-  [Rainwater Rewards - Green Infrastructure benefits calculator](#) (West Michigan Environmental Action Council)


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## Sustainable transport and GI




























-  [Roads and the environment](#) - Putting an innovative approach at the heart of RIS2 Campaign for better transport, 2018)
-  [Monitor of Engagement with the Natural Environment visits to urban greenspaces \(2009-2016\)](#) (Natural England, 2018)
-  [More than a railway: HS2 and the natural environment](#) (HS2, 2018)
-  [Oxfordshire Cycling Design Standards](#) (Oxfordshire Council, June 2017)
-  [Rising to the Challenge: a shared green vision for the Road Investment Strategy](#) (Campaign for better Transport, Aug 2017)
-  [Urban Mobility Index](#) (Centre for Economics & Business Research Exploration, April 2017)
-  [Measuring the SDGs an initial picture for the Netherlands](#) (Statistics Netherlands, Jan 2017)
-  [Cycling and Walking Investment Strategy](#) - Investment Inputs, Outputs and Outcomes (Department for Transport, 2017)
-  [Global Outlook on Walking and Cycling](#) (UNEP, Sep 2016)
-  [Safety In Numbers for Cyclists in England: Measuring the Effect](#) (Road Safety Analysis, Nov 2016)
-  [Greenway management handbook – design manual](#) (Sustrans, June 2016)
-  [The Effectiveness of Mitigation Measures to Address the Environmental Impacts of Linear Transport Infrastructure on Protected Species/Habitats](#) (Natural England, November, 2013)
-  [Guidance Sheet – road verges](#) (Dorset County Council Natural Environment Team updated Feb 2012)
-  [Sustainable Customer Transportation - An Opportunities Guide for Retailers and Shopping Centers](#) (WWF 2011)
-  [LTP & ROWIP integration good practice note](#) (Natural England 2009)
-  [Routes to play](#) A guide for local authorities How to ensure children and young people can get to play spaces actively and independently (Sustrans Aug 2009)
-  [Sustainable Drainage Systems \(SUDS\) - A guide for developers](#) (Environment Agency, 2002)

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## Trees, Forestry and woodlands



-  [Forestry and climate change](#) (Forestry Commission 2010). This document presents the Forestry Commission's key messages on climate change.

-  [Woodland Wildlife Toolkit](#) (Bat Conservation Trust; Butterfly Conservation; Forestry Commission; Natural England; Plantlife; RSPB; Sylva Foundation; Woodland Trust, 2019)
-  [UK Urban Canopy Cover](#) (Forest Research; Brillianto; Trees for Cities, 2018)
-  [Forest Facts & Figures](#) (Forest Research, 2018)
-  [Tree calculator for Ammonia Mitigation](#) (Centre for Ecology & Hydrology (CEH); Forest Research; Scottish Environment Protection Agency (SEPA), 2018)
-  [Shelter belt guidance \(Effects of Ammonia in the Landscape\)](#) (Centre for Ecology & Hydrology (CEH); Forest Research, 2018)
-  [Trees and Stormwater](#) –free tool (USDA Forest Service, 2018)
-  [Tree Species Selection for Green Infrastructure: A Guide for Specifiers](#) (Trees & Design Action Group, 2018)
-  [Tree Health Resilience Strategy - Building the resilience of our trees, woods and forests to pests and diseases](#) (Department for Environment Food and Rural Affairs [DEFRA], 2018)
-  [STATE OF THE URBAN FOREST IN THE GREATER TORONTO AREA](#) (Green Infrastructure coalition Ontario, 2018)
-  [i-Tree Eco as a tool to inform urban forestry in GB](#): a literature review of its current application within urban forestry policy and management context (Forest Research 2018)
-  [Evaluating the role of i-Tree Eco in protecting and expanding the urban forest](#) - impact summaries for 8 local studies (Forest Research, 2018)
-  [Evaluation of i-Tree Eco surveys in Great Britain Impacts and key lessons: The views of stakeholders](#) (Forest Research, 2018)
-  [Selecting tree species for a better urban treescape](#) (The Building Centre, 2018)
-  [https://www.fs.fed.us/nrs/pubs/jrnl/2018/nrs\\_2018\\_Nowak\\_003.pdf](https://www.fs.fed.us/nrs/pubs/jrnl/2018/nrs_2018_Nowak_003.pdf) (Journal of Forestry, 2018)
-  [Valuing Ealing's Urban Trees](#) (Trees for Cities, 2018)
-  [Urban Tree Manual - The Right Tree in the Right Place for a Resilient Future](#) (Forest Research, 2018)
-  [A new Northern Forest](#) (Woodland Trust, 2018)
-  [How do we value trees & other green infrastructure in the urban environment? \(conference presentations\)](#) (University of Birmingham; Trees and Design Action Group, 2018)
-  [Funding Trees for Health - An Analysis of Finance and Policy Actions to Enable Tree Planting for Public Health](#) (The Nature Conservancy; Center for Whole Communities, 2017)
-  [Making London's woodland work](#) –full report (Lantern & Forestry Commission, Nov 2017)  
[evidence](#)
-  [Planning for Ancient Woodland](#) - Planner's Manual for Ancient Woodland and Veteran Trees (Woodland Trust, Oct 2017)
-  [Petersfield's Trees – their importance and value Results of the i-Tree Eco Survey](#) (the Petersfield Society, Oct 2017)
-  [Assessing the investment returns from timber and carbon in woodland creation projects](#) (Forest Research, Aug 2017)
-  [UK Forestry facts & figures](#) (Forest Research, 2017)

-  [The UK Forestry Standard](#) – The Governments’ approach to sustainable forestry (Forestry Commission, 2017)
-  [Funding Trees for Health](#) - Finance and Policy to Enable Tree Planting for Public Health (Nature Conservancy, 2017)
-  [myForest for Education](#) – tool for woodland management plans, maps and ecological impact assessments (Silva Foundation, 2017)
-  [Delivery of ecosystem services by urban trees](#) (Forestry Commission; Jan 2017)
-  [National tree improvement strategy](#) (Confor, Forest research and Future Trees Trust, 2017)
-  [Surface materials around trees in hard landscapes](#) (London Tree Officers Association & Green Blue Urban, 2017)
-  [Urban and Peri-Urban Forestry toolbox](#) (FAO, from 2017)
-  [Non-wood forest products in international statistical systems](#) (FAO, 2017)
-  [Valuing the social and environmental contribution of woodlands and trees in England, Scotland and Wales](#) (Forestry Commission, 2017)
-  [Assessing the wider benefits of the Woodland Carbon Code](#) (Eftec for Forestry Commission, Oct 2016)
-  [Benefits of urban trees](#) infographic (FAO, April 2016)
-  [Forests and Climate Change](#) (FAO 2016)
-  [State of the Urban Forest in Greater Toronto area](#) (Green Infrastructure Ontario Coalition, 2016)
-  [Ontario’s urban Forests – call to action](#) (Green Infrastructure Ontario Coalition, 2016)
-  [Forty years of community-based forestry A review of its extent and effectiveness](#), (FAO, 2016)
-  [Agriculture and Forestry Climate Change Impacts report card 2016](#) (LWEC, 2016)
-  [Guidelines on urban and peri-urban forestry](#) (FAO, 2016)
-  [Urban forest case studies](#) (FAO 2015-2016)
-  [How to grow and urban forest](#) (City of Melbourne, Victoria State Government, 2015)
-  [Our vision for a resilient urban forest](#) (Forestry Commission, Mersey Forest, Oct 2015)
-  [Oxford i-Tree Canopy Cover Assessment](#) (Oxford City Council; treeconomics, Davey, Forest Research, 2015)
-  [Valuing London’s Urban Forest - Results of the London i-Tree Eco Project](#) (Forestry Commission, 2015)
-  [The economic benefits of woodland](#) (Woodland Trust, 2015) – research report: the benefits that UK woodland can provide are worth over £270 billion, however their full value is not always recognised.
-  [Trees, People and the Built Environment Conference Proceedings](#) (Institute of Chartered Foresters, 2015)
-  [Community Biomass guide](#) (Forestry Commission/ Department for Energy and Climate Change; 2015)
-  [Residential developments and trees](#) - the importance of trees and green spaces, (Woodland Trust, 2015)
-  [Mersey Forest Plan](#) (Mersey Forest, 2014) for Merseyside & Cheshire focusing on trees and








woodland






















-  [Planning for brownfield land regeneration to woodland and wider green infrastructure](#) (Forest Research 2014)
-  [Tree and forest effects on air quality and human health in the United States](#) (USDA Forest Service 2014)
-  [URBAN FORESTS: THE VALUE OF TREES IN THE CITY OF TORONTO](#) (TD Economics, June 2014)
-  [Introduction to Biomass Heating](#) (TOE2 & Oxfordshire County Council, 2014)
-  [Air temperature regulation by urban trees and green infrastructure](#) (FC research note, Feb 2013) outlines the vital role of urban trees in helping to lower temperatures in cities.
-  [Green Infrastructure & open environments: preparing tree and woodland strategies – case studies](#) (Forestry Commission and Mayor of London, Feb 2013)
-  [Trees in the Townscape](#), a Guide for Decision Makers, Trees and Design Action group (TDAG) July 2012
-  [Final Report](#) (The Independent Panel on Forestry; July 2012). The report calls for the benefits of England's woods and forests to be re-valued for all the services they provide.
-  [Benefits of trees on livestock farms - the evidence for integrating trees](#) (The Woodland Trust, 2012)
-  [Tree management toolkit](#) for housing providers to help social landlords manage and care for trees in their communities. (Neighbourhoods Green/ Greater London Authority, 2012)
-  [Community ownership for woodland management](#) (Woodland Trust, July 2011)
-  [Woodland for Water report](#) (FC, 2011), considers the evidence regarding benefits of woodland towards Water Framework Directive objectives
-  [Trees or turf](#) looks at how authorities can save money by converting amenity grassland to woodland (Woodland Trust, May 2011)
-  [London's Urban Forest: A Guide for Designers, Planners and Developers – the Canopy](#) (Major of London/ Design for London/TDAG; Feb 2011)
-  [The canopy](#) –urban design guide for trees, Design For London (March 2011)
-  [Woods for Health on Kinnoull Hill Perth](#), on the social return on investing in Green Infrastructure. Greenspace Scotland (July 2011)
-  [Flourishing trees, flourishing minds](#): nearby trees may improve mental wellbeing among housing association tenants (Forestry Commission, date unknown - 2011 or younger)
-  ['No Trees, No Future'](#)- on urban trees (Trees and Design Action Group TDAG 2010).
-  [Greening the concrete jungle- the importance of urban trees and woods](#) (Woodland Trust, June 2010)
-  [Space for people](#) -Woodland Trusts standard for accessible woodlands, including data for all local Authorities (Woodland Trust 2010)
-  [Urban health and health inequalities and the role of urban forestry](#) – literature review (Forestry Commission 2010)
-  [Benefits of GI Paper](#) Forest research report to Defra and CLG (October 2010)

-  Economic Analysis Report - [Valuation of ecosystem services provided by UK woodlands](#) (UK National Ecosystem Assessment, 2010)
-  [i-Tree](#) is a software suite from the USDA Forest Service helps communities to strengthen their urban forest management, e.g. by quantifying the environmental services that trees provide.
-  [The case for trees](#) – (Forestry Commission July 2010) - aimed at people involved in urban planning and development
-  [No trees, no future](#) (Trees and Design Action Group (TDAG), 2010)
-  [The Scottish governments rationale for woodland expansion](#) (Forestry commission, 2009)
-  [Delivery Plan 2008-2012 - England's Trees, Woods and Forests](#) (Forestry Commission, 2008)
-  [Forestry facts and figures 2008](#): A summary of statistics about woodland and forestry (Forestry Commission, 2008)
-  [Community perceptions of the national forest](#) (Alison Millward Associates, 2008) pdf
-  [Trees in towns II: A new survey of urban trees in England and their condition and management](#) (ADAS UK Ltd, 2008)
-  [Leisure landscapes: exploring the role of forestry in tourism](#) (Forest Research, 2007)
-  [Fifth Ministerial Conference for the Protection of Forestry in Europe](#). (MCPFE, 2007)
-  [Chainsaw massacre: A review of London's street trees](#) (London Assembly, 2007)
-  [Summary of Tree Valuation Based on CTLA Approach](#) (Council of Tree and Landscape Appraisers (CTLA), 2003)
-  [The opportunities for woodland on contaminated land](#) (Forest Research, 2002)
-  [Torbay's Urban Forest - Assessing Urban Forest Effects and Values](#) . A report on the findings from the UK i-Tree Eco pilot project.
-  [Benefits of urban Trees](#) (USDA, 2003)
-  [The effects of urban trees on air quality](#) (USDA Forest Service, 2002)

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## Water Environment

-  [The state of the environment: water quality](#) (Environment Agency, 2018)
-  [Green Infrastructure & Living Shoreline tool](#) (Connecticut Institute for Resilience & Climate Adaptation (CIRCA), 2018)
-  [Evidence Summary: Ecosystem-based Adaptation and Coastal Populations](#) (USAID, 2018)
-  [Beyond the Source- The environmental, economic and community benefits of source water protection](#) (The Nature Conservancy; Center for Whole Communities, 2017)
-  [COASTAL RESILIENCE SOLUTIONS for BOSTON](#) (MASSACHUSETTS OFFICE OF COASTAL ZONE MANAGEMENT et al, Oct 2017)
-  [Waterways & Wellbeing Building the Evidence Base](#) (Canal & River Trust, Sep 2017)
-  [Green approaches in river engineering – supplementing implementation of Green infrastructure](#) (HR Wallingford, May 2017)

-  [WaterSpace Study](#) (Wessex Water, Environment Agency, Bath and North East Somerset Council, April 2017)
-  [Smarter flood risk management in England: investing in resilient catchments](#) (Green Alliance, Jan 2017)
-  [Do trees in UK relevant river catchments influence fluvial flood peaks?](#) (Centre for Ecology & Hydrology; Environment Agency; Forest Research; Lancaster University; National Trust; Woodland Trust; WWF, 2017)
-  [Principles and methods of natural flood management in small streams and their catchments](#) (Stroud District Council, 2016)
-  [Alliances for Green Infrastructure - State of Watershed Investment 2016](#) (Forest Trends, Dec 2016)
-  [How rewilding reduces flood risk](#) (Rewilding Britain, Sep 2016)
-  [Sustainable Water A Long-Term Water Strategy for Northern Ireland](#) (Department for Regional Development Northern Ireland, March 2016)
-  [Moving toward Water Sensitive Cities](#) including tools to assist transition to SuDS (Monash University, Australian Government, 2016)
-  [Strengthening Blue-Green Infrastructure in our cities](#) – enhancing blue –green Infrastructure & Social performance in high density urban environments (Ramboll & Liveable Cities Lab, June 2016)
-  [Urban environmental toolbox](#), including tools for SUDS, green roofs and parks (West Country Rivers Trust; launched 2016)
-  [Local Action toolkit](#) Assessing the value of nature in urban water environments (Imperial College London, Westcountry Rivers Trust, 2016)
-  [A Guide to Assessing Green Infrastructure Costs and Benefits for Flood Reduction](#) (US National Oceanic and Atmospheric Administration; NOAA, April 2015)
-  [Flood Toolkit](#) (Northamptonshire County Council, launched 2015)
-  [Water Ecosystem Services](#) (Unesco, 2015)
-  [Rural Sustainable Drainage - Natural Flood Management in the Stroud Valleys](#) (Stroud District Council, 2015)
-  [Planning advice for integrated water management](#) (Cambridge University, June 2014)
-  [Green Infrastructure: A New Way of Addressing Water Quality Issues Within a Growing Population.](#) (Fordham University, USA, May 2014)
-  [Urban Water Blueprint](#) Mapping conservation solutions to the global water challenge (Nature Conservancy, 2014)
-  [Green Infrastructure Guide for Water Management: Ecosystem-based Management Approaches to Water-related Infrastructure Projects](#) (UNEP, UNEP-DHI, WRI, IUCN, 2014)
-  [Enhancing Sustainable Communities With Green Infrastructure](#) - A Guide to Help Communities Better Manage Stormwater While Achieving Other Environmental, Public Health, Social, and Economic Benefits (EPA, 2014)
-  [Participatory Ecosystem Services Visualisation Framework](#) (Westcountry Rivers Trust, 2014) tailored towards working with river catchments

-  [Paying for Ecosystem Services pilot: Flood regulation in Hull](#) –final report (Defra, May 2013) – with explicit reference to GI.
-  [Rivers by Design](#) (RESTORE partnership, including EA, 2013) - guide, aimed at explaining the benefits of river restoration to developers, local authorities, planners and communities, with relevance to urban or green infrastructure projects.
-  [GI in East New York That Will Improve Water Quality](#) (NYC, March 2013)
-  [Factors that affect uptake of natural flood management features by farmers in Scotland: a review](#) (the James Hutton institute; The Scottish Government, 2012)
-  [Woodland for Water report](#) (FC, 2011), considers the evidence regarding benefits of woodland towards Water Framework Directive objectives
-  [Economic Assessment of Freshwater, Wetland and Floodplain \(FWF\) Ecosystem Services](#) (Cranfield University/UK National Ecosystem Assessment, Feb 2011)
-  [water management and adaptation to climate change](#) (Town and Country Planning Association TCPA; GRABS, 2011)
-  [Natural Flood Management -6 case studies](#) (Environment Agency; Stroud District Council; The National Trust; Gloucestershire County Council; Gloucestershire Wildlife Trust, 2010)
-  [Improving response, recovery and resilience](#) - Improving Institutional and Social Responses to Flooding - Summary (Defra/ Environment Agency, 2009)
-  [Green Infrastructure and Hydrology](#) (The Mersey Forest, 2009)
-  [Opportunity Mapping for Woodland to Reduce Flooding in the Yorkshire & the Humber Region.](#) Final report to FC England. (Forest Research, 2009)
-  [Making space for water urban flood risk & integrated drainage](#) (HA2), IUD pilot summary report, (Defra,2008)
-  [Future Water, the Government's Water Strategy for England](#) (Defra,2008)
-  [British waterways: follow up](#) (British waterways, Defra, 2008)
-  [The Pitt Review. Learning lessons from the 2007 floods](#) - Full report. (UK Government, Cabinet Office, 2008)
-  [Working towards a better quality of life: Environmental justice in South Yorkshire](#) (EA, 2008)
-  [Impacts of upland land management on flood risk: multi-scale modelling methodology and results from the Pontbren experiment.](#) (NERC Open Research Archive, 2008)
-  [Restoring floodplain woodland for flood alleviation.](#) (DEFRA, 2008)
-  [Managing Stormwater for Urban Sustainability using Trees and Structural Soils.](#) (book chapter) (Day, S.D, and S.B. Dickinson (Eds.), 2008)
-  [Developing a conceptual model of flood impacts upon human health.](#) (HR Wallingford, 2008)
-  [Making Space for Water:](#) Taking forward a new Government strategy for flood and coastal erosion risk management in England (Defra,2005)
-  [Foresight. Future Flooding.](#) Scientific Summary: Volume I Future risks and their drivers. (Office of Science and Technology, London., 2004)
-  Foresight. Future Flooding. Scientific Summary: [Volume II Managing Future Risks.](#) (Office of Science and Technology, London., 2004)
-  [Fact sheet for the RBCA Tool Kit for Chemical Releases](#) (Environment Agency, 2003)

- 📖 [Habitats Directive Risks tool](#) (Environment Agency; requires MS Access 2003 or above), sharing information on the risks posed to protected sites from activities the EA regulates.
- 📖 [Catchment Management Modelling Platform](#) case studies (Catchment Management Modelling Platform)
  - [Case Study 1](#) Multiple pollutant and ecosystem services responses to land management policies and agri-environment interventions
  - [Case Study 2](#) Effectiveness of land management policies and agri-environment interventions
  - [Case Study 3](#) Costs and benefits of mitigation measures
  - [Case Study 4](#) Effectiveness of pollution control measures under scenarios
  - [Case Study 5](#) Uncertainty in ecological responses to water quality control measures
  - [Case Study 6](#) Effects of input data quality & quantity on evaluation of land management
  - [Case Study 7](#) Interpolation of model outputs and data from catchment to national scales

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Please contact Brillianto to suggest any corrections and additions.

All hyperlinks were checked and corrected in Nov 2018.