

EPSRC 生态城市研究网

EPSRC Ecoregion Research Networks



Eco-cities provide a context for practical research, the stimulation of innovation and interaction with industry globally. The EPSRC networks are an enabler for this outcome.

生态城市为实践研究、激励创新以及在全球进行产业互动提供了良好的环境。

EPSRC 网络能够帮助实现这一成果。



Ecoregion Research Networks

The development of eco-cities in China and worldwide provides an exciting prospect for UK and Chinese researchers to collaborate on the unique research opportunities arising from the creation of sustainable cities and regions. Following a jointly organised EPSRC/Arup workshop, EPSRC has funded three research networks together with an overarching co-ordination activity. These networks allow UK and Chinese researchers to undertake visits and hold workshops to discuss research challenges, to develop new and exciting collaborations across cultures and continents and to generate ground-breaking research proposals to be submitted to appropriate funding bodies. In addition to facilitating the initiation of the activity, Arup and other partners are contributing to the networks in the form of project information, technical expertise and administrative support. All networks involve academic, industrial and government collaborators, and will undertake a wide range of co-ordinated dissemination activities, including conferences, public participation and virtual networking.

生态城市研究网

生态城的发展，为中英两国的研究者们提供了一个前所未有的、合作研究一个真正可持续城市的机遇。英国工程与自然科学研究委员会 (EPSRC) 在与奥雅纳 (Arup) 共同组织的一次 EPSRC/Arup 研讨会后，资助建立了三个互动互助的研究网络。这些研究网络将为中英两国的研究学者们提供互相拜访与开展各种研讨会的机会，借以讨论研究领域面临的各项挑战，开展跨文化跨地域的全新合作，并向合适的资助机构提交创新的研究提案。为了促进这一活动的启动，奥雅纳及其他合作伙伴们提供了项目信息、技术专业及行政支持上的莫大帮助。这些网络将吸引学术界、产业界以及政府部门的相关合作者，并开展一系列的协作推广性活动，包括大会、公众活动以及虚拟网络等。



CHaMSpaM RESEARCH NETWORK City History and Multi-scale Spatial Master-planning



Urban infrastructure
planning and
successful service
delivery

&

Prosperous,
contemporary
and culturally
fulfilling life



How to achieve
this in a
resource
efficient way?

Governance, culture and space

CHaMSpaM

The CHaMSpaM Network brings together historians and planners, to address learning from history to inform spatial masterplanning for large scale urbanisation.

Issues

The spatial pattern of cities creates their social and economic culture. In the historic city this has evolved to optimise social, cultural, economic and environmental factors. Under rapid urbanisation there is a risk of losing this learning. Cultural heritage is an irreplaceable resource. As a society becomes more affluent its value increases. What can we learn from the past to inform the future?

Activities

The CHaMSpaM network is building an international research community around city history and multi-scale spatial masterplanning, supporting historical and cultural comparison and learning, and developing new spatial masterplanning technologies. Outcomes include a collaborative writing network and targeted research proposals to UK and Chinese funders.

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ECOCIT RESEARCH NETWORK
Sustainable Economic and Ecological Models
for Peripheral Urban Functional Units



Sustainable
economic
development

&

Sustainable
ecological
objectives

What are the requirements
for such urban units on the
periphery of mega cities?

Economics, environment
and regional context

Ecocit

The Ecocit network addresses the socioeconomic and business aspects of building thriving eco-cities.

Issues

New management paradigms and business models are necessary to support the delivery of eco-city developments that are not only sustainable ecologically, but thrive economically: attracting firms, a skilled workforce, and building communities at ease with themselves. Ecocit is developing a research agenda that brings value to policy makers, practitioners, enterprises and institutions engaged in developing or transforming the next generation of cities. The network will address the planning and policy actions necessary to combine sustainable economic development and sustainable ecological objectives in urban units on the periphery of a mega-city.

Activities

Ecocit is building an academic, industry and government network to develop key areas of research on designing, building and operating eco-cities. Outcomes include a series of joint workshops (face-to-face and virtual meetings), seminars and lectures to identify and produce targeted research proposals, a web portal incorporating information resources, forums, decision making tools and process aids.

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ecocit

SUSTAIN RESEARCH NETWORK
Sustainable Urban Systems to Transfer
Achievable Implementation



Implementation of
infrastructure &
services in a
sustainable city

&

Population
behaviour
patterns in a
sustainable city

→

Transferability of the
city to other places
(local and
international)?

Sustainable infrastructure and
behaviour adaptation

Sustain

The SUSTAIN network addresses the technology and behavioural changes necessary to achieve transferable sustainable systems.

Issues

Sustainability demands behavioural changes from people. This network will examine the required changes in a city's infrastructure design to achieve behavioural change, and how to prioritise eco-city sustainability at a systems level. The work will focus on technologies and interdependency in a city environment, and systems thinking spanning themes in Water, Energy and Transport.

Activities

The SUSTAIN network is building an international research community through a series of workshops in Shanghai and London, connecting researchers, industry and policymakers in China, the UK and other global partners. Outcomes include a series of research proposals for submission to UK and Chinese funders, and an expanding network of researchers in China, the UK and other countries.

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