

SUN DIAL 12 Summer 2001

Case Studies of the Urban Renaisssance

Changing Places is a two-year programme to share experience of success in attracting people back to live in urban areas. It is part-funded by the DTLR's Special Grants Programme, with additional sponsorship and support from a range of organisations.

We have recently launched the website changing places urbed com to disseminate case studies of the urban renaissance. The site will grow and develop as new case studies and features are added.

the Sustainable RBAN NEIGHBOURHOOD

After nearly a year we are pleased to return with issue 12 of SUN Dial – the Journal of the Sustainable Urban Neighbourhood Initiative. This issue has been made possible due to the support of ICIAN Developments and describes their work with the SUN Initiative on energy efficient CHP technology for a major scheme in Manches-

To make up for lost time this issue also includes articles on postwar planning in the UK and Europe, research on mixed-use urban form, sustainable urban water systems and new approaches to providing workspace. As always our aim is to highlight the most interesting thinking and ideas concerned with the reinvention and sustainability

of urban areas

and new approaches to providing workspace our aim is to highlight the most interesting to ideas concerned with the reinvention and so of the concerned with the reinvention and the concerned wi

Top: London's Oxford Street, a photograph from Abercrombie's plan that appeared with the caption: 'View before air raid damage showing the chaos of individual and unco-ordinated street developments'

Main picture: Manchester 2045, as it would have looked had the authors of the 1945 Manchester Plan had their way. Only a handful of buildings are retailed - not even Waterhouse's town hall is spared!

Post-war town centres, once a symbol of optimism and modernity are in trouble. Their rainstained concrete cannot compete with the comfort and convenience of the indoor shopping centre or the authenticity and character of a traditional town. **David Rudlin** discusses the legacy of post-war planning

t must all have seemed so different in the late 1940s. The optimism of that time shines through the pages of reports from the era. The interwar period had seen a huge growth in suburbs but town centres remained a product of the Industrial Revolution. The town planning movement had grown up to bring order and logic to such areas. War-time damage provided the perfect opportunity to do just that. What is more, the war-time spirit provided the confidence that it could be done and the conviction that our quality of life would be improved.

This is why even as the bombs fell plans were being drawn. Abercrombie was working on his plan for London and in provincial cities such Manchester (above) plans were being developed which, if implemented, would have wreaked far more damage than war-time bombs. The legacy of post-war planning is not

Wherever town centres were comprehensively redeveloped in the 1950s, 60s and 70s the 'New town blues' can be found



Initiative

INSIDE

Page x: Density and Metabolism:

Philip Meadowcroft describes research looking at the European Urban Block

Page x: All Mixed up?:

Ben Wilkinson reports on attempts to create a 'socially balanced' community in Hackney.

Page x: Smithfield Energy:

Nick Dodd describes URBED's experience of looking at CHP for the Smithfield Development in Manchester.

 $\textbf{Page} \times \textbf{Why European Cities are doing better}$

In the first of two articles **Dr Nicholas Falk** reports on the findings of a recent study tour.

Page x: The Future of Urban Water:

Chris Shirley-Smith looks at what the future could hold in store for the urban water supply.

Page x: Making it Work:

Tom Young, John Burton and Michael Taylor describe three innovative new workspace schemes being developed in London and Manchester.

Page x: Lessons from Freiburg

In the second of his articles **Dr Nicholas Falk** reports on Freiburg's new settlements at Vauban and Reiselfeld

therefore confined to new towns like Stevenage and Bracknell. It can be found in redeveloped centres like Swansea and Coventry, in London centres like Wood Green and the Elephant and Castle and even in the cores of historic towns like Portsmouth and Bristol. Wherever town centres were comprehensively redeveloped in the 1950s, 60s and 70s the 'New town blues' can be found.

Outdated principles

The principles underlying these post war plans were drawn from the Continent. They were crystallised at the meeting of the Congres International d'Architecture Moderne (CIAM) in Coventry 1952 entitled *The Heart of the City*. While the conference spoke of piazzas and people friendly spaces, it promoted a set of principles that were to be profoundly damaging:

Private rather than public transport: Despite low car ownership by today's standards, public transport was seen as second rate. Tram tracks were ripped up, buses downgraded, and towns redesigned for the car.

Pedestrian/vehicle separation: This created a need to protect the pedestrian through pedestrian/vehicle segregation such as ring roads, pedestrian precincts, subways, bridges and 'streets in the sky'.

Down with the street: The street was attacked by CIAM as the source of urban ills and was to be elimitated where possible.

Form follows function: The functional modernist aesthetic despised the clutter and inefficiency of traditional towns. The modernists

sought clean lines and logic and buildings that were objects rather enclosers of public space.

Thinking big: Post-war planning was not known for timerity. Tinkering with urban areas was no good – they had to be sweep away to provide a clean canvas for redevelopment.

Complex solutions: Comprehensive redevelopment led to megastructures, such as the Arndale Centres up and down the county. They were even called 'complexes' and included shops, offices, parking and even housing linked by walkways, podiums and split levels.

The town centres shaped by these principles are often logical and functional but lack soul and character. The separation of uses means that they are deserted after 6pm. A public realm dominated by subways and walkways is intimidating and alienating, and many centres are also isolated by surface parking and ring roads. What is more the complex yet monolithic nature of development makes them unable to respond to changing trends.

This was not fatal when people had little option but to use their local centre. However in a mobile world, towns can no longer rely

on captive trade. Customers are drawn to the choice and car-borne convenience of out-oftown stores, or the history and character of traditional towns. This is why post war centres like Broadmead in Bristol or Bracknell are declining despite affluent catchment areas.

Addressing the fundamentals

What can be done about these post-war centres? The answer can lie in town centre management, business promotion, environmental improvements, and diversification. However these may not be enough to overcome fundamental physical problems.

One approach is to expand the shopping offer as in Milton Keynes or Crawley. This can work but at the expense of weaker centres and can't work everywhere. In some cases a new round of redevelopment may be the only option such as Birmingham's Bull Ring. For most places however radical change is not possible and it is necessary to proceed incrementally. There is however still a great deal that can be done with a strong vision and strategy (see

In conclusion - there are few areas of our towns and cities entirely untouched by the post war planner. However only in the council estate and town centre did planners really get the opportunity to put theory into practice. In this article I have drawn upon URBED's experience to suggest possible solutions. However

the general feeling at the Post War Towns symposium was that in many cases this may not be

While much of the architecture of the post war period is coming to be appreciated, the feeling was that the problems of post war planning were more fundamental than just fashion and taste. If we are to achieve the renaissance of our towns and cities these problems need to be overcome – something that is likely to be as great a challenge as the regeneration of our inner cities.

David Rudlin is URBED's Northern Director and is based in our Manchester office. More details of the symposium can be found on the URBED website

inside out. The pedestrianised

shopping streets may create

a pleasant heart but the the

yards and windowless walls.

outside world sees only service

Outward facing residential and

office blocks can create a more

welcoming face along with im-

provments to gateways.

Diversifying the economy:

Post-war town centres tend to be monocultures without evening economy uses or housing and with civic and offices separated from shopping. Increasing mix and diversity as has been done in Milton Keynes will strengthen the economy and make the centre more lively especially in the evenings.

A community focus: Be-

cause they lack a town square along with community and civic functions, post war town centres are not seen as the heart of the community. Strengthening civic functions, promoting events, and accommodating community activities can increase pride and belonging.

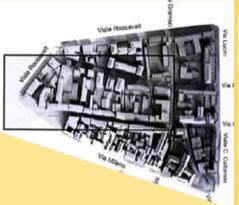
Breaking the ring: Most

post war towns have a 'concrete collar' of ring road. This cuts the centre off from its catchment and makes expansion difficult. The ring road can be downgraded and the underpasses removed to create boulevards that unite the centre with its hinterland.

A friendly face: Post war Lively street towns were designed from the

While the struc towns can be d it is possible to routes, to incre the public realm ments are more that environme planting.

The origins of



functions. Behind this is an 'unofficial' diverse culture within blocks. To make a town work you need both the official or unofficial. dense blocks close to the historic centre (the smallest courtyards were no bigger than rooms) to larger amorphous blocks. A range of public and semi-public spaces are hidden within and penetrate through the block

The perimeter remains active throughtranquillity (residential gardens). Other areas,

The degree to which the structure has survived over time is striking. There is a consistent differentiation between front and back, exterior and interior. The degree to which penetrable layers occur allows a range of conditions and activities. At the same time dialogue across the whole depth. At no point

Philip Meadowcroft

describes research at Cambridge University into the traditional European urban block and looks beyond the concept of 'mixed use' to the underlying processes of urban order.

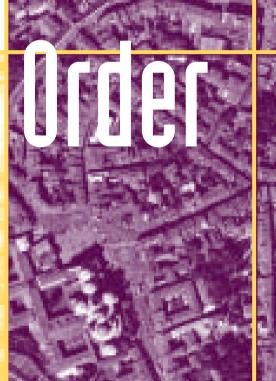
ritish cities are undergoing a transformation. The process of dispersal is being replaced by a policy of comp-action. This demands a new approach to urban design yet professionals and developers continue to use out-moded concepts of density

As a result, despite the best of intentions, the ideal of making 'good' towns still eludes us. We aspire to paradigms such as Siena, Padua or Paris. Yet these were only partly the product of designers. More significant was a process of conflict and mediation and their capacity to assimilate change.

The Metabolism of Urban Ord er

In our work we have sought to explore this process. We have been careful to avoid the tendency to pacify and make 'safe' urban order. Instead we have tried to understand how urban

> It is ironic that the medieval city is a focus of so much theory and yet came about with the aid of so little



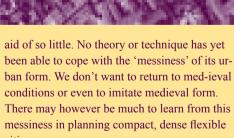


order mediates conflict and difference (not to be confused with mixed-use). We have sought to consider this over the long term through cycles of change – such as the present trend to

reuse and adapt of existing buildings. Cities are in a permanent state of m morphosis. This change is not simple, there is an element of recollection, a dialogue between past and present. For example current initiatives to promote higher densities can learn much from the past. Urban order derives from processes of change spanning years, decades or even centuries. This is what we term 'urban metabolism'.

In our search for an alternative to the dispersed and the fractured post-war city, the medieval city remains a pervasive paradigm. Not just its form but the processes by which it arose and its ability to respond to radical cultural change without undermining the fabric of urban life. By comparison 'tailor made' cities designed to accommodate change are often found lacking.

It is ironic that the medieval city is a focus of so much theory and yet came about with the

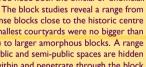


Investigating the Urban Block

Between 1997 and 1999 students in Cambridge carried out research into the urban block structure of Cambridge, and Padua and Como in Italy. The studies involved historical analysis followed by numerous city walks and detailed mappings of representative urban blocks. The activites of each block were mapped and photographic surveys undertaken of the internal and external spatial relationships.

In contrast to modern blocks, the historic urban block is characterised by a deep hierarchical structure from perimeter (public) to interior degrees of privacy. We use the term 'depth of block' to refer to the structure of block density and to suggest the richness and diversity of life sustained by the block.

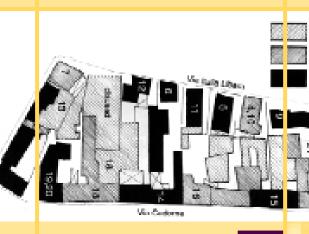




The fabric and activities of the block perimeter have remained stable with 19th Century frontages onto the main arteries. However within blocks is a more varied range of buildings and uses which change more rapidly - including specialised shops workshops, a bus depot, schools, gardens, housing and offices.

out the 24 hour cycle while the interior is more dependent upon opening and closing times with pockets of almost permanent the school for example, are animated for

only short periods. the hierarchy of secondary streets, arcades, alleys, courtyards and gardens maintains the is public life entirely excluded.





All Mixed Up?

There is currently great interest in creating 'socially balanced' communities. However in

reality creating them is a difficult process Ben Wilkinson reports on experience from the Holly Street estate in Hackney.



s and squares: ture of post-war fficult to change, open up new

ase permeability the quality of Such improveimportant ntal works and

Promoting a unique iden-

tity: Post war towns may never fully match the character and interest of a historic town. There are however opportunities to develop strong identity building on the strengths of the town and recapturing some of the excitement of the post-war era as has happened through lighting schemes in Croydon.

Study 2: Cambridge (UK) and Padua (Italy)

Cambridge and Padua are historic cities undergoing radical growth. They have similar populations but Padua occupies approximately a third of the area of Cambridge. In Padua we identified two broad types of urba

block - small central blocks and larger blocks with greater depth and diversity.

Centre city blocks of 50-80m are typical of Italian mediaeval / renaissance cities. At 5-6 storeys they are about twice the height of their Cambridge counterparts. The interior spaces range from Cortili to terraces and light wells. Their occupation is vastly more diverse than Cambridge and changes over gener-ations. Masonry construction allows for rapid and inexpensive reconfiguration and adapt-ation – dwellings can easily transform into offices, shops, small workshops etc..

The second type of block is much larger (150m x 100m up to $400m \times 250m$) and is found between the 12th and 14th Century walls. These blocks are similar in outward appearance. However inside the block there are several layers of development stepping back from streets. These blocks support dwellings, playgrounds, schools and even University departments and large offices. The interior is made up of buildings of different scales and includes gardens, basement parking, small interior streets, narrow lanes and public gardens.

There is only one block of such size and complexity in Cambridge - bracketing the 2-storey domesticity of Gwydir Street and Anglia University. For the most part Cambridge is characterised by low rise residential blocks or denser blocks dominated by University uses.

Summary and Conclusions

Three themes emerged from this work:

The role of measures: Different scales support different types of activity.

The role of history: The evolution of block configurations and the cycles between the permanence of the block and changing situations and architectural settings.

Urban/architectural order is only the background to the active life of a city. However this background is a deposit for tradition and the context

The role of blocks: Lack of sensitivity in more recent blocks has created dead zones. This is evident in Como's modern housing blocks, but also in recent office/shop develop-ments where 'semi-public' space confuses architecture with urban structure and creates spaces which are neither 'here nor there'.

Block depth and structure provide a matrix sensitive to the interaction between different uses and those of the whole, as well as providing a topography sensitive to cyclical change over time.

Philip Meadowcroft runs a practice in London and has taught with Dalibor Vesely and Peter Carl at Cambridge University since 1986. This article has been compiled from recent articles and reports written by Peter, Carl and Cam-

Contact

Philip Meadowcroft, Meadowcroft Architects Unit A2, Linton House, 39-5 | Highgate Road London NW5 1RT t. 0207 692 2117 f. 0207 692 2118 e. philipm@mdarch.demon.co.uk

he current response to social exclusion is to create 'socially balanced' communities, comprising a mix of local authority, Housing Association and owner-occupied property – with a population comprising working & non-working households, young & old, single people and families. PPG3 now advises planning authorities to "create mixed inclusive communities, which offer a choice of housing and lifestyle". This theory has been instrumental in the redevelopment of the Holly Street Estate in the London Borough of Hackney.

'Socially Balanced' Communities

A 'socially balanced' community may (in theory) be 'engineered' by redevelopment of local authority estates, with inclusion of Housing Associations and owner-occupiers. Although tenure is not indicative of social group perse, the financial requirement of home-ownership implies a community with contrasting income, social and cultural characteristics.

The economic rationale is that mixed communities sustain more prosperous local economies and better public services. This derives from the location of working households, with their involvement in the labour market, and higher incomes improving provision of shops and facilities, widening the variety of role models, and encouraging ambition. Moreover, there are formal and informal social contacts which can help unemployed people to find work.

There may also be a greater proportion of two-adult households, and there might as a result be fewer problems (for example, noise, graffiti, vandalism) resulting from a high density of children. Such a community may be able to absorb 'problem households' without being overcome by them. In this way, deprivation is dispersed rather than concentrated, and there should be less stigma attached to particular places. This dispersion may also restrict 'red lining' of areas by institutions such as banks.

Local Background

The 'Old Holly Street' Estate was built by Hackney Council in the late 1960s, with four 20-storey tower blocks and eighteen mediumrise blocks of interconnected flats & maisonettes; a total of 1,187 dwellings However its design & layout exacerbated the social and economic problems. Towards the end of the 1980s, the estate had become notorious; police would attend only in large groups, and delivery services & taxis refused to enter at all.

The housing-led redevelopment programme has aimed to provide new and improved community facilities, to generate and maintain employment, and to build stable, mixed communities. Hackney Council also recognised that it was a poor landlord, and ownership of over half of its stock was transferred to Housing Associations, and 20% to a private developer.

Five different Housing Associations were appointed with each catering for a particular social group, while collectively aiming to create a sense of community. An example is North London Muslim Housing Association, which provides interpreters for Turkish tenants. Furthermore, Housing Associations tend to have 'grass-roots' style of management, which enables tenant involvement in local decision-making, and increases the likelihood of improvements being sustained.

Fostering Social Contact

The inclusion of owner-occupied housing enabled Hackney Council to oblige the developer to provide various community facilities and environmental improvements, for which a total of £700,000 was negotiated. The council hopes that the facilities provided on the estate (Sports & Community Centre, Early Years Centre, Elderly Day Care Centre, adventure playground, Health Care Centre) will stimulate people of different tenure to meet. The facilities are also

advertised Borough-wide, to encourage people external to the estate to use them.

It has been advocated that tenure, in itself, is a minor barrier to social contact, and that such facilities encourage an estate-wide sense of community to develop. Community facilities, although tending to be used by only a minority of residents, do bring people together. Of these, schools & nursery schools are by far the most important local amenity for non-street contact. Moreover, child-centred activity can foster social interaction between parents, and this can then help develop mutual tolerance and understanding. It is therefore encouraging to note that there is already an 'Early Years Centre' within Holly Street, and a school at the north end of the estate.

PPG3 recommends that housing developments should present a wide choice of tenures at block, street and neighbourhood level, in a way that does not distinguish by grouping or house type. Indeed, the redeveloped Holly Street Estate consists of a series of phases, each with a slightly different design, in order that tenure cannot be deduced from physical appearance.

It has been observed that the level at which different tenures are integrated is critical, with mixing at street level preferable to separation in different areas of an estate. Despite Holly Street comprising a mix of tenures, with no physical barriers between them, they are allocated to phases, and do not fully integrate on a door-to-door level.

Contact

Ben Wilkinson, 2 Heddon Court Avenue, Cockfosters, Barnet Herts EN4 9NE - Tel: 0208 441 8655 E-mail: benwilkinson@accenture.com

Demos (1999) Living Together - Community life on mixed

Holly Street Neighbourhood Perceptions

A study explored the contrasting perceptions of residents from the different tenures. This revealed that despite general optimism, there is currently little social interaction on the estate. Holly Street currently appears to comprise two communities; local authority tenants (all of whom live in a tower block) and Housing Association tenants dispersed in low-rise property. The former have very few family or outside of their tower.

In contrast, the perception of Housing Association tenants is proactive. Residents appear knowledgeable of the tenure mix, and aware of potential advantages from integration. 90% regard the estate as a neighbourhood in which they feel at home, and most have forged friendships with their new neighbours.

31% of respondents do not regard any of their neighbours as friends, seemingly contradicting the observation that 87% of respondents regard their local area as a neighbourhood, in which they feel at home.

This low affiliation to their local area may represent a distinction between individuals' social and physical neighbourhood boundaries. This may reflect how an increased female workforce, leisure time, and ownership of cars & telephones, have expanded social networks,

and lessened the importance of the immediate neighbourhood for social interaction.

Respondents were asked to state the tenure of their friends. This exposed the tendency for people to be friends mainly with others of the same tenure. This links to research showing that most new mixed estates are not characterised by inclusive social networks - suggesting that although contact increases with time, this is constrained by the physical separation of tenures (as in the case of themselves only with near neighbours.

Only Housing Association respondents appear to have actively sought to live in Holly Street. The local authority respondents were largely decanted from their pre vious homes, and the owner-occupiers were attracted to the district of Dalston, rather than to the estate. Moreover, the owner-occupiers interviewed do not consider there to be advantages from living on a mixed tenure estate. In contrast, 80% of the local authority and Housing Association respondents do perceive potential advantages.

Hackney Council hopes that contact will form and flourish within the community facilities. The Council believes that "one of the most important elements of a sustainable community are: 'resident-led' organisations and facilities able to adapt & react to future challenges,

and continue to thrive without further major investment". However, when interviewed the Holly Street Senior Project Manager suggested that the family-orientated structure of the estate may reduce community activism. He explained that family activities in the evening prevent parents from attending meetings.

He also revealed that the redevelopment's design & layout had been directed by a small group of residents. Many of these 'diehard' activists lived through the last war, and he s that their enthusiasm emanates fi the community spirit of those times. Moreover, he suggested that the younger generation do not have a similar community spirit, implying that the potential sustainability of the community may decline in the future.

If Holly Street is to be regarded as sustainable, therefore, there has to be a body of people wishing to live on the estate. Before redevelopment 80% of residents were actively seeking to leave, and only 2% thought they would return. However, 50% of previous residents returned, and 91% expect to remain long-term.

However, considering the scale of the ongoing investment and improvements achieved, it is not surprising to observe optimism at this stage. Five years should provide time for social & economic interactions to form, and a study then would enable a more definitive conclusion to be made.

Smithfield Energy

The SUN Initiative worked with Environmental Power to assess the potential of CHP to supply energy to ICIAN Developments' Smithfield scheme and CIS in Manchester. Nick Dodd describes URBED's experience of the process

n 1999 Manchester City Council held a design competition for the Smithfield site in the cities Northern Quarter. ICIAN Developments (an AMEC Developments and Crosby Homes Joint Venture) won with their mixed use proposal comprising 250 flats and 20,000 sq metres of workspace and commercial uses. URBED wrote the environmental brief, with proposed measures including SAP 100 performance flats, a Combined Heat and Power (CHP) system, a car share scheme, and recycling services.

CHP and District Heating

Our proposal was that Smithfields energy could be supplied by a CHP system, potentially cutting CO₂ emissions by as much as 70%. We also proposed that it be delivered by a new local Energy Service Company (ESCo) 'Smithfield Energy'. The risks associated with the £2.5m CHP investment would be managed by the ESCo rather than ICIAN, who are already managing the property development risks.

Modern CHP uses gas fired engines or turbines to generate electricity, with heat normally wasted by large power stations distributed to local customers via a District Heating network. This raises primary energy efficiency from 30-40% for a normal power station to more than 80%. In summer waste heat can also be used for absorption cooling, displacing electrical air conditioning loads, allowing CHP to meet the full heat and power load for a site.

There are some urban CHP and District Heating schemes in the UK but the potential has never been realised, suffering from the legacy of poor quality systems installed in the 60's and 70's. The CHP industry has matured and the technology has advanced as a result of investment in mainland Europe. Recent UK schemes in London (Citigen), Woking (Thameswey) and Southampton (Utilicom) have demonstrated its viability. Thameswey have developed a number of pioneering schemes (see case study).

Smithfield and CIS

Recognising the need for a partnership approach to overcome potential problems we decided to work with Environmental Power, an Anglo-Irish company backed by Manchester based developers. They had developed the successful Temple Bar CHP scheme in Dublin - a scheme with a mix of uses not unlike that planned for Smith-

Smithfield will be phased over several years, making it difficult to justify investment in CHP until heat and power loads have built. This situation could be transformed if we could identify some additional loads. We approached the Co-operative Insurance Society (CIS), whose 24 storey listed 1960's head office is across the

We met with CIS's Energy and Business Property Managers to discuss their potential involvement. CIS have been developing their social and environmental policies and CHP represented a practical opportunity to reduce their environmental impact. They required assurance of the 'practicality, viability and environmental benefit' of CHP, with reliability of their power supply being a key issue.

We were able to show how CHP would be exempt from the Climate Change Levy and how a combination of CHP and the local Grid would ensure reliable power. Representatives of CIS and AMEC Developments also visited the Temple Bar CHP – as 'seeing is believing'.

In terms of reliability of supply experience shows that modern District Heating systems with standby boiler plant deliver the same reliability as gas and electricity. The reliability of a CHP electricity supply is greater than normal with two layers of security - the CHP unit (which can operate as a standby generator) and the local network supply.

Feasibility Study

A feasibility study was carried out to validate the initial work. This revealed that with the direct sale of electricity to occupiers (avoiding NORWEB's distribution charges and NETA's low prices), and a premium rate for heat sales to the flats (matching economy 7 tariffs for electric heating systems), a 'Smithfield-only' CHP scheme could be viable, with distributed boiler plant and CHP installed in year 3 or 4. However the phased nature of the scheme created uncertainty for investors and raised a number of issues relating to choice and marketability:

road from Smithfield.

Specification of all buildings with centralised 'wet' heating systems and independently owned power connections.

Requirement for residential customers to buy heat and power from 'Smithfield En-

Requirement for commercial customers to sign-up to long-term energy contracts to guarantee capital investment,

The Smithfield / CIS combination was potentially the most attractive proposition for investors. However, the heat and power profiles for CIS tower were mismatched, with the building requiring significant heating at the beginning of the working day. CIS's tariffs are also very low, even with the Climate Change Levy and current high gas prices. This together with punitive standby tariffs (17.36p/KWh) and NORWEB distribution charges (a direct power supply to CIS was not possible) ment that CHP would not be viable without several improvements to the business plan:

- Gas prices are currently high but medium to long term, analysts predict a decline,
- Lower gas prices could be negotiated by working with CIS and the City Council,
- Power could be sold to other sites in the city on higher tariffs and with low Distribution charges (eg. 0.25 p/KWh),
- The 7 year payback and 10% discount rate was too stringent. The investment requires a longer term and lower discount rate.

Together these points illustrate how a CHP business plan can be improved, and the problems encountered in delivering CHP.

Residential Heating

An issue for ICIAN to address was District Heating for owner occupied flats, something that is unusual for the UK. Notable examples include Barratt Homes' 108 flat Park View development in Southampton and Countryside Properties / Taylor Woodrow's Greenwich Millennium Village. Further afield in Dublin, the marketing for Temple Bar Properties has emphasised the environmental benefits.

Making District Heating saleable would require it to be cost effective, user friendly, reliable and perceived to add value to the properties - all achievable with modern systems. Benefits include reduced maintenance, no gas safety risks, and controllable 'wet' space heating. Heat meters have also reduced in price, and costings revealed electric heating systems are no cheaper. Metering and billing can be subcontracted to companies such as Viterra who can provide a complete service.

In anticipation of potential marketing problems we ran four focus groups with MORI to test owner occupiers reactions. Electric heating systems were perceived as being substandard. There were less concerns with security of supply than expected, and most were happy to forfeit choice of supplier for more environmentally friendly heat and power. There was however distrust of the big utilities, and concerns that there would be nothing to stop the operator hiking up prices.



Our experience with 'Smithfield Energy' is that the main barriers were a flexible approach to investment and energy supply. This required a longer payback period than UK utilities are willing to consider. We proposed establishing a not-for-profit company to borrow money against long-term supply contracts and over a payback period a bank would be willing to lend over. Initial discussions with the Co-op Bank suggest a 15-20 year term would not be unreasonable.

The company would need a strong local identity to explain the benefits and overcome distrust of the utilities, as well as backers able to provide strong Deed of Covenant. Utilities are also currently split into generation, distribution and supply businesses a CHP scheme requires bringing together all three areas of experitse.

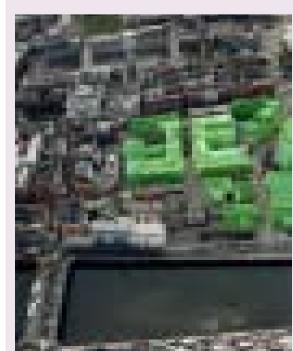
The Royal Commission for Environmental Pollution (RCEP) recommended developing urban heating networks. In Berlin for example heat, power and cooling for the new Potsdamer Platz is supplied by city energy utility BEWAG who manage one of the largest District Heating networks in the



Temple Bar, in heart of Dublin, represents the most successful brown field redevelopment project ever undertaken in Ireland. Temple Bar Properties, set up by the Irish Government in the early 1990s redeveloped the city centre site providing over 100 new retail units, 350 apartments, and stimulating over €125 million of private sector investment. The Dublin Corporation's Civic Offices are located beside Temple Bar consisting of around 25,000 square metres of office space.

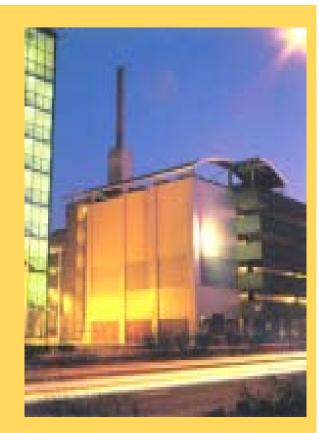
In 1996, Dublin Corporation and Temple Bar properties separately commissioned energy audits. The high heat demand of the residential scheme and the high power demand of the Civic Offices indicated that CHP could be

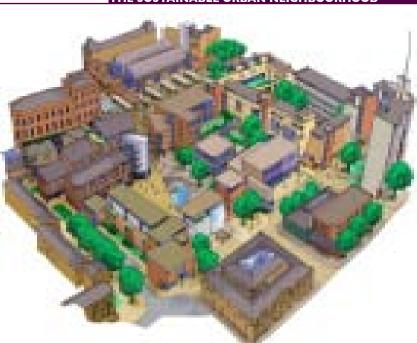
The five hotels in the immediate vicinity created further potential, ranging from 120 bedrooms to a medium-sized student hostel. An appraisal was carried out and showed that CHP



Case Study: Thameswey Energy Services

Thameswey is an Energy Services Company (ESCo) established as a joint venture between Woking Borough Council and a Danish investment foundation. Woking have pioneered investment in CHP to meet their energy efficiency targets - in particular the use of private electrical networks to maximise revenue, absorption chillers which use waste heat during summer, and the UK's first 200 KWe fuel cell CHP unit which will supply heat, power, cooling and fresh water to a swimming pool complex. Phase one of Woking Town Centre CHP started operating last year consisting of a 1.46 MWe gas engine, a 1.4 MWth absorption chiller and a 160 m³ thermal store supplying civic offices, a car park, a 162 bed Holiday Inn hotel, and a leisure complex. The energy technology has been stacked vertically in a specially designed energy centre. Thamesweys long-term investment potential has been proven through the interest shown by a number of pension companies. Thameswey are looking at CHP for the Brighton New England Quarter, following URBED's Sustainability scoping.





t Manchester did Yesterday.....

Manchester had a successful CHP scheme going before the first world war. The old Bloom Street power station on the banks of the Rochdale Canal in central Manchester opened in 1898, to meet soaring demands for electricity to power Manchester's trams and light its streets.

At the time Bloom Street was the most advanced power station of its kind in the country with a capacity of 7.2 MWe derived from four reciprocating engines. Steam to drive the engines came from 11 Babcock & Wilcox boilers, fed by chain-grate stokers fed from the coal bunkers supplied direct from barges on the adjacent canal by two travelling electric cranes. In 1911 Bloom Street became the first power station in Britain to introduce Combined Heat and Power. It began to supply low pressure steam to heat textile buildings in Oxford Street including the giant Calico Printers Association offices, now St James's House.

In due course other businesses up to a mile away were hooked into the system via a network of underground pipes, among them the giant Refuge building (now the Palace Hotel), the Ritz Ballroom, and the Palace Theatre.

It worked well through two world wars, but in 1948 the new British Electricity Authority decided it wasn't in the business of supplying steam and proposed to discontinue the service. It changed its mind when UMIST opted for district steam to heat its expanding

To match these achievements Local Authorities in the UK will need to provide active support to projects and use the planning system to create the right conditions for investment. At Smithfield there was no requirement to install CHP, or to make new buildings compatible with a future District Heating supply.

The irony is that for the UK, local energy systems would bring us full circle, returning to an approach which was common pre-war – as demonstrated by the story of Manchester's Bloom Street Power Station (see case study).

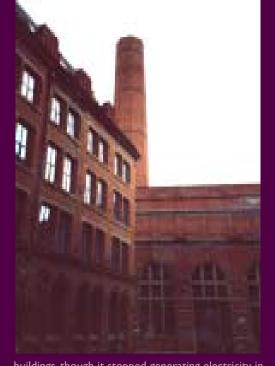
Nick Dodd is URBED's environmental consultant and is based in the Manchester office.

would meet the required investment criteria. Eight potential energy users were approached and subsequently committed to tariffs which were either the same or better than existing.

Funding was a combination of a THERMIE grant from the European Commission and private sector investment. The scheme commenced operation in January 1998 and now supplies heat and hot water to five hotels and 249 apartmens as well as electricity to the Civic Offices.

From an environmental perspective the CHP scheme has been a remarkable success. Primary energy consumption has been reduced by 35% and this has reduced carbon dioxide emissions by 48%. Cost savings to end users are in the region of 55%. The scheme recently won the prestigeous Bremen Award for collaboration between a municipality and the private sector.





buildings, though it stopped generating electricity in 1950. In the 1980s, however, as first Refuge and then UMIST switched to conventional boilers, the system became uneconomic and ceased operating in 1989.

Originally published in 'Manchester Forum'.

Reproduced with permission of Manchester Civic Society.

Last years the Urban Design Group visit to a cities on the Swiss, German and French border, including Berne, Freiburg, and Strasbourg, highlighted the gap in the standards between Continental town centres and their British

The lure of the Continental City, with its smart shops and cafes, and high quality public transport system, cannot be easily explained. For it is now just as evident in the cold and Northern cities of Sweden and Denmark, as it is in the warmer and more Southern countries.

Their higher quality of life is undoubtedly helping to boost their economic performance, with much higher levels of business formation, and lower levels of property vacancy. They are also successful in attracting young people to live near the centre, thus generating the revenue to sustain a much better public realm and public transport system.

Creating a Civil Society

Whereas we encouraged the flight to the suburbs through tax incentives for home ownership, while concentrating the poor in the inner cities, they have created a more classless society which shares the same streets, trams, and schools. Perhaps as a result there is less of the 'yob culture' that characterises most British towns. This 'civil society' may also explain higher levels of educational attainment.

The Germans say 'town air makes man free'. Continental towns have nurtured their centres, controlling the amount of out of town development (with the exception of the French). Instead of the same multiples everywhere, or faceless covered shopping centres, there are a succession of interesting clothing and food shops, with independent businesses playing a more important role.

Rather than wasting resources on too many redevelopment schemes, they have put investment into beautifying their streets, gradually extending the pedestrianised area and restricting private parking. The streets are not cluttered with yellow lines, guard railings, and poles, but instead are designed to make walking and cycling easy and safe.

While in smaller towns, like Rottweil or Breisach, for example, the focus has been on excluding traffic from the centre, and upgrading the quality of the suburban train service, the larger towns have created an integrated public transport system that ties the suburbs and centre together. The work needed to install or extend the trams has been combined with measures to

Why are Continental Cities doing better?

The UK often looks to mainland European cities for inspiration. In the first of two articles **Dr.**Nicholas Falk reports on his findings from a recent study tour



in areas ripe for development.

The streamlined Strasbourg trams were designed and built in England (though unfortunately the manufacturer closed down for lack of further orders). The trams offer a number of benefits over the preferred option in Britain of better buses:

- · a smooth and quiet ride, offering an attractive alternative to the private car
- · reliable services with weekday frequencies of every three minutes during the week
- \cdot high capacity, so that six cars would occupy the space taken by 350 passengers
- · plenty of space left for pedestrians and cyclists, as trams occupy a narrow reservation
- · low floors with easy access

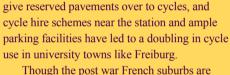
The trams add to the urban environment with their stylish good looks and are excellent for sight seeing. Sophisticated ticketing systems allow the use of credit cards, and the machine also displays the times of the next four services.

At key points an easy interchange can be

At key points an easy interchange can be made with car parks, and also buses. There are plenty of spaces to park cycles, and these can also be carried on the tram at off peak times. At the main station, the line goes underground, creating a vast new public square. A shop hiring cycles is located close by in one of the many pedestrianised streets.

The tram has become a symbol of the Continental City's concern to apply environmental policies and sustainable development principles. Financed by the municipality, or groups of authorities and the government, it demonstrates the role that urban communities play in creating a civilised and progressive European community.

Dr Nicholas Falk is a founding director of URBED and is based in our London office.



often depressing places, the Germans are now building high density settlements at around 70 to the hectare that create ideal conditions for families, with large balconies and shared common garden in courtyards with play facilities. Just as traffic has been tamed, so nature has been encouraged to soften built up areas, to create a sense of harmony and beauty

The success of all these measures can be attributed to the proactive role that planners have played, including drawing up master plans, assembling sites, and putting the infrastructure in. Though German authorities are now much more pressed for funds, as a result of reunification, and now are looking for contributions from property owners towards schemes, the municipality still plays a key role, with the Federal government being very much in the background.

Urban transit

A key element of the successful Continental City is a high quality urban transit system. Based on the tram, with connecting buses, the system also includes a much upgraded suburban train system, as well as an emphasis on cycling and walking.

Unlike British towns, which cleared away their trams in the 1950s to make way for the car, Continental cities modernised and extended their systems. One of the most impressive is in Strasbourg where a completely new system has formed the backbone of their transport policy.

Four lines cross the city, and the latest was only open in late 2000, The lines extend out of the city into the suburbs, connecting up with out of town attractions like universities and office parks. The terminuses often seem to be located



The Future of the Urban Water Supply

Chris Shirley-Smith from the Metropolitan Water Company discusses future directions for our towns and cities' water supply, and the potential to develop 'green loops' in the water cycle.

ince privatisation in 1989, much water has passed under bridges and along pipelines. However, the basic cycle has changed little for over a century. The opportunity now exists for appropriate interventions into urban water provision. Flexible water companies are in a position to grasp these opportunities and in this, the Metropolitan Water Company (MWC), one of the Enviro-Logic Group of Companies, is leading the way.

The Legacy of Privatisation

The privatised Water Companies inherited water distribution and waste water systems in which infrastructure and management practices dated back to Victorian Britain. As a matter of necessity the new companies set about reinstating, reforming and reinvesting in the hardware and personnel.

With the emphasis placed on technological solutions, many practical skills, common sense and experience were jettisoned in the process, shareholders reigned supreme, and service to customers appeared to deteriorate, poorly managed drought events apparently proliferated and accountability still seemed remote.

Unfortunately this situation has not been fully redressed even today. The water industry claims it is now over-regulated and that price determination, environmental directives and the rules for new competition are too prescriptive and stifle commercial initiative.

The industry appears far from willing to regulate itself in a fair and unbiased manner, hence the essential role of the Regulator, Ofwat (The Office for Water Services). However, there are signs of change within the industry. Companies are recognising the value of the Victorian legacy and are flexibly adapting and blending the best of ancient and modern technology to new purposes which will most benefit today's urban resident as well as challenging the costs and manner of water provision.

'Mini' Water Systems and 'Green Loops'
It is accepted that the major urban water and waste water systems are, by and large, the most effective way to manage the regional scale transport of water. That they require new investment is undisputable. That new investment has taken place on an unprecedented scale needs to be recognised for its major achievements – for example the Thames Water London Ring Main, the new water main linking Birmingham and Coventry, and excellent sewage treatment schemes around the country.

Against this background, there is now the opportunity to develop 'green loops' in the urban water cycle which are technically relatively simple to achieve and environmentally friendly in operation. Principally, these 'green loops' save energy in water transmission, are more economical, supply a quality of water more appropriate to end-uses, reduce leakage, and recycle a significant proportion of water on-site. In so doing, they can reconnect people with the processes involved in the provision of water

Stemming from MWC's work as part of the GARDIT project to reduce the impact of London's Rising Groundwater through the sinking of abstraction boreholes, we have begun implementing such water systems which fit within the existing infrastructure framework.

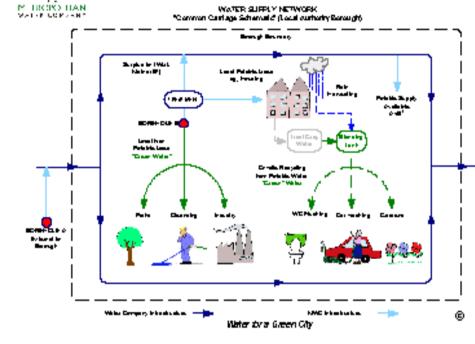
Technically, and with due regard to the Competition Act (1998), areas within prescribed boundaries supplied by companies other than regional water suppliers ('The Incumbent'), are known as 'Inset Appointments'. Licences are issued by Ofwat to companies able to deliver a service fulfilling the requirements of the Drinking Water Inspectorate (DWI).

Under the Act, Water Companies are obliged, subject to water quality assessment and compatibility, to make their infrastructure available to other licensed companies for the transmission of water. Whilst this has not been entirely resolved in practical terms, it opens up the possibility to develop a scheme, for example, whereby an urban borough council with many diverse outlets for water might be supplied from its own boreholes via network access (or 'common carriage') by arrangement with a licensed water company (see diagram).

Taking this scenario one step further, MWC is in a position to combine water abstraction,

water treatment to a quality appropriate to end use, and water distribution of both potable (drinking) and non-potable recycled and/or low grade ('green') supplies. Given that some 30 - 40% of domestic water onsumption does not need to be treated to fully potable standards, for example water used for toilet flushing, gardening and car washing, it makes good economic sense to treat grey water (ie that which is collected from baths, hand basins and showers) or waste water on site to produce 'green water' for recirculation.

Project Developments
Whereas there are a
number of patented
systems on the market to
treat grey water within



individual properties, MWC has chosen to concentrate on systems which process larger volumes of waste water on a community scale basis without compromising quality.

MWC is currently working on two practical projects. The more ambitious of the two is 'BedZED' (The Beddington Zero Emission Development in Sutton, Client: Peabody Housing Trust, Architects: Bill Dunster Architects). In this scheme of some 90 housing and live/work units we (as our Licensed sister company Albion Water) are the statutory undertakers for water and sewerage services.

We are working with Living Technologies to provide an on-site sewage treatment plant which will produce a high quality effluent ('green water'). The green water is blended in storage tanks with rainwater harvested from the roofs and supplied back to the buildings for non-potable re-use. We have also specified 'green water' pipework with unique dimensions to ensure that connections cannot be made to the potable supply by mistake.

The total volume of green water supplied will be around 50m³ per day. This will provide sufficient water for toilet flushing and subsurface irrigation. The overflow is of sufficiently high quality to be discharged to surface ditch. Nonetheless, an emergency back-up sewer connection to the Thames Water sewer has been constructed in case of any problems.

The second project in which MWC is involved is the 'Green Roof Water Recycling Scheme' in which we are collaborating with partners to create a simple roof-based 'grey to green' water cleansing system for multi-storey – multi occupancy, urban new build residential housing blocks (see diagram). The pilot scheme has been constructed at Middlesex University and is currently undergoing trials.

In conclusion - we hope that by demonstrating these projects in practical settings the value of this approach will become clear to architects, engineers, housing providers and those whose interests lie in the future.

The future of such 'green loops' looks distinctly encouraging. It is recognised that such loops are important refinements of existing systems which can bring significant benefits, particularly financial to people on lower incomes. The benefit to major suppliers of such schemes being the reduced investment required to develop new water resources.

Contact

Chris Shirley-Smith
The Metropolitan Water Company
Riverview House
Beavor Lane
London
W6 9AR

Tel: 0208 741 6505 Fax: 0208 741 6060 E-mail css@enviro-logic.com

Container City

John Burton describes 'Container City' affordible creative workspace in East London developed using shipping containers.

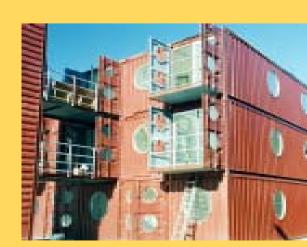
At Trinity Buoy Wharf, Urban Space
Management (USM) have a 124 year
lease and Development Agreement to turn the
site into a centre for arts and creative industries.
This means that we cannot charge large rents
as we are not allowed to have straightforward
commercial activity here. Thus the capital value
of any new building is around £35/sq.ft. New
build costs around £110/sq.ft and this is in a part
of London that was not eligible for any capital
grants at the time i.e. a huge gap with no filling.

The Opportunity

There is a huge demand for small workshops for creative industries in East London with a rapidly dwindling supply. Most of the old warehouses are being turned into residential lofts (often needed to hold the artwork created in them in the first place).

The Solution

USM had been using shipping containers as storage for some time and wanted to use them in new ways. Inspired by examples from Holland and various parts of the USA, USM came up with the idea of workshops using second hand containers and adapting them to create small workspaces. After research showing that this would be cheaper than purchasing porta-cabins USM took the risk on the first phase and build 4,800 sq.ft of space.





Making it Work

A rich variety of different forms of workspace is important in developing a diverse urban economy. Here we bring together three articles describing innovative workspace schemes.

Tom Young describes the Allcroft Studios live/work scheme proposed for Kentish Town in North London. John Burton describes the 'Container City' creative workspace in East London. Michael Taylor describes the ExpressNetworks 'new economy' workspace in Manchester.



The Process

Container City 1 consists of 15 containers on 3 levels (5 x 40 foot containers stacked side by side) with one container on its end to act as the stair tower. Internal walls were largely ripped out and columns put in to support the ceilings. New circular window openings were made and all external walls were insulated. Internal spaces were divided up with new partition walls. The upper floors all have central lobbies and all the units have balconies with sliding doors. Access to the ground floor units is via the original doors. The whole thing was painted with uniform red lead oxide colour.

All units have plaster finish with their own water and power supply. Tenants include artists, sculptors, arts administration firms, and craftspeople. We believe that this is the only example in the country of this type of development (though there are rumours that there is something similar in Birmingham). It is around 80% recycled - all the containers are second hand. USM hope to produce more of these in other situations. They can be dressed according to the location - keeping the metal exterior was important at TBW as this is a Thames-side location. Overall the cost to build was £29/sq.ft.

Container City is an initiative of Eric Reynolds - Managing Director of Urban Space Management. Design by Eric Reynolds and Nick Lacey of Nick Lacey Architects.

Contact

John Burton Urban Space Management Trinity Buoy Wharf 64 Orchard Place

Tel: 0207 515 7153 Fax: 0207 531 9786

Allcroft Studios

Tom Young describes Allcroft Studios, a proposed live-work scheme in North London. The Studios form part of a focus on economic development rather than purely housing based regeneration.

The restricted scope of thinking about the urban scene in West Kentish Town is reflected in the terrible quality of workspace currently available in the area. Most is cold, dark, hostile workshop accommodation that presents a very reduced idea of the world of work.

The Studios are an attempt to enrich the area by presenting a new vision of work that is encouraging, secure, comfortable, varied and linked positively to the existing local centre.

The building is designed to ensure a highdegree of security. Burglaries are disastrous for small businesses so potential occupiers need to know their investment in equipment is safe in the building. Equally important are low overheads. Green construction technology can offer reduced running costs. We plan to develop the green construction approaches when funding for the project is realised.

Live-work is not new. The ordinary London shop-house, with a ground floor retail unit onto the street and a home upstairs is an obvious traditional example. Near to the Studios are many examples of purposed built artist housing dating from the end of the 19th Century. Much of this artist housing is of the highest quality and is very inspiring

The urban background around the Studios is mixed and it will be situated next to a parade of three-storey 19th Century brick shop-houses. Immediately to the rear of this parade are freestanding modern housing blocks and a small workshop complex all built in the early 1970s.

The discontinuity between the 19th and 20th Century fabric is handled poorly with raw terrace-ends showing demolition during comprehensive redevelopment. The Studios respond to this problem by building off the exposed terrace ends and creating a centred, courtyard building that provides a proper back to the rear of the shopping parade, thus sealing the boundary between the 19th stock and 1970s buildings.

Contact

Tom Young 80 Lamble Street NW5 4AB Tel: 0207 267 7567 E-mail: thdyoung@compuserve.com

Renew Kentish Town http://www.renewkentishtown.net/

Express le mor

Michael Taylor describes ExpressNetworks in Manchester which is designed to cater for the needs of 'new economy' companies

roposed for a brownfield site next to a

neighbourhood centre in West Kentish

It offers the possibility of creating a vibrant

Town the Studios whilst small for a live / work

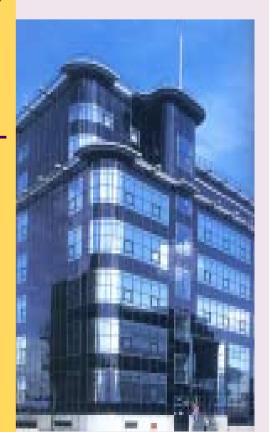
scheme, reflects the conviction that the area is

live-work community within one building and

with convenient access to various workspaces, a

shared garden, roof terraces and meeting rooms.

a good place to setup a small business.



he first truly 21st Century workspace is taking shape in the unlikely environs of Ancoats in Manchester, under the guidance of property pioneer Carol Ainscow. Located in the Express building, United News' former art deco printworks, ExpressNetworks will be the North's first fully wired managed workspace for new media companies.

It will consist of 30,000 sq ft of flexible office space, including shared facilities such as meeting rooms and video conferencing suites, as well as 22 live-work apartments, all linked to state-of-the-art telecom and IT infrastruc-

ExpressNetworks is pitched firmly at the major economic force. Young companies at the cutting edge of the technology and creative industries share a culture which demands flexible space, with leases as short as three months; "The key is the flexibility because the office market is so restricted because most offices offer five year leases and up."

The target tenants have been showing a keen interest, with inquiries from PR companies, graphic designers, recording studios, software companies and an internet bank, even before any marketing effort. They have typically been asking for around 1,000 sq ft. The building may take in one anchor tenant, but nobody so big that they swamp the rest of the development.

"We have had quite a lot of enquiries," Ainscow adds. "mostly in the £3 million turnover class. We don't want to discourage anyone

- if you want a two person office, we can take that." The intention is that the tenants will build up a community, beginning with contacts made in the shared spaces and ending with referrals of work to each other. Ainscow also plans to make incubator funds and a range of professional services available - including a legal practice, accountancy firm and marketing consultancy.

The telecoms infrastructure will be at least as great an attraction. The main feature will be broadband connections of up to 155Mb/s. Artisan has shortlisted four or five telecoms companies for this core service. "It might be we have more than one supplier...because that keeps competition," Ainscow cannily notes.

Artisan is also looking at providing 'plug and play' capability for IT services to save tenants the capital cost of computers, and, in an extra futuristic touch, is considering offering voice recognition. As with the layouts and terms, flexibility is key. "We've tried to design, particularly with the wiring, that as new technology appears we can build it in," Ainscow says. "We're thinking long term. If you wanted fibre direct from a hub to your desk, we could do that within half a day."

Residents of the live-work apartments on the top two floors of the building will also be able to tap into the communications muscle of the office suites below, even though physical access will be separate.

Article reproduced with kind permission of the North West Business Insider magazine

Contact

Michael Taylor Tel: 0161

E-mail: michael.taylor@newsco.com http://www.newsco.com





Lessons from Freiburg

Freiburg in Germany is admired for its public transport systems and radical new developments such as Vauban. In his second article **Dr Nicholas Falk** reports from his recent study tour.

ocated in the South Western corner of
Germany close to the Swiss and
French borders, Freiburg is a university town
in an area that has benefited from high tech
industry. The town's population is 135,000,
with a further 60,000 living in the suburbs and
outlying hamlets and 53% of the Urban population are single and only 17% of households
have children under 18.

The centre was heavily bombed, and so after the war, the city had to start by restoring its ancient fabric. It early on realised the impossibility of accommodating the car, and so

invested heavily in a high quality public transport system, with six different tramlines. At the heart is an interchange with a new bridge carrying the trams and people on foot and bike over the railway lines, and as well as a major car park and bus station, there is also a solar powered garage for some 300 bikes.

The figures for modal shift since 1976 show that is bikes and pedestrians where the greatest growth has occurred, and car trips have been kept from rising without the centre losing either trade or investment. Indeed the network of pedestrianised streets have turned run-down areas into highly desirable places to live.

However one side effect has been that the population in the centre is now largely made up of singles, and those with families can no longer afford to live in the centre. Also spaces standards are rising by half a metre per year. To cope with the pressures the municipality has planned and developed two new settlements on land it has acquired. Vauban is a former

barracks, and includes a high proportion of self build conversions of the old buildings. Rieselfield is a greenfield site opened up by an extension of the tram system.

Freiburg Trip Patterns 1976-99

	1976	1989	1999
Cycles	18	27	29
Public Transport	22	25	28
Cars	60	48	43

Freiburg has gone for planned extensions to cope with demands for more space. The two settlement extensions of Riesefeldt and Vauban are so different from anything yet attempted in Britain, it is easy to dismiss them as interesting but irrelevant. Yet they tackle some basic issues that apply equally to British cities, including how to attract families to live at higher densi-

ties, and close enough to city centres to avoid depending on the private car, and this they do extremely well.

In Germany there has been a tradition of apartment living and social democracy. There has also been a strong sense of idealism, reflected in the success of the Green Party in elections. As a consequence in university towns at least there is significant demand for places that reinforce a sense of neighbourhood and sustainable living.

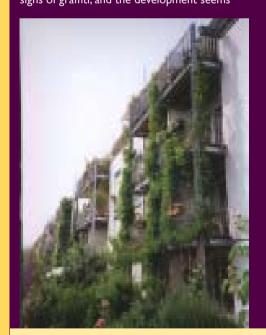
While Freiburg is exceptional, it is by no means unusual in either Germany of the rest of Northern Europe. A far more egalitarian society has been created where an educated population take pride in their towns and yob culture is kept at bay by the number of ordinary citizens who enjoy street life.

Dr Nicholas Falk is a founding director of URBED and is based in our London office.

Case Study: Reiselfeld and Vauban

Planned to accommodate some 5,000 new homes, Rieselfield is now two thirds built, and is expected to be finished in another seven or so years. The city has put in the infrastructure, and then let sites to either private builders, housing associations, and self-build groups who put in sweat equity. There are a number of innovative principles, including minimising energy consumption, and water run-off, and with a mix of uses the whole development is intended to be environmentally friendly. There are a number of shops around the tram stops. Car parking outside the blocks is kept to a minimum. Some have parking under them, and there are large multi storey car parks at the edges.

Most of the housing is in five to six storey blocks made up of two storey maisonettes. There is a high stress on balconies and communal courtyards. However the most impressive feature is probably the ecological landscaping around the ditches, which has been replicated in the abundant planting around many of the blocks. Cycling is encouraged, and the whole environment is extremely child friendly, making it popular among those with young families. Unlike the centre, there are no signs of graffiti, and the development seems





extremely popular, the high densities helping to generate street life and a sense of community at a neighbourhood level.

The apartments have been made attractive through a number of features:

· First they are set in a wild landscape, which creates the sense of living in the country. Access to allotments is easy, and the small huts create a kind of 'place in the country'.

Each block is different and this is encouraged by the high proportion developed by co-ops, in which the occupiers invest 'sweat equity'. In Vauban, inspired perhaps by the conversions of the old barracks, the residents have very much made their mark, and take great pride in the semi-communal gardens.

The pattern of splitting blocks into maisonettes with separate entrances and large balconies overcomes many of the disadvantages of flat living. But it is probably the appeal of children growing up with ideal play conditions that attracts so many young parents to these new developments (possibly storing up problems for later),

· While the blocks tend to be similar in height and footprint, each block looks individual because of the rich variety of materials and colours that are used. In Vauban, the policy of keeping cars in peripheral car parks also helps to make the development quieter and safer (while the use of crossroads without priority helps to keep traffic speeds down without any need of humps).

IN BKIEF www.urbed.com



Bristol Temple
Quay North
CABE has welcomed
URBED's proposed
masterplan for this
mixed use scheme on
a 7 hectare site near
Bristol's city centre.
The scheme is a joint
development by Cas-

tlemore Securities Ltd and the South West RDA, providing around 500 new homes and 50,000m2 of commercial space. The masterplan has been developed in conjuction with Jon Rowland Urban Design, following successful consultation with community and amenity groups such as Bristol Civic Society.

Towns and Cities:
Partners in Urban
Renaissance
The DTLR has appointed URBED to
work in partnership
with the Urban Policy
Unit (UPU) and 24
towns and cities to
look at progress in
delivering on the key
principles of the Urban
White Paper. The

CAT WHO A CAT OF THE PARTY OF T

outcomes will feature at the planned Urban Summit in Autumn 2002.

Brighton New England Quarter Following a period of intense design and consultation, the planning application for

the proposed New
England Quarter was
finally submitted last
summer. URBED
has played a key
role from the outset
as masterplanners

for the New England Consortium. URBED, together with Chetwood Associates and David Huskisson Associates have produced a Design Statement to support the planning application. URBED and Chetwoods have also scoped environmental sustainability measures for the scheme.



Sustainable Suburbs In Autumn last year URBED was commissioned by the Greater London Authority

(GLA) to look at the future of London's suburbs. With all the attention on grand projects and inner city decline it is easy to forget that most Londoner's live in the suburbs. Changing retail, transport and social trends are creating problems, and in response we have developed a policy toolkit to form part of the new Spatial Development Strategy (SDS).

London Sustainability Exchange
Following URBED's feasibility study the
Sustainability Exchange was launched in
November last year, aiming to make London
'the most sustainable city in the world'. This
follows our recommendation to establish a
clearinghouse for knowledge, expertise and
best practice in order to accelerate progress
towards Sustainable Development. LSX is
funded by the Corporation of Londons' Bridge
House Estate Trust Fund.

Merthyr Tydfil

URBED have been commissioned by Merthyr Tydfil County Borough Council and the Welsh Development Agency to produce a strategy for improving the town centre. This includes street design, active uses for key historic buildings, and Town Centre Management. Work is being carried out in conjunction with King Sturge and landscape architects Moore Piet+Brookes.



Building the 21st century home: The sustainable urban neighbourhood David Rudlin & Nicholas Falk

Published by: The Architectural Press 1999 Price: £19.99

The Sustainable Urban Neighbourhood Initiative was set up by URBED and is funded by a range of sponsors. This issue is sponsored by the DTLR through support for URBED's Changing Places Programme.

The SUN Initiative is managed from URBED's Manchester office by David Rudlin, Nick Dodd and Hélène Rudlin.

The views expressed in this newsletter are those of the authors and do not necessarily represent those of the project's sponsors



The Sustainable Urban Neighbourhood Initiative

41 Old Birley Street, Hulme, Manchester, M15 5RF tel: 0161 226 5078 fax: 0161 226 7307 e mail: Sun@urbed.co.uk web site: http://www.urbed. This edition of SUN Dial has been sponsored by English Partnerships





Why NOT get involved? The SUN Initiative is a broadly

based network. We do not have a membership but if you do not normally receive this

