THE URBAN Newsletter

Vol:VIII Issue: 2 February 2013

The Urban Unit Conducts Induction Training Program for Town Officers (Planning & Coordination)

The induction training of the 2nd batch of 10 newly recruited Town Officers (Planning & Coordination) was organized by the Urban Unit within its own premises from January 21 to February 02, 2013. The different modes of the training included lectures and presentations by renowned urban sector professionals and specialists and experts from both the governing and coordinating entities, moderated Q&A and discussion sessions, documentaries on urban issues and solutions and field visits to TMA Iqbal Town Lahore and TMA Ferozewala. The trainees were awarded certificates of completion in the closing ceremony chaired by Dr. Saqib Aziz, Special Secretary Local Government Department Punjab.

In his address, Dr. Nasir Javed, the CEO of the Urban Unit narrated the trail of the Urban Unit's efforts for raising the bar of the urban sector human resource capacity of the city governments in Punjab. The two members of the previous batch of TOs Mr. Ramin Ch and Ms. Zahra Nusreen also shared their memories and gave practical suggestions based on their field experiences.

The trainee officers will assume their duties in different Tehsil Municipal Administrations (TMAs) of Punjab to perform tasks such as spatial planning, land use control, building control and coordination of development plans and projects. The appointment of TOs is expected to improve the human resource capacity of the city governments for better urban planning and development of their respective municipalities.

Training Themes

The following themes were covered in the training:

1. Planning & Conservation
2. TMA as an Institution and its Working
3. Liaison of TMAs with other Agencies/ Departments
4. Effective Communication with Special Reference to the Maintenance of Official Record
5. Commercial Conversion of Land and Sustainability of Urban Areas
6. Punjab Housing Schemes & Land Sub Division Rules, 2010
7. Birth of a City (Video)
8. Urban Governance & its Issues
9. Improvement of Existing Urban Situation & the Living Environment

10. The World that Moses Built (Video)
11. Urban Safety with reference to Building Plans and Regulation
12. Punjab Land use (Classification, Re-classification Re-development) Rules, 2009
13. Building Control and Illegal Construction
14. Video - The Vanishing City
15. Master Planning, Spatial Planning, Zoning & Outline Development Plans
16. Field visit Day-7 (Sunday) January 27, 2013
17. Site Inspection with reference to Building Bye-Laws and Rules
18. Building Plan Verification & Fee Collection
19. Urbanized (Video)
20. Citizens Community Board Mechanism
21. The Punjab Local Government Ordinance, 2001
22. Building & Zoning Byelaws for TMAs in Punjab
23. Improvement of Existing Urban Situation & the Living Environment
24. Congested Streets - Breaking the New York City Gridlock (Video)
25. Building Control Authority
26. Litigation in Local Governments, Causes and Remedies accordingly
27. Proceeding against violation of Building Plans and role of TOs
28. Homes and Hands (Video)
29. Introduction to Revenue Record
30. Provision of Municipal Services and their Sustainability
31. Human Resource Managements in Local Government
32. Enforcement Procedure under Building and Land Use Control

THE URBAN UNIT
Urban Sector Planning & Management Services Unit (Pvt.) Ltd.
P & D Department, Punjab

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Guest Trainers

1. **Mr. Nadeem Aslam Ch.,** Director General, Local Government and Community Development (LG&CD)
2. **Ms. Saman Rai,** Deputy Secretary Development (DSD), LG&CD
3. **Syed Ali Hassan,** TMO Bosan Town, City District Government (CDG) Multan
4. **Ms. Saima Afzal,** Deputy Secretary Excise & Taxation, LG&CD
5. **Mr. Hussain Sardar,** Chief Executive Officer, Federal Board of Revenue
6. **Mr. Rai Imtiaz,** TO (P&C), Samanabad
7. **Mr. Qamar-ul-Islam,** TO (P&C), Lahore
8. **Prof. Dr. Ghulam Ababs Anjum,** Chairman City and Regional Planning Dept., UET Lahore
9. **Ms. Saman Rai,** DSD, LG&CD
10. **Dr. Rizwan Naseer,** Director General Punjab Emergency Service 1122
11. **Mr. Mehmood Tammana,** Executive District Officer Municipal Services (MS), CDG Lahore
12. **Mr. Muzammil Ishtiaq,** District Officer, Spatial Planning, Sheikuhupura
13. **Mr. Waheed Butt,** Executive District Officer (MS), Gujranwala
14. **Mr. Muhammad Mehfooz Akhtar,** Director Town Planning, LG Board
15. **Mr. Masroor Tayyab,** Deputy District Officer, Spatial Planning, CDGL
16. **Ms. Saman Rai,** DSD, LG&CD
17. **Ch. M. Saleem,** TO (P&C) Iqbal Town, Lahore
18. **Mr. Raja Jahangir Anwar,** Additional Secretary, LG&CD
19. **Mr. Ibrar Ahmed,** Director Legal, LG&CD
20. **Mr. Badar Muneer,** TO (P&C) Hafizabad
21. **Mr. Qadeer Ahmed Bajwa,** DS, LG&CD
22. **Mr. Mozzam Ali Janjoa,** Additional Secretary, LG&CD
23. **Mr. Qadeer Ahmed Bajwa,** DS, LG&CD
24. **Mr. Umer Farooq,** TO (P&C) Aroop Town, Gujranwala
25. **Ms. Zahra Nasreen,** TO (P&C), Bahawalpur City
26. **Mr. Umar Awais,** TO (P&C), Vehari
27. **Mr. Ramin Ch,** TO (P&C), Ferozewala

The Urban Unit Participates in Lahore International Book Fair

Lahore International Book Fair (LIBF) Trust organized 27th annual and the biggest ever Lahore International Book Fair from 14th of February to 18th February 2013 at Expo Center Johar Town Lahore. The Urban Unit and Lahore Waste Management Company established their joint stall in the event to portray their work for sustainable development of the urban Punjab and raise awareness of the general public on pertinent themes by displaying their publications and other resource material. The five day event was organized to promote the love of learning, literature and books among the citizens of Lahore, a tradition fast diminishing with the emergence and popularity of new educational and information sciences and technologies during the last couple of decades.

More than 700,000 people visited the mega event including children, women from different cities. The Chief Minister of Punjab inaugurated the event. The theme of the Book Fair was Education for All; Books for Peace, has attracted publishers from all over Pakistan, India, UK, USA and UAE to accommodate 350 stalls provided at the event venue. International broadcasters like BBC and German DW radio also established their stalls to promote their Urdu Service. The UU and LWMC teams were keen to impart knowledge and information to the visitors on key urban development & planning and waste management issues.

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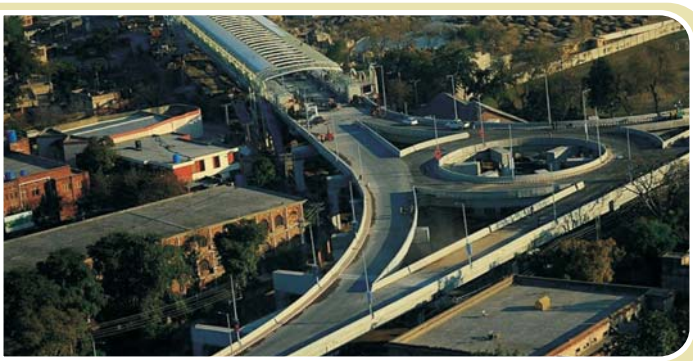
P & D Department, Punjab

The Urban Unit is Working on Intelligent Transport System (ITS)

The Lahore Metro Bus Service was inaugurated on February 10, 2013. The Urban Unit is working on Intelligent Transport System (ITS) for the Metro Bus Service (MBS) in Lahore. The ITS will provide smart traffic control system for smooth functioning of the state of the art bus service along with the normal ground traffic.

The Urban Unit has been tasked by Traffic Engineering and Transport Planning Agency for the provision of signal priority/ ITS, Traffic Control Center, Close Circuit Television (CCTV) surveillance, passenger movement data storage and retrieval and public information system for MBS stations. Signal priority for buses will be provided on all at grade stations i.e. 8 intersections. CCTV cameras will be installed at MBS stations and intersections for surveillance and security. Live video from CCTV cameras will be fed into Traffic Control Center for the purpose of operation and monitoring. Public information dissemination will be carried out through localized announcement system. The TEPA is keen to implement a Traffic Signal Control and Management System based on priority and preemption applications to the Lahore's Metro Bus Service (MBS) with future functional integration of several ITS applications. When implemented, these applications will be able to expand both in terms of functionalities and in size, and will be integrated with each other in the context of the overall integrated-telematic scheme for Lahore ITS project.



Project Benefits

The project is expected to yield the following benefits:

1. Modern Traffic Management, Control and Surveillance through Intelligent Transportation System and establishment of Centralized Traffic Control & Command
2. Optimized traffic signal timing relative to the demand as per international standards
3. Improved traffic flow and safety, easy traveling of buses on MBS corridor and on-time performance
4. Enhanced safety and security of general public through surveillance and monitoring under tough law and order situation in the country
5. Improved mobility and reduction in travel time
6. Increased comfort, convenience and reliability of MBS service
7. Reduction in traffic congestion, delays and fuel consumption
8. Improved inter departmental co-ordination and enforcement of traffic bylaws through centralized management system.
9. Round the clock operation of the MBS and ITS through Backup Power Management

The Urban Unit Designs GIS and Web Based Application for Punjab Government Departments

Literacy Department:

Areas near Lahore has more than 80% literacy rate, while rural districts have only 30 % plus. To ameliorate the situation, there is a need to improve and redefine the functioning of the education and literacy departments especially after 18th amendment to the constitution of Pakistan.

The situation requires that the children from non-formal education sector are mainstreamed into formal system and

adult literacy is improved in terms of quality, quantity and income generating skills. However, one of the primary impediments is the high rate of the student and staff absenteeism in the non-formal sector. The Urban Unit is facilitating Literacy and Non-formal Basic Education Department for bringing in efficiency and effectiveness in its tasks by developing SMS based system for tracking the attendance of students in non formal schools in the rural areas of Punjab.

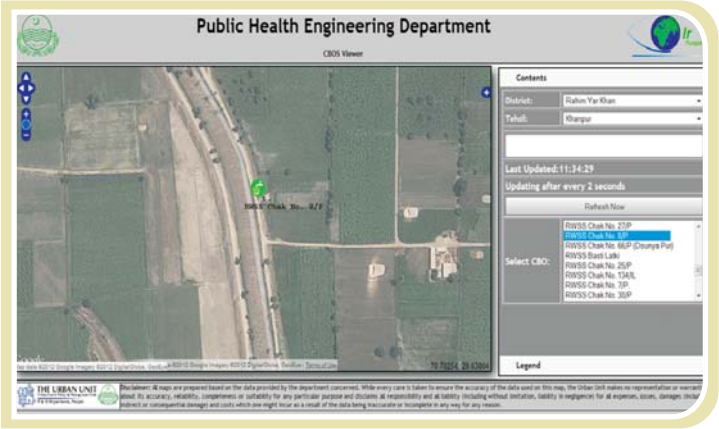
The system has become operational with the latest GIS based technology and its web based interface and has resulted in reduced student absenteeism in the non-formal education sector of Punjab. It has also made it possible to increase accountability and community oversight in the non-formal sector and improve the school management systems.

Public Health Engineering Department:

A number of water supply and sewerage/ drainage schemes in rural areas of Punjab are being operated and maintained by Community Based Organizations (CBOs). The Urban Unit, in association with the World Bank's Water and Sanitation Program of South Asia, has developed a GIS and SMS based application which lets all the CBOs send simple SMS with information on different performance and functional indicators. This application enables Public Health Engineering Department (PHED) to receive data on indicators such as water supply, number of connections, connection fees etc using entirely automated communication mediums. The results are automatically saved into the database which can be viewed through a web based interface.

The key benefits include easy quick, cost effective and transparent monitoring of the 4058 rural Water Supply Schemes in Punjab, GIS based complaint management and community participation and empowerment for sustainable water supply and sanitation.

The application is a successful example of using mobile phone penetration (68%) for development purposes in Pakistan.



Mr. Awais Azhar Visited India to Attend the 55th Annual National Association of Students of Architecture Convention

The Urban Unit team member, Mr. Awais Azhar attended the 55th Annual National Association of Students of Architecture Convention at the Gateway College of Architecture and Design in Sonipat, India from 25th to 28th of January 2013. He was invited to represent Pakistan and participate in the Archumen Quiz Competition hosted by Ms. Gita Balakrishnan.

The Convention was attended by architecture students, academics and researchers from fine arts and architecture institutions of India, Pakistan, Nepal and Sri Lanka and other countries of the region. Prominent architects and professionals including Ar. Christopher Benninger, Dr. Anupama Kundoo, Prof. Anil Laul and others gave lectures and conducted workshops on a vast array of relevant themes and issues.

The Urban Unit Collaborates with Punjab Small Industries Corporation to Promote Cleaner Production in Industrial Estates of Punjab

The Urban Unit, in collaboration with the Punjab Small Industries Corporation (PSIC), has launched a geographical information survey of all the core industrial centers in Punjab. The exercise is in the initial stages of data collection and will cover all the 21 industrial estates that PSIC manages in 7 key districts in the province – Bahawalpur, Faisalabad, Gujranwala, Lahore, Multan, Rawalpindi and Sargodha.

As part of the capacity building component, the Unit is providing the requisite technical and human resources for designing the study, data collection, management and analysis. Highlights of the study entail a comprehensive spatial database by geo-referencing each industrial unit. Some of the key non-spatial attributes include an inventory of industrial production strength and the type and quantum of waste generated.

The planning standards and guidelines will then be formulated within the strategy framework developed on the basis of the findings of on-going studies on industrial land requirements. This database will help plan the industrial estates in proper way, improve the services, promote investment in industrial estates and at the same time improve the overall environment of these estates.

Based on this data, the industrial land use typology will eventually be developed for land reservation and the provision of standards and location guidelines for industrial developments including development parameters and planning criteria such as plot size and ratio, site coverage, workers' density, traffic engineering requirements and supporting facilities.

As part of the stakeholder consultation and information dissemination, PSIC in collaboration with the Urban Unit organized a workshop at the Gujranwala Chamber of Commerce and Industry on December 15th, 2012.

The Urban Unit team, working on the project, presented the objectives of the study and the methodology for data collection to the participants and conducted the consultative session on the expected outcomes of the survey. The field team has completed the surveys in Lahore and Gujranwala. Survey teams have been deputed for Sialkot, Faisalabad and Multan Division. The survey is expected to be completed by end of February, 2013.

This initiative is being carried out under the supervision of Dr. Kiran Farhan, who has a background in Environmental Engineering and a PhD in Solid Waste Management, and Mr. Ehsan Saqib – GIS Development Specialist at the Urban Unit.

The Urban Unit Hosts the Probationary Officers of the 40th Common Program of Civil Services Academy

About 15 probationary officers belonging to various occupational groups of the 40th batch of the CSS Officers undergoing 'Common Training' at the Civil Services Academy Lahore visited the Urban Unit on December 16 and 17, 2012. The objective of this activity was to sensitize the probationary officers about the need for integrity, discipline and effectiveness for optimization of public welfare and providing improved service delivery to the

people - particularly the poor and the disadvantaged. The officers spent the first day in the Urban Unit office. They studied in detail working of the different sectors. Senior specialists of various sectors gave detailed presentations to the officers on their respective sectors, ongoing projects and future growth plans. At the end of the day, the officers visited different sections at the Urban Unit including GIS Labs, Scanning Section, Library, Audio/Visual Room, Learning Resource Centre, Administration and Sector Blocks.

On the second day, the officers visited the Lahore Waste Management Company (LWMC) head office at Shaheen Complex, Lahore. The Managing Director of LWMC gave a detailed presentation on the company's scope and operating procedures They learnt about the practical implementation of innovative new system of solid waste management in Lahore. In the afternoon the officers visited Water Sanitation

Committee (WASCO) office and "Changa Pani Programme" aimed at community level management of water supply and sanitation schemes in low income areas of Union Council 60, Lahore.

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Urban Planning and Development Course at Civil Services Academy Pakistan Administrative Service (PAS) Campus, Lahore

The Urban Unit has designed a full-fledged course on Urban Planning and Development as part of the Specialized Training Program (STP) at the Civil Services Academy, Lahore. The STP is a 10 months residential program for the newly recruited officers of Pakistan Administrative Service. The course is being managed by Ms. Nadia Qureshi who is an Urban Architect and a senior team member of the Urban Unit.

The objective of the course is to equip these officers with knowledge and skills in the relevant areas of urban planning, development and management. The course will enable the trainees to work effectively within the planning and development sectors in urban contexts at policy or field levels and develop a deeper understanding of the processes that generate urban change. that generate urban change. The course will also enhance their diagnostic and strategic capacities to respond to such change within the framework of urban governance.

The course has been designed to be a mix of lectures, presentations, discussions and interactive field visits. For quality assurance of each topic covered in the course, the specialists in the field both from within and without the Urban Unit were invited. Currently, 39 PAS officers are attending the course. The Urban Unit has received positive feedback from the trainee officers and the CSA administration which is evident from the frequency and level of responses of the officers in their mid term examination.

The course will be delivered on regular basis at PAS as part of the Urban Unit's endeavor to build synergies and inter and intra sector linkages for effective human resource and expertise development in the province.

The Urban Unit Researchers Presented Papers on GIS and Web-based Disaster & Municipality Management Applications at 45th IEP Convention

The Institution of Engineers Pakistan (IEP), Karachi Centre organized the 45th IEP Convention 2012 in collaboration with NED University of Engineering and Technology.

It was one of the regular series of programs held at various IEP Centres throughout Pakistan to provide an opportunity to the Engineers' Community to discuss the current and contemporary issues for "building a Better World". Memorial lectures to cherish the memories of stalwart engineers who made strenuous efforts to bring up the Institute were delivered in addition to the Technical Sessions on various engineering disciplines.

The inauguration ceremony of the 45th IEP convention was chaired by Chief Guest of the ceremony, Dr. A.Q. Khan. Engineer Sohail Bashir, convener of the Convention gave the welcome address. The session had a keynote address by Dr. Sarosh H. Lodhi, Dean Civil & Architectural Engineering, NED UET Karachi.

Fiesca Seminar was held the next day on 22nd December 2012 on the theme of Regional Cooperation for Disaster Management followed by parallel Technical sessions on Civil Engineering, Electrical Engineering, Air Transport, Health & Safety, Mechanical Engineering and Thar Coal.

The Urban Unit team members presented papers which highlighted the array of its work in GIS sector especially its web-based applications for disaster and municipality management. Solutions to these problems were presented by introducing Electro-Mobile (EM) Governance which facilitates decision makers in different public domains.

Ms Hina Ibrar presented paper on Real Time Integrated Disaster Management System (RIDMAS). She apprised the participants that during the past few years natural disasters had victimized Pakistan. A proper response could not be generated by the decision makers due to unavailability of reliable and precise information system.

The Urban Unit has developed expertise in Real-time Integrated Disaster Management System (RIDMAS) which is a combination of Geographic Information System (GIS) along with Information and Communication Technology (ICT) to meet the needs of precise disaster management in a participatory manner. It facilitates the users to share the information in real-time during and after the disaster so that administrative authorities may be able to take important decisions in an efficient and transparent manner for rescue, rehabilitation, response and recovery functions. The users can collaborate with the system via internet, SMS and android geo-tagging for input and output of information.

Ms. Farah Rashid presented her paper on Emergency Response Geo-Meeting System, a Real–Time Participatory Spatial Decision Support Tool in Disaster.

Emergency Response Geo-Meeting System (ERGMS), a Web-based real-time application has been designed to support live meetings, effective decision making, response planning, discussions and many other tasks in a synchronous manner.

ERGMS will provide a platform to police, fire brigade, municipality and disaster management authorities to acquire, process and analyze data judiciously, alleviate the effects of crises, coordinate the response and thus reduce suffering.

The paper focused on public participation and geo-collaboration facilitated with information sharing, interactive geo-conferencing, real-time map and data sharing and live communication. By utilizing geospatial ERGMS application, relevant personnel can locate damaged buildings and injured residents for prompt response immediately after the disaster.

Ms Sana Khushi presented her paper on Design and Evaluation of GIS Based Real Time Municipality Management System (RTMMS). RTMMS is used for analysis of municipality management issues, like solid waste, water drainage situation, waste disposal, recycling etc to improve municipality system. The focus of her research paper was to show the effectiveness of RTMMS system for visualization of water drainage situation in Lahore and its benefits for the decision makers. The RTMMS efficiency, interesting feature, likability and group feedback were presented with the help of statistical software.

The participants showed keen interest in the Urban Unit's work in GIS sector and asked questions on its application and replication in different urban sectors and disaster management.

The Urban Unit holds a Consultative session on Murree Byelaws

The draft Murree Byelaws have been developed by the Urban Unit. A one day consultative workshop of professionals from private sector and Local Government Departments was arranged at the Urban Unit office to get professional feedback on the proposed Murree Byelaws. The session was conducted by Dr. Nasir Javed, the CEO of the Urban Unit.

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List of Participants

1. **Prof Dr. Ghulam Abbas Anjum,** Professor/ Chairman, UET Lahore
2. **Mr. Muhammad Aslam Nadeem,** Director Town Planning, LG&CD Dept.
3. **Mr. Muhammad Aslam Mughal,** President, Institute of Planners, Pakistan
4. **Dr. Anis ur Rehman,** Chairman, CURES
5. **Mr. Munir Ahmad Khan,** TMA Murree
6. **Prof. Dr. Neelum Naz,** Chairman, Dept. of Architecture, UET Lahore
7. **Prof. Imtiaz Ahmed Vohra,** Head of Department of Urban & Regional Planning, NUST Islamabad
8. **Mr. Shaukat Jamal Khawaja,** Urban Planner
9. **Tariq Manzoor,** AC/ Administrator, TMA Murree
10. **Syeda Shabnum Najaf,** Country Manager, CIU-Pakistan
11. **Mr. Khalid Hassan Lodhi,** Director Metropolitan, Lahore Development Authority

Suggestions

The following important suggestions were put forward:

1. A comprehensive land use plan/ zoning should be defined to protect the particular character of each tourist area.
2. Byelaws should be linked with the master plan but finalization of byelaws in the top priority of the TMA Murree.
3. The three major questions in the byelaws that should be focused include:
   - Height of buildings
   - Mandatory open spaces
   - Definition of basement
4. In the case of public buildings separate byelaws might be introduced.
5. For the buildings within the byelaws, regularization must be done after the structure is assessed.
6. A penalty must be stipulated for the architect/ contractor if the approved plan is not followed.
7. Geotechnical investigation reports should be submitted to analyze the soil conditions.
8. Fire fighting plan for a two storey building should be submitted in case of commercial and public buildings only.
9. Only lightweight construction of roofs and intermediate floors should be encouraged to reduce the loads on the natural terrain.
10. The maximum cutting and filling criteria of land will be identified and mentioned to retain natural topography, structural stability of buildings and land as well.
11. The zone type, soil type and conditions for building construction should be identified.
12. No septic tanks and soakage pits should be allowed.
13. Drinking water routes in Murree should not be contaminated with sewerage and drainage during.
14. No Natural water channels or drainage patterns should be diverted or disturbed by any development.
15. Dual flushing should be compulsory in all building types to save water.
16. All public places and hotels should have automated lighting and tap systems.
17. All centrally heated buildings must be mechanically ventilated.
18. Orientation of glass facades on the south faces should be encouraged.
19. Waste construction materials should be segregated and stored on site prior to collection.
20. Hazardous waste materials must have designated transportation methods and places to dispose off.

The Urban Unit Learning Resource Center Becomes Member of IMF E-Library

The Urban Unit is the first and only institution of Punjab government which has subscribed to IMF E-Library.

The International Monetary Fund's E-Library simplifies analysis and research with direct access to the IMF's periodicals, books, working papers and studies, and data and statistical tools. The researchers and institutions can find information and perspective on macroeconomics, globalization, development, aid and trade, technical assistance, demographics, policy advice on emerging markets, poverty reduction and much more.

The Urban Unit continues to provide the state of the art tools and information resources to its staff and researchers from other institutions to promote generation of knowledge and dialogue for modern urban planning and development in Pakistan.

The contents of Urban Newsletter may not necessarily reflect Punjab Government's current official policy.

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