

Urban Unit

Holistic Solutions *for*
Integrated Development

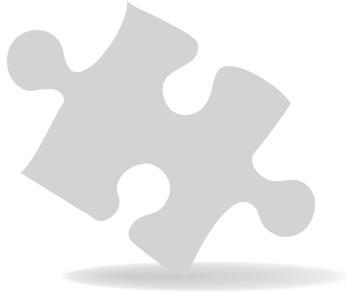


THE URBAN UNIT

Urban Sector Planning & Management Services Unit (Pvt.) Ltd.

A Public Sector Company.





Our Development Works

The Urban Unit was established in 2006, as a Project Management Unit (PMU) of the Planning and Development (P&D) department under the Government of Punjab. In 2012, the company underwent significant transformation and transpired into an independent private sector company, registered with the Securities and Exchange Commission of Pakistan (SECP). The Urban Unit is a multi-disciplinary organization centered upon sustainable development of urban areas through shared data repository, and international and local collaboration with research centres and international donor agencies, and thus has made a significant contribution to the urban development sector in Pakistan, particularly Punjab. To date, the Urban Unit has completed over 300 technical projects, with the primary goal of facilitating governments to achieve the targets of their urban development agenda. Through its numerous collaborations with local and international organizations in the public and private sphere, the Urban Unit aims to achieve socio-economic goals in public servicing for cities to become engines of growth.



“ Urban Development is not simply an expression of expansion; it is the effective management of available resources, better infrastructure, improved service delivery and planning for the future of cities in Punjab. Here, I must congratulate the Urban Unit for its contributions and distinguishing itself in the field of urban development and management, through innovative solutions that are benefitting the Government of Punjab in forwarding its urban agenda, facilitating the vision and helping the provinces and its people. Urban Unit's significant achievements, especially the GIS-based **Iris** (www.irispunjab.gov.pk) an informative and innovative repository of all information related to government departments, is commendable!

I consider the Urban Unit as an extension of the P&D Department that is accelerating the Government of Punjab's vision of growth and prosperity. I wish the Unit best of luck for all its future endeavors and offer my sincere support to the company and its talented team of experts.

Chairman P&D

Muhammad Irfan Elahi



*Serving as the Chairman,
Planning and Development Department, Government of Punjab*

“Pakistan is urbanizing rapidly and this is fundamentally reshaping social and economic relationships, giving rise to new societal demands and challenges. It is also fundamentally altering the relationship between citizens and the state. The benefits of dense clustering of individuals are well documented as is the potential for urban areas to become engines of growth. Yet, urban areas are falling short of achieving their potential as a development catalyst.

Getting cities to achieve their potential requires 'smart solutions,' which are based on rigorous evidence-based diagnostics and innovative solutions that can be implemented by the state as well as urban communities. Urban Unit is a pioneering institution that has been established by the Government of the Punjab for this purpose. At the Urban Unit, we believe in the power of 'knowledge, evidence and innovation' to make urban areas achieve their potential by building vibrant and equitable communities, evolving functional rules and institutions and deepening trust between citizens and the state.

We believe that public policies work best when they are rooted in fact and our research seeks to develop innovative solutions in programs and practices. The Unit works closely with the Government of the Punjab to design and deliver effective public service delivery and reform and is assisting in making urban areas more functional, livable and sustainable. I am confident that the Urban Unit will play an important role as a critical partner for urban citizens and the Government in its endeavor to build a prosperous, innovative, safe and just urban society in Pakistan.

Chairman Board of Directors, Urban Unit

Dr Ali Cheema



Ali Cheema is Associate Professor of Economics at LUMS; a Senior Research Fellow at the Institute of Development and Economic Alternatives (IDEAS); the co-lead academic of the International Growth Centre's (IGC) Pakistan Program and a Member of the Board of Directors of the Centre of Economic Research in Pakistan (CERP). A Rhodes Scholar, he holds a PhD in Economics from the University of Cambridge and B.A. (Hons.) in Politics and Economics from the University of Oxford. He was also a Fulbright Scholar at the Harvard Kennedy School and a Visiting Scholar at the South-Asia Initiative at Harvard.

“The world has delivered miracles when it comes to modernity and science. Yet there are still no sensible cities where traffic, climate change, parking, and pollution problems are tackled sensibly. There is so much opportunity in Pakistan, it's incredible. Architects, urban planners and artists should employ innovative techniques by using local materials in a modern and innovative way. The technical aspect of architecture is very important; it involves relating design to the site and its surroundings, the region's users and also the socio-politics of the area. Design is a process of validation through which you keep searching for a meaningful, creative solution, adopting from the known vocabulary of forms and features, and adapting these to the needs of a changing society.

Our quality of life depends on the architecture around us. We are all consumers of space and the built environment, be it for leisure, learning, thinking or residing. By the same reasoning, unsuitable or poor architecture obviously has an adverse effect on the quality of life. The reason behind bad traffic, pollution and other environmental evils is bad architecture and planning in our cities.

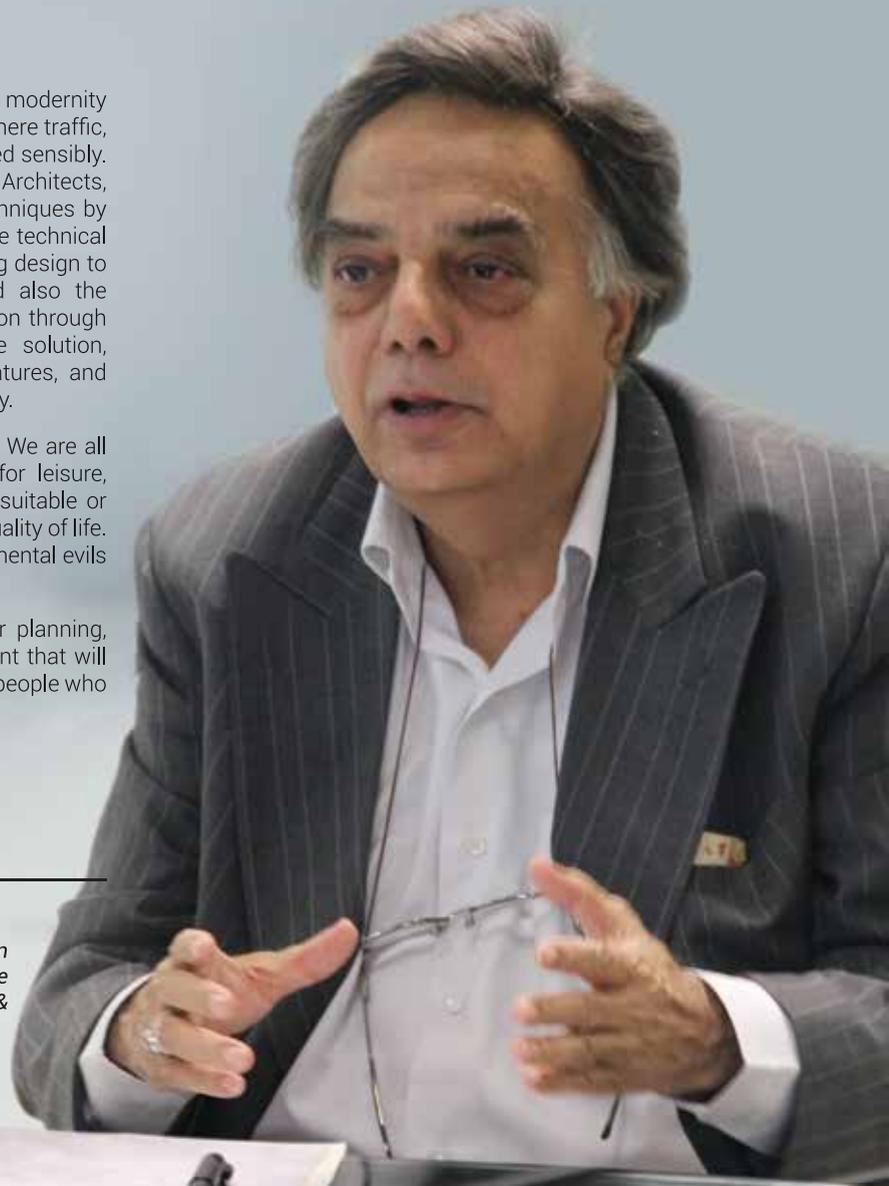
Here, I must congratulate the Urban Unit for its master planning, visionary agenda and innovative solutions for development that will serve the future of our cities and the generations of young people who will benefit, especially in Punjab.

Member Board of Directors, Urban Unit
Chairman Board of Directors (2012 -2014)

Nayyar Ali Dada



Renowned Pakistani architect honored with the Aga Khan Award for Architecture and President's Pride of Performance Award. Nayyar Ali Dada heads the firm Nayyar Ali Dada & Associates in Lahore.



“Pakistan's cities need a radical shift from existing practices that got us to where we are today. There is an immediate need for reform because the potential of our cities is enormous. And there are hundreds of ways to reach that potential. Our cities, their people and the role they play in the national economy, are now complex issues that require innovative and forward-thinking policies. Cities are places of human interaction; places where people can interact, share ideas and, by doing so, unlock their economic potential. This is just the type of radical thinking that can kickstart a new growth process. It is time for our cities to jump off their burning platform and into a new paradigm of development.

I believe a city should be inclusive and sustainable. I believe a city should have clean air and safe streets. I believe a city should have clean water, public libraries, music in parks. Mayor Bloomberg of New York City once said that talent attracts capital more efficiently than capital attracts talent. What that means is that cities that provide access to smart people are more likely to 'develop' quickly than if you decide to build overpasses, airports and roads and wait for them to come.

At a time when, in less than a decade, over half of all Pakistanis will live in urban areas, an understanding of urban planning is paramount. Not just for the Pakistani economy, but also for its people.

Member, Board of Directors, Urban Unit

Ahmad Rafay Alam



Ahmad Rafay Alam is a Pakistani environment lawyer and activist. After a decade of practice, ending as Senior Associate to Dr. Parvez Hassan (YLS 1963), in 2013 Rafay merged his experience in civil, corporate and constitutional law with his passion for public interest environment litigation and co-founded Saleem, Alam & Co., a law firm that specializes in energy, water, natural resources, and urban infrastructure.



“ There has been a growing concern worldwide that the costs of dealing with issues related to urbanization will be excessive in the future if they are not addressed now. As the cities in Punjab are undergoing rapid urbanization as elsewhere in Asia, Africa and Latin America, therefore, their capacity needs to be developed to meet the challenges in a proactive way. There is also a strong consensus among policymakers across the globe that sustainable urban governance ideals can be achieved only if the government bodies, civil society, private sector and other stakeholders make a concerted effort.

Since 2006, the Urban Unit has congregated the practical ideas and vision of various stakeholders about creating safe, economically powerful, financially feasible & environmentally prudent urban centers in the Punjab. I am pleased to witness the progress of the Unit as a company and I firmly believe that with its proactive approach it will ensure sustainable urban development as per the aspirations of the people of Punjab.

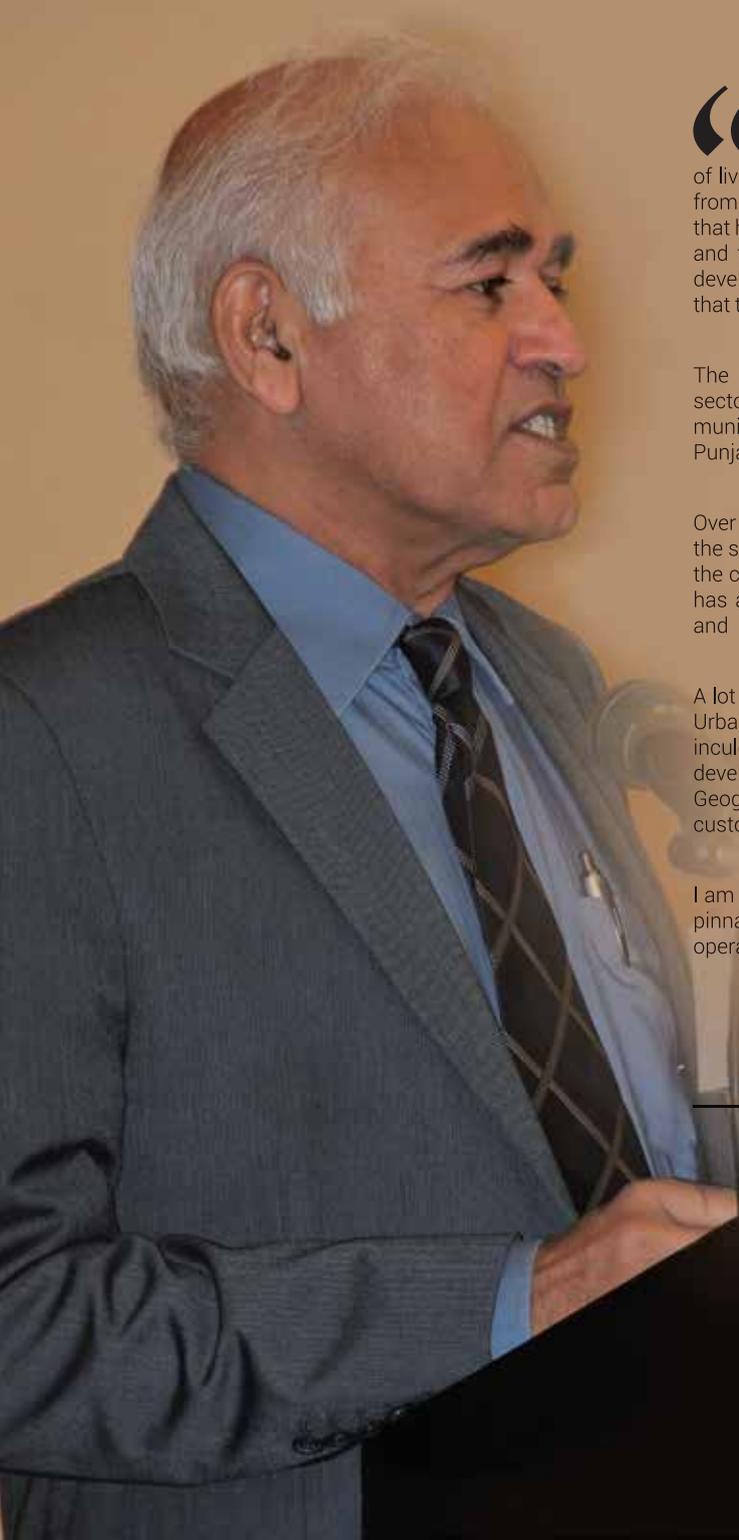
Member Board of Directors, Urban Unit

Aslam Javed



Currently serving as Chief Urban Development at the Planning and Development department, Government of Punjab, and responsible for monitoring the portfolio of Housing and Urban Development Department, Local Government and Community Development Department. Mr Aslam Javed holds an MBA degree (Finance) from the University of Punjab.





“ As a growing and dynamic company, the Urban Unit is striving to put forward innovative solutions that can benefit our stakeholders in creating the future of livable cities in Punjab. Personally, I have witnessed the growth of the Urban Unit from a small family unit to a sector-wide, crosscutting and independent company that has become synonymous with commitment to assisting provincial governments and the Federal government in achieving optimum results in urban planning and development sector, and improving service delivery. In this regard, I can assure you that the Urban Unit will continue its heritage of leadership in the sectors we serve and in the communities where we live and work.

The Urban Unit is determined for excellence in urban management through key sectors of urban planning, urban transport management, urban economics and municipal finance, among others. We remain committed towards Government of Punjab's vision 2020 of overcoming the regulatory issues, lack of planning and institutional deficiencies in the province.

Over the recent years, the Urban Unit has quadrupled its workforce and incorporated the services of leading experts and academics in all sectors. I am proud to state that the company is now a leading example of strategic planning services in Punjab and has also extended its expertise to other provinces, including Khyber Pakhtunkhwa and Gilgit-Baltistan. Our core commitment to quality services, innovation and integrity has not changed.

A lot of hard work remains ahead. An exciting year lies ahead for us in 2015 and the Urban Unit will be evolving and growing as a company. We are looking forward to inculcating new partnerships and alliances in order to gear up for sustainable urban development through the use of latest technologies and innovation, including Geographic Information System mapping. Unique challenges of urban sprawl need customized solutions through institutional regulations and Urban Unit has set the benchmark to excel and deliver.

I am delighted to promise that the Urban Unit will continue its hard work to reach the pinnacle of the urban development sector for enhanced service delivery and operational excellence – a proud honor for me as Chief Executive Officer, for my workforce, and for my country.

Chief Executive Officer, Urban Unit
Dr Nasir Javed



Dr. Nasir Javed is a senior civil servant with wide administrative experience in various Government departments. He belongs to the prestigious Pakistan Administrative Services Group of the Civil Services; he opted to spend most of his career in the Urban Sector, starting from Karachi Metropolitan Corporation in 1995.

The Urban Unit's Core Focus

It is estimated that by 2030 or earlier, Pakistan's urban population is likely to equal its rural population. The impact of urbanization will be realised in all spheres of human life including a complex set of environmental, economic and social challenges. However, there is a unique opportunity to build more sustainable, vibrant, innovative and equitable communities. Finding solutions for a better urban future involves developing new forms of collaboration and partnerships. Inspired by the possibilities of this new urban era, and driven by a belief in innovation through collaboration across traditional divides, the Urban Unit seeks to improve the way people live, work and play in the future cities of Pakistan and elsewhere.

The concept of urban design and development addresses both the functional and aesthetic aspects of city environment. Aesthetics, being a traditional concern of urban design can only be more meaningful when combined and integrated with other functional units such as environmental management, urban planning and transport management, information and communication management and institutional development in order to create an environment that is visually pleasing, socially comfortable, and economically viable and conveys a sense of belonging. Urban design-related efforts seek to develop a policy framework and guidelines integrated with technology-driven solutions to create a sustainable living environment and an appropriate city image and identity.

"We will neglect our cities to our peril, for in neglecting them we neglect the nation."

- John F. Kennedy -



Desire to Grow, Ambition to Excel

History

The Urban Unit was established in 2006, as a Project Management Unit (PMU) of the Planning and Development Department under the Government of Punjab. In 2012, the Unit underwent significant transformation and converted into an independent Company, registered with the Securities and Exchange Commission of Pakistan (SECP). It is a multi-disciplinary organization that is centered upon systematic development of urban areas through shared data repository, international and local collaboration with research centers and donor agencies. The core objective of the Company is to facilitate government-run agencies, private entities and donor agencies with reliable and legitimate technical advisory services. The aim is to achieve socio-economic goals in public servicing as cities become engines of growth.

Vision

Restructuring urban settlements towards the making of socially cohesive and economically sustainable cities that serve dynamic, growing communities and push forward good governance initiatives for improving service delivery.

Mission

The mission of the Urban Unit is to effectively fulfill its role as Government of Punjab's core urban research and policy management unit by efficiently managing resources and providing optimal quality services that shall result in sustainable urban development leading to improved quality of life for the people of Punjab.

Operating Principles

- Creativity and Innovation
- Excellence in Service Delivery
- Effective Communication and Teamwork
- Motivation and Inspiration
- Integrity and Accountability
- Improvement and Progress

Human Capital

The Urban Unit recruits highly qualified and experienced professionals who strive to attain the best possible outcomes for clients, in the field of management services. To date, the human capital at Urban Unit has expanded to 360 employees. Alumni include 300 professionals, mostly working in donor agencies, companies and departments.

Sectors

- **Urban Planning, Architecture and Transport**
- **Information and Communication Technology [ICT]**
 - Geographical Information System
 - Management Information System
- **Environmental Management**
 - Solid Waste Management
 - Water and Sanitation
 - Environmental and Social Safeguards
- **Institutional Development**
- **Capacity Development**
- **Municipal Finance and Economics**
- **Knowledge Management**

PMO at the Urban Unit

- The Urban Unit is transforming into a process-oriented organization with well-defined and established standards and process mechanism for enhanced service delivery in various sectors. In order to harness the full efficiency of processes and improve service delivery, the Urban Unit has set up a Project Management Office (PMO) that defines, and implements standards, guidelines and processes for all sectors.
- The main objective of the PMO is to ensure adoption of the industry's best practices in project management policies, processes and methods. The PMO office at the Urban Unit has a diverse human resource with extensive international experience in different sectors.
- The PMO at the Urban Unit provides guidance and framework in Project Management Life Cycle, Product Development Life Cycle, System Development Life Cycle, Business Process Management, Business Analysis, Quality Assurance, Communications Management, and Risk Management.
- The PMO at the Urban Unit follows the industry's standard PMBOK (Project Management Body of Knowledge) developed by the PMI (Project Management Institute) of USA.

Shaping the future of urban centers

Urban Planning and Architecture

Urban planning and design is about making connections between people and places, nature and the fabric of a city. It draws together the many strands of place-making, environment stewardship, social equity and economic viability into the creation of places with distinct beauty and identity.

The Urban Unit, equipped with a multi-disciplinary team of professionals has been a strong component of urban sector development and management as the only way towards national development in Pakistan. The Unit has taken lead on developing legal and regulatory frameworks as well as institutional development in the field of urban and regional planning, an area that has immense potential for improvement and growth. Over the years, the Urban Unit has developed expertise in comprehensive and strategic Master Planning, Peri Urban Structure Planning, Urban Design and Beautification, Façade Uplifting and Restoration, Tourism Planning, Housing and Urban Sector Rules, Regulations, and Codes. The Urban Unit's in-depth understanding and familiarity of Government-level official procedures and practices has given the company an edge over other private sector companies offering similar services.

As an autonomous, technical arm of the Government of the Punjab, the Urban Unit has been capacitating various departments and entities in developing procurement documents related to the sector and reviewing consultancy works. The capacity building initiative also includes imparting specialized training and urban development courses at the prestigious Civil Services Academy and the Cantonment Institute of Management and Land Administration (CIMLA).

The Urban Unit has played a pivotal role in re-shaping urban culture by assisting governments in making urban areas functional, attractive and sustainable. The company brings forth planning and design that is seamlessly interwoven through analysis and understanding of specific characters of targeted cities.

Key Projects

- Faisalabad Peri Urban Structure Plan
- Comprehensive City Boundaries for Faisalabad, Gujranwala, Lahore, Multan and Rawalpindi
- City Strategic Development Plan for Sialkot
- City Profiles of Eleven Intermediate Cities
- Poverty and Social Impact Assessment Study in Five Cities
- Assessment of Legal and Regulatory Framework for Urban Land Development and Management in 5 Large Cities of Punjab
- Assessment of Urban Land Use Management Practices in 5 Large Cities of Punjab
- Assessment of Institutional Arrangement for Urban Land Development and Management in 5 Cities of Punjab.
- Punjab Land Use (Classification, Reclassification, and Redevelopment) Rules 2009
- Model Building and Zoning Bylaws for Punjab TMAs and Development Authorities
- Building and Zoning Bylaws for Cantonment Board Lahore

- Beautification Plans for DG Khan, Sahiwal and Murree
- Upgrade Plan of Murree Mall Road
- Eco Tourism Development of Soon Valley

Available Services for Clients

- Drafting of Laws, Rules, Bylaws, Codes and Guidelines
- Assistance to Government Entities in Interpretation and Implementation of Punjab Land Use Rules 2009
- Assessments and Analytical Studies
- Conceptual Development of New Cities, Towns and Eco-tourism Destinations Including Management and Execution Support
- Conducting Field Surveys and Analysis
- Beautification of Public Infrastructure, Facilities and Façade Improvement
- Planning and Execution of Capacity Building Programs Including Workshops, Seminars, and Trainings
- Master Planning of Cities

“By designing cities in a way that values everyone’s experience, we can make cities that help us all get stronger, more resilient, more connected, more active and more free. We just have to decide who our cities are for. And we have to believe that they can change.”

- Charles Montgomery -



Enhancing urban mobility – the bloodline of cities

Urban Transport

Transportation is often seen as the 'maker and breaker' of cities. Building an efficient system that supports optimal city living and encourages well-being and quality of life, and delivers in a way that contributes to social justice is a huge challenge for urban and transport planners of the future.

Urban transportation does not exist in isolation from broader urban sector planning and must be included at the stage of land use planning. Additionally, examples of other countries demonstrate that the transport sector strives to promote accessibility-based transportation planning as opposed to only improving mobility. The Urban Unit perceives that the field of Urban transportation does not only include provision of road infrastructure, but also requires a holistic approach towards infrastructure provision, mass transportation, non-motorized modes of transportation, and traffic and transport management. The Urban Unit's Transport sector comprises of qualified transport engineers, transport and urban planners who work in close collaboration with other sectors to promote sustainable urban transportation.

Over the years the sector has been providing support to all relevant government departments in carrying out transport-related analytical studies, development of transport policies and strategies, and urban transport master plans for various cities. The sector has gained expertise in developing traffic management plans and solutions including planning, designing, commissioning and installation of Intelligent Transport Systems. In addition, the Urban Unit has been organizing several training programs, seminars and workshops for capacity building of government entities, professionals and citizens.

Key Projects

- Intelligent Transport System (ITS) for Lahore's Metro Bus Project (Design, Procurement, Commissioning, Operational and Maintenance Support)
- Technical Assistance in Establishment of Kasur Bus Terminal
- Technical Assistance in Establishment of Multimodal Truck Terminal, Sheikhpura
- Technical Assistance in Establishment of Multimodal Bus Terminal Sheikhpura
- Traffic Circulation Plan for Sheikhpura City
- Traffic Management Plan for Gujranwala City
- Technical Assistance to JICA for Lahore Urban Transport Master Plan (LUTMP 2011-2030)
- Transport Planning and Traffic Surveys for Gujranwala Urban Transport Master Plan 2013-2033,
- Transport Planning and Traffic Surveys for Sialkot Urban Transport Master Plan 2013-2033
- Pedestrian Facility Study for Sheikhpura
- Pedestrianization and Parking Management Plan of Central Business District (Ghanta Ghar), Faisalabad
- GIS-based Parking Management & Information System

- Murree Traffic Signage Strategy
- Urban Transport Policy Study in 5 Major Cities of Punjab
- Design of Pedestrian Precincts and Parking Plaza, Peshawar
- Punjab Traffic and Transport Manual (Signs, Signals and Pavement Markings)
- Punjab Geomatic Design Manual
- Established Transport Planning Unit (TPU) at Transport Department
- R&D Centre for Urban Transport at UET

Available Services for Clients

- Analytical and Feasibility Studies
- Development of Urban Transport Master Plans
- Transport and Traffic Modeling
- Intelligent Transport Systems
- Traffic Security & Surveillance System
- Command and Control Systems for Traffic/City
- Institutional Strengthening and Capacity Building Programs
- Pedestrian Facilities and Non-motorized Planning
- Traffic Impact Assessment Studies

“This is not about recreation; it’s about transportation—about people using their bikes to get where they need to go. We’re talking about making sure, when someone’s only or best option to get to work is a bike, that they have an option to ride it, and ride it in safety.”

- Anthony Foxx -



Harnessing the potential of data for evidence-based decision-making

Information and Communication Technology

Information Communication Technology (ICT) forms one of the core strengths of the Urban Unit. It provides real time information to decision-makers in a cost effective and efficient way. Decision-makers are able to make quicker and empirical choices by minimizing costs and human resources. With the ongoing rapid urbanization, ICT is the foundation of an economy and driving force behind social and economic change and adaptability in the 21st century. The objective is to create a knowledge base, transparent system of governance and service delivery. Through optimal use of ICT and effective IT-related solutions, the Urban Unit has facilitated the transition from a conservative to modern approach through building bridges between service providers and the communities to ensure transparency in projects at the provincial, national and international levels.

ICT at the Urban Unit comprises of a host of computer-based and technology driven information systems. The Urban Unit promotes the use of ICT to provide integrated and real-time solutions in a wide range of urban sectors including Urban Development and Planning, Community Development, Poverty Alleviation, Water and Sanitation, Solid Waste Management, Health, Basic Education, Transport and Emergency Response. The Urban Unit has extensively used IT-based solutions in various social development projects in the health and education sector.

“Software innovation, like almost every other kind of innovation, requires the ability to collaborate and share ideas with other people, and to sit down and talk with customers and get their feedback and understand their needs.”

- Bill Gates -



Key Projects

- LRMIS (Land Record Management Information System)
- Land Record of Federal Employee Housing Scheme
- Video Projection System – Video Wall at Planning and Development Department
- UIPT - Urban Immovable Property Tax Automation for Punjab
- FGEHF – Federal Government Employees Housing Foundation - Digitization, Workflow and Business Process Automation
- Web and SMS-based GIS Application for Food Department
- Web and SMS-based GIS Application for Literacy Department
- SMS-based Monitoring Application of Urban and Rural Water Supply Schemes
- Damage Needs Assessment System – Web-based System for Redevelopment of the Flood-Affected Schemes 2010
- Biometric-based Anti-Encroachment System
- Ramzan Bazar Monitoring System

Available Services for Clients

IT Infrastructure

- IT Infrastructure Design, Development and Management
- Data Centre Architecture and Design
- Data Disaster Risk Recovery Solutions
- LAN / WAN / Radio links (16 km radius)
- Server Setup (installation and maintenance)
- Data Storage Services
- Network Management System (NMS) Services
- Intrusion Detection and Prevention System
- Metropolitan Area Network (MAN) System
- IP Telephony Services
- Large Scale Scanning and Catalogue Services
- Roller Scanning
- Digital Record Archiving
- Citywide Security and Surveillance System over Fibre Optic, Wireless & 3G
- Intelligent Transport System (ITS)

IT Operations

- Management Services

Business Analysis / Business Process Management

- Business Analysis
- GAP Analysis
- Workflow and Process Automation
- Process Mapping
- Business Process Management
- Business Process Engineering
- Process Improvement and Standards Facilitation
- Coordinating and Collaborating International Donor Support and Initiatives
- Strategic Planning Integrated with IT-based Solution

Software Development

- Website Development
- Web-based Enterprise Applications
- Database Management
- Land Record / Estate Management Systems
- Municipal Asset Management Systems
- Development of Customized MIS Solutions
- Centralized Management Information System
- Location-based Services
- Intelligent Transport System
- Command and Control Systems and Centers
- Catastrophe / Manmade Risk Modelling
- Command and Control Centers / Surveillance Systems
- Mobile Applications (Android-based)
- Real-time Smart Monitoring Systems
- Mobile Phone / Smart Phone Real-time Data Collection Solutions (Android-based)
- Smartphone Real-time Monitoring Tools

The power of mapping

Geographic Information System and Remote Sensing

Effective and efficient administration of cities relies heavily on sound planning. This planning is a result of legitimate and accurate data. Over time, Geographical Information System (GIS) has emerged as a formalized computer-based information system capable of integrating data from various sources to provide the information necessary for effective decision-making in urban planning. This sector provides technological solutions using geographic concepts, applications, and systems for smart urban development. GIS sector at the Urban Unit has the capacity and technological resources to integrate, store, analyze, share, and display geographic information for informed decision-making. The sector has developed various GIS applications especially the web-based enterprise level application of **Iris**. It is a decision-making support tool, through which quality updated information can be provided to provincial and local governments. **Iris** has developed a GIS-enabled spatial database with urban profile, land use mapping, infrastructure, and service delivery profile for Punjab, starting with five large cities including Lahore, Faisalabad, Multan, Rawalpindi and Gujranwala .

Core Objectives

- Strategic planning and integrated development through combination of accurate baseline information
- Monitoring and evaluation
- E-Governance and electronic mobile-governance
- Effective management and maintenance of spatial information
- Eliminating duplication of data, application and efforts
- Asset inventory for disaster management and recovery
- Standardization of symbols, database and processes
- Improved mapping and analysis – better access to maps
- Improved map currency, more effective thematic mapping and reduced storage cost
- Faster and more extensive access to the types of geographical information for planning
- Greater efficiency in retrieval of information

Remote Sensing

Remote sensing is a process/technique for collecting data about an object from a distance, through sensors mounted on aircrafts or satellites. Geographical information, when integrated with remote sensing, can save time in collecting land use and environmental information. Furthermore, it is possible to access data of dangerous or inaccessible areas through the remote sensing technique. The Urban Unit houses the technical capacity to execute remote sensing data of various spatial, spectral, radiometric and temporal resolutions being utilized for some of the following purposes:

- Urban planning
- Land administration
- Deforestation monitoring
- Crop estimation
- Environmental profiling

Key Projects

- **Monitoring Solution for Election Code of Conduct Violation**
- **Demarcation of Electoral Boundaries** for both National & Provincial Constituencies on High Resolution Satellite Imagery.
- **Monitoring and Evaluation of Private Housing Schemes** to design a reliable source of information for LDA to assess the extent of private unregistered landmarks. Land information for 200 housing schemes in Lahore have been acquired and placed in a geospatial environment along with web linkages.
- **Iris Punjab** a web-based system integrating all the Punjab Government departments by providing real-time data analysis and decision support capability
 - UNICEF – UNGEI PROJECT (United Nation's Girls Education Initiative)
 - UNICEF – GEPSP (Gender in Education Policy Support Project)
 - Sustainable Development of the Walled City, Lahore (SDWCL)
 - Mapping of Jallo and Changa Manga Forest
 - Spatial Database Development of Model Town, Lahore
 - PHA Parks
 - GIS-based Census Mapping
 - Public Bus Routes in Lahore
 - Vector Data Generation on SOP sheets, Punjab
 - GIS-based mapping of PESSI's (Punjab Employee Social Security Institute) Medical Outlets
 - Mapping of Government Buildings in Lahore
 - Punjab Spatial Data Infrastructure
 - Land Use and Commercialization Mapping of Lahore
 - Dengue Surveillance System

GIS Sector Strength

5 Ph.Ds and 70 staff members consisting of Senior GIS Specialists, GIS Analysts, Research Associates and Research Assistants possessing a minimum qualification of B.Sc. Honors/Master's degree in the specialized fields.

Hardware

Servers, Workstations, Digitizers, Plotters, Printers, Scanners, Photocopier and other necessities like generators for 24/7 uninterrupted power supply.

Software

Arc GIS Desktop; Arc Map, Arc Catalog, Arc Scene, Arc GIS Server 10, Arc SDE, Q GIS, Geo Server.

Available Services for Clients

- Spatial Data Development and Management Services
- GIS Technical Services
- GIS Data Services
- Integration of GIS Systems with Enterprise Level Systems
- GIS-based Asset Management System
- GIS-based Complaint Management System
- GIS Integrated Urban and Regional Planning Systems
- Geo-coding Services
- Enterprise GIS Implementation
- GIS and Location-based Services
- GIS based Real-time Monitoring System
- Customized GIS Application Development
- Digital Analysis of Satellite Imageries of Various Resolution
- Real-time Smart Monitoring Systems
- Mobile Phone / Smartphone Real-time Data Collection Solutions
- Planning and Execution of Capacity Building Programs Including Workshops, Seminars and Trainings

**"GIS is a form of digital mapping technology.
Kind of like Google Earth, but better."**

- Arnold Schwarzenegger -



Towards efficient, inclusive and sustainable urbanization

Environmental Management

An ecologically sustainable development framework is the cornerstone of the Urban Unit's interventions and consultancy input for policy, program and solutions for clients in public and private sector. Given the increasing footprint of the Urban Unit's interventions in ecological and urban environment of cities, the company provides professional, research-based advice and technical support as per city and client needs. The stress of growing urban population and urbanization in cities has resulted in environmental externalities as well as opportunities to transform cities and urban centers into development hubs and growth centers. Growth often brings forth multiple challenges pertaining to ecology and environment for local authorities and the government. The Environment Division of the Urban Unit is fully equipped to address the challenges of environment and urbanization with highly qualified human resources with international expertise and foreign education.

With knowledge of urbanization and environmental decision-making capabilities, our team of professionals is equipped with applied expert research in GIS and MIS tools. Thus, the Urban Unit Environment Division provides a wide portfolio of services to the public and private sector, assisting in developing frameworks for environmental protection, management and support for cities.

Environmental Management Components

- Solid Waste Management
- Water and Sanitation
- Environmental and Social Safeguards



"We have to shift our emphasis from materialism towards a sustainable quality of life and to healing of our society, of our people and our ecological systems."

- Janet Holmes à Court -

Solid Waste Management

Solid Waste Management (SWM) is a major challenge in urban areas across the world. Without an effective and efficient solid waste management program, the waste generated from various human activities, both industrial and domestic, can result in health hazards and have a negative impact on the environment. Understanding the waste generated, the availability of resources, and the environmental conditions of a society are important to developing an appropriate waste-management system. Thus, solid waste management includes all administrative, financial, legal, planning and engineering functions involved in solutions to all problems related to solid waste management. The solutions may involve complex interdisciplinary relationships among fields such as political science, city and regional planning, geography, economics, public health, sociology, demography, communications and conservation as well as engineering and material sciences.

The Solid Waste Management team at the Urban Unit comprises of waste management specialists and experts trained at the most competitive institutions of the world.

At the Urban Unit, we believe that it is imperative to provide sustenance to human and environmental health so the organization emphasizes on sustainable and efficient waste management practices. While establishing plans, policies and provisions we aim at preserving a balanced approach among environmental, economic and community needs, with a special focus on cost effective, efficient and innovative SWM solutions.

Key Projects

Planning and Design of Solid Waste Management System in 6 Major Cities of Punjab

- Situation analysis and development of baseline data for SWM system
- Assessment of Collection and transportation fleet and disposal practices
- Designed improved SWM system
- Prepared integrated waste management plans for construction, demolition and hospital waste
- GIS mapping of the waste collection points, transfer stations, waste disposal sites and other allied infrastructure

KOICA-World Bank Joint Study on Solid Waste Management in Punjab

- Development of technical, institutional, financial, private sector, and public involvement frameworks to support the Government of Punjab to improve SWM Services

Site Suitability Study for Landfills

- Project location: (Gujranwala, Multan, Okara, Bahawalpur, Sialkot)
- Identification of landfill sites
- Evaluation of identified landfill sites according to parameters
- Selection of best suitable landfill site

Small Scale Resource Recovery for Rural Union Councils Lahore

- Baseline data collection
- Situation analysis

- Comparative analysis of the available options
- Selection of best option for resource recovery
- Design of resource recovery facility

Project Document for Municipal Solid Waste Sanitary Landfill Site Lahore

- Analyze the current situation of disposal practices in Lahore
- Assess the available disposal options
- Assess future disposal technology viability based on integrated solid waste management system
- Shortlisting of possible disposal techniques
- Devising future road map for streamlining the waste disposal on a long-term basis

Ongoing Projects

Integrated SWM Master Plan for Gujranwala City

- Enhancing technical & managerial capacity of the city government
- Phase 1: Review and analysis of the present situation
- Phase 2: Formulation of a master plan
- Phase 3: Action plans for the target year 2025

Geotechnical Investigation, Topographic Survey and Environmental Impact Assessment of Gujranwala Landfill Site

The Urban Unit is conducting Geotechnical Investigation, Topographic Survey and Environmental Impact Assessment for the proposed site identified for the establishment of sanitary landfill in Gujranwala. These investigations, surveys and assessments are performed as per the approved national and provincial standards.

"Solid wastes are the discarded leftovers of our advanced consumer society. This growing mountain of garbage and trash represents not only an attitude of indifference toward valuable natural resources, but also a serious economic and public health problem."

- Jimmy Carter -



Water and Sanitation

Water Supply and Sanitation (WSS) sector at the Urban Unit aims to provide technical and professional support and consultancy services to provincial and local government entities and private sector in Pakistan and overseas; the objective is to meet the water supply and sanitation Millennium Development Goals for sustainable development.

The WSS sector works to provide efficient legal, regulatory and institutional arrangements for self-sustaining water supply, sanitation and wastewater treatment services. The sector also provides consultancy support services to clients for master planning, system design, third party validation, Geographic Information System (GIS) mapping and citizen report card for water supply and sewerage sector projects integrated with the GIS system. It employs various approaches including handholding for public-private partnership, companies startup, community and business partnership and engagement and design for innovative technical solutions as per client needs for sustainable water supply and sanitation systems in cities and rural areas for top-notch value addition and services.

Key Projects

Punjab Saaf Paani Program

- Technical support for planning and startup

Establishment of Punjab Water and Sanitation Academy in Lahore

- To improve technical, management and leadership capabilities in administrating municipal civic services

Changa Pani Program for UC- 60 Lahore

- An initiative of the Urban Unit through collaboration of local community to improve water and sanitation services in Lahore Badar Colony constituting a population of 21,000 inhabitants

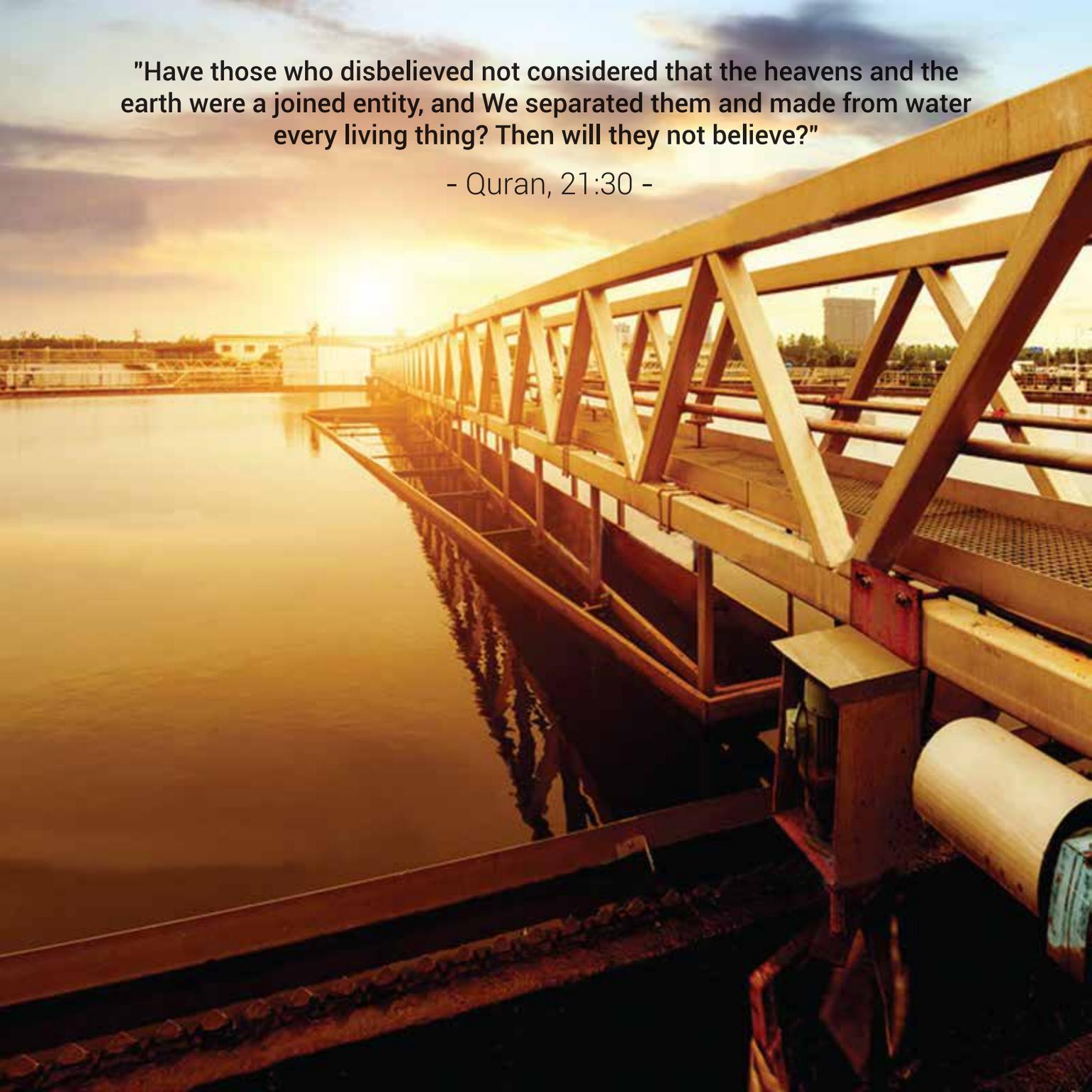
Benchmarking of Water Utilities

Available Services for Clients

- Master Planning and Design Services for the Sustainable Provision of Water Supply and Sanitation
- Design of Organizational Arrangement for Service Providers
- Third Party Validation
- Technical Support to New Organizations for Procurements of Goods and Services in the Sector
- Citizen Report Card
- Support from Loan Preparation / Feasibility Studies for ADB, World Bank and JICA
- Organizational Design
- Capacity Building Programs
- Baseline Survey
- Operational and Technical Support for Service Delivery
- Advice on Environmental Audit for Utilities

"Have those who disbelieved not considered that the heavens and the earth were a joined entity, and We separated them and made from water every living thing? Then will they not believe?"

- Quran, 21:30 -



Environmental and Social Safeguards

The absence of environmental and social safeguard policies and capacities in developing countries and regions has created issues and negative externalities that impact our cities, such as air pollution and other environmental threats. Effective program policies with environmental consideration is the cornerstone of our support to environmental resilience and sustainable development. The objective of environmental management is to prevent and mitigate undue harm to people and their environment in the development process. We aim to build capacities and support cities in the identification, preparation, and implementation of targeted initiatives with environmental sustainability and precautionary measures. The growth of cities has an impact on the surrounding ecosystem that requires immense focus, planning on protecting the environment and its relative facets. It also integrates services and substantial international programs that have been generated to support environmental management.

Key Projects

Punjab Cities Governance Improvement Project (PCGIP)

PCGIP is World Bank-funded project aimed to support the five cities of Punjab (Lahore, Multan, Faisalabad, Gujranwala & Rawalpindi) in strengthening the governance system. The function of environmental management has played a crucial role in many spheres of the project including:

- **Implementation of Environmental & Social Management Framework (ESMF)** in five major cities of Punjab (Lahore, Multan, Faisalabad, Gujranwala and Rawalpindi) to mitigate the anticipated social and environmental issues that may emerge during the execution of development schemes undertaken by the CDGs/WASAs of five cities.
- **Preparation & Implementation of IEE/EIA/RAP/SAR/ESMP** according to World Bank policy guidelines.
- **Formulation of Social & Environmental Policies and Guidelines**
- **Third Party Validation of Environmental & Social Aspects**
- **Training Programs for all Key Stakeholders**

Environmental Impact Assessment (EIA) of Soon Valley Tourism Development Project

EIA report of Soon Valley Tourism Development Project was prepared on behalf of TDCP. This report is based on detailed survey of physical, biological, socio-economic data and laboratory analysis of all the relevant parameters along with GIS details. A detailed EMP has been provided for all the proposed activities.

Ravi Riverfront Urban Development Project

- Baseline Survey of Environmental & Social Conditions of the Project Area
- Data collection on socio economic and environmental factors along with GIS based database of environmental and social conditions of the area.

Ongoing Projects

- Strategic Environmental Assessment of Bahawalpur Master Plan
- EIA and baseline survey of New City Development Project
- PEC registered training course on EIA and Health & Safety
- Training courses on environment and social safeguards of donor-funded projects

Available Services for Clients

- IEE/EIA
- ESMP's preparation, monitoring and implementation
- Environmental and Social management Framework preparation and implementation
- Environmental audits and monitoring
- Formulation of SOPs regarding environmental and Social Procedures
- Operational & technological support for environmental management procedures and its enforcement
- Social Impact Assessment reports
- Land Acquisition and Resettlement Plans preparation
- Strategic Environmental Assessment (SEA)



"Growth is inevitable and desirable, but destruction of community character is not. The question is not whether your part of the world is going to change. The question is how."

- Edward T. McMahon -

Innovate.Connect.Build

Institutional Development

Continuing interest in improving sector performance and accountability has led to various efforts in building the institutional and functional capability of public and private sector agencies and institutions in cities. Rather than simply increasing the budget for external support on job and tasks, the sustained efforts focus on making changes within the agency coupled with an integrated capacity building program. This often means developing staff skills and knowledge in management and planning through sustained and integrated efforts and institutional arrangements for capacity building addressing not only the demand–supply-side but also supporting short and long-term institutional environment to sustain the change.

The Urban Unit is an innovative institutional arrangement with focus on technical and professional capacities in the urban sector to support government, public/private sector institutions and government officials to develop their capacity and provide support in core urban functions of management, innovation, technological development and business and institutional solutions. These core areas of services include Urban Planning, Urban Transport, Solid Waste Management, Urban Water and Sanitation, GIS & Spatial Planning and Municipal Finance.

The company also possesses a wide range of operational infrastructure including state-of-the-art offices, mobile and indoor GIS Labs, IT labs and surveying and research units, equipped with a variety of hi-tech equipment.

Key Projects

- Institutional Design of Cities Governance - PCGIP
- Training Program for WASA and SWM Staff
- Entrepreneurship Training Program
- Reforms Initiative in WASAs and Cities
- IBNET Bench Marking for WASA
- PWON Networking
- Energy Audit Training
- Teacher Training for Environmental Teaching
- Selection and Training of MD WASAs
- Low Income Unit at WASA

Available Services for Clients

- Policy and Framework Development of Institutions
- Policy and Strategy Formulation
- Organizational Structure Development
- Service Provision Mechanism
- Financial Sustainability Analysis
- Setup of International Good Practices & Standards
- Accountability and Transparency
- Training Needs Assessment and Delivery
- Curriculum Design and Master Planning for Training
- Design of Community Partnership Program in Government Sector Interventions
- MIS-based M&E for Program and Projects
- Design of SAMA and Delegation Agreements

“Capacity building, capacity development, empowerment and strengthening-all describe an increase in the ability of a social organization to achieve the goals that are set by that organization.”

- Anonymous -



Monitoring and Evaluation

Monitoring and Evaluation (M&E) is an embedded concept and essential part of every project and program design. The business and governance environment in today's world requires M&E functions to be incorporated into the organizational culture and work routine as it is ideally understood as a dialogue on development and its progress among all stakeholders.

Although the term 'Monitoring and Evaluation' tends to go together as if it is only one thing; monitoring and evaluation are, in fact, two distinct sets of organizational activities. Monitoring is the routine and systematic collection of information against a plan. The information might be about activities, products or services, users, or outside factors affecting the organization or project. Evaluation is about using monitoring and other information you collect to make judgments about the value of any component of an organization or its projects, products, services or benefits or about the organization as a whole.

The M&E function at the Urban Unit operates with the following objectives:

- Support evidence-based decision-making
- Demonstrate what works and what does not in development
- Highlight what results can truly be attributed to development interventions
- Ensure accountability to stakeholders
- Identify potential problems
- Evaluate project objectives
- Incorporate stakeholders' feedback
- Need for mid-course corrections

Key Projects

- Third Party Validation for House Damage Assessment Survey for Flood Affectees, 2014
- Monitoring and Evaluation System for Annual Development Plans in Punjab

Available Services for Clients

We help our clients improve the impact, efficiency and sustainability of their services while providing accountability and insight. Our professional team has developed innovative methods to gain unprecedented access in vulnerable and remote areas, gathering high quality data through latest, reliable and sensitive approaches.

- Results Framework Development
- Data Quality Assessments
- Performance Management System Development
- Third Party Validation
- Impact Evaluation
- M&E System Design
- Data Collection and Monitoring
- GIS-based Online Data Collection Applications
- Performance Evaluation

**“Evaluate what you want - because what gets
measured, gets produced.”**

- James Belasco -



Making cities economically sustainable

Urban Economics and Municipal Finance

The urban economics sector of the Urban Unit aims to facilitate other sectors in economics and demographic analysis of the province. It provides other sectors with key information, which enables them to perform baseline analysis.

Municipal finance fuels local government and financial success requires a sound enabling environment created through the implementation of practices for local government budgeting, financial management, and revenue generation. The Urban Unit has worked with federal and provincial governments and possesses the capacity to analyze municipal finance in terms of the federal and provincial legal and policy framework, and institutional arrangements for local revenue enhancement. Similarly, Urban Unit has successfully introduced reforms at the local level that have resulted in substantial revenue enhancement. These have included improvements in property tax collection and the introduction of e-governance tools that enable the efficient collection of other municipal fees and charges.

Key Projects

- The Punjab Property Tax Act (PIPT Act 2008)
- Municipal Finance Study for Five Large Cities (2008)
- Property Tax Decentralization Program in Punjab (2009)
- In-depth Analysis of Capital Investment Projects for Five City District Governments (2007)
- Post-Devolution Scenario-A Case for Reforms (2007)
- Financial Modeling of RDA Parking Plaza
- Poverty & Social Impact Analysis in Urban Punjab
- Socio-Economic & Demographic Profile 1998-2008 Faisalabad, Lahore and Gujranwala
- City Profile of Intermediate Cities of Punjab (Gujrat, Sargodha, Bahawalpur, Dera Ghazi Khan, Jhang, Okara, Sahiwal, Rahim Yar Khan and Kasur)

Available Services for Clients

- Financial Management and Reporting Procedures
- Property Tax Assessment Methodologies
- Property Tax Billing, Collection and Monitoring Systems
- GIS-based IT Tools for Municipal Services
- Financial Analysis and Financial Modeling
- Socio-economic and Demographic Analysis
- City Profiling

“Any city however small, is in fact divided into two, one the city of the poor, the other of the rich. These are at war with one another.”

- Plato -



Knowledge that empowers

Information and Communications

The 21st century is the era of knowledge management, a process which is systematic and based on active management of ideas, information, and knowledge residing within organizations and institutions. There is information, data and institutional memory and knowledge available that is not being fully transformed into organization learning for improved decision-making and governance of cities. Re-conceptualizing the idea and discourse of development planning and decision-making with transparency for building on the existing local knowledge; knowledge management is key expertise of the Urban Unit with all solutions. The **Urban Unit Learning Resource Centre** is significant demonstration of translating ideas into practice. The centre acts as an information and learning forum that provides an opportunity to cope with urban development challenges through research and information dissemination to stakeholders.

Key Projects

- **Applied Knowledge Integration in Curricula Specialized, Training Programs and Short Courses**
 - Designed and Conducted a Semester Course on Urban Sociology for M.Phil in Sociology at the University of Gujrat
 - Revised curriculum and conducted 10 months course of Urban Development and Management for Civil Services Academy & CIMLA
 - Planned / Conducted three courses of six weeks on Solid Waste Management for fresh graduates.
 - Planned / Conducted four weeks training program on Urban Planning and Management for newly conducted Town Officers (Planning & Coordination in the Local Government & Community Development Department, GoPb).
- **MOU for Knowledge Management and Network Establishment**
 - Signing of MoU with Universities for knowledge sharing and knowledge generation
 - NED
 - UET
 - Establishment of Pakistan Water Operators Network

Available Services for Clients

- Codifies Information and Knowledge Building on Specific problems with Knowledge-based Solutions
- Development of Formalized Controls, Approaches, Technologies for Decision-making , Asset Management, M&E Reporting and Compliance for Internal and External Use
- Development of Systems for KM
- Information Research and Data Analysis
- Case Studies for Organizational Learning
- Review of Programs
- Establishment of Knowledge Repository Center
- Review Based on KM and Institutional Learning
- **Iris** for Specific Knowledge Management Purposes

**“Knowledge
Management is the
art of creating value
from intangible
assets.”**

- Karl-Eric Sveiby -





The Urban Unit Communications Sector harnesses the full potential of strategic communications, media relations and communications strategy development services in order to help clients use the power, importance and added value of strategic advocacy to deliver positive impact on the communities that we serve in multidisciplinary sectors of urban planning and development. Strategic communication has become a vital part of major development projects that ensures active public participation at all levels –from decision-making to execution. With a pragmatic perception of the new concept- Communication for Development (C4D), the Urban Unit has employed a competent team well-versed in all fields of communications. The Communications Sector strives for achieving programmatic goals by sharing information with stakeholders at every stage in order to enhance the stakeholder consultation experience and ensure two-way stakeholder communication. The team engages with individuals and the community at large via its active presence on social media, websites, print and electronic media, and through a diverse range of publications, IEC material, brochures, booklets, trainings, seminars workshops, media campaigns, and other promotional activities. We offer overarching strategic communications solutions tailored according to the needs of each project and client.

Key Projects

- Pakistan Urban Forum 2011 and 2014
- Communications Strategy for World Bank-funded Punjab Cities Governance Improvement Project (PCGIP)
- Communications Strategy for Water and Sanitation Services Peshawar
- Communications Plan for Bahawalpur Master Plan
- Promotional Plan for Soon Valley Eco-Tourism Development Project
- Media Campaigns for WASA Gujranwala & Faisalabad
- Communications Materials for Murree Beautification Plan
- Communications Campaign for Water and Sanitation Hackathon 2012
- Branding and Communications for Transport Planning Unit, Punjab
- Branding and Marketing of Migration Seminar for UNFPA - United Nations Population Fund
- Event Management and Branding for World Habitat Day UNHABITAT
- Website development for LWMC, PCGIP, Excise and Taxation Department, Soon Valley, Pakistan Urban Forum, Pakistan Journal of Urban Affairs and Pakistan Water Operators Network

- Branding and Marketing for International Conference on Town Planning and Urban Management 2014, UET
- Communications Material for Punjab WSS Service Delivery Assessment Launch Workshop
- Inauguration of Metro Bus Potohar Station

Available Services for Clients

- Website Development and Management
- Communications Strategy and Implementation
- Media Relations and Liaison
- Social Media Strategy
- Publications
- Media Campaigns (Electronic and Press)
- Graphic Design
- Event Management and Promotion
- Branding and Marketing
- Crisis Communications
- Android App Design
- Documentary and Film
- ICT Material

“Communication - the human connection - is the key to personal and career success.”

- Paul J. Meyer -



Fact Sheet



Team Members



310

Project Team



50

Specialists

Learning Resource Center



Books
5,000



Research Material
12,050



Journals
1,050



CDs/DVDs
500

State-of-the-art IT labs

IT Equipment

- 20** Production Servers
- 07** GIS Servers
- 05** Database Servers
- 02** Network Security Appliances
- 80** Android Phones



Database

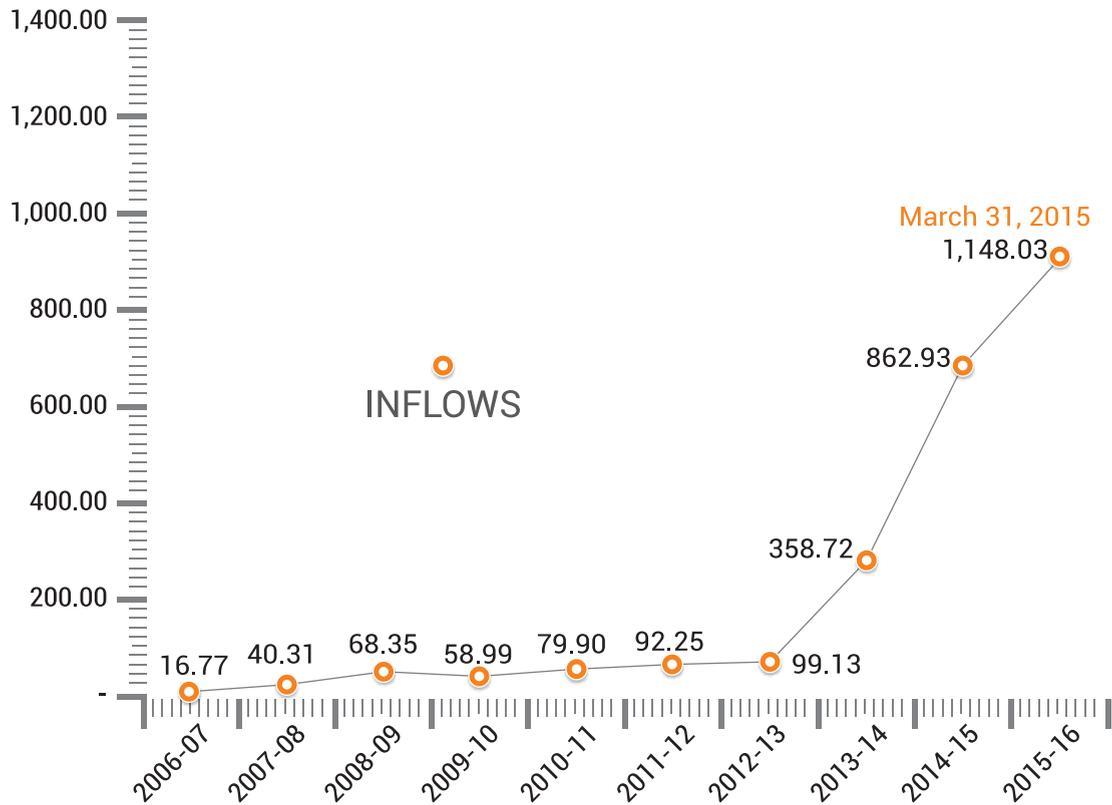
Oracle 10 g
Oracle Spatial
MS SQL Server 2000, 2005, 2008, 2012
Postgres, Post GIS
mySQL, Microsoft Access

Software

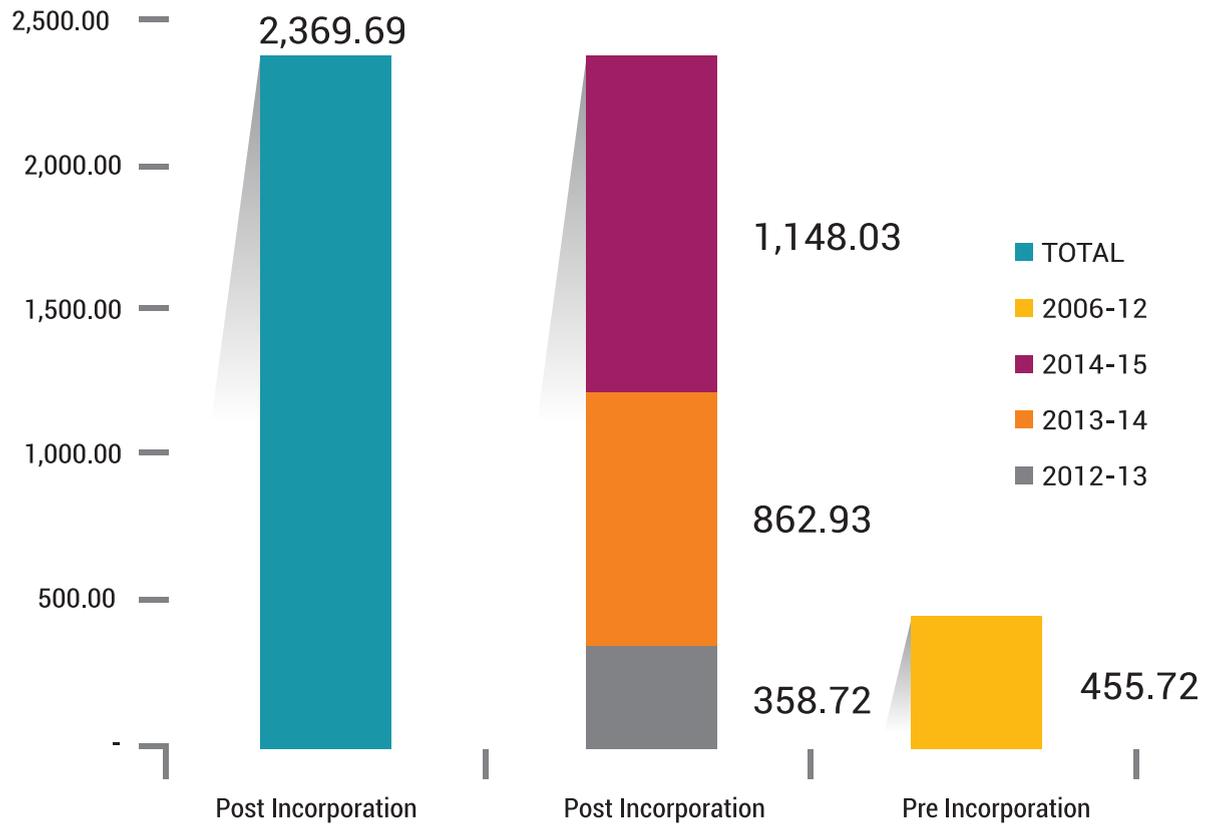
Arc GIS Server 10
Arc GIS Desktop
Arc Map
Arc Catalog
Arc Scene
Arc SDE
Q GIS
Geo Server

Trend Analysis

(Rupees in MILLION)



Pre & Post Incorporation Comparison





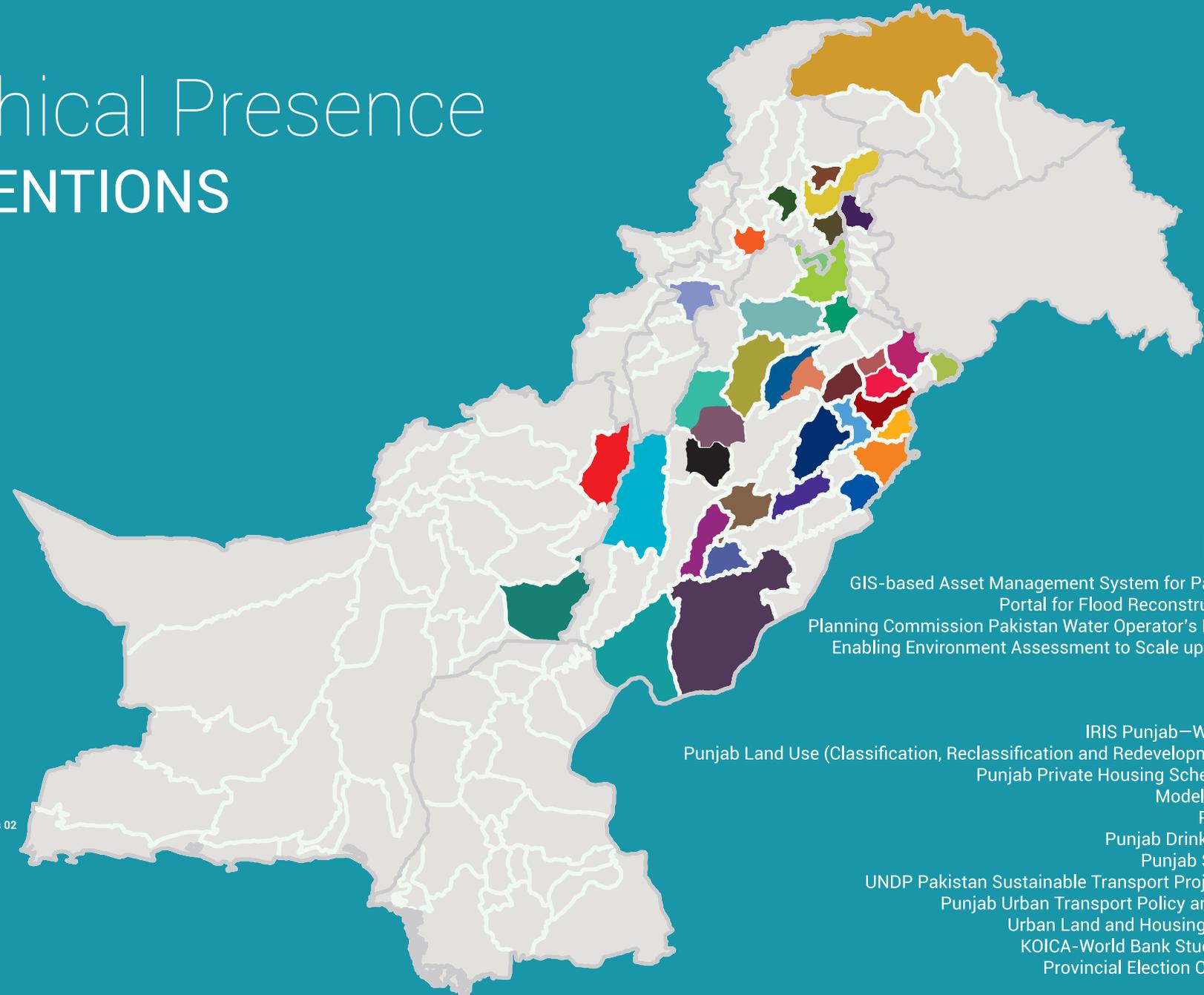
Urban Unit's Geographical Presence

PROJECT INTERVENTIONS



LEGEND

01 Azad Kashmir 🏠 01	02 Jhang 🏠 01 Others 01	01 Nankana Sahib Others 01
01 Bahawalnagar 🏠 01	01 Jhelum Others 01	01 Narowal Others 01
06 Bahawalpur 🏠 03 🏠 01 🚗 01 Others 01	04 Kasur 🏠 01 🏠 01 🏠 01 🏠 01	02 Okara 🏠 01 🏠 01
02 Bhakkar 🏠 01 Others 01	02 Khanewal 🏠 01 Others 01	02 Peshawar 🏠 01 🚗 01
03 Chiniot 🏠 01 🏠 01 Others 01	02 Khushab 🏠 01 Others 01	04 Rahim Yar Khan 🏠 01 🏠 01 🏠 01 Others 01
05 D G Khan 🏠 02 🏠 01 🏠 01 Others 01	01 Kohat 🏠 01	02 Rajanpur 🏠 01 Others 01
16 Faisalabad 🏠 09 🏠 01 🏠 01 🏠 02 🚗 01 Others 02	33 Lahore 🏠 12 🏠 08 🏠 04 🏠 03 🚗 02 Others 04	13 Rawalpindi 🏠 07 🏠 02 🏠 02 Others 02
03 Fort Munro 🏠 02 🏠 01	02 Layyah 🏠 01 Others 01	05 Sahiwal 🏠 03 🏠 01 🏠 01
01 Gilgit Baltistan 🚗 01	02 Lodhran Others 02	03 Sargodha 🏠 01 🏠 01 Others 01
01 Gujjar Khan 🏠 01	01 Mandi Bahauddin Others 01	09 Sheikhupura 🏠 01 🏠 01 🏠 06 Others 01
16 Gujranwala 🏠 08 🏠 01 🏠 03 🏠 01 Others 03	02 Mianwali 🏠 01 Others 01	12 Sialkot 🏠 02 🏠 01 🏠 01 🏠 01 🚗 05 Others 02
04 Gujrat 🏠 01 🏠 01 Others 02	12 Multan 🏠 08 🏠 01 🏠 01 Others 02	02 Toba Tek Singh 🏠 01 🏠 01
04 Hafizabad 🏠 01 🏠 01 🏠 01 Others 01	05 Murree 🏠 03 🏠 01 Others 01	
04 Islamabad 🏠 03 🏠 01	03 Muzaffargarh 🏠 02 Others 01	



Nationwide

GIS-based Asset Management System for Pakistan Railways
Portal for Flood Reconstruction Unit (FRU)
Planning Commission Pakistan Water Operator's Network (PWON)
Enabling Environment Assessment to Scale up Rural Sanitation

Punjab

IRIS Punjab—Web-based Portal
Punjab Land Use (Classification, Reclassification and Redevelopment) Rules 2009
Punjab Private Housing Schemes Rules 2010
Model Building Bylaws
Punjab Water Act
Punjab Drinking Water Policy
Punjab Sanitation Policy
UNDP Pakistan Sustainable Transport Project (PAKSTRAN)
Punjab Urban Transport Policy and Strategy 2007
Urban Land and Housing Markets Punjab
KOICA-World Bank Study on SWM 2010
Provincial Election Coordination Cell



Urban Planning | Geographic Information System



Transport



Solid Waste Management



Water and Sanitation — Numbering depicts total number of projects in respected cities and color represents geographical presence.

01 | Azad Kashmir



- Technical Assistance in Urban and Regional Services

01 | Bahawalnagar



- Solid Waste Management Plan

06 | Bahawalpur



- City Profile under ADB PCIIP
- Comprehensive & Strategic Master Plan for Bahawalpur City
- Monitoring of ADPs Schemes
- GIS-based Assistance for Governance Improvement
- Financial Sustainability of Water and Sanitation Services
- Flood Damage Assessment

02 | Bhakkar



- Land Records Scanning
- Flood Damage Assessment

03 | Chiniot



- City Profile under ADB PCIIP
- GIS-based Assistance for Governance Improvement
- Flood Damage Assessment

05 | D G Khan



- City Profile under ADB PCIIP
- Concept Urban Design Plan for Bazars
- GIS-based Assistance for Governance Improvement
- Integrated Solid Waste Management System
- Land Records Scanning

16 | Faisalabad



- Peri Urban Structure Plan 2015-2035
- Comprehensive City Boundary
- Assessment of Legal & Regulatory Framework for Urban Land Development & Management
- Assessment of Land Development and Management Practices
- Assessment of Institutional Arrangement for Urban Land Development & Management
- Assessment of Capacity and Capacity Building Institutions
- Poverty & Social Impact Assessment
- Socio-Economic Compendium
- FDA Land Use (Classification, Reclassification and Redevelopment) Rules 2009
- GIS based Decision Support Tools
- Urban Transport Policy Study
- Planning & Design of Solid Waste Management System
- Establishment of Waste Transfer Stations
- Monsoon Plan for WASA
- Urban Immovable Property Tax (UIPT) Automation
- Punjab Cities Governance Improvement Project (PCGIP)

03 | Fort Munro



- Technical Support for Eco Tourism Master Plan
- Site Evaluation for Development of Cadet College
- GIS-based Assistance for Governance Improvement

02 | Gilgit Baltistan



- Technical Assistance in Water and Sanitation
- Master Planning of Sewerage System

01 | Gujjar Khan



- Solid Waste Management Plan

16 | Gujranwala



- Comprehensive City Boundary
- Assessment of Legal & Regulatory Framework for Urban Land Development & Management
- Assessment of Land Development and Management Practices
- Assessment of Institutional Arrangement for Urban Land Development & Management
- Assessment of Capacity and Capacity Building Institutions
- Poverty & Social Impact Assessment
- GDA Land Use (Classification, Reclassification, and Redevelopment) Rules 2009
- Socio-Economic Compendium
- Geotechnical Investigation, Topographic Survey & Environmental Impact Assessment of Landfill Site
- Transport Planning and Traffic Surveys for Gujranwala
- Urban Transport Master Plan 2013-33
- Urban Transport Policy Study
- Technical Assistance in Integrated SWM Master Plan - JICA
- Flood Damage Assessment
- Urban Immovable Property Tax (UIPT) Automation
- Punjab Cities Governance Improvement Project (PCGIP)

04 | Gujrat



- City Profile under ADB PCIIP
- SWM Action Plan for Gujrat 2013
- Course on Urban Sociology for M.Phil at University of Gujrat
- Flood Damage Assessment

04 | Hafizabad



- Design of Model Bazar
- Design of Multimodal Bus Terminal
- Solid Waste Management Plan
- Flood Damage Assessment

04 | Islamabad



- GIS-based survey of built up properties of six proposed sectors of CDA Management for Federal Government Employees Housing Foundation (FGEHF)
- Spatial Data Infrastructure (SDI)
- GIS-based Assistance for Governance Improvement
- Study on Slums

02 | Jhang



- City Profile under ADB PCIIP
- Flood Damage Assessment

01 | Jhelum



- Flood Damage Assessment

04 | Kasur



- City Profile under ADB PCIIP
- GIS-based Assistance for Governance Improvement
- Design of Multi-Modal Bus & Truck Terminal
- SWM Action Plan 2014

02 | Khanewal



- GIS-based Assistance for Governance Improvement
- Flood Damage Assessment

02 | Khushab



- GIS-based Assistance for Governance Improvement
- Flood Damage Assessment

01 | Kohat



- Study on Slums

02 | Layyah



- Land Records Scanning
- Flood Damage Assessment

33 | Lahore

12 | 08 | 04 | 03 | 02 | Others 04

- Comprehensive City Boundary
- Assessment of Legal & Regulatory Framework for Urban Land Development & Management
- Assessment of Land Development and Management Practices
- Assessment of Institutional Arrangement for Urban Land Development & Management
- Assessment of Capacity and Capacity Building Institutions
- LDA Land Use (Classification, Reclassification, and Redevelopment) Rules 2009
- Poverty & Social Impact Assessment
- Technical Support for Integrated Strategic Development Plan (ISDP-35)
- Technical Support for River Ravi Front
- Commercialization Management Plan
- Restoration of Royal Route/ Trail – Walled City Lahore
- Monitoring and Evaluation of Private Housing
- Socio-Economic Compendium
- Technical Assistance for Lahore Urban Transport Master Plan (LUTMP) - JICA
- Parking Management Plan Liberty Market
- Technical Assistance and Mapping for Ferozepur Road Pilot
- Project Technical Support and GIS-based Map for Sustainable Development of Walled City
- Mapping of Jallo & Changa Manga Forest
- Spatial Database Development Model Town
- Marking of Public Bus Routes
- Mapping of Government Buildings
- Land Use & Commercialization Mapping
- Flood-Prone Area Mapping
- Urban Transport Policy Study
- Intelligent Transport System (ITS) Metro Bus Project
- Municipal Solid Waste Sanitary Landfill Site
- Capacity Building of Waste Managers
- JICA Technical Assistance for Punjab Water & Sanitation Academy
- Changa Pani Program
- Technical Assistance for Punjab Saaf Pani Company
- Pension Automation System
- Urban Immovable Property Tax (UIPT) Automation
- Sheesh Mahal Mauza Pilot Urban Land Record System (UPTRACS)
- Punjab Cities Governance Improvement Project (PCGIP)

02 | Lodhran

Others 02

- Pilot Project for Land Record Information Management System
- Automation of Wheat Procurement

01 | Mandi Bahauddin

Others 01

- Flood Damage Assessment

02 | Mianwali

01 | Others 01

- Land Records Scanning
- Flood Damage Assessment

12 | Multan

08 | 01 | 01 | Others 02

- Comprehensive City Boundary
- Assessment of Legal & Regulatory Framework for Urban Land Development & Management
- Assessment of Land Development and Management Practices
- Assessment of Institutional Arrangement for Urban Land Development & Management
- Assessment of Capacity and Capacity Building Institutions
- Socio-Economic Compendium
- Poverty & Social Impact Assessment
- MDA Land Use (Classification, Reclassification, and Redevelopment) Rules 2009
- GIS-based Assistance for Governance Improvement
- Urban Transport Policy Study
- Flood Damage Assessment
- Punjab Cities Governance Improvement Project (PCGIP)

05 | Murree

03 | 01 | Others 01

- Upgradation of Murree Mall Road
- Restoration of GPO Murree
- Technical Support to TDCP for Development of Eco-Tourism Master Plan 2011
- Traffic Signage Strategy
- Punjab Police Integrated Command, Control & Communication Center

03 | Muzaffargarh

02 | Others 01

- GIS-based Assistance for Governance Improvement
- Land Records Scanning
- Flood Damage Assessment

01 | Nankana Sahib

Others 01

- Flood Damage Assessment

01 | Narowal

Others 01

- Flood Damage Assessment

02 | Okara

01 | 01

- City Profile under ADB PCIIP
- SWM Action Plan for Okara 2013

02 | Peshawar

01 | 01

- Design of Pedestrian Precincts and Parking Plaza
- Consumer Survey in Water and Sanitation

04 | Rahim Yar Khan

01 | 02 | 01

- City Profile under ADB PCIIP
- GIS-based Assistance for Governance Improvement
- Land Records Scanning
- Integrated SWM Plan

02 | Rajanpur

01 | Others 01

- Land Records Scanning
- Flood Damage Assessment

13 | Rawalpindi

07 | 02 | 02 | Others 02

- Comprehensive City Boundary
- Assessment of Legal & Regulatory Framework for Urban Land Development & Management
- Assessment of Land Development & Management Practices
- Assessment of Institutional Arrangement for Urban Land Development & Management
- Assessment of Capacity and Capacity Building Institutions
- Socio-Economic Compendium
- RDA Land Use (Classification, Reclassification, and Redevelopment) Rules 2009
- Urban Transport Policy Study
- Technical and Financial Evaluation Parking Plaza Project – Fawara Chowk
- Solid Waste Management System
- Development of Refuse Derived Fuel Plant
- Urban Immovable Property Tax (UIPT) Automation
- Punjab Cities Governance Improvement Project (PCGIP)

05 | Sahiwal

03 | 01 | 01

- City Profile under ADB PCIIP
- Technical Assistance for Sialkot under ADB CDIA
- Concept Urban Design and Beautification Plan
- GIS-based Assistance for Governance Improvement
- Integrated SWM Plan

03 | Sargodha

01 | 01 | Others 01

- City Profile under ADB PCIIP
- GIS-based Assistance for Governance Improvement
- Flood Damage Assessment

09 | Sheikhpura

01 | 01 | 06 | Others 01

- City Profile under ADB PCIIP
- GIS-based Assistance for Governance Improvement
- Design of Multi-Modal Truck Terminal
- Design of Multi-Modal Bus Terminal
- Traffic Circulation Plan
- Pedestrian Facility Study
- Surveys for Urban Transport Master Plan 2013-2033
- Financial Assessment of Truck Terminals
- Vehicle Intensity Mapping
- Flood Damage Assessment

12 | Sialkot

02 | 01 | 01 | 01 | 05 | Others 02

- Technical Assistance for Sialkot Pilot Project under ADB PCIIP
- Technical Assistance for Sialkot under ADB CDIA
- GIS-based Assistance for Governance Improvement
- Transport Sector Strategy and Action Plan
- Solid Waste Management Strategy and Action Plan
- Water Supply, Sewerage and Drainage Strategy and Action Plan
- Water Samples Testing Report of Sialkot City
- Survey Report on Tubewells and Sewage Pumping Stations
- Energy Audit Report on Tubewells and Sewage Pumping Stations
- Waste Assessment and Characterization Survey
- Urban Immovable Property Tax (UIPT) Automation
- Flood Damage Assessment

02 | Toba Tek Singh

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- GIS-based Assistance for Governance Improvement
- Design of Bus Terminal

Our Partners







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