INFORMATION TECHNOLOGY DEPARTMENT

Richard Lewis, CIO

CITY OF HOUSTON Technology Investment Plan

Proposed





FY 2011 - 2015

Technology Investment Plan

Executive Summary



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What is the TIP?



The Technology Investment Plan (TIP) is the City's Five (5)-Year Plan for significant Information Technology (IT) Capital Investment, Replacement and Refresh required for all citywide Infrastructure and Enterprise Application environments



It is updated based on citywide priorities, continuous business re-alignment, technology development and is re-forecast to adhere to the most current, best practices

All CTO departments submit Form As describing
TIP projects and asset replacement/refresh requirements;
identifying anticipated return on investment (ROI) and
potential impact to operating budgets (i.e. savings, maintenance, FTEs)
planning all necessary annual budgetary requirements

The TIP resembles the City's Capital Improvement Plan (CIP) in terms of organization and recognizes, as does the CIP, that significant asset refresh and upgrades and technology shifts are cyclical and generally

occur over the economic life of the assets

The TIP presents planned appropriations by department to be submitted for Council Approval.

Technology projects adhere to similar CIP project phasing
including Assessment, Design and Implementation

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CITY OF HOUSTON **Technology Investment Plan**

Oversight? Who manages the TIP?



Technology Steering Committee (TSC)

Information Technology Department

Richard Lewis, Chief Information Officer & TSC Chair Earl Lambert, Deputy Director, Citywide Chief Technology Officer Gary Morris, Deputy Director, Citywide Infrastructure Thomas Sorley, Deputy Director, Citywide Radio Communications Mark Stinnett, Assistant Director, ITD Chief Technology Officer



CTO Departments

Aviation

Health and Human Services Houston Emergency Center

Library

Planning and Development

Public Works and Engineering

Municipal Courts Administration

Non-CTO or Other Departments / Divisions *

Chief Technology Officers (CTOs)

Matt Hyde

Patrick Plummer

Vernon Hunt

Al Garcia

Ronald Stauss Max Samfield

David Morgan

Olailvie Gericke

Rex Billings

Mark Stinnett

3-1-1 Online Service Requests, Affirmative Action and Contract Compliance, City Secretary, Convention & Entertainment, Finance, ARA, General Services, Housing, Human Resources, Information Technology, Legal, Parks and Recreation and Solid Waste Management

PROPOSED JULY 2010

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What Guides the TIP?











VISION

To be an information technology organization recognized for collaborative partnerships, proactive leadership, strategic innovation, and quality customer service.

MISSION

To improve the quality of services to our customers (citizens and employees) on a daily basis through cross-functional teamwork while minimizing operating expenses and improving the City's business processes business processes.

VALUES

- Professional focus and initiative
- Invest in our employees
- Reward success and value lessons
- Expect high levels of productivity and excellence Operate with integrity to build trustful relationships and dependability

Improve infrastructure, core business processes and provide effective citywide management structure

- · Emphasize system simplicity
- Standardize enterprise architecture to reduce complexity
- · Executive accountability
- · Plan annual replacement requirements

Align IT resources with City business objectives and balance effectiveness / efficiency to: Reduce operating cost Limit growth to the workforce

· Improve services to citizens / employees Security

Continuously strengthen IT security through Network Re-Design, Hardware/Software Enhancements, Multi-Layering Approaches, Policy and Procedure, and in the future, Mandatory Training/Testing, Incident Response, Regular Per

Introducing the New TIP IMPACT System *
Allows CTOs to Enter and Update TIP Form As Online
Provides Direct Online Access to Employees and Citizens
Expedites Annual Budget Preparation and Review Processes
Enables more Efficient and Comprehensive Reporting
Provides an Automated Change Management System

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How is the TIP Funded?



MAJOR FUNDING SOURCES

Equipment Acquisition Funds (EAF)

The EAF portion of the TIP is short-term general obligation debt serviced by property tax revenue as part of the annual budget. EAF involves the following 8 General Fund departments:

IT Consolidated EAF

Municipal Courts Admin (MCAD)

Houston Police (HPD)

Houston Fire (HFD)

Houston Emergency Center (HEC)

Public Works & Engineering (PWE)

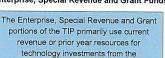
Houston Public Library (HPL)

Health & Human Services (HHS)

Information Technology (IT)

Planning & Development (PD)

Enterprise, Special Revenue and Grant Funds



departments / funds listed below: Enterprise

Aviation (HAS) PW&E (Public Utilities) Convention & Entertainment Facilities (C&EF)

Special Revenue

PW&E (Building Inspection) PW&E (Storm Water) Municipal Courts Admin (Technology Fund) Houston Emergency Center (HEC)

Grants

Houston Public Library (HPL) Housing & Community Development (HCD) Health & Human Services (HHS)

PROPOSED JULY 2010

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Tier 1 - All Funding Sources



FUND	Through 2009	Estimated 2010	2011	2012	2013	2014	2015	2011-2015	Total
1800 IT Consolidated EQ Acquisition Fund (EAF)	27.765	21,083	27.835	22,937	14.635	13,178	11,810	90,395	139,243
2002 Health-Special Revenue Fund	-	0	0	190	0	10,1,0	0	190	190
2207 MCAD-Tech Special Revenue Fund	-	102	25	-0	ŭ	ŏ	0	25	127
2301 PWE-Building Inspection Fund	_		1,607	695	118	50	50	2,520	2,520
5040 PWE-Other Government-Grant Funded	-	0	3,750	0,5	110	30	0	3,750	3,750
8001 HAS-Revenue Fund (Enterprise)	1,818	1,818	3,458	1,141	1,141	1,141	1.141	8,022	
8012 HAS-AIF Capital Outlay Fund (Enterprise)	604	661	3,255	212	212	212	212		11,658
8300 PWE-W & S System Operating Fund	-	0	2,671	1,655	865	765	765	4,103 6,721	5,368
8305 PWE-Combined Util. Sys. Fund (Enterprise)	-	0	8,981	8,280	4,228	531	542	22,561	6,721
Radio-Anticipated Grants	-	0	1,764	20,754	7,409	0	0	29,927	22,561
Radio-Existing CIPs	3,324	2,742	2,800	20,734	25,135	0	0		29,927
Radio-Existing Grants	12,993	11,400	23,389	0	23,133	0	0	27,935	34,001
Radio-General Fund PIBs	12,333	11,400	23,369	0	9,623	0		23,389	47,782
GRANT TBD-HPD Port Authority-Mobile Data Project		0	3,620	0			0	9,623	9,623
or and the professional Project	-	U	3,620	0	0	0	0	3,620	3,620
Grand Total:	46,504	37,806	83,155	55,864	63,366	15,877	14,520	232,781	317,091

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Tier 1 TIPs - EAF PROJECTS

Department	Through 2009	Estimated 2010	2011	2012	2013	2014	2015	2011-2015	Total
TIP - Fire									
99-10-12-0010 FIRE-Incident Command & Control System			200					200	20
99-10-12-0011 FIRE-E-Forms and Workflow System			100	50	25			175	17
99-10-12-0013 FTRE-Server Virtualization and Consolidation		110	50	50	50			150	21
99-11-12-0025 Desktop Refresh - FIRE	819	56	95	200	200	200	273	968	1,8
Total:	819	166	445	300	275	200	273	1,493	2,47
TIP - Health and Human Services									
99-11-38-0016 Desktop Refresh - HEALTH	437	223	142	156	76			374	1.0
Total:	437	223	142	156	76	0	0	374	1,0
TIP - Houston Emergency Center									
99-07-15-0011 HEC-CAD Upgrade/Replacement	357		400	1.500	1.500	1,500	1,100	6,000	6,3
99-11-15-0033 Desktop Refresh - HEC	207	22	24	149	87	87	87	434	6
Total:	564	22	424	1,649	1,587	1,587	1,187	6,434	7,02
TIP - Library				-,	2,007	2,00,	2/20/	0,101	,,
99-07-34-0001 Desktop Refresh - HPL	414	131	332	663	400	400	369	2.164	2.70
Total:	414	131	332	663	400	400	369	2164	2,70
TIP - Planning and Development		202	552	003	400	400	309	2104	2,7
99-07-70-0001 PLANNING-EGIS	1.250	162	400	430	500	500	500	2,330	3,7
99-11-70-0010 Desktop Refresh - Planning	34	702	450	11	24	11	7	2,330	3,7
Total:	1,284	169	404	441	524	511	507	2,387	3,84
TIP - Police	1,204	109	404	****	324	311	507	2,387	3,64
99-07-10-0002 HPD-Mobile Data Strategy			1,500	6,000					
99-07-10-0002 HPD-Neighborhood Protection Case (NPC) Mgmt System	226	200	725	200	200	200	225	7,500 1,550	7,5
99-07-10-0003 HPD-Neighborhood Protection Case (NPC) Highir System 99-07-10-0010 HPD-Records Mamt System (RMS)	7.258	4.882							1,9
99-07-10-0010 Pro-Records mgmt System (RMS) 99-11-10-0050 Desktop Refresh - HPD	1,684	396	2,250 379	3,500	3,500	3,500	2,000	14,750	26,8
79-11-10-0030 Desktop Keiresii - NPO Total:				1,434	1,200	1,200	1,200	5,413	7,4
TIP - Public Works and Engineering	9,168	5,478	4,854	11,134	4,900	4,900	3,425	29,213	43,8
		18				THE RESIDENCE OF THE PARTY OF T	-		
20-11-20-3000 Desktop / Laptop Refresh - PWE (ENT, SR, EAF) Total:	157		74	140	140	140	140	634	84
	157	18	74	140	140	140	140	634	80
TIP - Municipal Courts Administration	OF THE STORY AND ADDRESS OF								
99-10-16-0016 MCAD-ICMS HW Replacement/Refresh		225	100	65	almost burners			165	3
99-10-16-0017 MCAD-CSMART - Municipal Courts Management System	250	6,560	3,000	3,000	1,250			7,250	14,0
99-10-16-0026 MCAD-Self Service Payment Kiosks			110	100	100	40		350	3:
99-11-16-0030 MCAD-Desktop Refresh	199	61	62	150	150	150	165	677	9.
99-11-16-0032 MCAD-Collection Module			155					155	1
Total:	449	6,846	3,427	3,315	1,500	190	165	8,597	15,89
TIP - Information Technology									
99-07-68-0001 IT-INFRA-UCS PBX	1,200	800	500	1,000	1,000	1,000	494	3,994	5,9
99-07-68-0002 IT-INFRA-Active Directory& Exchange Migration	6,962	3,166	1,426					1,426	11,5
99-07-68-0003 IT-Server Storage/SAN Asset Replacement	937	475	1,150	1,000	1,000	1,000	1,000	5,150	6,5
99-07-68-1001 IT-APPS-Call Center (3-1-1 Refresh)	1,633	520	1,000	250	250			1,500	3,6
99-09-09-6899 IT-INFRA-Network Replacement	300	625	1,000	1,000	1,000	1,500	1.500	6,000	6,9
99-09-65-0003 IT-APPS-ARA-1-Stop Permitting	697		500	300	200			1,000	1.6
99-09-68-1009 ITD-ERP-SAP Business Intelligence	1,143	1,664	915					915	3,7
99-10-68-2016 IT-INFRA-Data Center & Server Transformation		342	1,000	1.000	1.000	1,000	2,000	6,000	6.3
99-11-65-0010 Automated Time & Attendance System (Kronos)			8,354	-,	-,	2,000	2,000	8,354	8,3
99-11-68-1100 IT-INFRA-Desktop Refresh-ITD & NON-CTO Depts	1.601	438	1.888	589	783	750	750	4,760	6,7
Total:	14,473	8,030	17,733	5,139	5,233	5,250	5,744	39,099	61,60
Grand Total:	27,765	21.083	27.835	22,937	14,635	13,178	11,810	90.395	139,2
					_ 4000	_3/2.0	11,010	20,525	
Annual Citywide Standard IT A/R Refresh ONLY Total:	9.979	4.107	7.200	8.357	7,860	7.938	7.085	38,440	52.53

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MAJOR ONGOING CITYWIDE TIP PROJECTS

Case Management System (CSMART)

Design and implement a new custom CMS in-house to manage 1.2m new cases processed annually by Houston Municipal Courts based on a Service Oriented Architecture and Microsoft development tools. (\$15-20m)

Benefits:

- · Automate labor intensive work
- Reduce citizen and officer time spent in court
- Increase Revenues
- Control long-term system maintenance costs

Records Management System (RMS) and MDS "Office in Vehicle"

Decommission the mainframe/data center and move to a client server environment. Deploy next generation technologies in vehicles providing electronic transmission of documents, i.e. reports, citations, etc., to increase productivity, efficiency and improve public safety to citizens.

The Mobile Data Strategy (MDS) leverages commercial air card technologies and the City's evolving broadband wireless capabilities to provide significantly more data to field officers. (\$45m)

Radio Communications System

The existing Radio systems have reached the end of their useful life and must be replaced. This project will replace existing radio systems with a reliable, effective and efficient "state of the art" system to improve Citywide communications, provide for interagency operability between City, County, Regional, State and Federal agencies. (\$120m)

Automated Time and Attendance System (ATAS)

The ATAS will allow the City to centralize and track the attendance and pay for all City employees. It will fully automated time and attendance and includes the software licensing, system hosting, application development and implementation services. Deliverables include Multiple T&A devices, Application Hosting, SAP Interface, Education/Training and ongoing maintenance (\$13m) ROI = \$30.3m over 5 years