





RESEARCH INSTITUTE



UNIVERSITY OF TEXAS AT ARLINGTON

RESEARCH INSTITUTE

Eileen Clements, PhD

Interim Executive Director
Director of Research







UTARI

- Applied Research Organization
- Operate out of the Office of Research at UTA
- Secure and execute on externally funded research projects
- Develop strategic partnerships: industry, academia, government, non-profits
- Full-time scientists and engineers
- UTA Faculty
- Undergraduate and graduate students
- Dedicated operations staff to support research programs



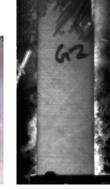




UTARI Research Areas

- Biomedical Technologies
 - Soft robotics design, simulation, and fabrication, finite element modeling
- Institute for Predictive Performance Methodologies
 - Discrete damage modeling and prediction, structural optimization of composite materials, phase-field modeling of Li metal batteries
- Automation and Intelligent Systems
 - Control Systems, Automation, Unmanned Systems, Robotics, AV/VR

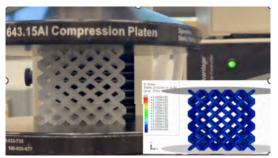
















MAVRC – Coming Summer 2025!

Maverick Autonomous Vehicle Research Center



FACILITY USE CASES

- Autonomous Drone Testing and Development: The facility can be used to test and develop new autonomous drone technologies, including navigation algorithms, obstacle avoidance systems, and payload delivery mechanisms.
- ❖ Disaster Response Training: The facility can simulate disaster scenarios where drones are used for search and rescue operations, damage assessment, and delivery of emergency supplies.
- Educational Programs and Workshops: The facility can host educational programs, workshops, and training sessions for students, researchers, and industry professionals to learn about the latest advancements in drone technology and autonomous systems.

FACILITY DETAILS

- Dimensions of 120'x150'x40'
- 26 Vicon motion capture cameras to localize vehicles, objects for control and validation of algorithms
- Lighting provided for nighttime use
- Wireless internet coverage
- ❖ 720 ft² control/observation center
- Support and training available from UTARI researchers and staff







Partnerships

Teaming on grant proposals

- Joint projects and proposals with researchers and faculty from other universities or research organizations
 - Example Funding Agencies: NSF, NIH, TXDOT, DOD, NASA
- Subcontract on proposals to funding agencies submitted by companies or other research organizations
 - Example Funding Agencies: DOD, NASA, SBIRs/STTRs

Sponsored R&D projects

• Direct sponsorship to work on focused research problems for external clients

DOD Contractor Sponsored Projects:

Computational model development to extend the life of composites on airframes



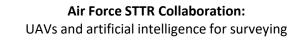
Small-Business Sponsored Project:

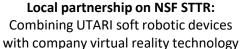
Machine-vision and machine-learning for
manufacturing sorting solutions

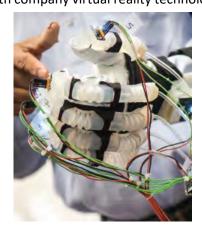
Large & Small-Business Sponsored Projects:

Utilizing Swarm UAV technologies to support the warfighter and first responders











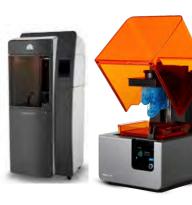


Lab Capabilities

- Shared Labs Throughout UTARI
 - Polymer Processing & 3D Printing
 - 3D printers (SLA, filament, polyjet), parylene coating, cast and dip molding











Composites and Advanced Materials: Fabrication, Testing, and Modeling and Simulation

 Walk-in oven, hydraulic press, mechanical testing, computational resources (HPC), chemical vapor deposition

- Machining
 - 5-axis CNC mill, CNC lathe, laser and waterjet cutters
 - > Inspection
 - Scanning Electron Microscope, digital microscope, contact and optical profilometers, 3D scanner











Student Research Opportunities

- Graduate and undergraduate students
- > Students work with Research Staff and Faculty
- Hands-on experience with real-world problems
- Connecting the future workforce to potential employers
- Each semester: new application process, orientation on first day; end-of-term recognition event















2019 Summer Students





Connect With Us

https://utari.uta.edu/

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COUNCILWOMAN JEANETTE MARTINEZ

DISTRICT 11 BY THE NUMBERS

RESIDENTS/RESIDENTES

LIBRARIES/ **BIBLIOTECAS**



FIRE STATIONS/

NEIGHBORHOODS BARRIOS

POLICE DIVISIONS/ DIVISIONES DE **POLICÍA**

MEDIAN AGE

EDAD MEDIANA COMMUNITY **CENTERS**

CENTROS COMUNITARIOS

PUBLIC PARKS

PARQUES PÚBLICOS

PUBLIC ART PROJECTS

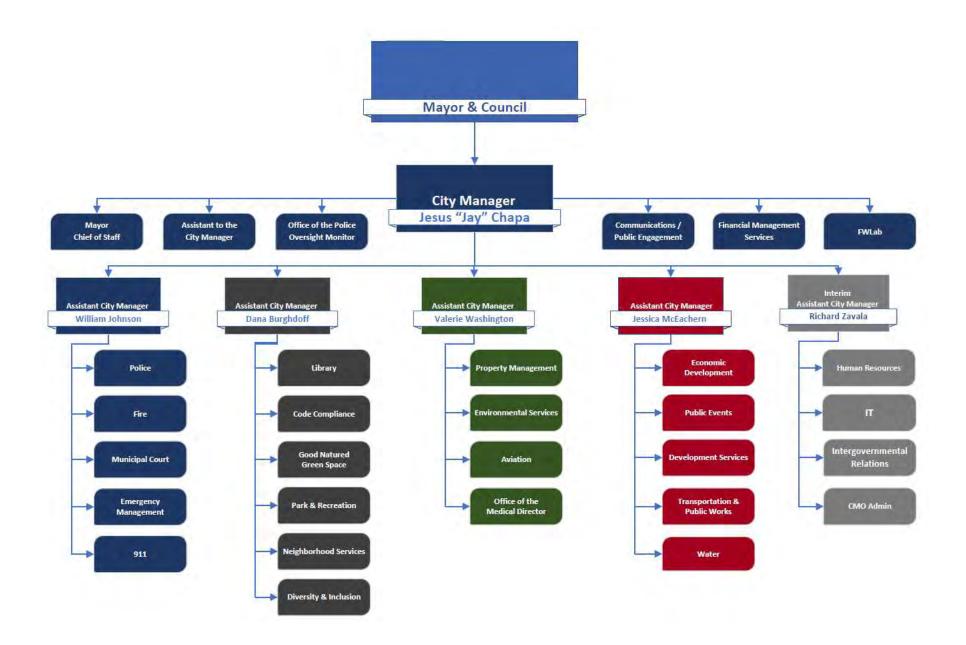


PROYECTO DE ARTE PÚBLICO

JEANETTEMARTINEZ



CITY MANAGER JAY CHAPA

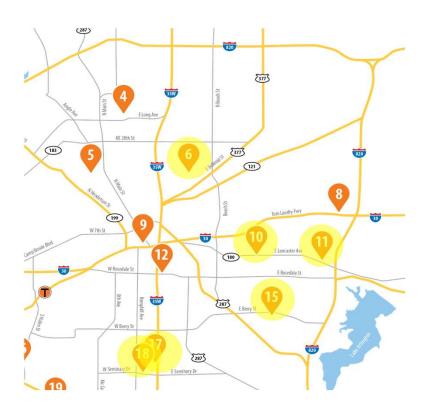




Police Chief Recruitment

- Executive Search Request for Proposals (RFP) has been released
- Public Safety ACM, William Johnson will lead the process
- March/April
 - Review RFPs and Select Firm;
 - Organizational Intake and Analysis;
 - Development of Recruitment Methodology and Proposed Timeline;
- April Search Firm Interviews with Key Internal Stakeholders
- May Advertising, Marketing and Talent Search
- June/July Search Committee Briefing, Evaluation of Candidates, Semifinalists, Finalists Selection
- July/August
 - Stakeholder panel
 - Community engagement with finalists
 - · CMO interviews and selection





6 locations in District 11

La Gran Biblioteca

540 Programs Offered

192%

"We added new programs throughout the work week to provide engaging opportunities for stay-at-home caregivers and we have created a new kid's area packed with toys and manipulatives."

- Branch Manager, Josh Rudd

Program Attendance

153%

Riverside Library

380

Programs Offered

139%

"In the past year, programmers cultivated relationships with teachers and librarians in our schools; staff at Riverside Community Center; and Carter-Riverside and Oakhurst neighborhood associations."

- Branch Manager, Gwin Grimes

Program Attendance

127%

Fiscal Year 2023/2024 highlights

District 11 Library utilization in 2024

Activity In the Community



Activity In the Library



204,575 items circulated





186,415 annual visitors

Sample of Current Programs and Services



March 28 at 5 pm Meadowbrook



Available at Riverside, La Gran, Meadowbrook



Computer skills training continues popularity in English and Spanish



This Spring Break at:

- East Berry
- La Gran Biblioteca
- Meadowbrook
- Reby Cary
- Riverside





Continuing to promote a safe, clean and green City.

VORTH®



Scrap Tire Collection Event

Handley Meadowbrook Community Center 6201 Beaty Street, Fort Worth, TX 76112

Saturday, March 22, 2025 | 8 a.m. - 1 p.m.









FORT WORTH.

Environmental Services



Securing consistent, reliable services for garbage, recycling, yard and bulk waste.

Advancing street sweeping, cleanup of litter, illegal dumping and illegal camp sites.

Promoting compliance with environmental health rules and regulations.

Seeking funding opportunities

supporting our

neighborhoods and the
environment.

Join us for Cowtown
Great American Cleanup
& Earth Party on March
29, 2025







Code Compliance Pilot Mobile Tool Shed Program



- Free tool checkout
- Mobile program with dropoff and pickup services
- Free of charge! No deposits or fees required
- Fast and simple online reservation process
- Pilot program will first be available to FY24 and FY25 Neighborhood Improvement Project areas

FORT WORTH TOOL SHED

COMMUNITY TOOL-SHARING

Need a hand with your yard? The Fort Worth Mobile Tool Shed is a program that lets you borrow yard tools—at no cost! Our mobile tool shed brings the equipment right to your door, making it easy to pick up and return tools.









District 11

| Area | Year | Investment |
|---------------|------|-------------|
| Rosemont | 2020 | \$3,100,000 |
| Worth Heights | 2024 | \$4,043,000 |
| Fairhaven | 2025 | \$4,205,000 |



NIP Selection Process 2025 **Final Selection**

Fairhaven (77) District 11 & 5



Poly Main Street Program

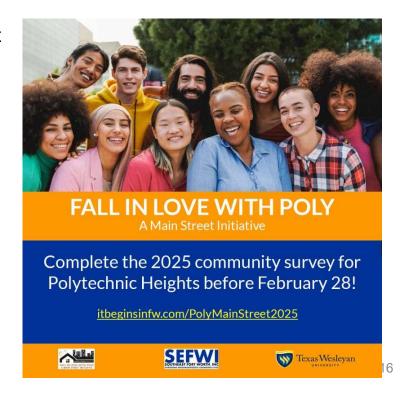
- Grant recipients of Backing Small Business Grant: Mia Moss's Black Coffee (\$10k), façade of two buildings, lighting, and clean-up of buildings along Vaughn Blvd.
- Survey to collect information from business, property owners, district organizations, and neighbors to inform a community transformation strategy and workplan to direct \$150k worth of grant funding provided by the City of Fort Worth to invest in the business corridor in Poly.
- March 12th there will focus groups held to talk with National Main Street America staff about the district





Poly Main Street Program

- Main Street America, City of Fort Worth, and Southeast Fort Worth are gathering input via an online survey about the neighborhood commercial corridors in Polytechnic Heights, including Rosedale Street (from Beach St. to Miller Ave.) and Vaughn Blvd (from US-287 to Texas Wesleyan University).
- The survey should take about ten minutes to complete and closes on Feb. 28th. The results of this survey will inform planning for future development and improvements. Your responses will be anonymous and not attributable to anyone by name.





James E. Guinn Entrepreneurial Campus

- The Devoyd Jennings Business Assistance Center (FWBAC)
 provides free start-up counseling, assistance with your business
 plan, free or low-cost workshops, counseling and support for your
 small business, SBA 504 and other loan assistance
 - 1 Million Cups Fort Worth every Wednesday opportunity for entrepreneurs in the community to practice and get feedback on their business pitch
 - One on one consultations reach out to Dexter Sykes
- Tech Fort Worth is an emerging technology incubator that consists of entrepreneurs helping entrepreneurs launch and grow emerging technology companies without taking equity in the company
- Accelerate FW Foundation collaborates with like-minded institutions and businesses to organize events that bring people with an entrepreneurial mindset together, such as Startup Weekend and other experiential events



Thank You





District 11 Town Hall

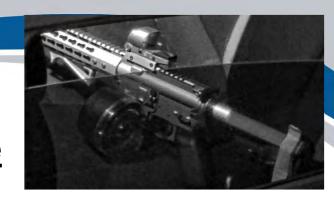
Robert A. Alldredge Jr.

Executive Assistant Chief

Fort Worth Police Department



District 11 Violent Crime

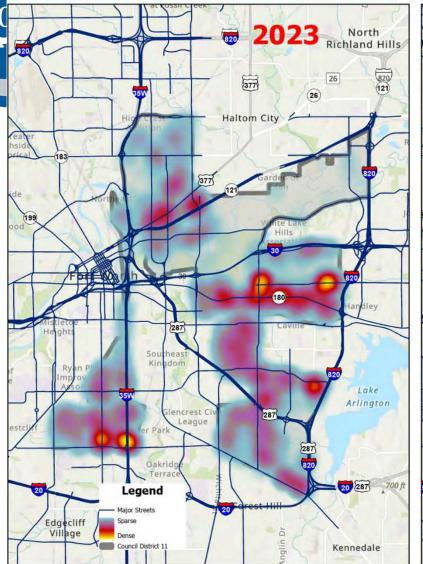


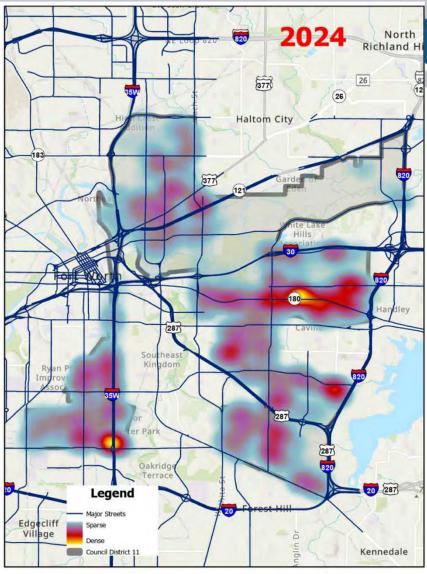
| Offense | 2023 | 2024 | Difference |
|--------------------|------|------|------------|
| Homicide | 24 | 7 | -70.8% |
| Aggravated Assault | 621 | 585 | -5.8% |
| Sexual Assault | 129 | 130 | 0.8% |
| Robbery | 135 | 134 | -0.7% |





FORT WO



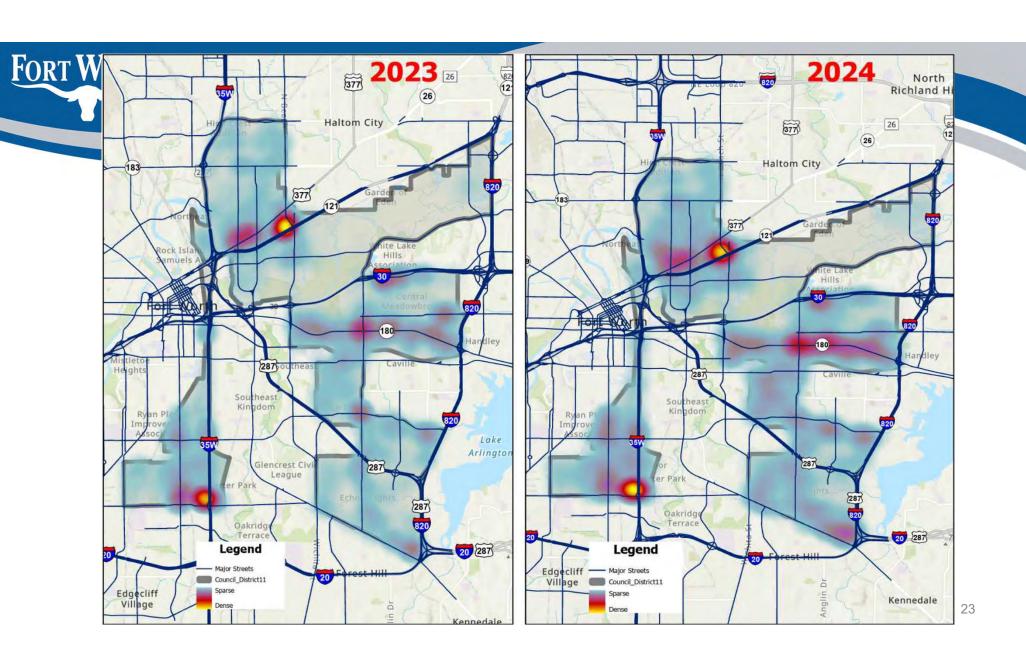




District 11 Property Crime



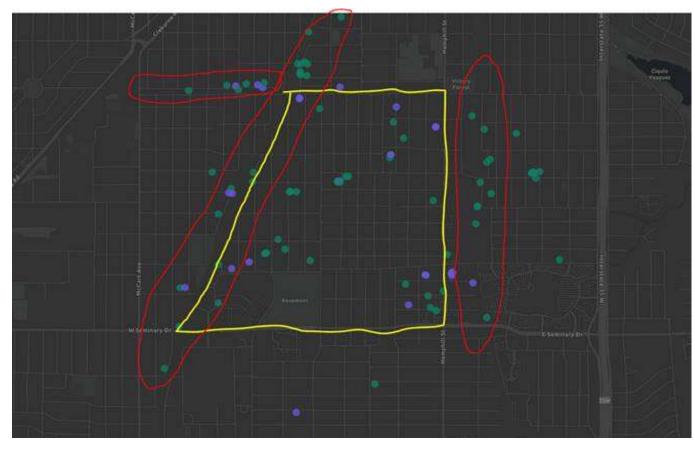
| Offense | 2023 | 2024 | Difference |
|--------------------------------|------|------|------------|
| Burglary Residence | 259 | 226 | -12.7% |
| Burglary Business | 171 | 145 | -15.2 |
| Theft | 2123 | 2283 | 7.5% |
| Motor Vehicle Theft | 683 | 714 | 4.5% |
| Theft from Motor Vehicle (BMV) | 609 | 531 | -12.8% |





Gunshot Detection



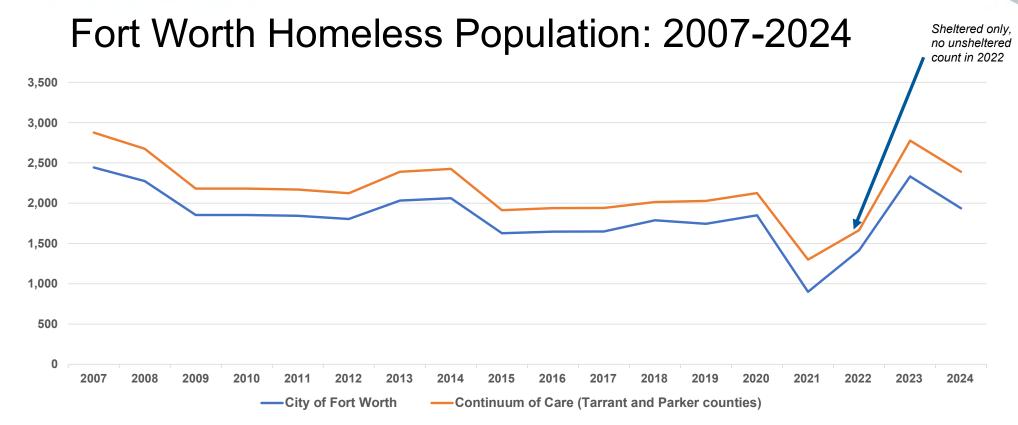






HOPE TEAM TARA PEREZ & TEAM





Source for CoC count: 2007-2023 PIT Counts by CoC (Department of Housing and Urban Development), State of the Homeless Report 2024 (Tarrant County Homeless Coalition). City of Fort Worth numbers were estimated at 85% of the CoC numbers based on geographic breakdown for 2007 - 2017 and 2022. Actual City of Fort Worth numbers used for 2018 – 2021 and 2023 - 2024. 2022 is a sheltered only count.



Illegal Campsite Standard Operating Procedure Flowchart

Initial Complaint

- Complaint to City Staff.
- Complaint entered into MyFW App.
- Complaint received by Police HOPE Team via app.

Police

HOPE Team Officer notifies campers of criminal trespass or camp violation and gives notice to vacate property.

Police

HOPE Team Officer refers the camp location to Code Compliance.

Determine if:

Public

Private

PUBLIC

Code Compliance

Nuisance Abatement Division inspects property and prepares transfer of camp locations to Environmental Services.

Code Compliance

- Nuisance Abatement Division issues 10 Day Nuisance
 Abatement Letter to Property
- Letter states, "Abate Violation or City will clean up and lien the property."

Code Compliance

If violation is not abated by Property Owner, Nuisance Abatement Division will transfer camp locations to Litter Abatement Team for City crew abatement.

Environmental Services

Litter Abatement Team cleans property after vacated. Process Complete



Panhandling / Street Charity Campaign

- Working cross-departmentally to build and execute multi-pronged communication and education campaign that includes:
 - Consistent Messaging & Regular Communications
 - Social media, stories, other materials to educate on issues and impact of panhandling and street charity
 - Consolidated Web Resource
 - Landing page for directing donations and informing on issues
 - Signage
 - Base design on existing efforts of business districts
 - Use complaint data to select intersections for signage
 - Track impact in complaints/citations/web visits





Q & A

DISTRICT 11: A YEAR OF PROGRESS

INVESTING IN OUR COMMUNITY

- SECURED OVER \$8 MILLION IN NEIGHBORHOOD IMPROVEMENT PROGRAM FUNDING FOR WORTH HEIGHTS AND FAIRHAVEN
- HOSTED TWO RESOURCE FAIRS CONNECTING RESIDENTS WITH OVER 40 EXHIBITORS AT EACH EVENT
- ORGANIZED A SCHOOL SUPPLY DRIVE FOR VERSIA WILLIAMS ELEMENTARY
- HELD A NEIGHBORHOOD LEADERSHIP MEETING TO STRENGTHEN COMMUNITY CONNECTIONS

SUPPORTING PUBLIC SAFETY & FIRST RESPONDERS

- APPROVED FUNDING FOR 182 NEW POLICE AND FIRE POSITIONS
- HOSTED TWO APPRECIATION EVENTS FOR FIRST RESPONDERS
- PARTNERED WITH THE DEA AND LOCAL LAW ENFORCEMENT FOR A PRESCRIPTION DRUG TAKE-BACK EVENT
- SUPPORTED EFFORTS TO ADDRESS NUISANCE PROPERTIES TO IMPROVE PUBLIC SAFETY

DISTRICT 11: A YEAR OF PROGRESS

STRENGTHENING CITY SERVICES & INFRASTRUCTURE

- APPROVED \$10.4 MILLION IN ADDITIONAL STREET MAINTENANCE FUNDING
- SUPPORTED A MINIMUM WAGE INCREASE FOR CITY EMPLOYEES TO \$18/HOUR STARTING IN 2025
- EXPANDED THE NEIGHBORHOOD IMPROVEMENT PROGRAM TO INCLUDE AN ADDITIONAL NEIGHBORHOOD
- SUCCESSFULLY REZONED OVER 110 ACRES TO BETTER ALIGN WITH COMMUNITY NEEDS

PROVIDING RESOURCES & SECOND CHANCES

- HOSTED AN ENVIRONMENT DAY WITH FREE DOCUMENT SHREDDING, HAZARDOUS WASTE DISPOSAL, AND ELECTRONICS RECYCLING
- ORGANIZED A WARRANT FORGIVENESS EVENT TO HELP RESIDENTS CLEAR OUTSTANDING FINES



FOLLOW. SHARE. ENGAGE.

Find us on Facebook and Instagram, and don't forget to tag #D11FW in your community moments!



@councilwomanjeanettemartinez



@councilwomanjeanettemartinez

sign up to receive the

DISTRICT 11 NEWSLETTER

