



Building a Meaningful Disaster Preparedness App & the Associated Data Challenges

CITY OF PLANO

BUSINESS INTELLIGENCE/GEOGRAPHIC INFORMATION SYSTEMS



WHO AM I?

Maya Shaw

Business Intelligence/GIS Analyst II

Technology Solutions Department

City of Plano

- BA in Geography from Rutgers
- GIS for about 16 years
- With Plano for 1 year
- Currently been building an web app for the EM Department



JOURNEY INTO THE LAND OF EMERGENCY MANAGEMENT

- Assigned a project on updating the Hazard Mitigation Action Plan (HMAP) for EM in February 2022
- Tour/work at the EOC
- Began building an interactive web application for disaster readiness & response
- Started to dig into EM datasets – and asked the “Accuracy” question (eye roll)



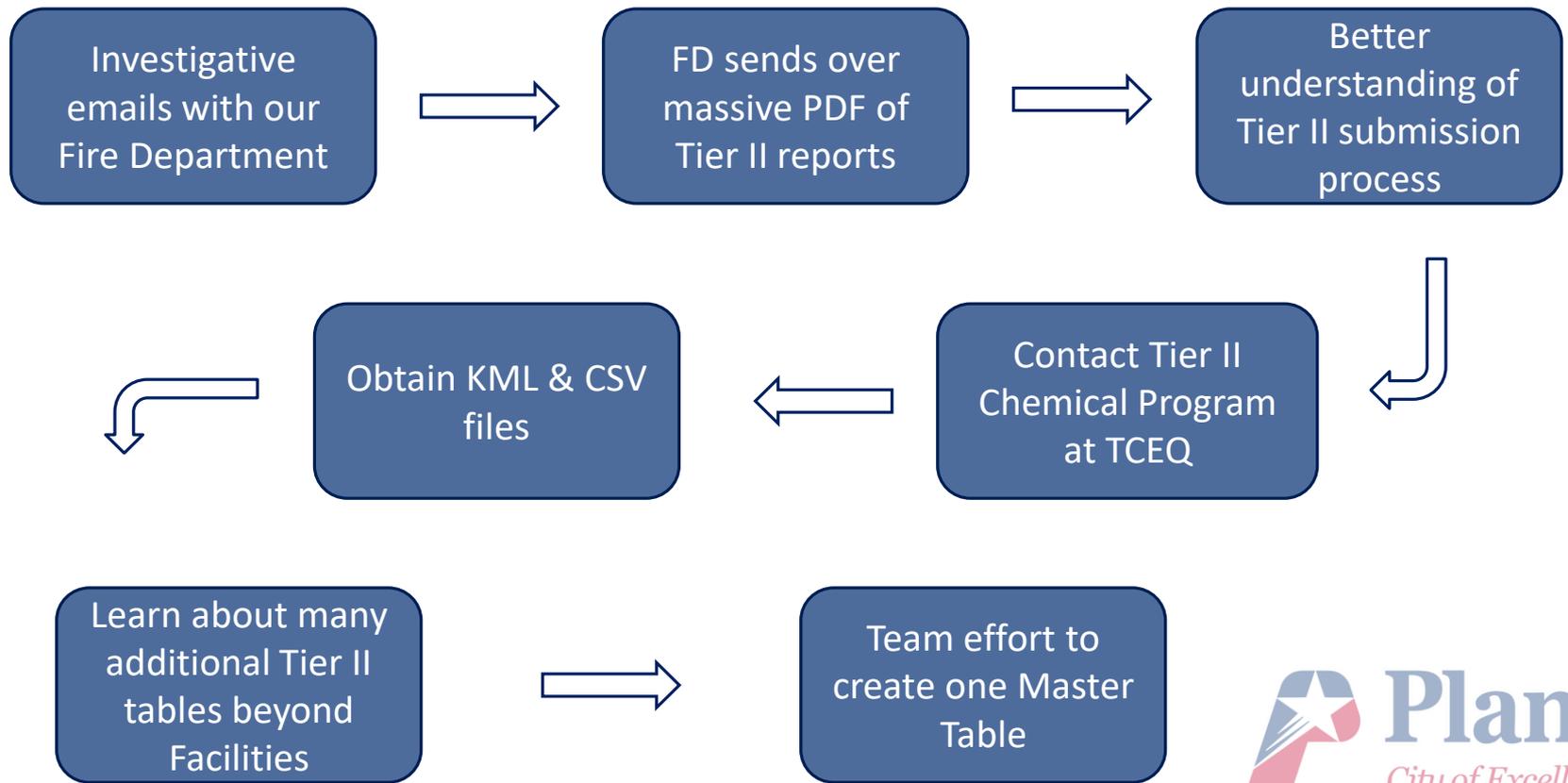
TIER II FACILITIES

Facilities that have hazardous chemicals onsite and are required to report them to the TCEQ

- When was the data last updated?
- How do we get more updated and complete data?
- How do we get it in an usable format for GIS?
- How do we verify its accuracy once we do get it?



THE (DETAILED) PATH TO BETTER HAZMAT DATA



NEXT CHALLENGE: CRITICAL LOAD

All sites/facilities that take priority for power restoration

- Where did this data come from?
- How do we get more updated data?
- How do we make it more clear and usable?



FINALLY: SCHOOLS

3 separate layers – needed only one, more robust layer!

- Outdated information
- Very different schema
- Needed more types of schools



EM INTERACTIVE TOOL

Let's go check it out!



QUESTIONS?

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