

February 1, 2024

# H-GAC ITS Architecture and Website Update

**Kimley»Horn**  
Expect More. Experience Better.

Houston-Galveston Area Council



# Project Team

Subconsultants



**Project Manager**  
Tom Fowler, P.E., PTOE



**QA/QC Manager**  
Manu Isaac, P.E.



**ITS Inventory**  
Mark Conway, P.E.



**Regional ITS  
Architecture and  
RAD-IT Development**  
Dan Malsom, P.E., RSP<sub>1</sub>



**Stakeholder Engagement**  
Anthony Voigt, P.E., PTOE  
(SV Traffic)



**Architecture  
Conformity and  
Website Development**  
Melissa Hewitt, P.E. (CA)



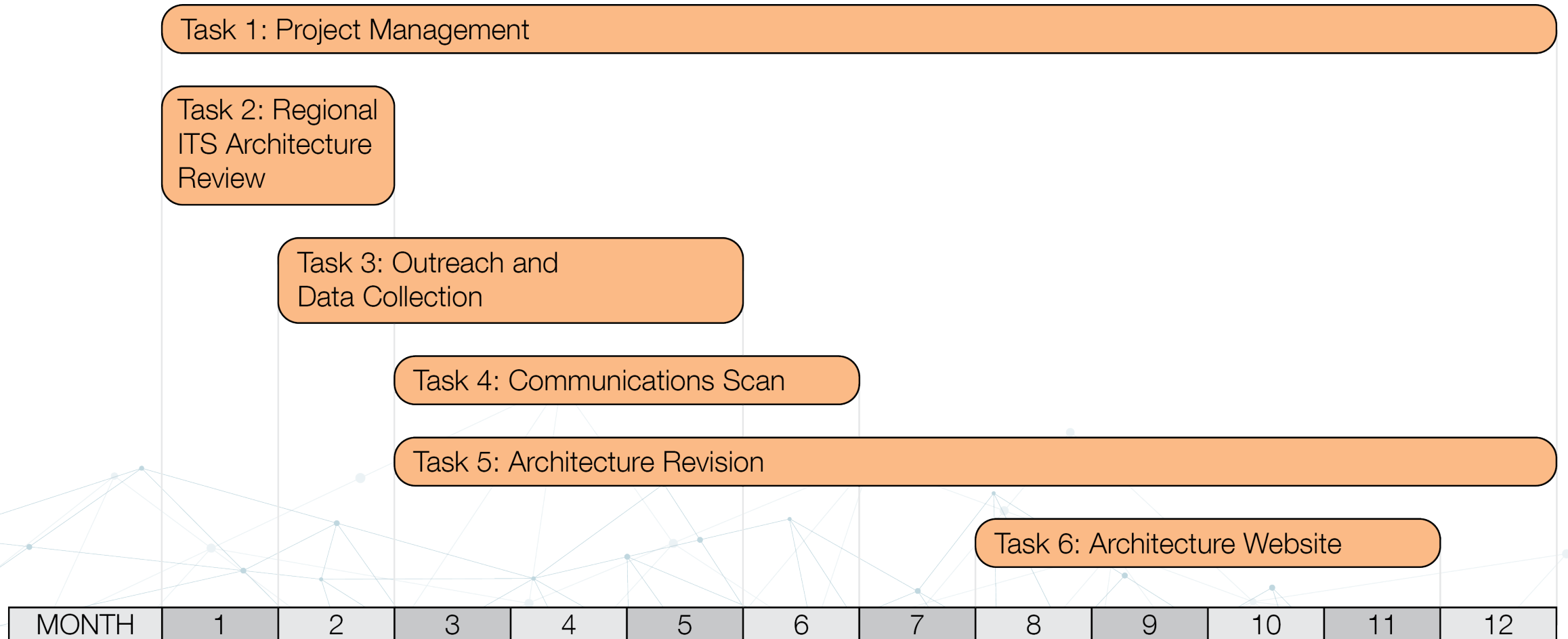
**ITS Deployment**  
Kent Kacir, P.E.

# Project Goals

## H-GAC ITS ARCHITECTURE AND WEBSITE UPDATE

1. Update the **existing H-GAC Regional ITS Architecture** to the current national ITS architecture
2. Develop an ITS inventory software analysis tool that will **assist in transportation project prioritization**, benefit cost analysis, and economic impact analysis
3. Update and advance the existing Transportation Systems Management and Operations (TSMO) website
4. Create a **Geographic Information System (GIS) database of all ITS and signal fiber in the eight-county MPO**
5. Develop a standard method for collecting inventories and implementation plans from each stakeholder agency
6. Meet with all **eight counties and in the region (and cities)** to verify existing inventory and obtain plans for new ITS, signals, transportation management centers (TMCs), and other deployments to be implemented over the next seven years
7. Meet with the **Texas Department of Transportation (TxDOT) Houston and Beaumont Districts** to inventory all existing ITS, signal, and tolling facilities and document their implementation plans for the next seven to 10 years
8. Determine which **cities will potentially surpass 50,000 residents** in the 2030 Census **and meet with them** to document their existing ITS and signal inventories and implementation plans leading up to 2030
9. Meet with all **Toll Authorities** in the MPO to inventory all existing ITS, signal, and tolling facilities and document the implementation plans for each for the next seven to 10 years

# Key Tasks and Timeline



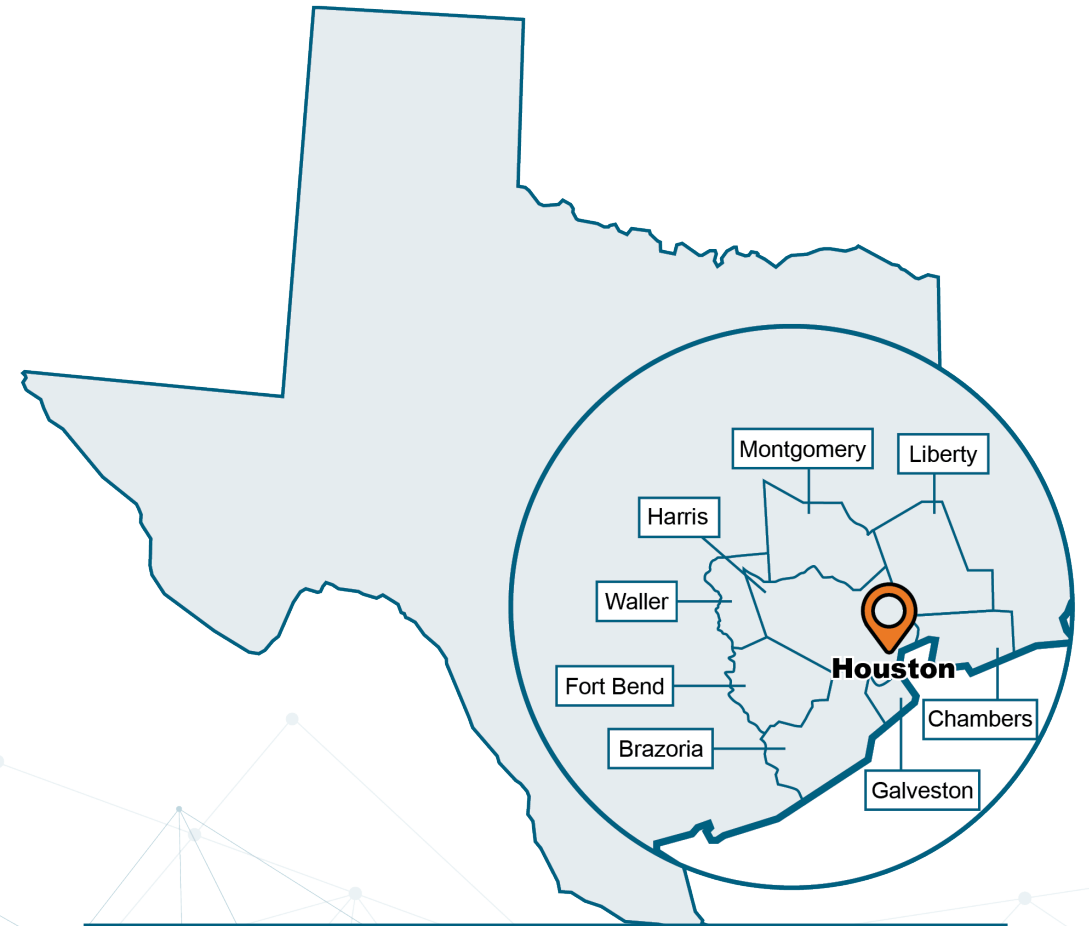
# Stakeholder Agencies to be Interviewed

H-GAC Counties		H-GAC Cities		TxDOT	Toll Authorities
Brazoria	Liberty	Baytown	Missouri City	Houston District	Brazoria County
Chambers	Montgomery	Conroe	Pasadena	Beaumont District	BTG
Fort Bend	Waller	Galveston	Pearland		Harris County
Galveston		Houston	Sugar Land	<b>Transit</b>	Fort Bend
Harris		League City	Texas City	Houston Metro	Montgomery



# Outreach and Data Collection

- **One-on-one** agency interviews conducted throughout the H-GAC region
- **Support** for smaller agencies with limited ITS resources on deploying ITS
- **Guidance** including costs, benefits, staffing requirements, and funding opportunities



*Minimize the time stakeholders need to invest while maximizing the usefulness of their time*

# Next Steps

- Execute contract between H-GAC and Consultant Team
- Conduct Project Kick-off Meeting
- Begin Stakeholder Outreach and Data Collection







# Thank You