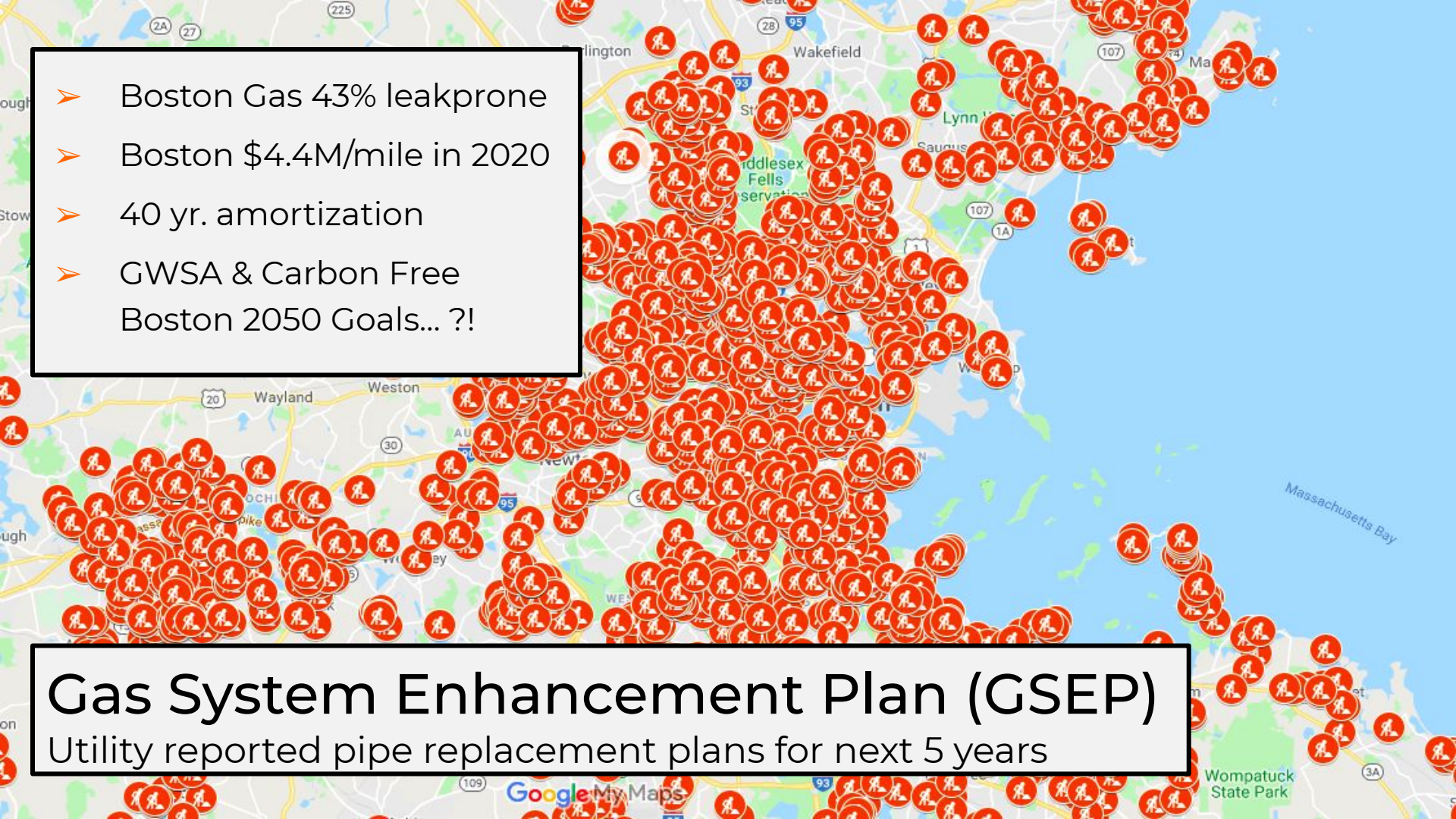


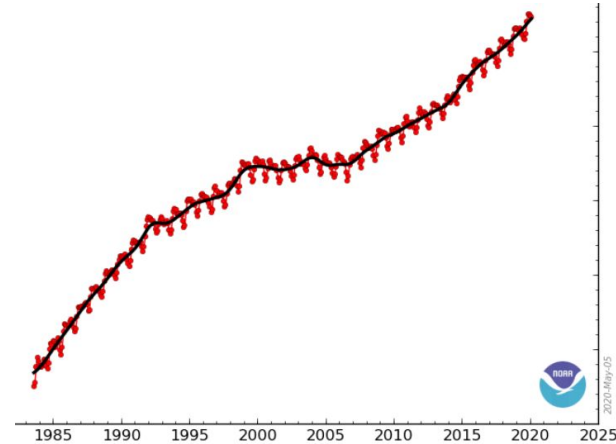
(Phillips et al., 2013)

- 
- A map of the Boston metropolitan area and surrounding regions, including parts of New Hampshire and Vermont. The map is densely populated with red circular icons, each containing a white gas leak symbol (a flame with a drop). The icons are scattered across the landmass, with a higher concentration in the central and eastern parts of the region. Major roads like I-93, I-95, and I-495 are visible. Geographic labels include 'Middlesex Fells Reservation', 'Massachusetts Bay', and 'Wompatuck State Park'.
- Boston Gas 43% leakprone
 - Boston \$4.4M/mile in 2020
 - 40 yr. amortization
 - GWSA & Carbon Free Boston 2050 Goals... ?!

Gas System Enhancement Plan (GSEP)

Utility reported pipe replacement plans for next 5 years

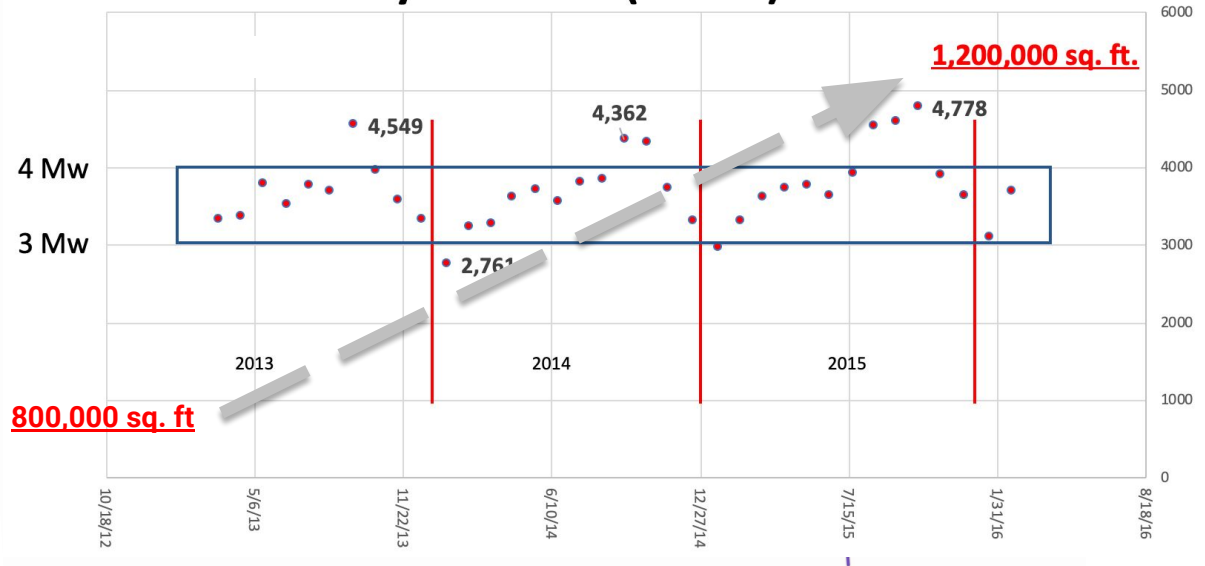
CONSEQUENCES of continuing to dig into our current gas system . . .



POTENTIAL BENEFITS of an integrated gas system enhancement plan:

- Safety
- Cut GHG 100% by 2050
- Economic & Equitable
- Keep gas worker's jobs
- Resilient & Reliable
- ...

Colorado Mesa University Monthly Peak kW (Power) 2013 - 2016



Courtesy of The GreyEdge Group®

*Regarding Buildings & Grid
Modernization to enable a CarbonFree
Boston, we must first address **GAS.***

We need a PLAN that:

- Merges safety, climate, economic and labor goals
- Determines thresholds and decision points for investment
- Designs worker transition into the plan
- Includes gas utilities in state climate legislation
- Allows the gas distribution industry to innovate and evolve.