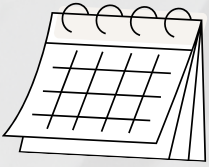# IHS NEWSLETTER

Navigating Texas Waters: Critical Infrastructure Protection for Future Water - Podcast Mini-Series

The W/WW Critical Infrastructure Sector has been identified by Presidential Policy Directive 21 (PPD 21) as a lifeline sector. The ability to provide clean drinking water and properly treated wastewater is considered a National Critical Function. Therefore, the protection of this sector is paramount not only for the business continuation of other critical infrastructure sectors, but for the security, economic stability, public health, and environment of the great State of Texas. The W/WW sector currently faces many challenges and vulnerabilities. The State of Texas is vast. With a forecasted increase in population, Texas is bound to face water challenges. Therefore, it is imperative to discuss the varying needs of the sector in Texas and how to collaboratively understand and address the varying degrees of the meaning of security and resilience in this sector. As part of Sam Houston State University and following our legislative intent to enhance the security and resilience of critical infrastructure, we have created this podcast mini-series to educate, engage, and provide insights from different areas of Texas. It is at this time that we must come together, unify, and collaborate in protecting the vital W/WW sector. Security, resilience, and business continuity depend on our ability to understand the problems, find a solution to address or support others addressing those problems, and together ensure Texas has safe reliable drinking water and properly treated wastewater; protecting the public health and the environment from those that will come after us.

Mini-Series Episodes

- Security Spotlight
- Against The Flow: Workforce Challenges
- Unique Challenges for a Unique State
- A Dry Tap: Water Supply Challenges
- Vulnerabilities of Critical Infrastructure Interdependencies
- Future Water: Economic Impact of Small and Rural Communities

Listen to the Series Here: **Podcast**

RESEARCH

The Impact of Cyberethics on Healthcare and Public Health Sector

Arabella Moore and Zhou Bing

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Ethics are evident in all aspects of society, including the technology industry. This leads to the term cyberethics, which includes a special focus on moral dilemmas faced by professionals and society in their interaction with technology. This includes concerns such as data privacy, copyright, freedom of speech versus internet censorship among others. In this paper, we explore three main perspectives of the relationships between cyberethics and the healthcare and public health sector, namely, privacy of health information, usage of social media in the medical filed, and risks of mobile health apps. We will delve into the different aspects of cyber-ethics within each section and examine how they intersect with the health sector in both positive and negative interactions. Lastly, we will explore various solutions to counteract the negative effects identified. Through this exploration, we aim to contribute to a deeper understanding of the ethical considerations inherent in the intersection of technology and healthcare. As time goes on, technology will continue to improve and become more integrated into people's daily lives. In light of this, the ethical boundaries between users' privacy and security become more of a concern as they are now more exposed to their digital world. With technological improvements, it's crucial to conduct more studies and emphasize the importance of security and privacy knowledge among professionals, companies, and industries handling sensitive data. This is essential to prevent potential harm to users if their data is mishandled or stolen.

TEAM MEMBER HIGHLIGHT <<<

Reyna Loosmore
Program Manager II

Reyna Loosmore is the Program Manager for the Water and Wastewater Sector at the Institute for Homeland Security at Sam Houston State University. She has a decade of experience in the public sector as an Environmental Investigator for the *Texas Commission on Environmental Quality* (TCEQ), where she worked in industrial and hazardous waste investigation and environmental crimes, gaining expertise in environmental laws and building relationships with enforcement agencies. Reyna later transitioned to academia as the Biosafety and Chemical Manager at Sam Houston State University's *Environmental Health and Safety Department* and gained private sector experience as an Environmental Scientist in solid waste management. She holds a B.S. in Geology from Sam Houston State University and an M.S. in Environmental Management from the University of Houston Clear Lake.

>>> EVENTS <<<

ENERGY SECURITY COUNCIL WINTER MEETING

- February 13th, 8am - 3pm
- The Woodlands Center at Sam Houston State University, The Woodlands, TX
- [Registration Link Here](#)

PODCAST <<<
TRANSITIONING FROM MILITARY TO CRITICAL INFRASTRUCTURE CAREERS

Jim Platt and Robert Crane

Critical infrastructure is constantly evolving. Public and private sector careers need dedicated and adaptable employees to innovate new strategies and solutions; often, military veterans and those transitioning out of active service are strong candidates for those jobs, although the transition out of uniform can feel daunting. In this episode, we chat about networking and career moves with Ret. Major General David Glaser, President and CEO of Strategic Risk Integration Jim Platt and IHS Program Executive Robert Crane. We also discuss the Department of Defense's Transition Assistance and SkillBridge programs, and why Sam Houston State University is a top choice for veterans.

Listen to the Podcast Here: Podcast