Hands-Free Wearables for Process Safety

Tekin Kunt, Ph.D. May 7, 2024



2



Process Safety and Reliability Group 800 W. Sam Houston Pkwy. South Suite 107 Houston, Texas 77042-1908 Tel: 713-532-8800 800-250-8511 Fax: 713-532-8850 Email: psrghouston@psrg.com Web: www.psrg.com







Tekin Kunt, Ph.D. tkunt@psrg.com

- PSRG Director, EMEA (6+ years)
- Based in Houston, Texas (26+ years)
- Ph.D., Chemical Engineering University of Maryland @ College Park (1993)
- Risk Assessments / Audits / Training
- Weatherford / Chevron / AspenTech / NIST
- Bridge / Macro Photography

ght © 2024 PSRG Inc

1

<section-header><section-header><image><image><image><image><image><image><image><image><image><image><image>

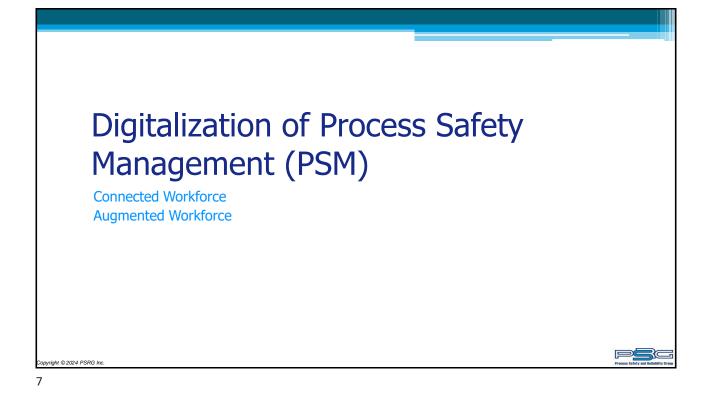


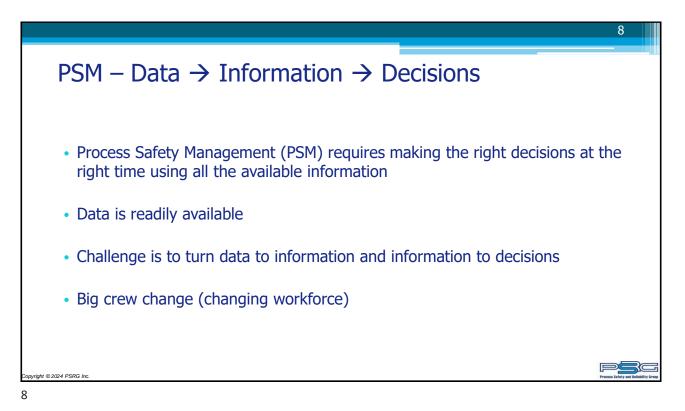


PSRG API/Pharma Experience

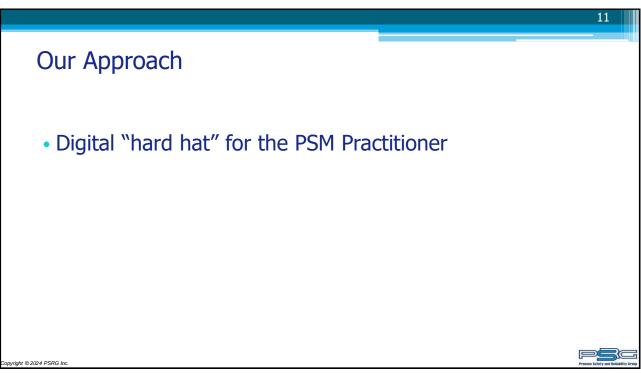
Company	Study	Location
Abbvie	Conduct HAZOP Study (Procedure)	Singapore
Amgen	HAZOP / cHAZOP Study / PSM Audits	Singapore / Puerto Rico
Aventis Pharma	Provide Bowtie Training	Singapore
DSM	PSM/RMP Compliance Audit	USA
GSK Biologicals	PHA-HAZOP Leader Training / BowtieXP Licenses / EAC Assessment	Singapore
Johnson & Johnson/Ethicon	Boilers PHA Study - San Angelo	USA
LanzaTech	PHA Studies	USA
Merck	Conducted DHA training	China
Pfizer	PHA Study for API Plant in Michigan	USA
Zoetis	PHA Study / Audit Pilot Plant	Australia / India
124 PSRG Inc.		Process Safety a

Agenda Digitalization of Process Safety Management (PSM) Challenges / Opportunities Case Studies Corrosion Under Insulation (CUI) Remote Inspection Support Improved Workflows





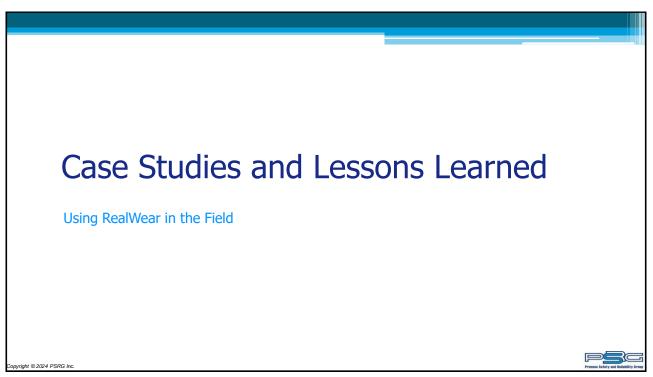


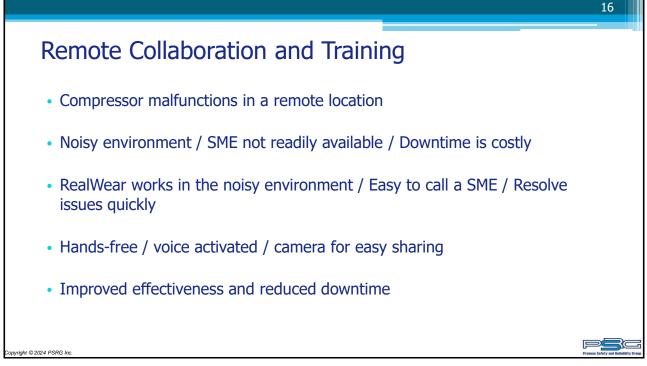




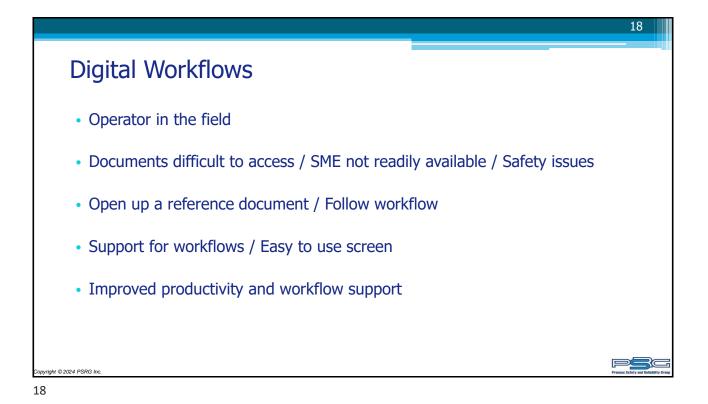
Layrayle 6.2024 PSRG In.

	14
DEMO	
• Let's use it	
Copyright © 2024 PSRG Inc.	Preses Editary and Balakitor Gray
14	









Internet connection missing / lagging
Use hotspot (intrinsically safe)
Set the system to lower resolution
Use specific software to improve data transfer speed
Communicate in noisy environments
Provide headphone
Interacting with voice activation
Ability to pause voice activation to prevent unwanted commands
Working at nighttime or dark areas
Use light on helmets or flashlight on RealWear device

