

Evolving the Risk Assessment The Risk Identification and Site Criticality Tool HRSA

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Learning Objectives

- 1. Explain the history and development of the RISC Tool as a user-informed, data-driven, objective risk assessment tool for the Healthcare and Public Health Sector.
- 2. Demonstrate the functionality and value of the RISC Tool from the developer and end-user perspective.
- 3. Invite you to join the evolution of HPH Sector risk assessments.

What is the RISC Tool?

The Risk Identification Site Criticality (RISC) Tool is an ecosystem developed to provide products and services for building objective, datadriven all-hazards risk assessments allowing Healthcare and Public Health (HPH) sector organizations to...



IDENTIFY THREATS AND HAZARDS

- Intentional External Acts (e.g., active shooter, cyber crime)
- Unintentional ExternalManmade events (e.g., aircraft crash, external radiation)
- Natural Hazards
 (e.g., flood, hurricane, drought)
- 33 Internal Hazards (e.g., generator failure, bomb threat)
- 1 Influenza



ASSESS VULNERABILITIES

- Resilience Management (e.g., business continuity, information sharing)
- Physical SecurityManagement (e.g., security training, physical access control)
- **9** Critical Dependencies (e.g., electricity, natural gas, water)
- Cyber Security

 Management
 (e.g., identify, protect, detect, recovery)



DETERMINE CONSEQUENCES









DEFINE CRITICALITY

Role of a facility or asset to the functioning of the healthcare system



History of the RISC Tool

The Risk Identification and Site Criticality (RISC) Tool is an objective, data-driven all hazards risk assessment developed by ASPR's Division of Critical Infrastructure Protection (CIP) for use by public and private organizations within the Healthcare and Public Health (HPH) sector.

In 2018, the RISC Tool 1.0 was developed to help HPH Sector critical infrastructure owners and operators identify and address risk, by...



Providing an objective, user friendly, data-driven, and evidence-based approach to assessing risk



Enabling organizational users to identify threats and hazards, assess vulnerabilities to those threats and hazards, and determine the criticality of potential disruptions to infrastructure (e.g., power outages)



Informing organizational critical infrastructure emergency preparedness planning, risk management activities, and resource investments



In 2019, CIP started building the next generation of the RISC Tool (version 2.0) with input from HPH Sector partners with the following objectives:



Promote risk identification, planning, preparedness, mitigation and resilience to all-hazards, including infectious disease outbreaks



Enable public and private organizations to conduct repeatable, datadriven risk assessments and share their data and results in a secure environment



Enhance RISC Tool 2.0 functionality and ease of use, and to further expand its utility to the HPH sub-sectors (e.g., supply chain) beyond hospitals



Optimize the tool for a web-based platform with a focus on user experience, offering advanced tools for preparedness, analytics, reporting and dashboarding

RISC 1.0 was launched in 2018 and has been used by over 1,400 unique organizations across all 50 States, DC, Puerto Rico, and the U.S. Virgin Islands

RISC 2.0 was launched in November 2023 and is used by over 950 unique organizations across all 50 States, DC, Puerto Rico, and the U.S. Virgin Islands.

Solution Comparison and Assessment

	RISC 1.0	KP HVA ¹	PHRAT ²	THIRA ³	HCC⁴	RAMP⁵	HRAI ⁶	hHAP ⁷	CHVA ⁸	ACEP ⁹	IST ¹⁰	FPHRAT ¹
Technology	x	χ	Χ	PDF	χ	Üwww.	PDF	χ	χ	w	www.	- Company of the comp
Risk Assessment Coverage		•	•	•	•	•	•	•	•	•	•	•
Risk Assessment Methodology		•	•	•	•	•	•	•	•	•	•	•
Configuration Management		•	•	•	•	•	•	•	•	•	•	•
Customizations		•	•	•	•	•	•	•	•	•	•	•
Risk Assessment Data Collection		•	•	•	•	•	•	•	•	•	•	•
Activity Logging		•	•	-	•	-	•	•	•	•	-	-
Reporting		•	•	•	•	•	•	•	•	•	•	•
Visualization		•	•	-	•	•	•	•	•	•	•	•
Risk Assessment Data Sharing		•	•	•	•	•	•	•	•	•	•	-
Extensibility		•	•	-	•	-	•	•	•	•	-	-
User Type			•		W	M	•	.	Q		U	W



1 Kaiser Permanente HVA

2 Pennsylvania Public Health Risk Assessment

3 Threat and Hazard Identification and Risk

4 Healthcare Coalition Resource and Gap Analysis

5 Risk Assessment Mapping

6 UCLA Hazard Risk Assessment Instrument

7 Health Hazard Assessment & Prioritization

8 Community Hazard Vulnerability Assessment

9 American College of Emergency Physicians

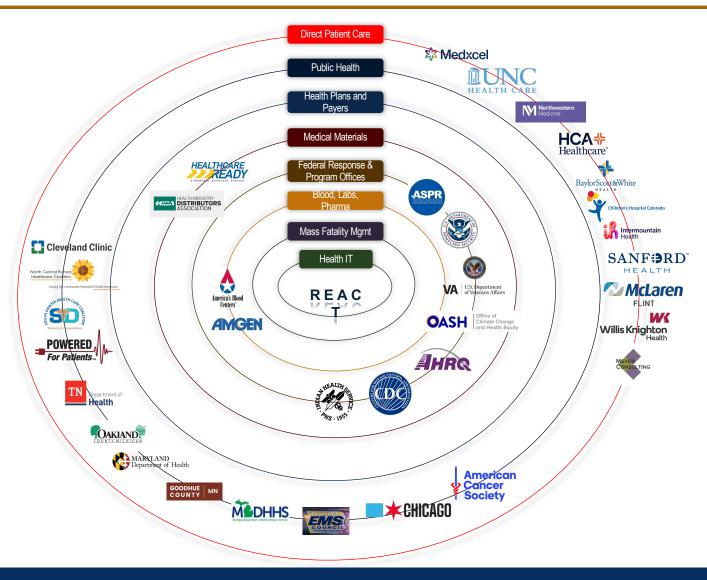
10 DHS Infrastructure Survey Tool

11 FL Public Health Risk Assessment

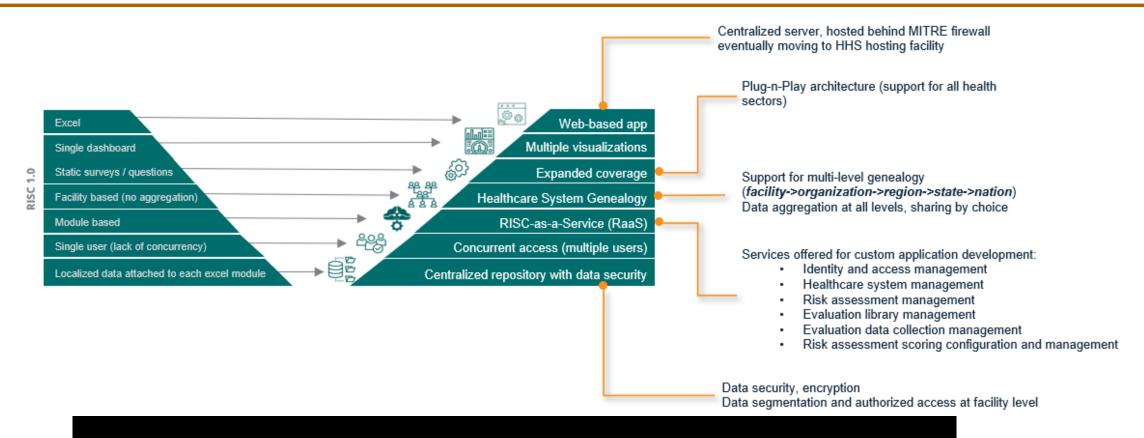
Features

Improved Interface	Enhanced web-based user interface with significant process efficiencies
Objective Risk Assessment	Objective, evidence-based data and quantifiable risk results with supporting ranked lists of threats, vulnerabilities and consequences
Healthcare System Organization & Facility Comparison	Define and create custom organizations with data aggregation that allows comparing facilities across systems, coalitions and regions
FISMA Moderate Compliant	System and collected data protected per Federal standards
National-level Data Source and Analysis	Agile analytical program provides insights into trends in preparedness and resilience across the HPH sector as well as identifying critical infrastructure dependencies and interdependencies
Expanded Coverage	Plug-n-Play capability to include all public/private sectors beyond hospitals
S Cost Savings	Single, centralized, secure interface for all health care sectors with common understanding and voluntary data sharing for shared benefits
Platform-as-a-Service	RISC-as-a-Service, risk assessment and emergency preparedness platform
Extensible	RISC-as-a-Service platform has been reused to integrate critical healthcare product manufacturing and storage facilities – individual, vendor, sub-contractor facilities

Stakeholder Input – RISC Enabled Assessments for Critical Threats (REACT) Working Group

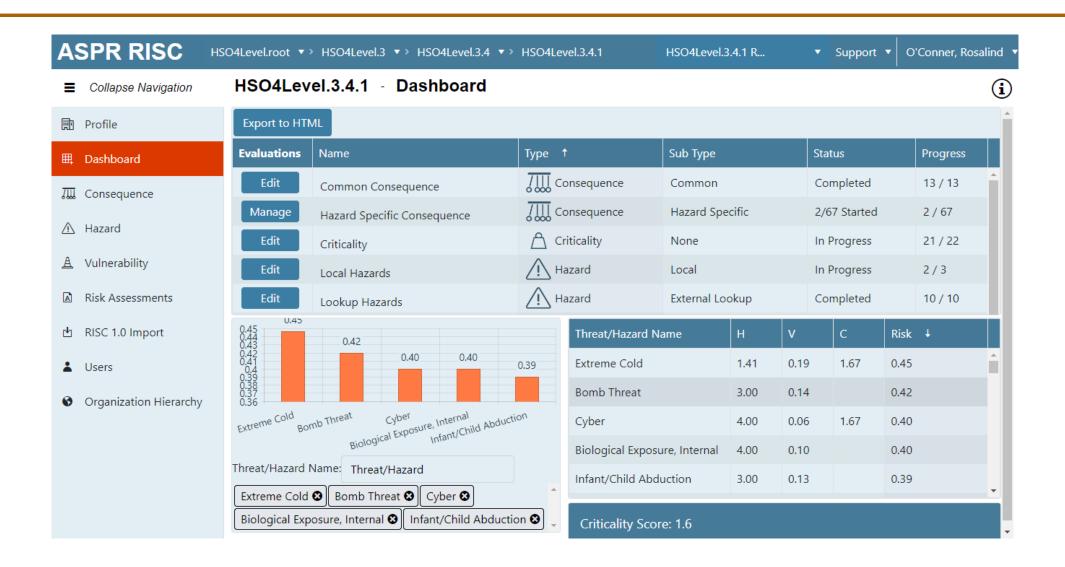


RISC Tool Evolution

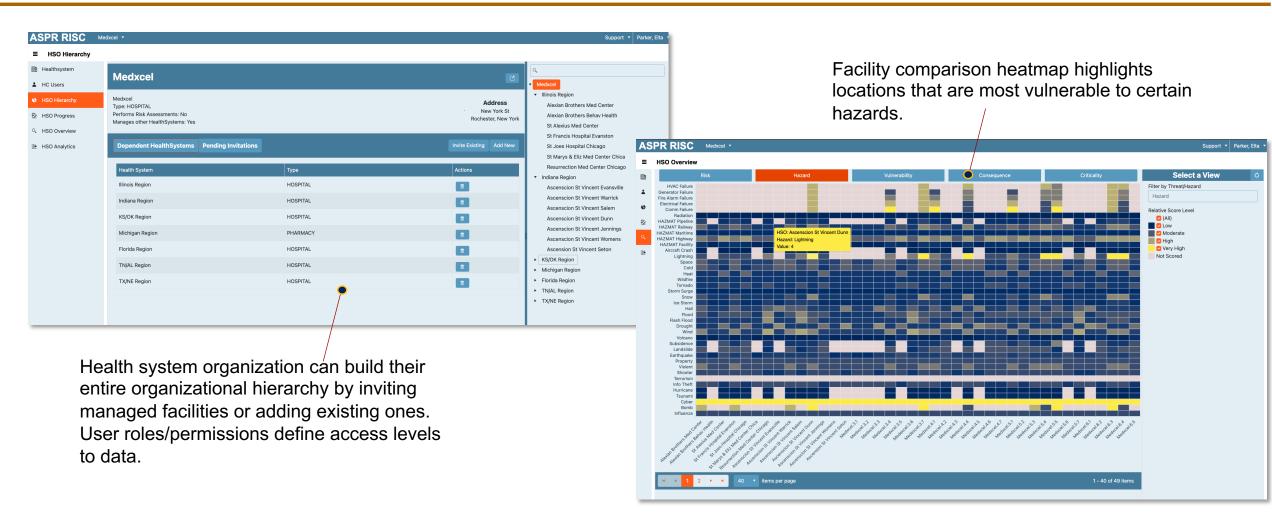


Respondents liked the objective, data-driven, evidence-based approach to RISC 1.0 Found the tool burdensome, time consuming and lacking key features RISC 2.0 addresses most of the challenges identified through multi-factor analysis of existing market options

The Risk Assessment



Health System Organization



https://aspr.hhs.gov/risc