

SAFER Update for DNFSB

5 March 2024



Support NNSA mission execution by providing a tool for efficiently accessing and utilizing data

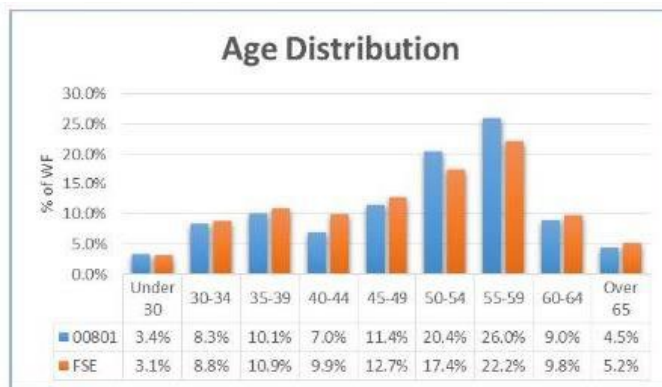
- Efficiently and effectively collect, process, analyze, and disseminate data
- Manage risks with a holistic, enterprise-wide approach, using state of the art data science techniques
- Maximize the effectiveness of safety professionals
- Enable knowledge management to ensure availability of expertise across the enterprise and for the future

Familiar Challenges

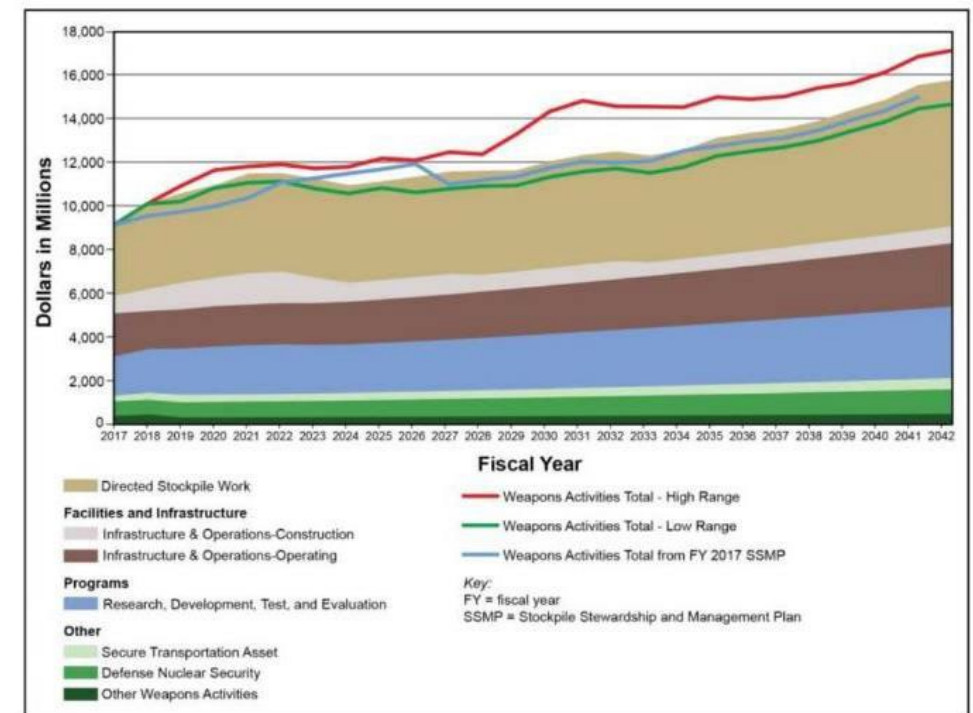
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Capability Gap created by Increased Workload and Staffing Challenges:

- Workload is increasing (major construction and LEPs)
- Aging workforce
- High turn-over



NNSA Workforce Demographics



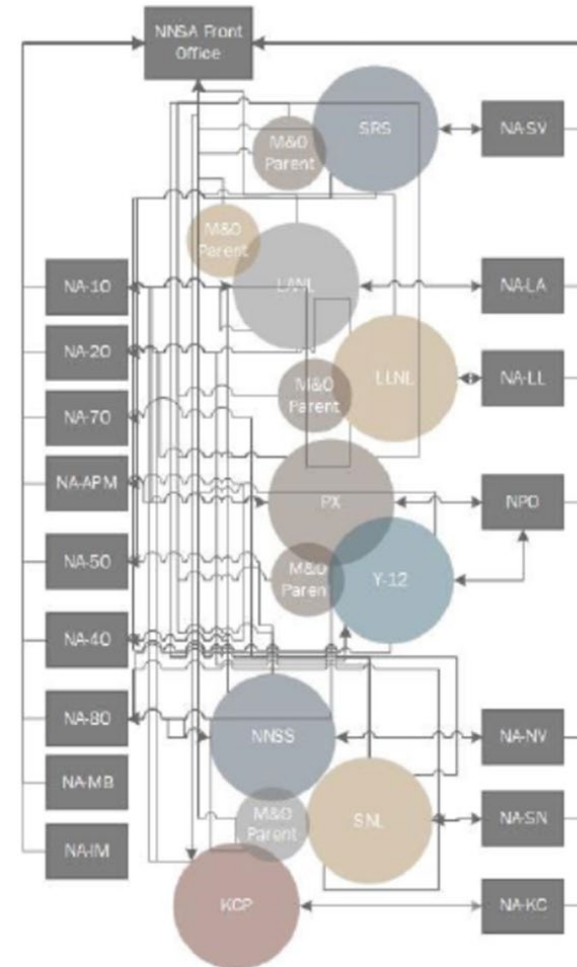
Upcoming NNSA Workload

Compartmentalized/Segregated Data Streams

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NNSA Safety Oversight is performed at varying levels of maturity:

- Multitude of **static, lagging, and uncoordinated** data sources
- **Limits data analysis** and decision makers' abilities to manage risk

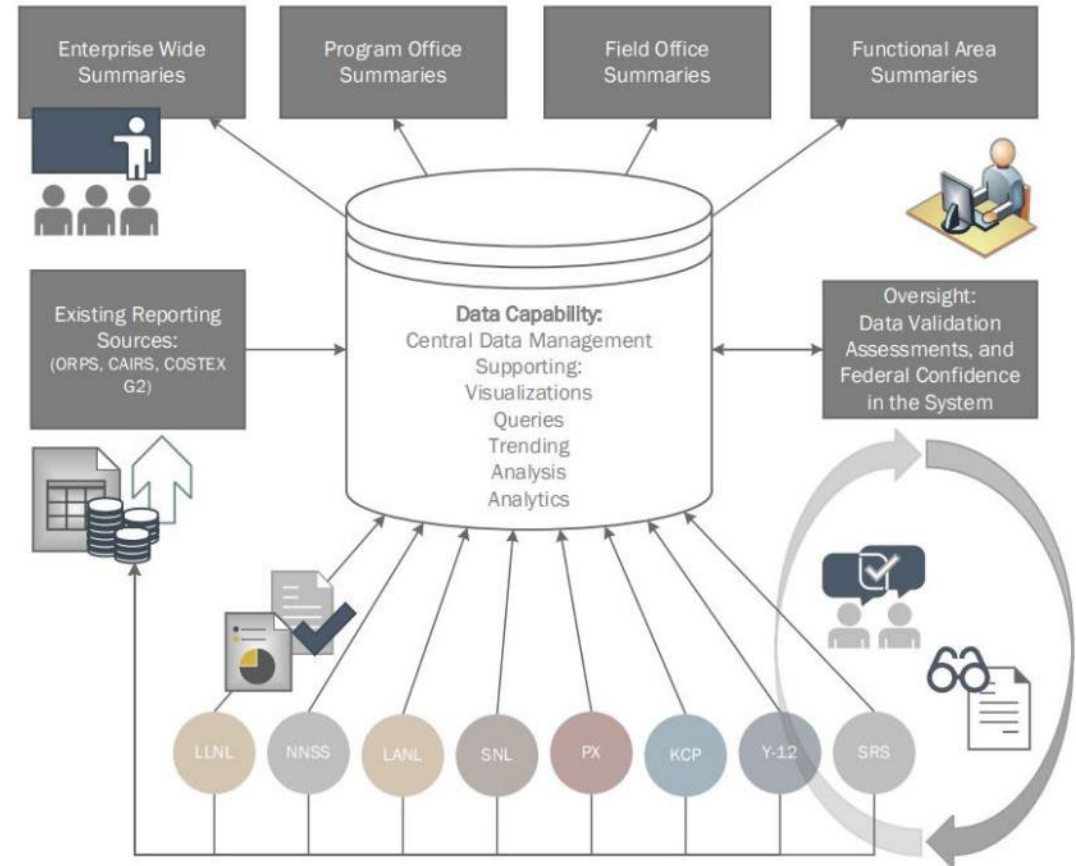


Desired State

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Deploy new data driven, risk informed tools to:

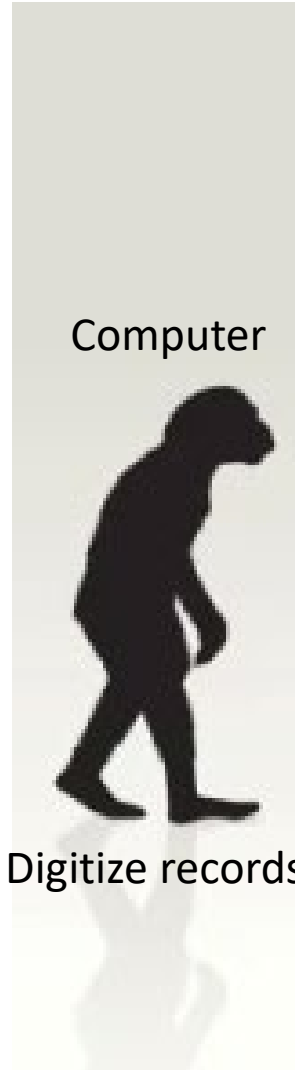
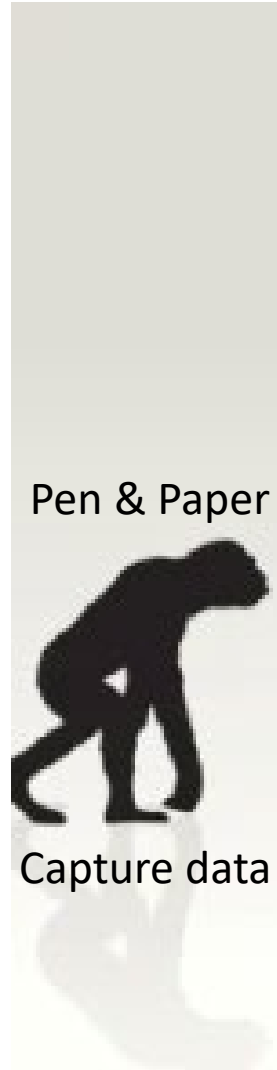
- Include **data, analysis, and visualizations** to inform decision makers
- **Improve our communication**



Desired future state of Central Data Management and increased Data Capability

NNSA can apply data analytics to quality, structured safety data using SAFER

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SAFER

SAFER is a set of Safety Management Program Modules

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SAFER provides a platform to readily access all information that might indicate an emerging issue

Program Health Dashboards

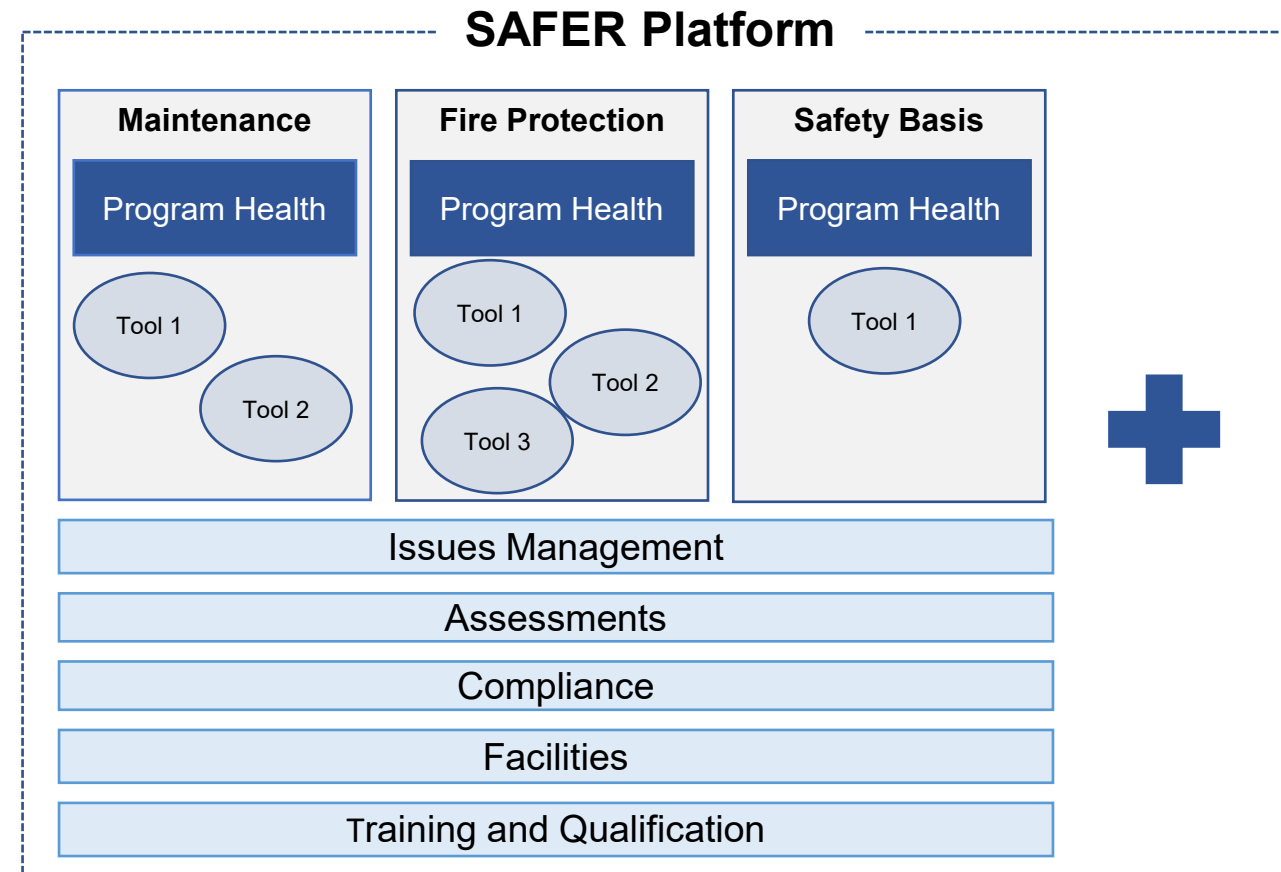
This part of the module is specific to the Safety Management Program (SMP). Program Health metrics and workflows are built with input from the SAFER working group and community of practice to provide insight into SMP health and risks, with the ability to explore deeper.

SMP-Specific Tools

This part of the module is specific to the SMP. Tools are built with input from the SAFER working group and community of practice to meaningfully improve or solve an operational problem that contributes to safety risk.

Cross-Functional / Common Pages

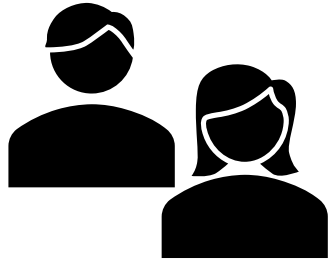
These common pages are deployed to all SMP modules. Common pages are populated from common site data, such as issues management data, or enterprise data, such as ORPS, and filtered by a set of keywords specific to the SMP.



SAFER is being tailored for many user groups

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Leadership at Sites & HQ

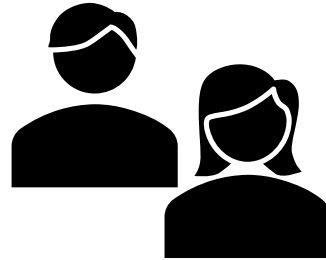


Responsible for:

- Tracking and trending performance across all areas
- Assessing competing needs
- Acquiring additional resources or reallocating existing resources

Field Office, M&O, and HQ

Functional Area SMEs

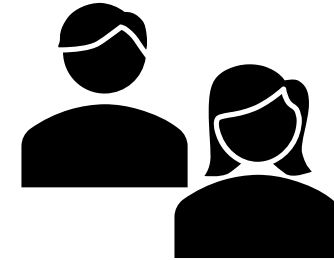


Responsible for:

- Tracking and trending performance
- Ensuring controls and processes are adequate and effective
- Addressing and/or elevating emerging issues

Field Office, M&O, and HQ

Facility Users (Facility Managers, CSEs, FRs, SSOs)



Responsible for:

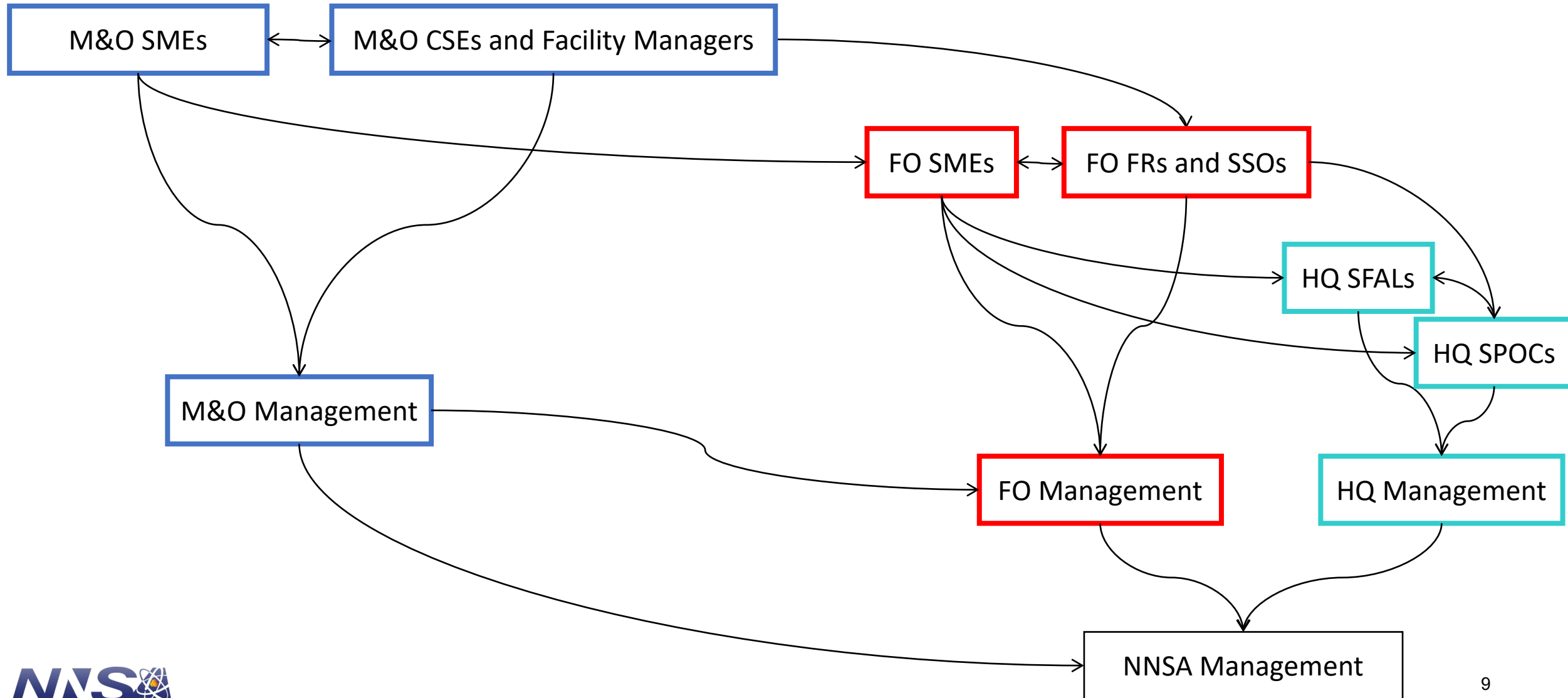
- Identifying and resolving day-to-day operational issues
- Coordinating with multiple SME groups
- Identifying and addressing potential risks to facility operations

Field Office and M&O

...and more, including assessors and database owners across the Complex

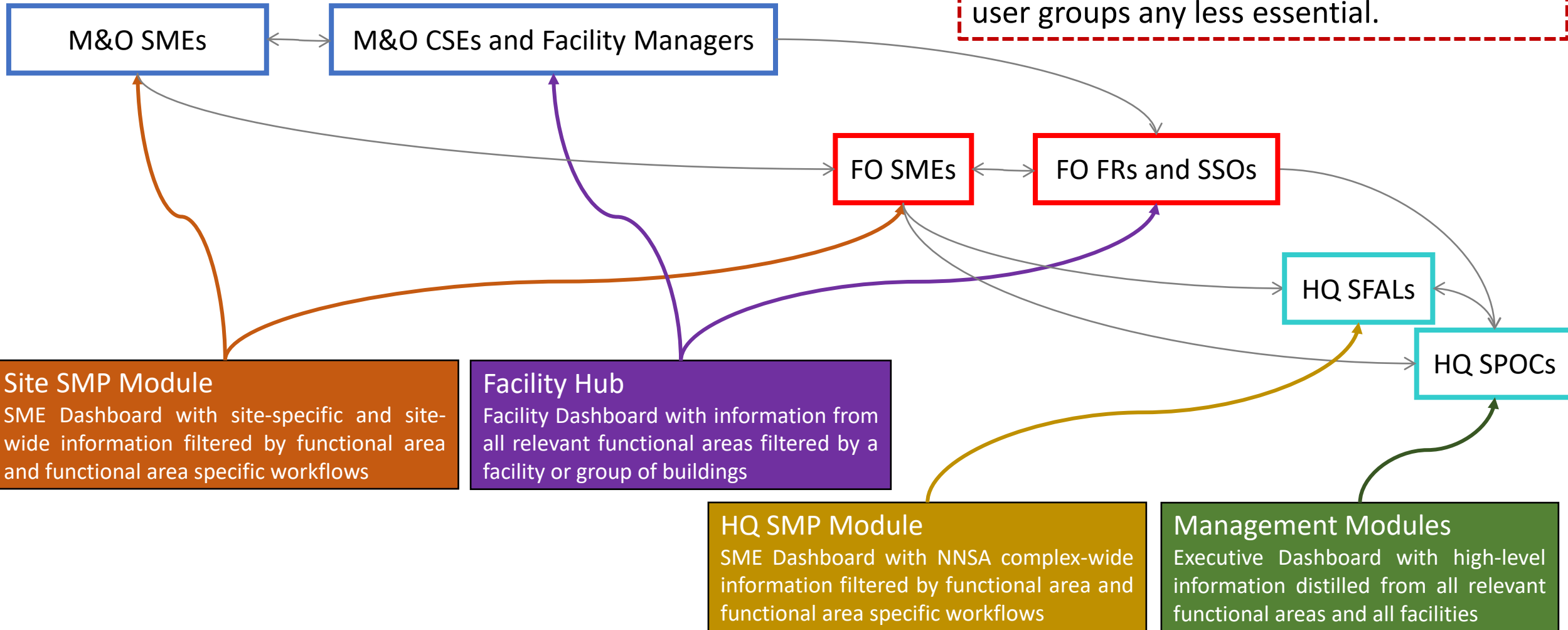
Information currently flows through many hands before making its way to decision makers

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SAFER provides SMEs with quicker access to information

Note: Having access to data in SAFER does not make communication between these user groups any less essential.



Future Uses of SAFER

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- Easy access to information brings M&O, field office, and HQ users onto the platform when they have a search
- Workflows for M&Os and field offices bring some user groups onto the platform routinely
- Program managers and federal oversight routinely use the program health dashboards of the modules to track the health of safety programs at their site(s)
 - When users see something noteworthy in a program health dashboard, they call the same points of contact that they communicated with prior to SAFER to discuss the observation

What is Built and What is Coming

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Modules

Built

- Safety Basis
- Fire Protection

In Progress

- Maintenance
- Radiation Protection
- Electrical Safety
- Worker Safety & Health*
- Quality Assurance

Slated

- Explosive Safety
- Criticality Safety

Other Potential Modules

- Utilities
- Packaging and Transportation
- Waste Management
- Infrastructure
- Conduct of Operations

Common Pages

Built

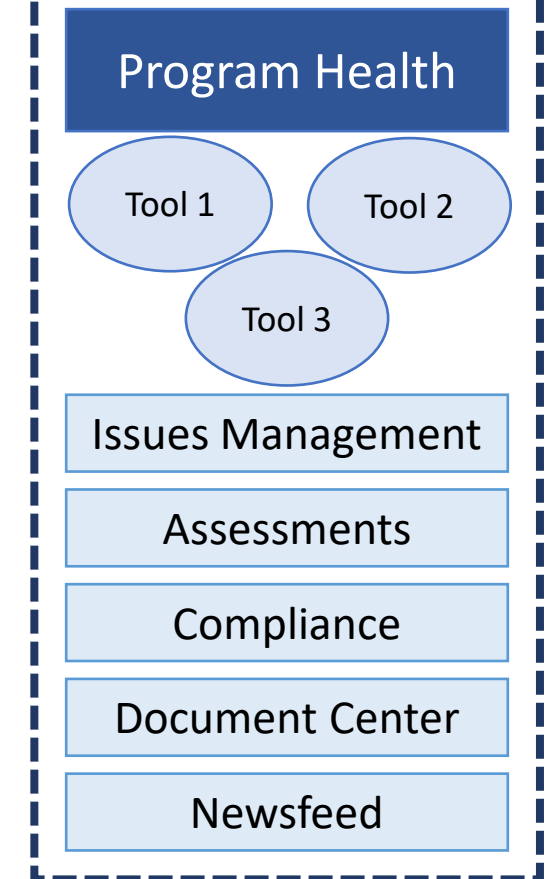
- Document Center

In Progress

- Issue Management
- Assessments
- Compliance
- Alerts/Newsfeed
- Staffing and Qualification

* Worker Safety & Health will include industrial hygiene, beryllium, and other subtopics

SMP Module



Access Beyond NNSA

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- Current SAFER contract and System Security Plan (SSP) reflect usage by NNSA safety professionals and limited usage for a select group of DOE users
- SAFER access for DNFSB will require further discussion with NA-IM, NA-PAS, and NA-ESH

Questions?