

TRANSFORMATION AT THE NRC

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InnovateNRC 2.0 Initiative

PROGRAMMATIC ASPECTS AND RECENT SUCCESSES OF THE INNOVATE NRC 2.0 PROGRAM

Amy D'Agostino, Ph.D.

Human Performance Analyst,

Office of Nuclear Regulatory Research





STAGE 1
INNOVATE NRC 1.0



STAGE 2
RESEARCH AND LESSONS LEARNED

STAGE 3
INNOVATE NRC 2.0

Innovation Platform Integrated Rewards & Community Recognition

New Tools

PITOWATE-A-THON

323 Success
Stories

Audible
version of
NRC
Information
Digest

ADAMS
Quickview
Application

Single Federal
Register
Notice for 4
Exemptions

PILITOWALE-A-THON

3 C H A L L E N G E S

Agile Teams

Licensee Information
Consolidation

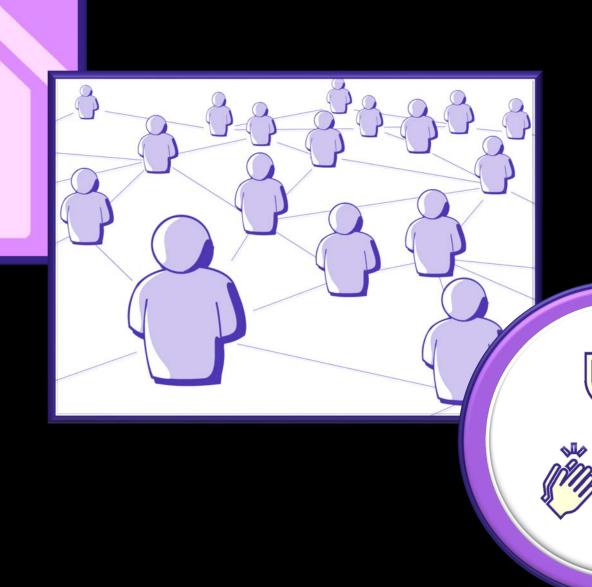
Early Alignment for Commission Papers







NEXT STEPS





CREATING A CULTURE THAT ENABLES THE AGENCY TO ACHIEVE ITS TRANSFORMATION VISION

OVERVIEW OF THE RESULTS AND IMPLEMENTATION PLAN

Patrice Reid, Ph.D.

Organizational Development Psychologist,

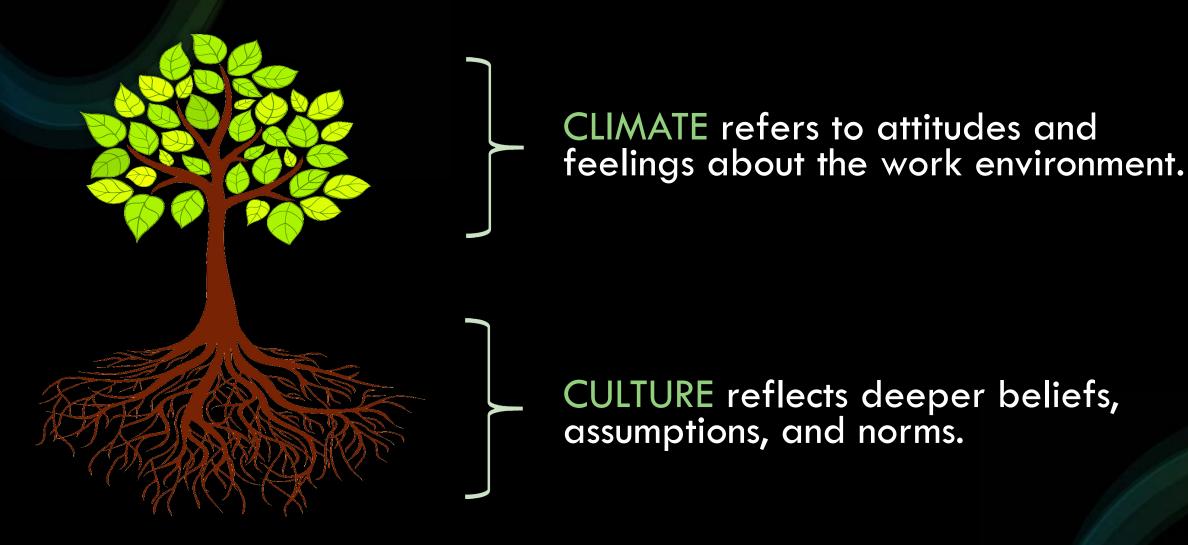
Office of the Chief Human Capital Officer

FOSTERING OUR DESIRED CULTURE



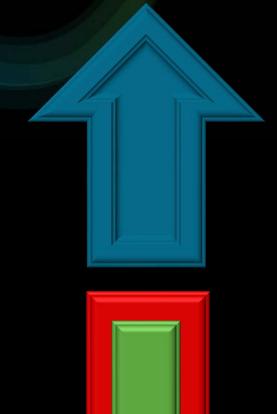
- Create a positive working environment
- Encourage new ideas for organizational improvement
- Enhance adaptability and receptivity to change

EXAMINING THE NRC HOLISTICALLY



Both climate and culture tell our story.

ASSESSING NRC CULTURE



We should strengthen norms for Constructive thinking and behavior styles.

© Practice more Constructive behaviors.

We should minimize excessive use of Defensive thinking and behavior styles.

© Practice less Defensive behaviors.

CLIMATE SURVEYS SHOW COMMON THEMES

2019 Federal Employee Viewpoint Survey

Upward Trends

- Reward Innovation
- Opportunity to Improve Skills
- Pay Satisfaction

Emerging Risks

- Workforce Motivation
- Employee Engagement
- Quality of Hire

2020 OIG Safety Culture & Climate Survey

Upward Trends

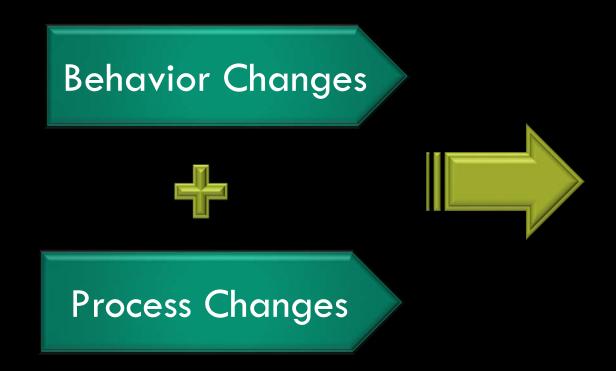
Individual Work Experience

Emerging Risks

- Human Capital attraction and retention of talent
- Management clear sense of direction; decisions consistent with mission
- NRC Objectives & Strategic Plans understanding of the mission, goals, and objectives of the NRC as a whole

AGENCY CULTURE IMPROVEMENT STRATEGY

The agency strategy includes behavior changes and process changes to shift toward our ideal culture and achieve our desired outcomes.



Outcomes Make quality and timely decisions Be adaptable and receptive to change Maintain an engaged workforce



CULTURE SHIFTS



Behavior Changes



Process Changes



...Coaching and Empowering...



...Sharing different viewpoints...



...Seeking innovative approaches...



...Showing mutual support...



...Bringing our whole selves to work...



Accountability



Communication



Recognition



Employee Development



Management of goals & priorities

MEASURING PROGRESS



SUSTAINING CHANGE

Senior Management Team Check-ins

Facilitate forums for leaders to reflect on how they are rolemodeling constructive behaviors.

Transformation Initiative Teams

Provide support and alignment for success.

Two-way Dialogues

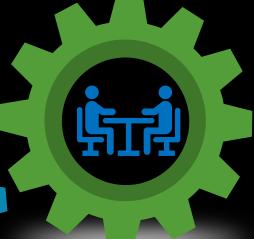
Facilitate discussions and share improvement updates with management and staff.











Champions & Change Agents

Empower staff to create touchpoints and share feedback.

Share Success Stories

Promote progress in offices/regions to facilitate shared learning.

OUR TEAM















(From L-R): Patrice Reid (OCHCO); Anthony de Jesus (OCIO); Candace Spore (NRR); Gladys Figueroa-Toledo (OE); Haimanot Yilma (OIP); Stephanie Morrow (RES); and Melana Singletary (RII).







Executive Sponsors (From L-R): Vonna Ordaz (SBCR); Scott Flanders (OCIO); and David Pelton (RIII).



USING DATA AND KEY INDICATORS TO INFORM THE AGENCY'S STRATEGIC DECISIONMAKING

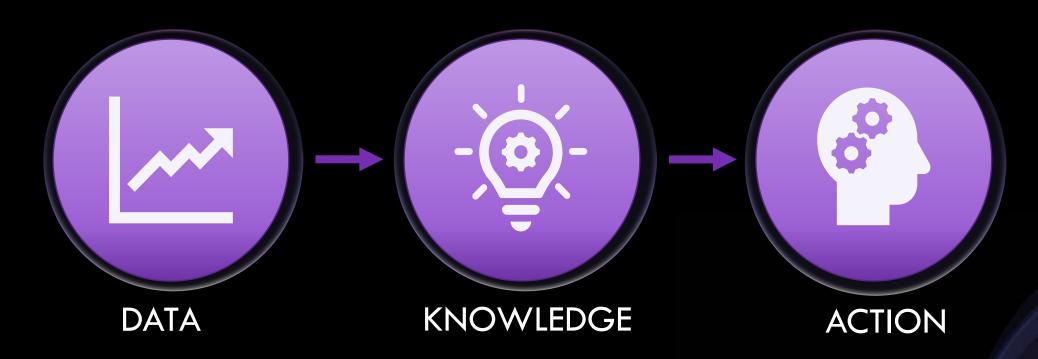
Nader Mamish,

Director,

Office of International Programs

WHAT'S THE OBJECTIVE?

Enable the agency to proactively address change



WHY ARE WE DOING THIS?

- Our external environment is changing in such a way that directly affects us.
- Effectively preparing for the future is contingent upon our awareness of where we may be heading.



FOUR FUTURES SCENARIOS



HOW ARE WE GETTING THERE?

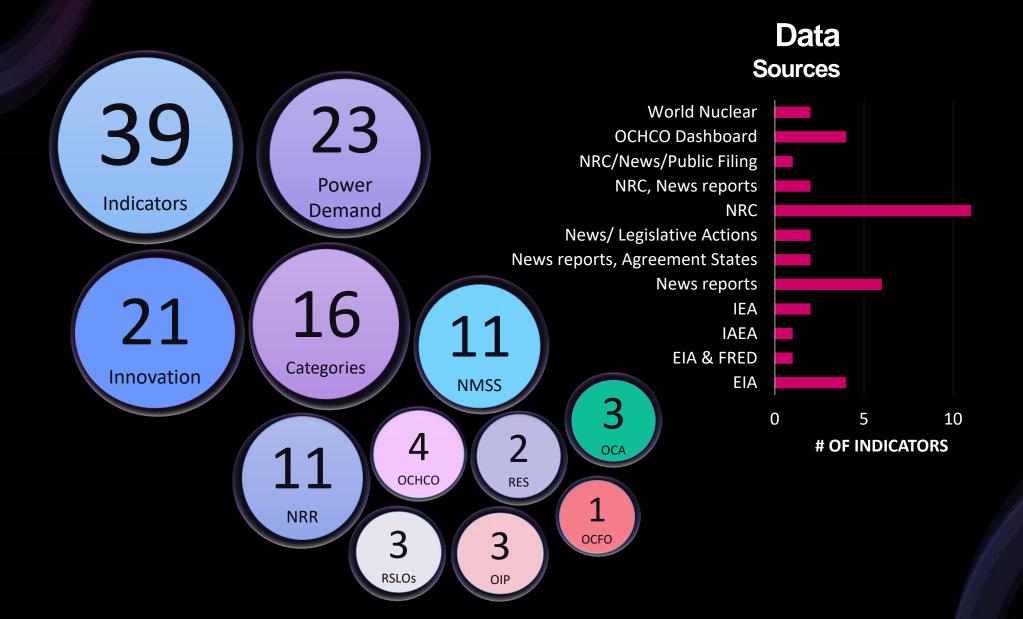
Identify key indicators

Develop dashboard

board

Integrate indicators in decision making

INDICATOR ANALYTICS



DASHBOARD LIVE DEMO Jonathan Greives, Branch Chief, Region I

HOW DOES THIS GET US TO OUR VISION FOR THE FUTURE?

Our vision for the future can (and should) change as our external environment changes.

Collecting and communicating indicators of our external environment will enhance **future** decisions to ensure they are aligned with where our workload may be headed.

OUR TEAM











(From L-R): Nader Mamish (OIP); Mohamed Shams (NRR); Jonathan Greives (Region I); Susan Vrahoretis (OGC): Jen Holzman (OIP)









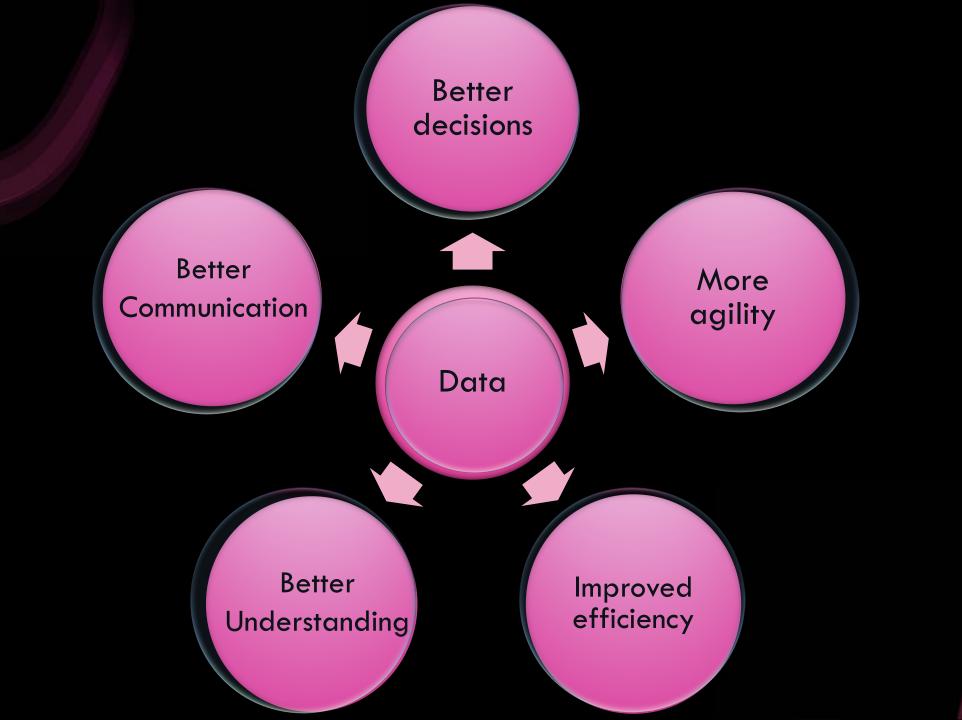
(From L-R): Steve Ruffin (OEDO); Alexa Sieracki (NMSS); Jason Paige (NRR); Carly Nelson-Wilson (OCFO)

USING DATA ANALYTICS TO IMPROVE THE NUCLEAR REACTOR SAFETY PROGRAM

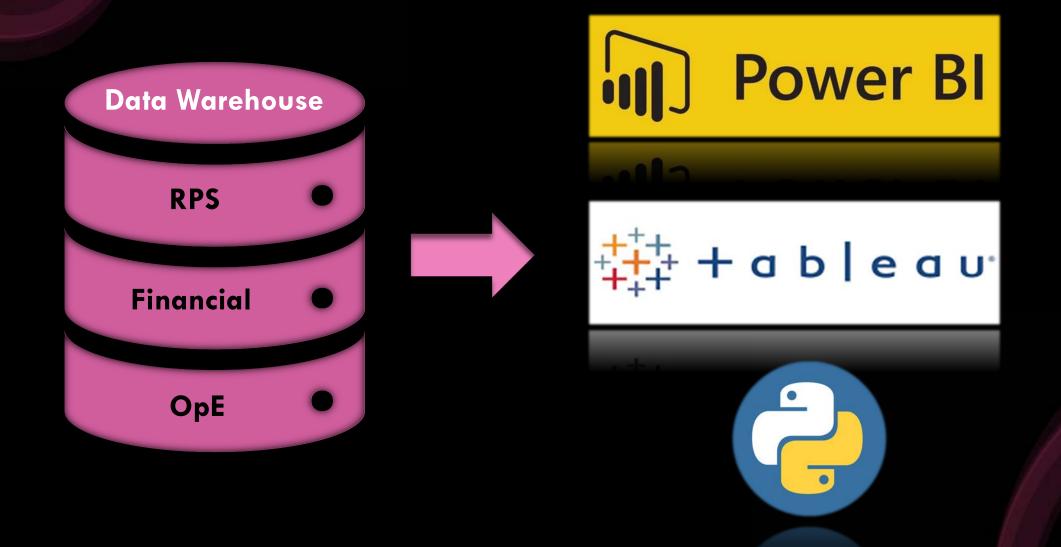
Reed Anzalone

Nuclear Engineer,

Office of Nuclear Reactor Regulation



THE NRC HAS MADE GREAT PROGRESS IN DATA ANALYTICS AND VISUALIZATION SINCE THE FUTURES JAM



DATA IS A TOP PRIORITY FOR THE REACTOR SAFETY PROGRAM

- Developing tools to:
 - Monitor and manage new and operating reactor licensing performance and workload
 - Help with budget analysis
 - Assess reactor oversight data
- EMBARK Venture Studio is spearheading and coordinating the development of these tools

MISSION ANALYTICS PORTAL



- MAP is not a single dashboard, but a growing collection of data analytics tools
- First phase focused on licensing workload management, with some tools to demonstrate accountability in resource execution
- MAP is supported by the data warehouse



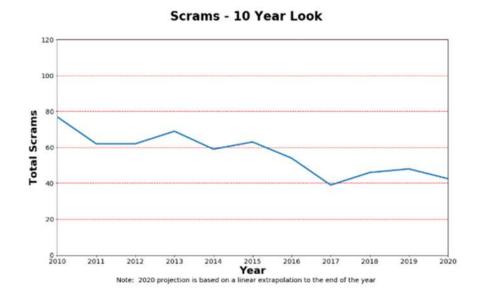
OPERATING EXPERIENCE DASHBOARDS

- One-stop access to tools that allow trending and searching of operating experience data
- Consolidates several disparate operating experience data sources, including findings, scram data, generic communications, and data from INPO's IRIS database
- Future plans include incorporation of risk information and a broader array of information sources



OpE Scrams Dashboard

This dashboard summarizes the current status of scrams as of August 10, 2020 . Last Scram: Grand Gulf, 8/8/2020 (EN 54824) Print/Save



26

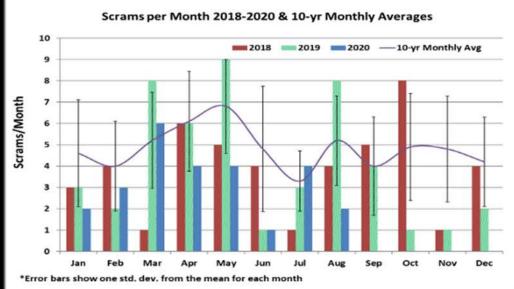
Scrams this Year

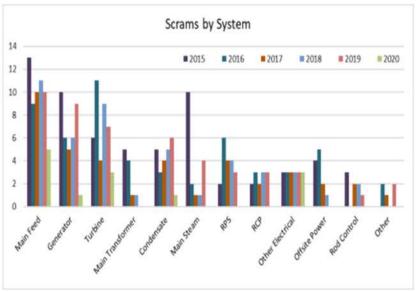
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Scrams Predicted This Year (Linear Extrapolation)

40

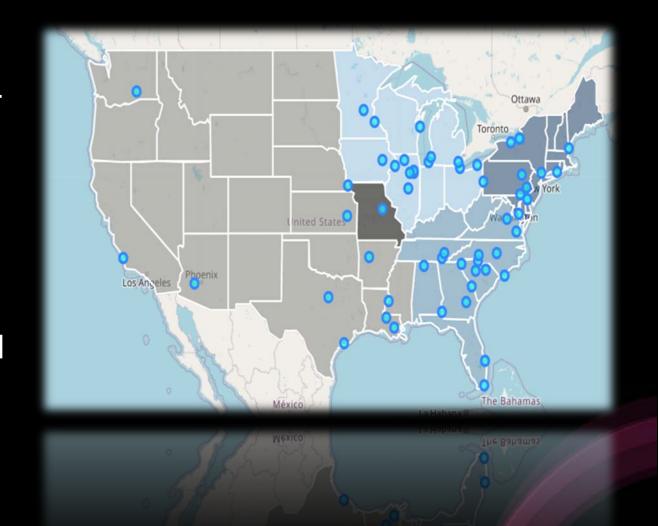
Scrams in the Past 365 Days





OPERATION RANGO

- Started with the goal of democratizing the reactor oversight process data on the public website to make it more accessible to the public and the staff
- Provides a snapshot of the current fleet status and ability to trend and compare over time
- Developed by NRC staff



Live Demo

BACKUP SLIDE

