STREAM ANALYSIS

Diagnosing
Organizational Change

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Changes to INPO Assistance

- INPO has received feedback that assistance often feels like an evaluation
- New objectives and behaviors of assistance:
 - Be a part of the station team
 - Be more facilitative/consultative
 - Provide solutions, not just identify gaps
- Information gained during an assistance activity cannot be used during a subsequent evaluation activity. It can be reviewed by the evaluator as part of their preparation. (This is not a change)

What is Stream Analysis?

- A facilitated method to understand organizational issues and help prioritize and develop integrated responses to those issues (Jerry Porras, Stanford University)
- A systematic and systemic approach for identifying and separating core problems from symptoms
- An approach to identify organizational drivers for NRC cross-cutting issues in HU and CAP

Why Stream Analysis?

- See relationships between issues formerly viewed as single, isolated problems
- Identify the most important issues common causes that drive multiple issues
- Determine unseen relationships and causes
- Promote a team approach to improving performance
- Other; change management and root cause investigations/common cause analysis

INPO Performance Model 2. 3. **JOB-SITE INDIVIDUAL CONDITIONS BEHAVIOR PLANT ORGANIZATIONAL FACTORS RESULTS**

Overview of Stream Analysis Process

- Day 1:
 - Describe the purpose and process of stream analysis
 - Stream the most recent evaluation AFIs
 - Determine the 'causal' relationships between the AFIs
- Day 2:
 - Analyze individually
 - As a group, discuss hidden drivers and corrective actions

Process Overview – How's It Done?

- Pre-work
 - Identify problem statements to be used
 - AFIs? PDs? Cause Statements? Outage Issues?
 - 15-16 issues typically take a full day
 - Determine participants
 - Typically top 20-25 of leadership team
 - Load software
 - INPO license agreement
 - Make meeting arrangements
 - Create and send Base Document and instructions

Process Overview – How's It Done?

- Train the participants deliver presentation
- Stream the problem statements
 - Problem statement owner provides a brief summary of the issue and their stream recommendation
 - Group discussion on stream recommendation
 - (15-20 min each)
 - Take vote on stream Outcome desired is consensus – If consensus is not reached, ask decision maker for stream placement
- Repeat the steps above until all problem statements are streamed
 - Often split, consensus vs. disagreement

Rules for Reaching Consensus

- We will discuss issues then take a 'vote' to see how participants are leaning
- Everyone must vote
- Additional discussion and votes if necessary
- If consensus is not reached, 'Can you support this stream with no significant reservation?' to the individuals of the minority streams
- If any member cannot support the final stream decision, the decision maker determines the placement
- Consensus / No-consensus threshold

Additional Thoughts

- The discussion is what is most important, but there is limited time so make good use of it
- If anyone feels strongly about a certain stream for an AFI recommend they take note of that
- Stream from left to right

AFI Streams

	<u>Job</u>		
Right Picture	<u>Processes</u>	<u>Performance</u>	<u>Ownership</u>
 •Mission •Organizational Structure •Clear Direction 	•Work Management •Administrative Controls •Hazard Control •Engineering •Human Resources	•Knowledge & Skills •Capacity and Readiness	•Cultural Factors •Open Communication •Teamwork •Coaching •Values

Definition: Clear Picture

- Key Question:
 - Did the station or individual have a clear picture of WHAT should be done? (surprised, unclear)
- May be deficient in areas such as:
 - Vision or Mission
 - Planning
 - Priorities
 - Role clarity
 - Communication
 - Standards and expectations

Definition: Processes

- Key Question:
 - Did the station or individual understand HOW work should be done?
- May be deficient in areas such as:
 - Work flow design
 - Documentation
 - Procedure development
 - Design bases and margins

Definition: Job Performance

- Key Question:
 - Did the station or individual have the KNOWLEDGE, SKILLS, or ABILITY to do what should be done?
- May be deficient in areas such as:
 - Fundamentals knowledge
 - Technical qualifications
 - Training
 - Skill of the craft

Definition: Ownership

- Key Questions:
 - Was the station or individual MOTIVATED to perform the work correctly? Do we just accept this?
- May be deficient in areas such as:
 - Engagement
 - Accountability
 - Reinforcing standards
 - Coaching and mentoring
 - Teamwork

Streams

	<u>Job</u>		
Right Picture	<u>Processes</u>	<u>Performance</u>	<u>Ownership</u>
 •Mission •Organizational Structure •Clear Direction 	•Work Management •Administrative Controls •Hazard Control •Engineering •Human Resources	•Knowledge & Skills •Capacity and Readiness	•Cultural Factors •Open Communication •Teamwork •Coaching •Values

Diagnosis Chart

	Right Picture	<u>Processes</u>	<u>Job</u> <u>Performance</u>	<u>Ownership</u>
AFI #1 AFI #2 AFI #3 AFI #4 AFI #5 AFI #6 AFI #7 AFI #8	AFI #1	AFI #1	AFI #1	AFI #1

Diagnosis Chart

	Right Picture	<u>Processes</u>	<u>Job</u> <u>Performance</u>	<u>Ownership</u>
AFI #1 AFI #2 AFI #3 AFI #4 AFI #5 AFI #6 AFI #7 AFI #8	AFI #2 AFI #4 AFI #6	AFI #1	AFI #5 AFI #8	AFI #3 AFI #7

ROOT CAUSE STREAMS

JOBS /	PICTURE	<u>RIGHT</u>	OWNERSHIP/
PEOPLE •Selection •Succession •Training •Knowledge & Skills •Motives •Individual attitude	•Expectations •Behavior •Performance •Vision, Goals, Strategy & Plan •Passion	•Procedures / Work Packages •Work Management •Way We Do Business •Engineering Processes •Work Flow Design	•Communication •Oversight / Field Time •Coaching Desired Behaviors •Value Prevention •Rewards System •Engagement •Teamwork

Jobs/People

JOBS / PEOPLE

- Selection
- Succession
- Training
- Knowledge & Skills
- Motives
- Individual attitude

- Individual based attribute
- Skill and knowledge based
- Process for selection solid
- Individual's attitude not the cowboy
- Individual ability to interact with others

Picture

PICTURE

- Expectations
- Behavior
- Performance
- Vision, Goals,Strategy & Plan
- Passion

- This is the formal side of the organization – "what makes it tick"
- Understanding what is excellence
- It's the message on how individuals and the organization is to behave or perform
- It is the passion to succeed

Right Process

RIGHT PROCESS

- Procedures / WorkPackages
- Work Management
- Way We Do Business
- EngineeringProcesses
- Work Flow Design

- Formal rules that define "ways of doing things"
- Designed process or programs to get things done
- "What is acceptable" to the organization

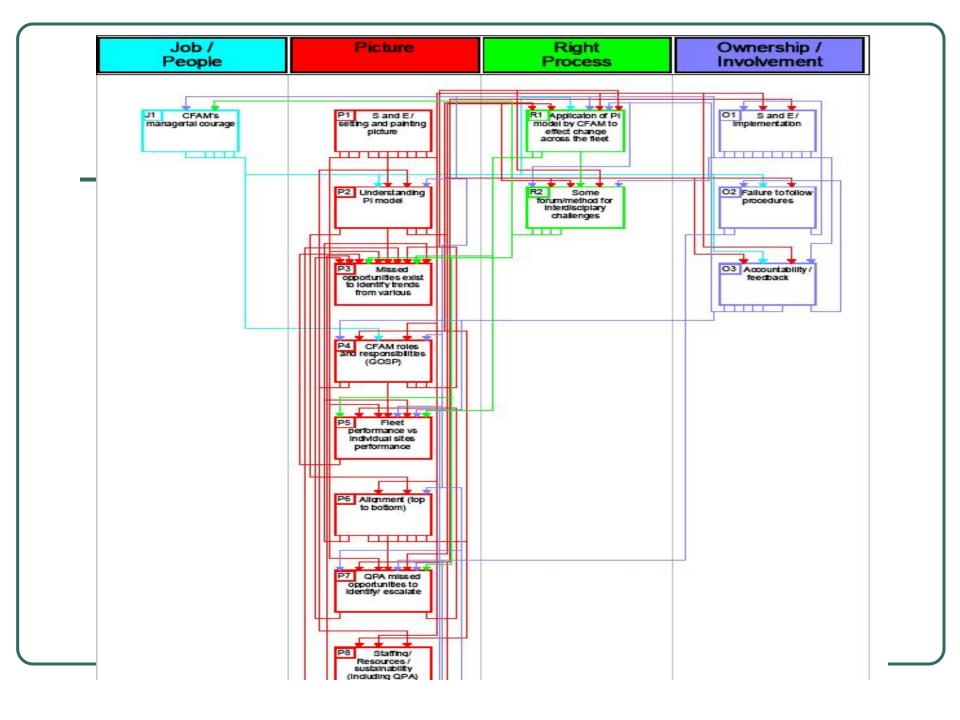
OWNERSHIP / INVOLVEMENT

- Communication
- Oversight / FieldTime
- Coaching Desired Behaviors
- Value Prevention
- Rewards System
- Engagement
- Teamwork

- Ownership / Involvement
 - By anyone in the organization
 - Coaching, mentoring, reinforcing at work locations
 - What is rewarded to "get it done!"
 - "Buy in" of the organization

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Process Overview – How's It Done?

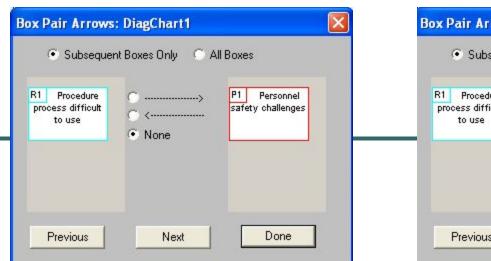
- Create Linkages
- Looking for a cause and effect relationship with a degree of significance
 - Review each combination of two problem statements
 - Problem 1 drives Problem 2
 - Problem 2 drives Problem 1
 - No relationship
- Time
 - Typically 45-60 minutes for all linkages

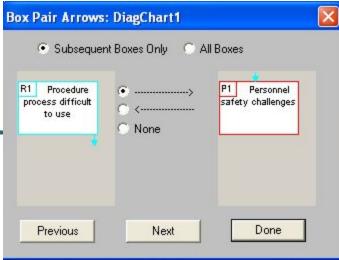
Ground Rules

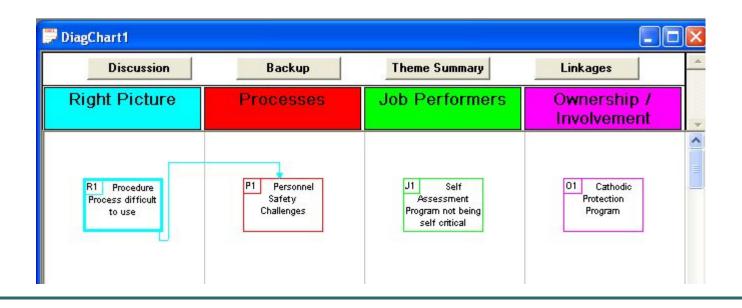
- This should go quickly
- Listen for initial response
- Move on after one concurrence
- You can go back, but... does it make sense?

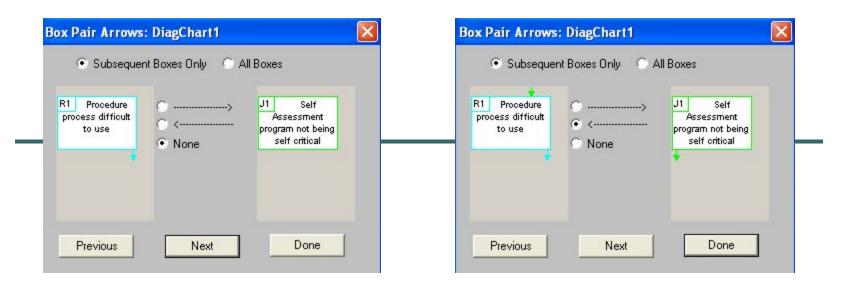
Faciliator's role

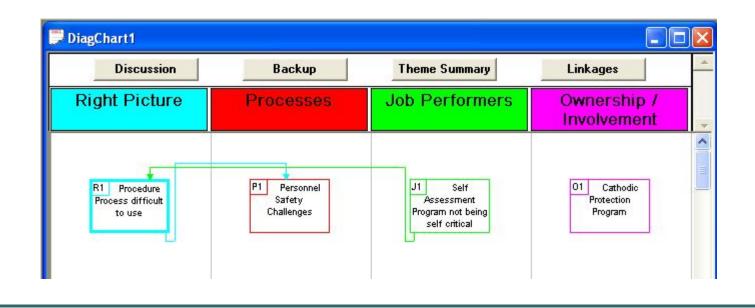
- Challenge group think
- Encourage different views
- Involve the "silent" team members
- Facilitate the discussion; not participate as stakeholder
- Operate the software
- Ground Rules

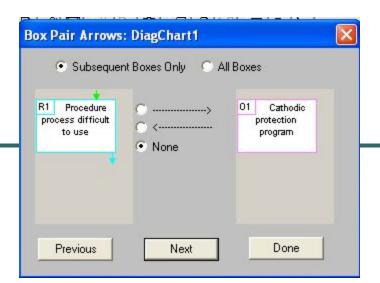


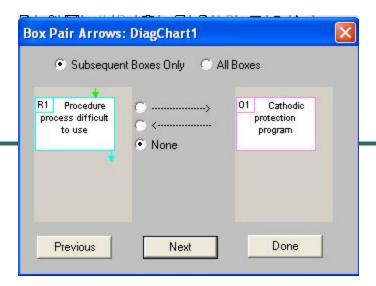


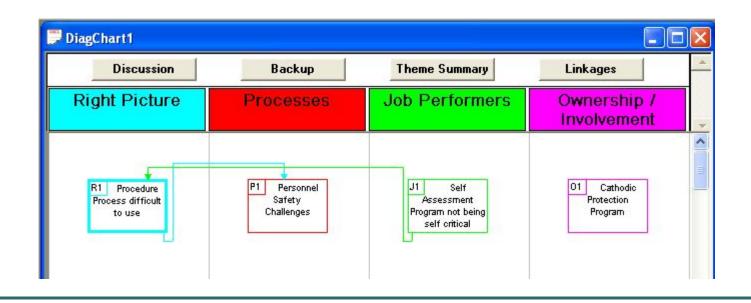


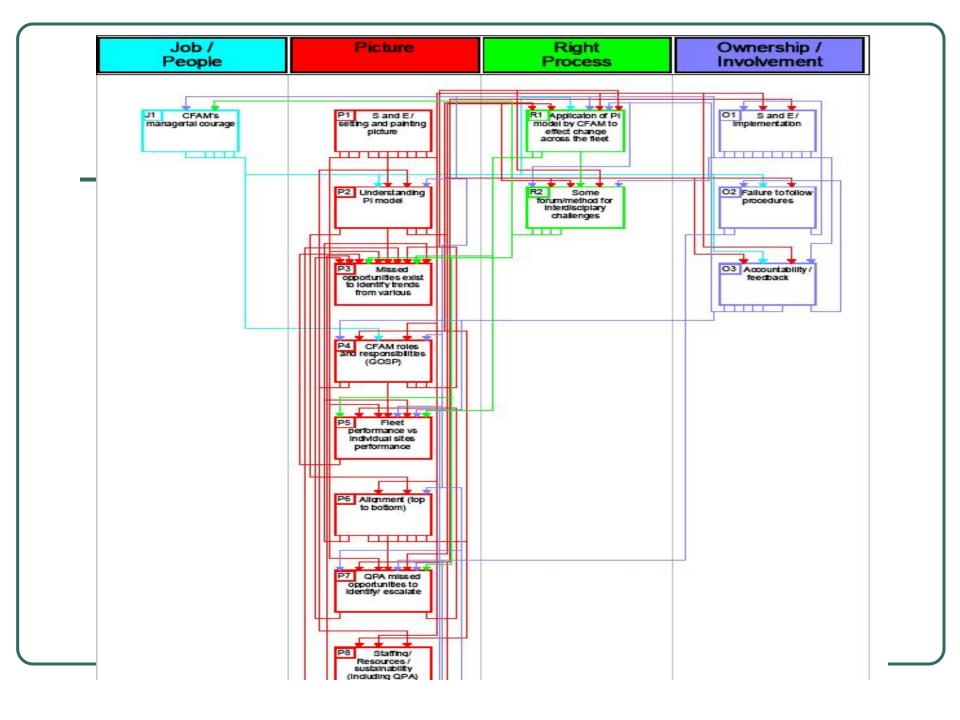












Process Overview – Day 2

- Homework Analyze the Results
 - What key issues are driving the others
 - Typically 3-4 key drivers
 - The overall pattern of results and relationships
 - Those with only arrows out
 - Those with arrows in and out
 - Those with only arrows in
 - Those with no arrows

Process Overview – Day 2

- Discuss similarities, common causes, observations, and implications identified in homework
- Determine next steps

Process Overview – How's It Done?

- Clarify results and assess corrective actions
- Results determine significance level
- Drivers should receive a root cause
- Root cause results should be integrated into high-level site planning – e.g. business plan
- Review/validate current corrective actions to address drivers and identify additional actions
- Owners of key drivers corrective actions should help fix symptom problem statements.
- Recognize need for collaboration with development of corrective actions plans

Day 2 Management Team– How's It Done?

Camp Fire

Stream Analysis

QUESTIONS?